

# Zambia



**Demographic and  
Health Survey**

**2018**





# Zambia Demographic and Health Survey 2018

**Zambia Statistics Agency**  
(Formerly Central Statistical Office)  
Lusaka, Zambia

**Ministry of Health**  
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## FOREWORD

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The Government of Zambia, through the Zambia Statistics Agency and the Ministry of Health together with its cooperating partners, conducted the 2018 Zambia Demographic and Health Survey (2018 ZDHS). This study is the sixth in a series of Demographic and Health Surveys in Zambia. Previous surveys were conducted in 1992, 1996, 2001-02, 2007, and 2013-14.

The ZDHS provides an opportunity to inform policy and provide data for planning, implementation, and monitoring and evaluation of national health programmes. It is designed to provide up-to-date information on health indicators, including fertility levels, nuptiality, sexual activity, fertility preferences, awareness and use of family planning methods, breastfeeding practices, nutritional status of children, early childhood and maternal mortality, maternal and child health, awareness and behaviours regarding HIV/AIDS and other sexually transmitted infections, and prevalence of HIV.

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## ACRONYMS AND ABBREVIATIONS

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|       |  |
|-------|--|
| ACT   | Artemisinin-based combination therapy                      |
| AIDS  | Acquired immune deficiency syndrome                        |
| ANC   | Antenatal care   |
| ARI   | Acute respiratory infection                                |
| ART   | Antiretroviral therapy                                     |
| ARVs  | Antiretroviral drugs                                       |
| BCG   | Bacille Calmette-Guérin                                    |
| CAPI  | Computer-assisted personal interviewing                    |
| CDC   | Centers for Disease Control and Prevention                 |
| CI    | Confidence interval  |
| CPH   | Census of Population and Housing                           |
| CPR   | Contraceptive prevalence rate                              |
| CSAs  | Census supervisory areas                                   |
| CSO   | Central Statistical Office                                 |
| CSPro | Censuses and Survey Processing                             |
| DBS   | Dried blood spot   |
| DFID  | Department for International Development                   |
| DHS   | Demographic and Health Survey                              |
| DPT   | Diphtheria, pertussis, and tetanus vaccine                 |
| EA    | Enumeration area   |
| EIA   | Enzyme immunoassay   |
| ELISA | Enzyme-linked immunosorbent assay                          |
| eMTCT | Elimination of mother-to-child transmission                |
| EPI   | Expanded Programme on Immunisation                         |
| GAR   | Gross attendance ratio                                     |
| GBV   | Gender-based violence                                      |
| GF    | Global Fund  |
| GFR   | General fertility rate                                     |
| GPI   | Gender parity index  |
| HepB  | Hepatitis B  |
| Hib   | <i>Haemophilus influenzae</i> type b                       |
| HIV   | Human immunodeficiency virus                               |
| ICF   | ICF (originally, Inner City Fund)                          |
| IMCI  | Integrated management of childhood illnesses               |
| IPTp  | Intermittent preventive treatment for malaria in pregnancy |
| IPV   | Inactivated polio vaccine                                  |
| IQC   | Internal quality control                                   |
| IRBs  | Institutional review boards                                |
| IRS   | Indoor residual spraying                                   |
| ITN   | Insecticide-treated net                                    |
| IUD   | Intrauterine device  |
| IYCF  | Infant and young child feeding                             |

|          |   |
|----------|---|
| LAM      | Lactational amenorrhoea   |
| LLIN     | Long-lasting insecticidal net   |
| LPG      | Liquid petroleum gas  |
| MGCD     | Ministry of Gender and Child Development                                |
| MHA      | Ministry of Home Affairs  |
| MMR      | Maternal mortality ratio  |
| MNDP     | Ministry of National Development Planning                               |
| MOH      | Ministry of Health  |
| MR       | Measles and rubella   |
| MTCT     | Mother-to-child transmission  |
| MWDSEP   | Ministry of Water Development, Sanitation, and Environmental Protection |
| NAC      | National AIDS Council   |
| NAR      | Net attendance ratio  |
| NMEC     | National Malaria Elimination Centre                                     |
| OPV      | Oral polio vaccine  |
| ORS      | Oral rehydration salts  |
| ORT      | Oral rehydration therapy  |
| PCV      | Pneumococcal vaccine  |
| PEPFAR   | U.S. President's Emergency Plan for AIDS Relief                         |
| PLHIV    | People living with HIV  |
| PRMR     | Pregnancy-related mortality ratio                                       |
| RDT      | Rapid diagnostic testing  |
| RHF      | Government-recommended homemade fluids                                  |
| RR       | Risk ratio  |
| RV       | Rotavirus vaccine   |
| SD       | Standard deviation  |
| SDGs     | Sustainable Development Goals   |
| SDM      | Standard days method  |
| SE       | Standard error  |
| SEA      | Standard enumeration areas  |
| SP       | Sulfadoxine-pyrimethamine   |
| STI      | Sexually transmitted infection  |
| TDRC     | Tropical Diseases Research Centre                                       |
| TFR      | Total fertility rate  |
| TOT      | Training of trainers  |
| UNAIDS   | Joint United Nations Programme on HIV and AIDS                          |
| UNFPA    | United Nations Population Fund  |
| UNZA     | University of Zambia  |
| USAID    | United States Agency for International Development                      |
| UTH-VL   | University Teaching Hospital Virology Laboratory                        |
| VAD      | Vitamin A deficiency  |
| VIP      | Ventilated improved pit latrine   |
| WHO      | World Health Organization   |
| ZAMSTATS | Zambia Statistics Agency (formerly CSO)                                 |
| ZDHS     | Zambia Demographic and Health Survey                                    |

# SUSTAINABLE DEVELOPMENT GOAL INDICATORS

Zambia DHS 2018

| Indicator  | Sex       |        |                   | DHS table number |
|--|-----------|--------|-------------------|------------------|
|  | Male      | Female | Total             |                  |
| <b>2. Zero hunger</b>  |           |        |                   |                  |
| 2.2.1 Prevalence of stunting among children under 5 years of age   | 38.3      | 31.0   | 34.6              | 11.1             |
| 2.2.2 Prevalence of malnutrition among children under 5 years of age   | 10.2      | 8.7    | 9.5 <sup>a</sup>  | na               |
| a) Prevalence of wasting among children under 5 years of age   | 4.8       | 3.7    | 4.2 <sup>a</sup>  | 11.1             |
| b) Prevalence of overweight among children under 5 years of age  | 5.4       | 5.0    | 5.2 <sup>a</sup>  | 11.1             |
| <b>3. Good health and well-being</b>   |           |        |                   |                  |
| 3.1.1 Maternal mortality ratio <sup>1</sup>  | na        | na     | 252               | 15.4             |
| 3.1.2 Proportion of births attended by skilled health personnel  | na        | na     | 80.4              | 9.6              |
| 3.2.1 Under-5 mortality rate <sup>2</sup>  | 67        | 53     | 61                | 8.2              |
| 3.2.2 Neonatal mortality rate <sup>2</sup>   | 33        | 22     | 27                | 8.2              |
| 3.7.1 Proportion of women of reproductive age (aged 15-49 years) who have their need for family planning satisfied with modern methods   | na        | 66.2   | na                | 7.13.2           |
| 3.7.2 Adolescent birth rates per 1,000 women   | na        | 66.2   | na                | 5.1              |
| a) Girls aged 10-14 years <sup>3</sup>   | na        | 3      | na                | 5.1              |
| b) Women aged 15-19 years <sup>4</sup>   | na        | 135    | na                | 5.1              |
| 3.a.1 Age-standardized prevalence of current tobacco use among persons aged 15 years and older <sup>5</sup>  | 18.5      | 0.9    | 9.7 <sup>a</sup>  | 3.10.1, 3.10.2   |
| 3.b.1 Proportion of the target population covered by all vaccines included in their national programme   |           |        |                   |                  |
| a) Coverage of DPT containing vaccine (3 <sup>rd</sup> dose) <sup>6</sup>  | 91.6      | 92.6   | 92.1              | 10.3             |
| b) Coverage of measles containing vaccine (2 <sup>nd</sup> dose) <sup>7</sup>  | 66.5      | 61.2   | 63.8              | 10.3             |
| c) Coverage of pneumococcal conjugate vaccine (last dose in schedule) <sup>8</sup>   | 89.7      | 89.9   | 89.8              | 10.3             |
| <b>5. Gender equality</b>  |           |        |                   |                  |
| 5.2.1 Proportion of ever-partnered women and girls aged 15 years and older subjected to physical, sexual or psychological violence by a current or former intimate partner in the previous 12 months <sup>9,10</sup> | na        | 32.3   | na                | 17.12            |
| a) Physical violence   | na        | 21.1   | na                | 17.12            |
| b) Sexual violence   | na        | 10.8   | na                | 17.12            |
| c) Psychological violence  | na        | 22.6   | na                | 17.12            |
| 5.3.1 Proportion of women aged 20-24 years who were married or in a union before age 15 and before age 18  |           |        |                   | 4.3              |
| a) Before age 15   | na        | 5.2    | na                | 4.3              |
| b) Before age 18   | na        | 29.0   | na                | 4.3              |
| 5.6.1 Proportion of women aged 15-49 years who make their own informed decisions regarding sexual relations, contraceptive use and reproductive health care <sup>11</sup>  | na        | 46.5   | na                | na               |
| 5.b.1 Proportion of individuals who own a mobile telephone <sup>12</sup>   | 65.7      | 53.0   | 59.3 <sup>a</sup> | 15.7.1, 15.7.2   |
|  | Residence |        |                   |                  |
|  | Urban     | Rural  | Total             |                  |
| <b>7. Affordable clean energy</b>  |           |        |                   |                  |
| 7.1.1 Proportion of population with access to electricity  | 70.6      | 8.1    | 32.8              | 2.4              |
| 7.1.2 Proportion of population with primary reliance on clean fuels and technology <sup>13</sup>   | 18.0      | 1.5    | 8.0               | 2.4              |
|  | Sex       |        |                   |                  |
|  | Male      | Female | Total             |                  |
| <b>8. Decent work and economic growth</b>  |           |        |                   |                  |
| 8.10.2 Proportion of adults (15 years and older) with an account at a bank or other financial institution or with a mobile-money-service provider <sup>14</sup>  | 17.6      | 10.8   | 14.2 <sup>a</sup> | 15.7.1, 15.7.2   |
| <b>16. Peace, justice, and strong institutions</b>   |           |        |                   |                  |
| 16.9.1 Proportion of children under 5 years of age whose births have been registered with a civil authority  | 14.1      | 14.0   | 14.0              | 2.11             |
| <b>17. Partnerships for the goals</b>  |           |        |                   |                  |
| 17.8.1 Proportion of individuals using the Internet <sup>15</sup>  | 26.0      | 12.1   | 19.0 <sup>a</sup> | 3.5              |

na = Not applicable

<sup>1</sup> Expressed in terms of maternal deaths per 100,000 live births in the 7-year period preceding the survey

<sup>2</sup> Expressed in terms of deaths per 1,000 live births for the 5-year period preceding the survey

<sup>3</sup> Equivalent to the age-specific fertility rate for girls age 10-14 for the 3-year period preceding the survey, expressed in terms of births per 1,000 girls age 10-14

<sup>4</sup> Equivalent to the age-specific fertility rate for women age 15-19 for the 3-year period preceding the survey, expressed in terms of births per 1,000 women age 15-19

<sup>5</sup> Data are not age-standardized and are available for women and men age 15-49 only.

<sup>6</sup> The percentage of children age 12-23 months who received three doses of DPT-HepB-Hib

<sup>7</sup> The percentage of children age 24-35 months who received two doses of measles and rubella vaccine

<sup>8</sup> The percentage of children age 12-23 months who received three doses of pneumococcal vaccine

<sup>9</sup> Data are available for women age 15-49 who have ever been in union only.

<sup>10</sup> In the DHS, psychological violence is termed emotional violence.

<sup>11</sup> Data are available for currently married women who are not pregnant only.

<sup>12</sup> Data are available for women and men age 15-49 only.

<sup>13</sup> Measured as the percentage of the population using clean fuel for cooking.

<sup>14</sup> Data are available for women and men age 15-49 who have and use an account at a bank or other financial institution; information on use of a mobile-money-service provider is not available.

<sup>15</sup> Data are available for women and men age 15-49 who have used the internet in the past 12 months.

<sup>a</sup> The total is calculated as the simple arithmetic mean of the percentages in the columns for males and females.



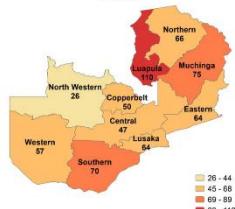
# READING AND UNDERSTANDING TABLES FROM THE 2018 ZAMBIA DEMOGRAPHIC AND HEALTH SURVEY (ZDHS)

The new format of the 2018 ZDHS final report is based on approximately 200 tables of data. For quick reference, they are located at the end of each chapter and can be accessed through links in the pertinent text (electronic version). Additionally, this more reader-friendly version features about 90 figures that clearly highlight trends, subnational patterns, and background characteristics. Large colourful maps display breakdowns for provinces in Zambia. The text has been simplified to highlight key points in bullets and to clearly identify indicator definitions in boxes.

While the text and figures featured in each chapter highlight some of the most important findings from the tables, not every finding can be discussed or displayed graphically. For this reason, ZDHS data users should be comfortable reading and interpreting tables.

The following pages provide an introduction to the organization of ZDHS tables, the presentation of background characteristics, and a brief summary of sampling and understanding denominators. In addition, this section provides some exercises for users as they practice their new skills in interpreting ZDHS tables.

**Figure 8.2 Under-5 mortality by province**  
Deaths per 1,000 live births for the 10-year period before the survey



- Under-5 mortality is higher among children born to women with no education (69 deaths per 1,000 live births) or a primary education (66 deaths per 1,000 live births) than among children born to women with a secondary (62 deaths per 1,000 live births) or higher (47 deaths per 1,000 live births) education (**Figure 8.3**).

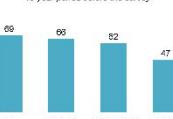
## 8.2 BIODEMOGRAPHIC RISK FACTORS

The risk of childhood death is influenced by specific biodemographic factors related to inherent congenital characteristics of children themselves or their mothers. The sex of the child, the age of the mother at birth, and other factors such as birth order, previous birth interval, and birth size all have implications for a child's survivability (Msharuzi et al. 2018).

### Patterns by background characteristics

- The 2018 ZDHS results show that mortality rates are lower among female children than among their male counterparts, with differences of at least 10 deaths per 1,000 live births for all three indicators (infant mortality: 22 versus 33; under-5 mortality: 53 versus 67) (**Table 8.2**).
- The infant mortality rate is higher (58 deaths per 1,000 live births) among infants born to women under age 20 than among infants born to women in other age groups (**Table 8.3**).
- Both infant and under-5 mortality rates are higher when the reported previous birth interval is less than 2 years (86 and 116 deaths per 1,000 live births, respectively).
- Under-5 mortality is highest among first-order births (73 deaths per 1,000 live births) and births of order 7 or higher (70 deaths per 1,000 live births) (**Table 8.3**).

**Figure 8.3 Under-5 mortality by mother's education**  
Deaths per 1,000 live births for the 10-year period before the survey



*Infant and Child Mortality • 123*

## Example 1 – Exposure to Mass Media: Women

A Question Asked of All Survey Respondents

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Number of women |        |
|---------------------------|--|---|---|---|---|-----------------|--------|
|                           | 3                                      |   |   |   | 1   | 2               |        |
| <b>Age</b>                |  |   |   |   |   |                 |        |
| 15-19                     | 12.4                                   | 36.8                                    | 29.5                                      | 4.8   | 47.5  | 3,000           |        |
| 20-24                     | 10.1                                   | 37.9                                    | 33.1                                      | 4.3   | 46.0  | 2,733           |        |
| 25-29                     | 10.4                                   | 40.4                                    | 37.6                                      | 5.2   | 43.3  | 2,237           |        |
| 30-34                     | 10.4                                   | 43.2                                    | 38.4                                      | 6.0   | 42.1  | 1,862           |        |
| 35-39                     | 10.1                                   | 37.3                                    | 35.9                                      | 5.3   | 46.2  | 1,697           |        |
| 40-44                     | 9.2                                    | 35.2                                    | 36.0                                      | 5.4   | 48.6  | 1,253           |        |
| 45-49                     | 11.3                                   | 28.5                                    | 34.9                                      | 4.9   | 52.5  | 900             |        |
| <b>Residence</b>          |  |   |   |   |   |                 |        |
| Urban                     | 14.8                                   | 67.0                                    | 43.6                                      | 9.1   | 23.8  | 6,374           |        |
| Rural                     | 7.1                                    | 12.4                                    | 26.6                                      | 1.5   | 65.4  | 7,309           |        |
| <b>Province</b>           |  |   |   |   |   |                 |        |
| Central                   | 11.1                                   | 30.7                                    | 38.6                                      | 4.0   | 46.7  | 1,165           |        |
| Copperbelt                | 14.5                                   | 62.8                                    | 42.2                                      | 8.3   | 25.4  | 2,201           |        |
| Eastern                   | 16.6                                   | 19.0                                    | 33.7                                      | 3.6   | 51.6  | 1,605           |        |
| Luapula                   | 6.2                                    | 22.3                                    | 43.3                                      | 2.6   | 47.8  | 1,071           |        |
| Lusaka                    | 15.2                                   | 72.9                                    | 43.1                                      | 10.7  | 21.4  | 2,733           |        |
| Muchinga                  | 7.5                                    | 17.3                                    | 31.2                                      | 1.7   | 61.7  | 754             |        |
| Northern                  | 4.1                                    | 15.4                                    | 24.6                                      | 1.5   | 68.4  | 1,054           |        |
| North Western             | 1.0                                    | 18.9                                    | 11.8                                      | 0.4   | 77.4  | 718             |        |
| Southern                  | 5.3                                    | 22.8                                    | 27.0                                      | 2.3   | 60.9  | 1,574           |        |
| Western                   | 9.4                                    | 14.4                                    | 19.7                                      | 2.3   | 70.7  | 808             |        |
| <b>Education</b>          |  |   |   |   |   |                 |        |
| No education              | 0.3                                    | 12.5                                    | 21.9                                      | 0.0   | 72.0  | 1,054           |        |
| Primary                   | 4.6                                    | 20.4                                    | 26.5                                      | 0.9   | 60.9  | 6,059           |        |
| Secondary                 | 15.0                                   | 54.0                                    | 42.0                                      | 7.2   | 31.1  | 5,816           |        |
| Higher                    | 40.5                                   | 88.5                                    | 59.1                                      | 28.9  | 5.8   | 755             |        |
| <b>Wealth quintile</b>    |  |   |   |   |   |                 |        |
| Lowest                    | 4.7                                    | 3.3                                     | 16.6                                      | 0.3   | 79.0  | 2,442           |        |
| Second                    | 6.0                                    | 4.6                                     | 25.3                                      | 0.4   | 69.8  | 2,387           |        |
| Middle                    | 7.3                                    | 11.6                                    | 30.4                                      | 1.3   | 62.8  | 2,477           |        |
| Fourth                    | 8.9                                    | 54.1                                    | 39.1                                      | 4.2   | 32.1  | 3,011           |        |
| Highest                   | 22.4                                   | 91.2                                    | 52.9                                      | 15.4  | 5.4   | 3,367           |        |
| Total                     | 40                                     | 10.7                                    | 37.8                                      | 34.5  | 5.1   | 46.0            | 13,683 |

**Step 1:** Read the title and subtitle, highlighted in orange in the table above. They tell you the topic and the specific population group being described. In this case, the table is about women age 15-49 and their exposure to different types of media. All eligible female respondents age 15-49 were asked these questions.

**Step 2:** Scan the column headings—highlighted in green in Example 1. They describe how the information is categorized. In this table, the first three columns of data show different types of media that women access at least once a week. The fourth column shows women who access all three types of media, while the fifth column shows women who do not access any of the three types of media on a weekly basis. The last column lists the number of women age 15-49 interviewed in the survey.

**Step 3:** Scan the row headings—the first vertical column highlighted in blue in Example 1. These show the different ways the data are divided into categories based on population characteristics. In this case, the table presents women's exposure to media by age, urban-rural residence, province, level of education, and wealth quintile. Most of the tables in the ZDHS report will be divided into these same categories.

**Step 4:** Look at the row at the bottom of the table highlighted in red. These percentages represent the totals of all women age 15-49 and their weekly access to different types of media. In this case, 10.7%\* of women age 15-49 read a newspaper at least once a week, 37.8% watch television at least weekly, and 34.5% listen to the radio on a weekly basis.

**Step 5:** To find out what percentage of women with higher education listen to the radio on a weekly basis, draw two imaginary lines, as shown on the table. This shows that 59.1% of women age 15-49 with higher education listen to the radio at least once a week.

By looking at patterns by background characteristics, we can see how exposure to mass media varies across Zambia. Mass media are often used to communicate health messages. Knowing how mass media exposure varies among different groups can help programme planners and policymakers determine how to most effectively reach their target populations.

\*For the purpose of this document data are presented exactly as they appear in the table including decimal places. However, the text in the remainder of this report rounds data to the nearest whole percentage point.

**Practice:** Use the table in Example 1 to answer the following questions:

- What percentage of women in Zambia do not access any of the three media at least once a week?
- Which age group of women is most likely to watch television at least once a week?
- Compare women in urban areas to women in rural areas—which group is more likely to read a newspaper at least once a week?
- What are the lowest and highest percentages (range) of women who do not access any of the three media at least once a week by province?
- Is there a clear relationship in exposure to newspapers on a weekly basis by education level?
- Is there a clear relationship in exposure to television on a weekly basis by wealth quintile?

- f) Yes. Women's exposure to television on a weekly basis increases with household wealth, from 3.3% of women in the poorest households to 91.2% of women in the wealthiest households.
- e) Yes. Women's exposure to newspapers on a weekly basis increases as a woman's level of education increases; 0.3% of women with no education read the newspaper at least once a week, compared to 40.5% of women with higher education.
- d) Women with no exposure to media ranges from a low of 21.4% in Lusaka province to a high of 77.4% in North Western province.
- c) Women in urban areas: 14.8% of urban women read the newspaper at least once a week, compared to 7.1% of rural women.
- b) Women age 30-34: 43.2% of women in this age group watch television on a weekly basis.
- a) 46.0%

Answers:

## Example 2 – Prevalence and Treatment of Symptoms of ARI

### A Question Asked of a Subgroup of Survey Respondents

**Table 10.5 Prevalence and treatment of symptoms of ARI**

Among children under age 5, percentage who had symptoms of acute respiratory infection (ARI) in the 2 weeks preceding the survey, and among children with symptoms of ARI in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, according to background characteristics, Zambia DHS 2018

| Background characteristic      | Among children under age 5:                  |                    | Among children under age 5 with symptoms of ARI:                |   |                    |
|--------------------------------|--|--------------------|---|---|--------------------|
|                                | Percentage with symptoms of ARI <sup>1</sup> | Number of children | Percentage for whom advice or treatment was sought <sup>2</sup> | Percentage for whom treatment was sought same or next day | Number of children |
| <b>Age in months</b>           |  |                    |   |   |                    |
| <6                             | 1.1  | 1,036              | *   | *   | 11                 |
| 6-11                           | 2.3  | 924                | *   | *   | 21                 |
| 12-23                          | 2.8  | 1,891              | (78.4)  | (39.8)  | 52                 |
| 24-35                          | 2.0  | 1,862              | (83.0)  | (57.1)  | 38                 |
| 36-47                          | 1.3  | 1,866              | (74.9)  | (47.5)  | 23                 |
| 48-59                          | 0.9  | 1,782              | *   | *   | 15                 |
| <b>Sex</b>                     |  |                    |   |   |                    |
| Male                           | 1.6  | 4,666              | 81.1  | 38.8  | 75                 |
| Female                         | 1.8  | 4,695              | 71.6  | 41.8  | 86                 |
| <b>Mother's smoking status</b> |  |                    |   |   |                    |
| Smokes cigarettes/tobacco      | 9.1  | 70                 | *   | *   | 6                  |
| Does not smoke                 | 1.7  | 9,291              | 76.2  | 40.7  | 155                |
| <b>Cooking fuel</b>            |  |                    |   |   |                    |
| Electricity                    | 0.8  | 646                | *   | *   | 5                  |
| Solar power                    | (0.0)  | 26                 | *   | *   | 0                  |
| Kerosene                       | *  | 0                  | *   | *   | 0                  |
| Coal/lignite                   | *  | 2                  | *   | *   | 0                  |
| Charcoal                       | 1.2  | 3,516              | (91.4)  | (47.5)  | 43                 |
| Wood                           | 2.2  | 5,169              | 69.1  | 36.9  | 113                |
| Animal dung                    | *  | 0                  | *   | *   | 0                  |
| Other                          | *  | 1                  | *   | *   | 0                  |
| <b>Residence</b>               |  |                    |   |   |                    |
| Urban                          | 1.2  | 3,307              | (88.9)  | (53.7)  | 39                 |
| Rural                          | 2.0  | 6,054              | 71.9  | 36.1  | 122                |
| <b>Province</b>                |  |                    |   |   |                    |
| Central                        | 1.5  | 819                | *   | *   | 12                 |
| Copperbelt                     | 0.9  | 1,166              | *   | *   | 10                 |
| Eastern                        | 1.4  | 1,266              | *   | *   | 17                 |
| Luapula                        | 2.3  | 877                | *   | *   | 21                 |
| Lusaka                         | 0.3  | 1,446              | *   | *   | 5                  |
| Muchinga                       | 0.8  | 569                | *   | *   | 5                  |
| Northern                       | 3.8  | 846                | (56.9)  | (27.8)  | 32                 |
| North Western                  | 0.0  | 517                | *   | *   | 0                  |
| Southern                       | 3.2  | 1,242              | *   | *   | 39                 |
| Western                        | 3.3  | 613                | (84.2)  | (33.9)  | 20                 |
| <b>Mother's education</b>      |  |                    |   |   |                    |
| No education                   | 2.1  | 951                | *   | *   | 20                 |
| Primary                        | 1.6  | 4,763              | 64.4  | 26.5  | 78                 |
| Secondary                      | 1.8  | 3,276              | (87.7)  | (52.7)  | 59                 |
| Higher                         | 1.2  | 371                | *   | *   | 5                  |
| <b>Wealth quintile</b>         |  |                    |   |   |                    |
| Lowest                         | 2.4  | 2,343              | 69.4  | 35.5  | 57                 |
| Second                         | 1.9  | 2,079              | (79.7)  | (41.0)  | 40                 |
| Middle                         | 1.2  | 1,735              | (59.7)  | (28.9)  | 21                 |
| Fourth                         | 1.4  | 1,733              | *   | *   | 25                 |
| Highest                        | 1.2  | 1,469              | *   | *   | 18                 |
| Total                          | 3 1.7  | 9,361              | 76.0  | 40.4  | 161                |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.  
<sup>2</sup> Includes advice or treatment from the public and private health sectors, pharmacies, shops, markets, and itinerant drug seller. Excludes advice or treatment from a traditional practitioner.

**Step 1:** Read the title and subtitle. In this case, the table is about two separate groups of children: all children under age 5 (a) and children under age 5 with symptoms of acute respiratory infection (ARI) in the 2 weeks before the survey (b).

**Step 2:** Identify the two panels. First, identify the columns that refer to all children under age 5 (a), and then isolate the columns that refer only to children under age 5 with symptoms of ARI in the 2 weeks before the survey (b).

**Step 3:** Look at the first panel. What percentage of children under age 5 had symptoms of ARI in the 2 weeks before the survey? It's 1.7%. Now look at the second panel. How many children under age 5 are there who had symptoms of ARI in the 2 weeks before the survey? It's 161 children, or 1.7% of the 9,361 children under age 5 (with rounding). The second panel is a subset of the first panel.

**Step 4:** Only 1.7% of children under 5 had symptoms of ARI in the 2 weeks before the survey. Once these children are further divided into the background characteristic categories, there may be too few cases for the percentages to be reliable.

- Among children under age 5 with symptoms of ARI in the 2 weeks before the survey in urban areas, what percentage of children under age 5 had treatment or advice sought? It's 88.9%. This percentage is in parentheses because there are between 25 and 49 cases (unweighted) in this category. Readers should use this number with caution—it may not be reliable. (For more information on weighted and unweighted numbers, see Example 3.)
- Among children under age 5 with symptoms of ARI in the 2 weeks before the survey, what percentage of children in Central province had treatment or advice sought? There is no number in this cell—only an asterisk. This is because fewer than 25 children under age 5 who had recent symptoms of ARI in Central province had advice or treatment sought. Results for this group are not reported. The subgroup is too small, and therefore the data are not reliable.

**Note:** When parentheses or asterisks are used in a table, the explanation will be noted under the table. If there are no parentheses or asterisks in a table, you can proceed with confidence that enough cases were included in all categories that the data are reliable.

### Example 3 – Understanding Sampling Weights in ZDHS Tables

A sample is a group of people who have been selected for a survey. In the ZDHS, the sample is designed to represent the national population age 15-49. In addition to national data, most countries want to collect and report data on smaller geographical or administrative areas. However, doing so requires a large enough sample size in each area. For the 2018 ZDHS, the survey sample is representative at the national and provincial levels, and for urban and rural areas.

To generate statistics that are representative of the country as a whole and the 10 provinces, the number of women surveyed in each province should contribute to the size of the total (national) sample in proportion to size of the province. However, if some provinces have small populations, then a sample allocated in proportion to each province's population may not include sufficient women from each province for analysis. To solve this problem, provinces with small populations are oversampled. For example, let's say that you have enough money to interview 13,683 women and want to produce results that are representative of Zambia as a whole and its

provinces (as in modified Table 3.1). However, the total population of Zambia is not evenly distributed among the provinces: some provinces, such as Lusaka, are heavily populated while others, such as North Western, are not. Thus, North Western must be oversampled.

A sampling statistician determines how many women should be interviewed in each province in order to get reliable statistics. The **blue column (1)** in the table at the right shows the actual number of women interviewed in each province. Within the provinces, the number of women interviewed ranges from 1,081 in North Western to 1,775 in Lusaka. The number of interviews is sufficient to get reliable results in each province.

With this distribution of interviews, some provinces are overrepresented and some provinces are underrepresented. For example, the population in Lusaka is about 20% of the population in Zambia, while North Western's population contributes only 5% of the population in Zambia. But as the blue column shows, the number of women interviewed in Lusaka accounts for only about 13% of the total sample of women interviewed ( $1,775/13,683$ ) and the number of women interviewed in North Western accounts for 8% of women interviewed ( $1,081/13,683$ ). This unweighted distribution of women does not accurately represent the population.

In order to get statistics that are representative of Zambia, the distribution of the women in the sample needs to be weighted (or mathematically adjusted) such that it resembles the true distribution in the country. Women from a small province, like North Western, should only contribute a small amount to the national total. Women from a large province, like Lusaka, should contribute much more. Therefore, DHS statisticians mathematically calculate a “weight” that is used to adjust the number of women from each province so that each province's contribution to the total is proportional to the actual population of the province. The numbers in the **purple column (2)** represent the “weighted” values. The weighted values can be smaller or larger than the unweighted values at province level. The total national sample size of 13,683 women has not changed after weighting, but the distribution of the women in the provinces has been changed to represent their contribution to the total population size.

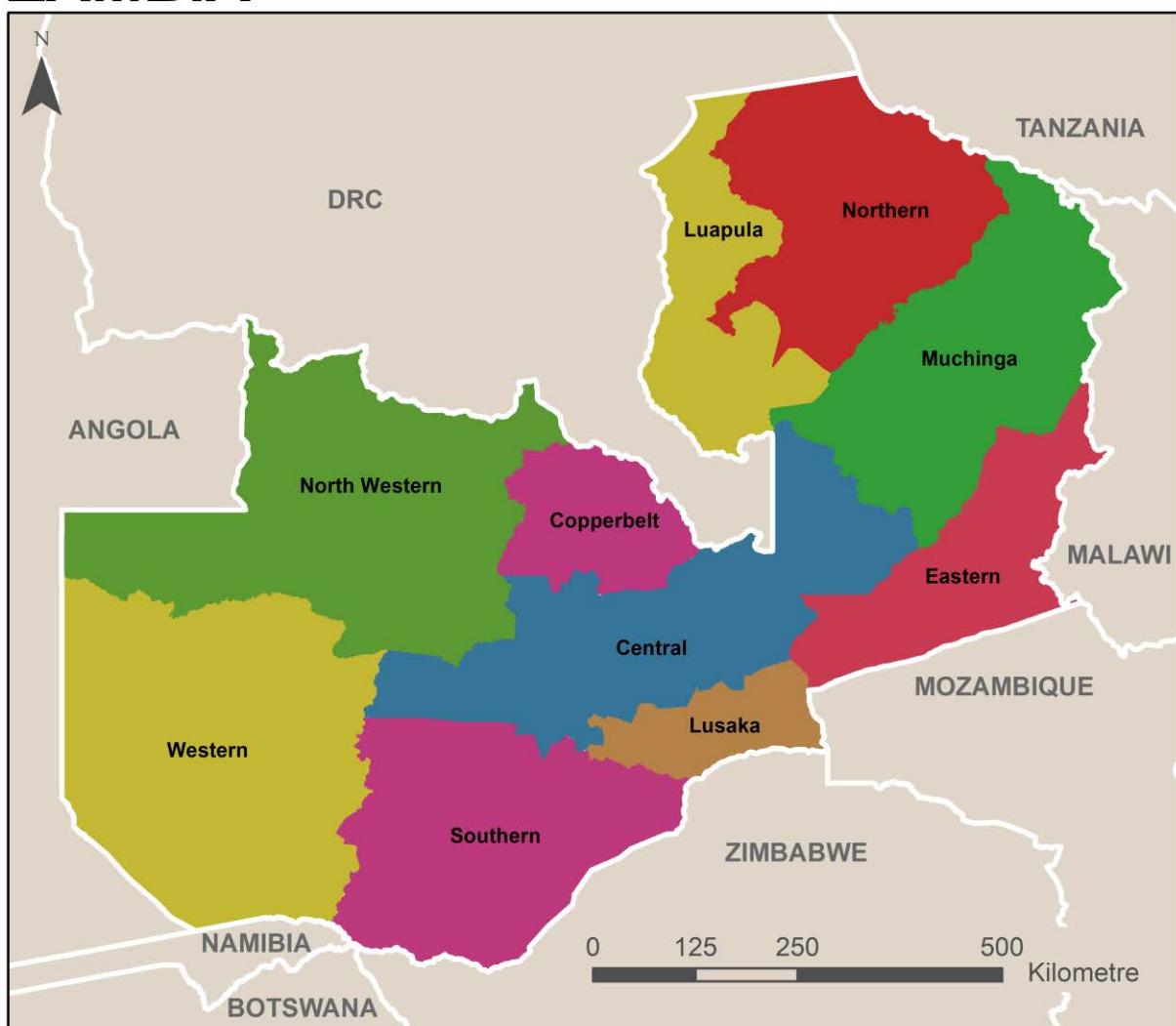
How do statisticians weight each category? They take into account the probability that a woman was selected in the sample. If you were to compare the **green column (3)** to the actual population distribution

| Table 3.1 Background characteristics of respondents |                  |                 |                   |
|---|------------------|-----------------|-------------------|
| Background characteristic                           | Women            |                 |                   |
|   | Weighted percent | Weighted number | Unweighted number |
| <b>Province</b>                                     |                  |                 |                   |
| Central   | 3                | 8.5             | 2                 |
| Copperbelt  |                  | 16.1            | 2,201             |
| Eastern   |                  | 11.7            | 1,605             |
| Luapula   |                  | 7.8             | 1,071             |
| Lusaka  | 20.0             | 2,733           | 1,775             |
| Muchinga  |                  | 5.5             | 754               |
| Northern  |                  | 7.7             | 1,054             |
| North Western                                       | 5.2              | 718             | 1,081             |
| Southern  |                  | 11.5            | 1,574             |
| Western   |                  | 5.9             | 808               |
| Total 15-49   | 100.0            | 13,683          | 13,683            |

of Zambia, you would see that women in each province are contributing to the total sample with the same weight that they contribute to the population of the country. The weighted number of women in the survey now accurately represents the proportion of women who live in Lusaka and the proportion of women who live in North Western.

With sampling and weighting, it is possible to interview enough women to provide reliable statistics at national and provincial levels. In general, only the weighted numbers are shown in each of the ZDHS tables, so don't be surprised if these numbers seem low: they may actually represent a larger number of women interviewed.

# ZAMBIA



# INTRODUCTION AND SURVEY METHODOLOGY

The 2018 Zambia Demographic and Health Survey (ZDHS) was implemented by the Zambia Statistics Agency (ZamStats) in collaboration with the Ministry of Health (MOH). Data collection took place from 18 July 2018 to 24 January 2019. ICF provided technical assistance through The DHS Program, which is funded by the United States Agency for International Development (USAID) and offers financial support and technical assistance for population and health surveys in countries worldwide. Other agencies and organisations that facilitated the successful implementation of the survey through technical or financial support were the Global Fund (GF), the Department for International Development (DFID) in Zambia, and the United Nations Population Fund (UNFPA).

## 1.1 SURVEY OBJECTIVES

The primary objective of the 2018 ZDHS was to provide up-to-date estimates of basic demographic and health indicators. Specifically, the ZDHS collected information on:

- Fertility levels and preferences; contraceptive use; maternal and child health; infant, child, and neonatal mortality levels; maternal mortality; and gender, nutrition, and awareness regarding HIV/AIDS and other health issues relevant to the achievement of the Sustainable Development Goals (SDGs)
- Ownership and use of mosquito nets as part of the national malaria eradication programmes
- Health-related matters such as breastfeeding, maternal and childcare (antenatal, delivery, and postnatal), children's immunisations, and childhood diseases
- Anaemia prevalence among women age 15-49 and children age 6-59 months
- Nutritional status of children under age 5 (via weight and height measurements)
- HIV prevalence among men age 15-59 and women age 15-49 and behavioural risk factors related to HIV
- Assessment of situation regarding violence against women

The information collected through the ZDHS is intended to assist policymakers and programme managers in evaluating and designing programmes and strategies for improving the health of the country's population.

## 1.2 SAMPLE DESIGN

The sampling frame used for the 2018 ZDHS is the Census of Population and Housing (CPH) of the Republic of Zambia, conducted in 2010 by ZamStats. Zambia is divided into 10 provinces. Each province is subdivided into districts, each district into constituencies, and each constituency into wards. In addition to these administrative units, during the 2010 CPH each ward was divided into convenient areas called census supervisory areas (CSAs), and in turn each CSA was divided into enumeration areas (EAs). An enumeration area is a geographical area assigned to an enumerator for the purpose of conducting a census count; according to the Zambian census frame, each EA consists of an average of 110 households.

The current version of the EA frame for the 2010 CPH was updated to accommodate some changes in districts and constituencies that occurred between 2010 and 2017. The list of EAs incorporates census

information on households and population counts. Each EA has a cartographic map delineating its boundaries, with identification information and a measure of size, which is the number of residential households enumerated in the 2010 CPH. This list of EAs was used as the sampling frame for the 2018 ZDHS.

The 2018 ZDHS followed a stratified two-stage sample design. The first stage involved selecting sample points (clusters) consisting of EAs. EAs were selected with a probability proportional to their size within each sampling stratum. A total of 545 clusters were selected.

The second stage involved systematic sampling of households. A household listing operation was undertaken in all of the selected clusters. During the listing, an average of 133 households were found in each cluster, from which a fixed number of 25 households were selected through an equal probability systematic selection process, to obtain a total sample size of 13,625 households. Results from this sample are representative at the national, urban and rural, and provincial levels.

All women age 15-49 and men age 15-59 who were either permanent residents of the selected households or visitors who stayed in the households the night before the survey were eligible to be interviewed.

### **1.3 QUESTIONNAIRES**

Four questionnaires were used in the 2018 ZDHS: the Household Questionnaire, the Woman’s Questionnaire, the Man’s Questionnaire, and the Biomarker Questionnaire. The questionnaires, based on The DHS Program’s Model Questionnaires, were adapted to reflect the population and health issues relevant to Zambia. Input on questionnaire content was solicited from various stakeholders representing government ministries and agencies, nongovernmental organisations, and international cooperating partners. After all questionnaires were finalised in English, they were translated into seven local languages: Bemba, Kaonde, Lozi, Lunda, Luvale, Nyanja, and Tonga. In addition, information about the fieldworkers for the survey was collected through a self-administered Fieldworker Questionnaire.

The Household Questionnaire listed all members of and visitors to selected households. Basic demographic information was collected on each person listed, including age, sex, marital status, education, and relationship to the head of the household. For children under age 18, parents’ survival status was determined. The data on age and sex of household members were used to identify women and men eligible for individual interviews. The Household Questionnaire also collected information on characteristics of the household, such as source of water; type of toilet facilities; materials used for flooring, external walls, and roofing; ownership of various household goods; and ownership and use of mosquito nets. In addition, all households were eligible to have their salt tested for the presence of iodine. However, due to an uneven distribution of the two types of salt test kits among the fieldworkers, the tests were not uniformly applied, thus compromising the reliability of the results. Accordingly, the results are not included in this report.

The Woman’s Questionnaire was used to collect information from all eligible women age 15-49. These women were asked questions on the following topics:

- Background characteristics (including age, education, and media exposure)
- Reproduction and child mortality
- Contraception
- Antenatal, delivery, and postnatal care
- Vaccinations and childhood illnesses
- Maternal and child health and nutrition
- Marriage and sexual activity
- Fertility preferences
- Women’s work and husbands’ background characteristics
- Knowledge, awareness, and behaviour regarding HIV/AIDS and other sexually transmitted infections (STIs)

- Knowledge, attitudes, and behaviour related to other health issues (e.g., injections, smoking, childhood illnesses, and pregnancy and childbirth)
- Fistula
- Adult and maternal mortality
- Domestic violence
- Women's empowerment

The Man's Questionnaire was used to collect information from all eligible men age 15-59. These men were asked questions on the following topics:

- Background characteristics
- Reproduction
- Contraception
- Marriage and sexual activity
- Fertility preferences
- Employment and gender roles
- HIV/AIDS
- Other health issues

The Biomarker Questionnaire was used to record the results of anthropometry measurements and haemoglobin and HIV testing. The signature of the fieldworker (biomarker technician) who conducted the testing was included on the questionnaire.

The Fieldworker Questionnaire collects data on the basic characteristics of fieldworkers and can serve as a tool in conducting analyses of data quality. Fieldworkers filled out a two-page self-administered questionnaire on their general background characteristics. ZamStats distributed and collected this questionnaire before the fieldworkers entered the field. No personal identifiers were attached to the ZDHS fieldworkers' data files.

The Household, Woman's, and Man's Questionnaires were programmed into tablet computers to facilitate computer-assisted personal interviewing (CAPI) for data collection purposes, with the capability to choose any of the eight specified languages for each questionnaire. The Biomarker Questionnaire was completed on paper during data collection and then entered into the CAPI system in the field before the data collection teams completed each cluster.

The protocols for survey methodology, biomarker measurements, and all instruments were approved by institutional review boards (IRBs) at ICF and the Tropical Diseases Research Centre (TDRC) in Zambia. Both IRBs approved the protocols before the commencement of data collection activities.

## **1.4 ANTHROPOMETRY, ANAEMIA TESTING, AND HIV TESTING**

The 2018 ZDHS incorporated three biomarkers: anthropometry, haemoglobin testing, and HIV testing. All data related to the coverage of the anthropometric measures and the results of the haemoglobin and HIV testing were recorded in the Biomarker Questionnaire. HIV testing was conducted via two methods: rapid diagnostic testing (RDT), which provided respondents with immediate feedback regarding their HIV status, and collection of dried blood spot (DBS) samples. After collection, the DBS samples were sent to a central laboratory for testing, where they were used to produce a national HIV prevalence estimate.

### **1.4.1 Anthropometry Measurements**

In all households, height and weight measurements were recorded for children age 0-59 months. Weight measurements were obtained using lightweight, electronic SECA 878 scales with a digital screen and the mother and child function. Height measurements were carried out with measuring boards made by Shorr

Productions. Children younger than age 24 months were measured while lying down (recumbent) on the board, while standing height was measured for children older than 24 months.

#### **1.4.2 Anaemia Testing**

Blood specimens were collected from all children age 6-59 months and women age 15-49 who consented to testing for anaemia. A consent statement was read to all eligible respondents. This statement explained the purpose of the test, informed them that the results would be made available as soon as the test was completed, and requested permission for the test to be carried out. For young women age 15-17 who had never been married, the consent of a parent or guardian was sought first, followed by their assent. For children age 6-59 months, consent was provided by a parent or guardian.

Blood samples were drawn from a finger prick (or a heel prick for young children with small fingers or children less than 12 months old) by pricking the finger or heel with a retractable, safety lancet and the third blood drop was collected in a microcuvette for haemoglobin measurement. Haemoglobin analysis was carried out on-site using a battery-operated portable HemoCue 201+ analyser, which produces a result in less than 1 minute. Results were given verbally and in writing to the child's parents/guardians. Parents of children with a haemoglobin level below 7 g/dl were given a referral form with the haemoglobin level indicated and advised to take the child to a health facility for follow-up care. Likewise, non-pregnant women and pregnant women were also given referral forms and referred for follow-up care at a health facility if their haemoglobin levels were below 7 g/dl and 9 g/dl, respectively. All households in which anthropometry measurements, anaemia testing, or both were conducted were given a brochure explaining the causes of and ways to prevent anaemia.

Lancets and other supplies and equipment used during sample collection (a HemoCue microcuvette, gloves, gauze, alcohol swab, bandage packaging, and waste collection bag) were disposed of safely, usually by taking the materials to a nearby health facility that uses proper protocols for the disposal of biohazardous waste.

#### **1.4.3 HIV Testing**

All women and men interviewed with the individual questionnaires were eligible for HIV testing. The survey featured a parallel system for HIV testing in which a rapid diagnostic testing algorithm was performed in the household for respondents who wished to be informed of their status, and DBS specimens were collected and transported to a central lab for anonymised testing. HIV prevalence for the survey was based on the laboratory test results.

The national RDT algorithm in Zambia at the time of the 2018 ZDHS implementation consisted of a screening test (Determine® HIV 1/2) followed by confirmation of reactive specimens with a second rapid test (Uni-gold HIV 1/2). To test respondents via RDT, a blood sample was collected directly from a finger prick using a sample collection device supplied with the RDT kit.

Dedicated nurse counsellors who provided pre- and post-test counselling conducted the HIV rapid testing. Pre-test counselling included explanations of HIV infection and transmission, the meaning of test results, risks associated with sexual behaviours, and how to prevent and treat HIV and other sexually transmitted infections. Post-test counselling messages were tailored to participants' HIV results and risk profiles.

Testing and delivery of results at home were done after creating conditions that would guarantee the confidentiality of respondents. All participants with HIV-seropositive or indeterminate results were referred to the nearest health facility for further care and treatment.

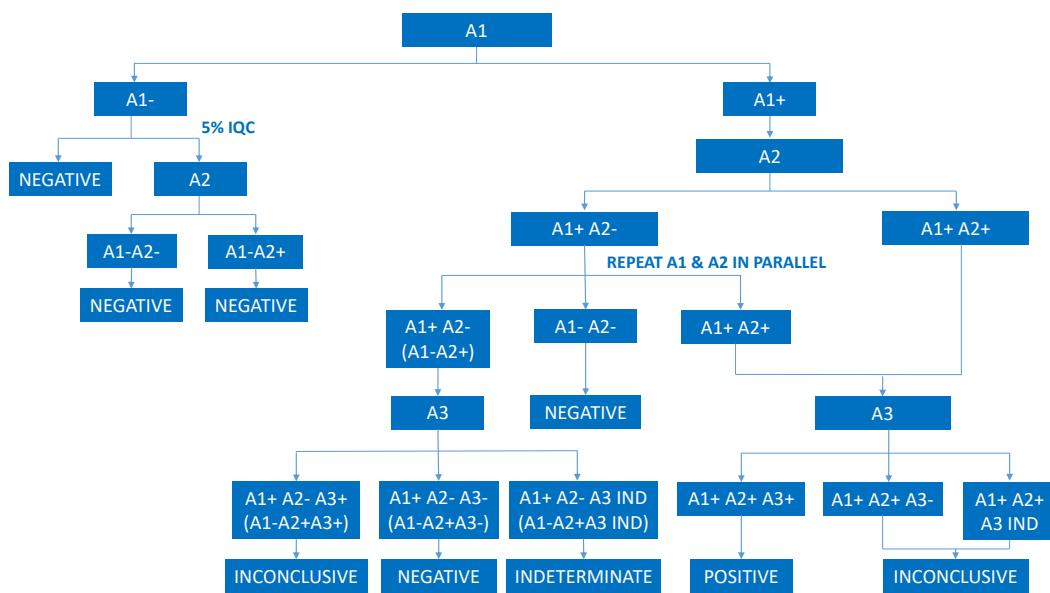
For the purposes of HIV testing in the central lab using DBS samples, at the time of collection of the blood sample, a unique and random barcoded identification number was assigned to each participant who consented to testing. Sheets of peel-off labels with the unique barcodes were pre-printed for use in the

field. Matching barcode labels were affixed to the Biomarker Questionnaire, a fresh filter paper card, and a blood sample transmittal sheet. Respondents were also asked whether they would consent to having the laboratory store their blood sample for future testing. If respondents did not consent to additional testing of their blood sample in the future, their refusal was recorded on the Biomarker Questionnaire and on the filter paper card.

Blood samples were dried overnight and packaged for storage the following morning. Approximately every 2 weeks, or more frequently, all DBS samples and transmittal sheets from the clusters were collected from teams in the field by fieldwork monitors or provincial coordinators and transported to the University Teaching Hospital Virology Laboratory (UTH-VL) for registration and processing. Each specimen was then assigned a unique serial laboratory number during the registration process at the laboratory before being stored in a freezer at a temperature of at least -20°C. Before samples were tested, all personal identifiers were removed from the data file.

Laboratory HIV testing of DBS samples was guided by the testing algorithm shown in **Figure 1.1**, which was agreed upon by ICF and the laboratory. Enzyme immunoassay (EIA) kits were obtained from different manufacturers and had different antigen preparations. The first testing assay was Bioelisa HIV-1+2 Ag/Ab (Biokit, Spain); the second was Genscreen ULTRA HIV Ag/Ab (Bio-Rad, France). The Geenius HIV 1/2 Supplemental Assay (Bio-Rad, France) was used to confirm the HIV status of all double-EIA positive samples. Five percent of the samples which tested negative on the first assay were retested as part of the internal quality control (IQC).

**Figure 1.1 2018 ZDHS HIV testing algorithm**



## 1.5 PRETEST

Thirty participants took part in a training session to pretest the ZDHS survey questionnaires both on paper and via CAPI over a 4-week period from 3-28 April 2018 outside of Lusaka District. An additional eight participants attended the biomarker training portion of the pretest, which ran from 16-28 April. The training utilised a variety of different learning tools such as formal lectures, informal discussions on various practice scenarios, videos, and hands-on demonstrations. In addition to the aforementioned training, the biomarker technicians participated in an anthropometry standardisation exercise and a health clinic visit.

From 25-27 April, interviewers and biomarker technicians conducted practice fieldwork to solidify skills learned during pretest training and to provide a simulated fieldwork experience to test survey materials.

The practice occurred in two EAs, one urban and one rural, that were both near the training venue. Each area had 26 selected households, but these were divided in half to create four practice clusters (one for each team) of 13 households. To complete the fieldwork, each interviewer had to complete at least one household interview per day. While the interviewers recorded responses on tablet computers using CAPI, the Biomarker Questionnaires were first filled out on paper and later entered into the CAPI system by the interviewers. At the end of each day, both during and after the pretest fieldwork, debriefing sessions were held and questionnaires were modified based on lessons drawn from the exercise.

## **1.6 TRAINING OF FIELD STAFF**

A training of trainers (TOT) to prepare the master trainers for the main training was conducted from 11-12 June 2018. Fifteen trainers were selected. The trainers, employed through the ZamStats and the MOH, later served as the team supervisors and provincial coordinators during the ZDHS data collection.

ZamStats recruited 123 people, including 24 supervisors and 99 interviewers, to attend the training on the questionnaire content. The training consisted of lectures, demonstrations, and practice interviews. Fifty-three biomarker technicians attended a parallel training course on conducting biomarker tests.

The main fieldwork training, conducted from 13 June to 9 July 2018, was led by the master trainers and backstopped by staff from The DHS Program. Sessions discussed concepts, procedures, and methodologies related to conducting the survey, and participants were guided through the questionnaires both on paper and in CAPI. The training included presentations, lectures, hands-on exercises, mock interviews, role-plays, group work, and quizzes. In addition, subject specialists from the MOH were invited to make short presentations on programmes in Zambia that provide services in the areas of family planning and reproductive health, HIV/AIDS and other STIs, childhood immunisation, child health and nutrition, and fistula.

The biomarker classroom portion of the training commenced on 18 June and continued through 9 July. This training was led by staff from The DHS Program with the assistance of staff members from ZamStats, MOH, TDRC, and UTH-VL. Biomarker training included classroom instruction that focused on anthropometry measurements, anaemia and HIV testing, appropriate procedures for obtaining informed consent, recording of information in the Biomarker Questionnaire, reporting test results back to respondents with referrals as needed, and pre- and post-test HIV counselling. The facilitators used learning tools similar to those used during the pretest, including an anthropometry standardisation exercise, a health clinic visit, and 3 days of field practice.

Throughout the training, each individual's performance was evaluated. Those determined to be capable of successfully conducting the tests were placed on teams as supervisors, interviewers, or biomarker technicians. The supervisors received additional training covering their roles and responsibilities, including how they should organise fieldwork, monitor interviews, and conduct quality control checks on both paper and CAPI questionnaires.

From 6-8 July, interviewers and biomarker technicians conducted practice fieldwork to solidify skills learned during the training and provide a simulated fieldwork experience to test the survey materials. The practice occurred in six EAs, three in the urban locality of Chawama and three in the rural locality of Shimabala. Each area contained 52 selected households, but areas were divided into four mini-clusters of 13 households (creating 24 mini-clusters).

To complete the practice fieldwork, each interviewer had to complete at least one household per day. All of the interviewers and supervisors had the opportunity to practice household and individual interviews, while the biomarker technicians practiced testing and measuring eligible household members.

## **1.7 FIELDWORK**

Data collection was carried out from 17 July 2018 to 24 January 2019 by 22 teams, with each team consisting of seven members typically featuring the following composition: one supervisor, three female interviewers, one male interviewer, and two biomarker technicians.

Fieldwork monitoring was an integral part of the ZDHS. Senior technical staff from ZamStats, the Department of Population Studies at the University of Zambia (UNZA), UTH-VL, and TDRC visited teams regularly to review their work and monitor data quality. ZamStats organised three groups of fieldwork monitors. The first group consisted of 10 provincial coordinators, each responsible for supervising the work of the teams in one province. They helped teams resolve any issues that arose in accessing clusters or while conducting their work, and they supported the technical work of the interviewers. The second group consisted of five biomarker monitors, each responsible for two provinces, who supervised the work of the biomarker technicians. The final supervisory group consisted of three information technology (IT) staff, who were deployed to teams on an as-needed basis to resolve CAPI-related issues. Three staff members from The DHS Program each independently visited teams to monitor data collection and biomarker collection. These visits occurred 17-21 July, 17 September-1 October, and 2-5 October 2018.

During field visits, monitors provided the teams they visited with critical feedback to improve their performance. All monitors used the ZDHS field-check tables, based on data from the completed clusters, to illustrate problems specific to each team visited.

## **1.8 DATA PROCESSING**

All electronic data files were transferred via a secure internet file streaming system to the ZamStats central office in Lusaka, where they were stored on a password-protected computer. The data processing operation included secondary editing, which required resolution of computer-identified inconsistencies and coding of open-ended questions. The data were processed by two IT specialists and one secondary editor who took part in the main fieldwork training; they were supervised remotely by staff from The DHS Program. Data editing was accomplished using CSPro software. During the fieldwork, field-check tables were generated to check various data quality parameters, and specific feedback was given to the teams to improve performance. Secondary editing and data processing were initiated in July 2018 and completed in March 2019.

## **1.9 RESPONSE RATES**

**Table 1.1** shows response rates for the 2018 ZDHS. Of the 13,595 households in the sample, 12,943 were occupied. Of these occupied households, 12,831 were successfully interviewed, yielding a response rate of 99%.

In the interviewed households, 14,189 women age 15-49 were identified as eligible for individual interviews; 13,683 women were interviewed, yielding a response rate of 96% (the same rate achieved in the 2013-14 survey). A total of 13,251 men were eligible for individual interviews; 12,132 of these men were interviewed, producing a response rate of 92% (a 1 percentage point increase from the previous survey).

Of the households successfully interviewed, 12,505 were interviewed in 2018 and 326 in 2019. As the large majority of households were interviewed in 2018 and the year for reference indicators is 2018, this report is considered the 2018 ZDHS.

**Table 1.1 Results of the household and individual interviews**

Number of households, number of interviews, and response rates, according to residence (unweighted), Zambia DHS 2018

| Result                                    | Residence |       |        |
|---|-----------|-------|--------|
|   | Urban     | Rural | Total  |
| <b>Household interviews</b>               |           |       |        |
| Households selected                       | 4,944     | 8,651 | 13,595 |
| Households occupied                       | 4,768     | 8,175 | 12,943 |
| Households interviewed                    | 4,714     | 8,117 | 12,831 |
| Household response rate <sup>1</sup>      | 98.9      | 99.3  | 99.1   |
| <b>Interviews with women age 15-49</b>    |           |       |        |
| Number of eligible women                  | 5,766     | 8,423 | 14,189 |
| Number of eligible women interviewed      | 5,513     | 8,170 | 13,683 |
| Eligible women response rate <sup>2</sup> | 95.6      | 97.0  | 96.4   |
| <b>Interviews with men age 15-59</b>      |           |       |        |
| Number of eligible men                    | 5,078     | 8,173 | 13,251 |
| Number of eligible men interviewed        | 4,498     | 7,634 | 12,132 |
| Eligible men response rate <sup>2</sup>   | 88.6      | 93.4  | 91.6   |

<sup>1</sup> Households interviewed/households occupied

<sup>2</sup> Respondents interviewed/eligible respondents

# HOUSING CHARACTERISTICS AND HOUSEHOLD POPULATION

# 2

## Key Findings

- **Drinking water:** In Zambia, 72% of households have access to an improved water source.
- **Sanitation:** Fifty-four percent of households have access to improved sanitation.
- **Electricity:** Thirty-four percent of households have electricity (69% in urban areas and 8% in rural areas).
- **Household population and composition:** The Zambian population is relatively young; almost half of the population (48%) is age 0-14, while only 3% is age 65 or older.

Information on the socioeconomic characteristics of the household population in the 2018 ZDHS provides a context to interpret demographic and health indicators and can furnish an approximate indication of the representativeness of the survey. In addition, this information sheds light on the living conditions of the population.

This chapter presents information on sources of drinking water, sanitation, exposure to smoke inside the home, wealth, handwashing, household population and composition, educational attainment, school attendance, birth registration, and family living arrangements.

## 2.1 HOUSING CHARACTERISTICS

### 2.1.1 Drinking Water Sources and Treatment

#### Improved sources of drinking water

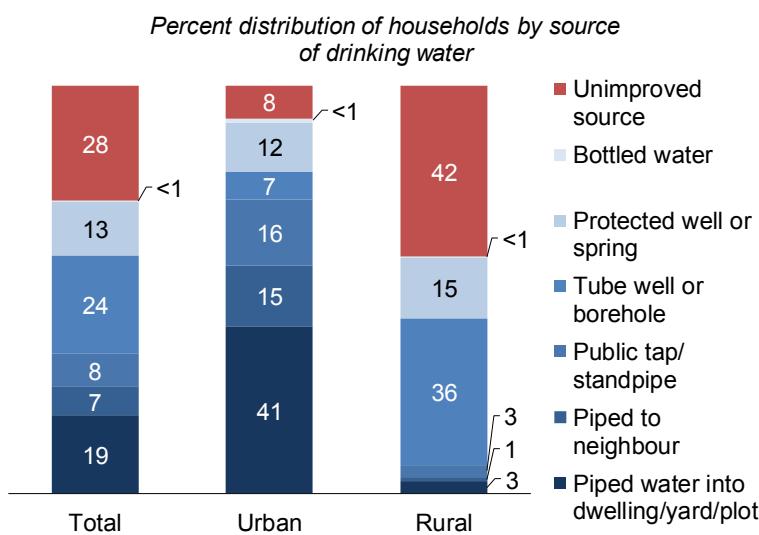
Include piped water, public taps, standpipes, tube wells, boreholes, protected dug wells and springs, rainwater, water delivered via a tanker truck or a cart with a small tank, and bottled water.

**Sample:** Households

In Zambia, 72% of households have access to an improved water source, although access is more predominant in urban (92%) than rural (58%) households (**Table 2.1.1**). The most common sources of drinking water in urban households are water piped into the household's dwelling, yard, or plot (41%); water from a public tap or standpipe (16%); and water piped to a neighbour (15%). Rural households obtain their drinking water mainly from tube wells or boreholes (36%), followed by protected dug wells (14%). **Figure 2.1** shows that 42% of rural households obtain their drinking water from an unimproved water source, as compared with 8% of urban households. The percentage of households with an unimproved source of drinking water decreases with increasing wealth (**Table 2.1.2**).

**Trends:** The percentage of households with an improved source of drinking water has increased over time, from 63% in 1992 to 72% in 2018.

**Figure 2.1 Household drinking water by residence**



#### **Basic drinking water service**

Is from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less.

**Sample:** De jure population

#### **Limited drinking water service**

Is from an improved source, provided round-trip collection time is more than 30 minutes.

**Sample:** De jure population

Sixty-four percent of Zambia's population has basic drinking water service, while 6% has limited drinking water service (**Table 2.1.2**). Access to basic drinking water service varies widely by province, from 36% in Northern to 91% in Lusaka. Access to basic drinking water service increases with rising wealth; however, there is no clear association between household wealth and limited drinking water service.

**Table 2.1.3** shows that 65% of de jure residents do not treat their drinking water (45% in urban areas and 78% in rural areas). Thirty-five percent of residents (54% in urban areas and 22% in rural areas) use an appropriate treatment method such as boiling, bleaching, filtering, and solar disinfecting.

## **2.1.2 Sanitation**

#### **Improved toilet facilities**

Is a flush/pour flush toilets that flushes the water and waste to a piped sewer system, septic tank, pit latrine, or an unknown destination; a ventilated improved pit (VIP) latrine; a pit latrine with a slab; or a composting toilet

**Sample:** Households

#### **Basic sanitation service**

Use of improved facilities that are not shared with other households.

**Sample:** De jure population

#### **Limited sanitation service**

Use of improved facilities shared by 2 or more households

**Sample:** De jure population

In Zambia, the Ministry of Water Development, Sanitation and Environmental Protection (MWDSEP) has embarked on the 2018-2021 strategy to improve access to water and sanitation services and improve good hygiene practices among all segments of the population. To that end, MWDSEP will strengthen the implementation of the National Urban and Rural Water Supply and Sanitation Programmes, which involves water supply and sanitation infrastructure development, water quality monitoring, and sanitation and hygiene promotion. The target of these efforts is to provide access to basic sanitation to 70% of the urban population and 55% of the rural population by December 2021 (MWDSEP 2018).

The 2018 ZDHS results showed that 33% of the population has basic sanitation service, 41% in urban areas and 28% in rural areas (**Table 2.3.1**). Fifty-four percent of households have access to an improved sanitation facility, with the most commonly used facility being a pit latrine with a slab (37%).

#### **Patterns by background characteristics**

- By province, the proportion of the population with improved sanitation facilities varies from a high of 80% in Lusaka to a low of 6% in Western. The proportion of the population engaging in open defecation is highest in Western (50%) and lowest in Copperbelt, Lusaka, and Northern (1% each) (**Table 2.3.2**).
- Eighteen percent of the population in the lowest wealth quintile has basic sanitation service, as compared with 65% of the population in the highest wealth quintile.

**Figure 2.2** compares the availability of sanitation facilities nationally and by residence. The figure shows that urban households are more likely than rural households to have either improved or shared toilet facilities, while rural households are more likely to have unimproved facilities or no facilities. Overall, 16% of rural households have no toilet facility, as compared with 1% of urban households.

**Trends:** The proportion of the population with access to improved sanitation increased from 27% in 2013-14 to 54% in 2018.

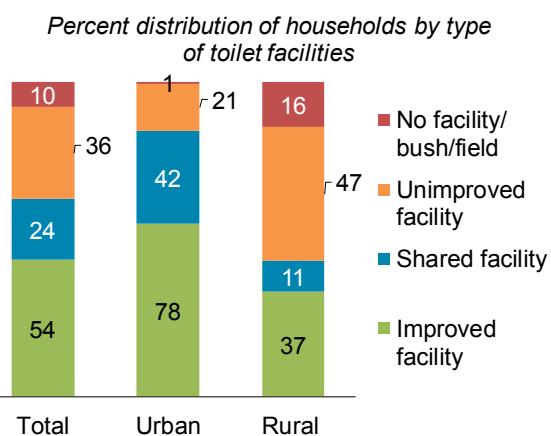
#### **2.1.3 Exposure to Smoke inside the Home**

Exposure to smoke inside the home, from either cooking with solid fuels or smoking tobacco, has potentially harmful health effects. In Zambia, 25% of households cook inside the home, and 91% use solid fuel for cooking; only 9% of households use clean fuel for cooking. Tobacco is smoked in the home daily in 12% of households (**Table 2.4**).

#### **2.1.4 Other Housing Characteristics**

The 2018 ZDHS also collected data on access to electricity, flooring materials, and the number of rooms used for sleeping. Only one in three (34%) households in Zambia have access to electricity (69% of urban households and 8% of rural households). The flooring materials most commonly used are earth or sand (45%) and cement (48%). Usage of these materials varies widely by residence, with 69% of rural households using earth or sand and 81% of urban households using cement (**Table 2.4**).

**Figure 2.2 Household toilet facilities by residence**



## 2.1.5 Household Wealth

### *Household Durable Goods*

Wealth can be measured by number of household durable consumer goods. **Table 2.5** shows information on various household effects, means of transportation, agricultural land, and livestock/farm animals. Urban households are generally more likely to own household effects; for example, 66% of urban households own television sets, as compared with 15% of rural households. However, rural households are more likely to own agricultural land (79%) and farm animals (63%) than urban households (16% and 13%, respectively).

### *Wealth Index*

#### **Wealth index**

Households are given scores based on the number and kinds of consumer goods they own, ranging from a television to a bicycle or car, and housing characteristics such as source of drinking water, toilet facilities, and flooring materials. These scores are derived using principal component analysis. National wealth quintiles are compiled by assigning the household score to each usual (de jure) household member, ranking each person in the household population by their score, and then dividing the distribution into five equal categories, each with 20% of the population.

**Sample:** Households

**Table 2.6** presents wealth quintiles according to urban-rural residence and province. The table also includes the Gini coefficient, a measure of disparity in wealth. The Gini coefficient ranges from 0-1, with 0 implying an equal distribution of wealth and 1 implying a totally unequal distribution.

Forty-six percent of the population in urban areas are in the highest wealth quintile, as compared with 3% of the population in rural areas. Nearly two-thirds of the rural population is in either the lowest (33%) or the second lowest (31%) wealth quintile.

By province, Western has the highest percentage of the population in the lowest wealth quintile (47%). Conversely, Lusaka (51%) and Copperbelt (39%) have the highest percentages of the population in the highest wealth quintile (**Table 2.6**).

## 2.1.6 Handwashing

The interviewers observed the places most often used for handwashing. Twenty-five percent of the de jure population have a fixed place for handwashing, although this is more common among urban (33%) than rural (19%) populations. Among the observed places of handwashing, 66% of the de jure population had water, 42% had soap, and 4% had cleansing agents other than soap (**Table 2.7**).

## 2.2 HOUSEHOLD POPULATION AND COMPOSITION

#### **Household**

A person or group of related or unrelated persons who live together in the same dwelling unit(s), who acknowledge one adult male or female as the head of the household, who share the same housekeeping arrangements, and who are considered a single unit.

**De facto population**

All persons who stayed in the selected households the night before the interview (whether usual residents or visitors).

**De jure population**

All persons who are usual residents of the selected households, whether or not they stayed in the household the night before the interview.

**How data are calculated**

All tables are based on the de facto population, unless specified otherwise.

The 2018 ZDHS included a total of 62,191 de facto household members, among whom 29,673 were male and 32,517 were female.<sup>1</sup> Forty-eight percent of household members are age 0-14 and 49% are age 15-64; only 3% of household members are age 65 and above (**Table 2.8**).

**Table 2.9** shows that women head 27% of households in Zambia. The table also shows that urban households are slightly smaller (4.7 persons) than rural households (5.2 persons). Overall, 32% of households in Zambia are caring for foster and/or orphaned children.

**Figure 2.3** shows the de facto household population by 5-year age groups according to sex. The broad base of the pyramid indicates that Zambia's population is largely young. Almost half (48%) of the population is under age 15. This kind of distribution is characteristic of developing countries with high fertility and low life expectancy.

**Trends:** Overall, the age composition of the de facto population has remained relatively constant since 1992.

## 2.3 CHILDREN'S LIVING ARRANGEMENTS AND PARENTAL SURVIVAL

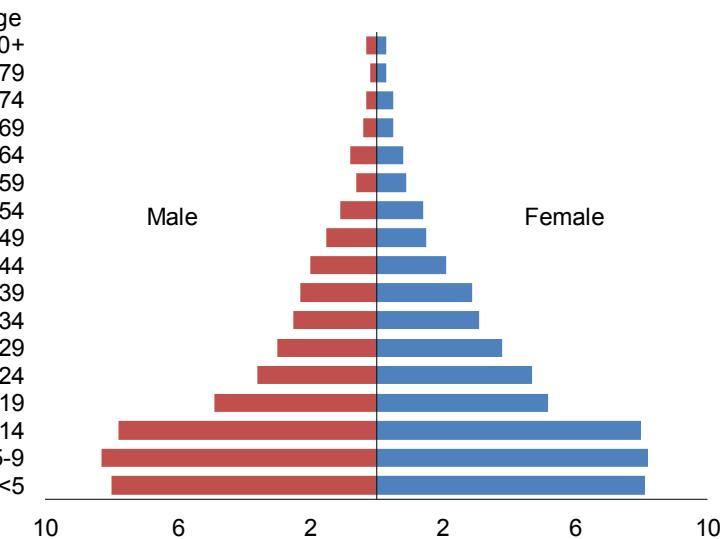
**Orphan**

A child with one or both parents who are dead.

**Sample:** Children under age 18

**Figure 2.3 Population pyramid**

*Percent distribution of the household population*



<sup>1</sup> The sex-specific numbers do not sum to the total due to rounding in the number of weighted cases.

Sixteen percent of children under age 18 are not living with a biological parent, and 10% of these children are orphans (i.e., one or both parents are dead). By province, the percentage of children with one or both parents dead is lowest in Eastern, North Western, and Southern (8% each) and highest in Copperbelt (13%). Twenty-one percent of children not living with a biological parent are from households in the highest wealth quintile (**Table 2.10**).

**Figure 2.4** shows that there is little variation in the percentages of children with one or both parents dead according to wealth. Ten percent of children from households in the lowest wealth quintile and 11% from households in the highest quintile are orphans.

**Trends:** The percentage of children under age 18 who do not live with a biological parent has declined only slightly since 2007, from 19% to 16%.

## 2.4 BIRTH REGISTRATION

### Registered birth

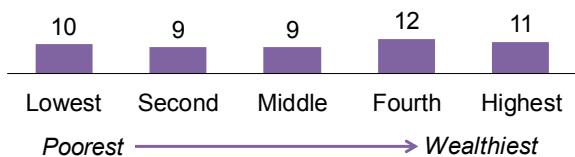
Child has a birth certificate or child does not have a birth certificate, but his/her birth is registered with the civil authorities.

**Sample:** De jure children under age 5

The global concern regarding the need to have all births registered by 2030 is evident in targets 16.9 and 17.19 of the SDGs. This is important given the need to protect all children because a child who is not registered is in danger of being shut out of society—denied the right to an official identity, a recognised name, and a nationality. In this regard the Zambian government, under the Department of National Registration, Passport and Citizenship, has drawn a roadmap to scale up birth registration in the country (MHA, 2017).

**Figure 2.4 Orphanhood by household wealth**

*Percentage of children under age 18 with one or both parents dead*



**Table 2.11** presents information on birth registration of children under age 5. Fourteen percent of children's births are registered with the civil authorities. There is no variation by age or sex in the percentage of births registered. However, 25% of urban children are registered, as compared with only 8% of rural children. Furthermore, the percentage of registered births rises with increasing wealth, from 4% in the lowest quintile to 32% in the highest quintile.

**Figure 2.5** shows large variations by province in the percentage of children whose births are registered with the civil authorities. Copperbelt (29%) has the highest percentage of registered births, while Northern (3%) has the lowest.

**Trends:** The percentage of children under age 5 whose births are registered with the civil authorities increased from 11% in 2013-14 to 14% in 2018.

## 2.5 EDUCATION

### 2.5.1 Educational Attainment

#### Median educational attainment

Half of the population has completed less than the median number of years of schooling, and half of the population has completed more than the median number of years of schooling.

**Sample:** De facto household population age 6 and older

The majority of Zambians have either no formal education or only some primary education. Specifically, 60% of females and 54% of males age 6 and over have no education or only some primary education (**Tables 2.12.1** and **2.12.2**). Women have completed a median of 4.6 years of schooling, while men have completed a median of 5.3 years.

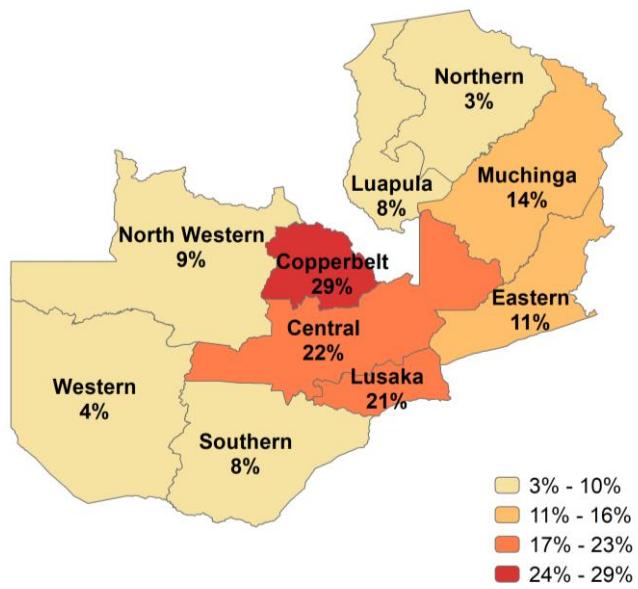
**Trends:** The percentage of females age 6 or above with no education declined from 24% in 1992 to 16% in 2013-14 and remained at 16% in 2018.

#### Patterns by background characteristics

- Urban residents are better educated than rural residents. Only 9% of females age 6 and older in urban areas have no education, as compared with 21% in rural areas. The corresponding percentages among males are 8% and 18% (**Tables 2.12.1** and **2.12.2**).
- Among both women and men, median number of years of education increases with increasing wealth.
- Men and women in the highest wealth quintile (18% and 14%, respectively) are more likely than their counterparts to attain a higher education.

**Figure 2.5 Birth registration by province**

*Percentage of de jure children under age 5 whose births are registered with the civil authorities*



## 2.5.2 School Attendance and Orphanhood

### School Attendance Ratios

#### Net attendance ratios (NAR)

Percentage of the school-age population that attends primary or secondary school.

**Sample:** Children age 7-13 for primary school NAR and children age 14-18 for secondary school NAR

#### Gross attendance ratios (GAR)

The total number of children attending primary school divided by the official primary school-age population and the total number of children attending secondary school divided by the official secondary school-age population.

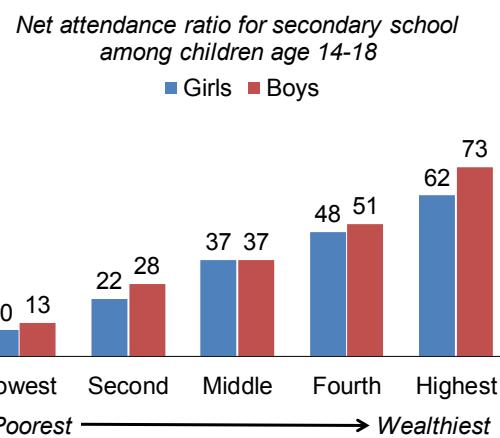
**Sample:** Children age 7-13 for primary school GAR and children age 14-18 for secondary school GAR

In Zambia, the primary school net attendance ratio (NAR) for the population age 7-13 is 79% (81% for girls and 77% for boys). The secondary school NAR drops drastically to 40% (38% for girls and 42% for boys). The variation in secondary school NARs by residence is large, with a difference of 27 percentage points between urban (56%) and rural (29%) areas ([Table 2.13](#)).

**Figure 2.6** shows the secondary school NAR among children age 14-18 by wealth quintile. Sixty-two percent of girls in the highest wealth quintile attend secondary school, as compared with 10% of those in the lowest wealth quintile. Boys follow a similar trajectory (73% in the highest quintile and 13% in the lowest). Across nearly all wealth quintiles, the secondary school NAR is higher among boys.

The gross attendance ratio (GAR) is similar for boys and girls at both the primary level (97% and 98%, respectively) and the secondary level (60% and 55%, respectively).

**Figure 2.6 Secondary school attendance by household wealth**



#### Gender Parity Indices (GPI)

The ratio of female to male students attending primary school and the ratio of female to male students attending secondary school. The index reflects the magnitude of the gender gap.

**Sample:** Primary school students and secondary school students

### Patterns by background characteristics

- The disparity in attendance between females and males at the primary level is minimal in all provinces other than Eastern (1.27), Central (1.07), and Luapula (1.07).

### Orphanhood

Orphaned children may be at greater risk of dropping out of school than children with biological parents. This can occur for various reasons, such as the inability to pay school fees, the need to help with household chores, and the need to care for sick parents or younger siblings. [Table 2.15](#) presents data on school attendance rates among children age 10-14 by survivorship of parents. Double orphans (i.e., children

whose father and mother are dead) are less likely to currently be in school than children whose parents are both alive and who are living with at least one parent (79% and 88%, respectively).

## LIST OF TABLES

For more information on household population and housing characteristics, see the following tables:

- **Table 2.1.1 Household drinking water**
- **Table 2.1.2 Drinking water according to province and wealth**
- **Table 2.1.3 Treatment of household drinking water**
- **Table 2.2 Availability of water**
- **Table 2.3.1 Household sanitation facilities**
- **Table 2.3.2 Sanitation facility type according to province and wealth**
- **Table 2.4 Household characteristics**
- **Table 2.5 Household possessions**
- **Table 2.6 Wealth quintiles**
- **Table 2.7 Handwashing**
- **Table 2.8 Household population by age, sex, and residence**
- **Table 2.9 Household composition**
- **Table 2.10 Children's living arrangements and orphanhood**
- **Table 2.11 Birth registration of children under age 5**
- **Table 2.12.1 Educational attainment of the female household population**
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- **Table 2.13 School attendance ratios**
- **Table 2.14 Children under age 5 by highest level of education**
- **Table 2.15 School attendance by survivorship of parents**

**Table 2.1.1 Household drinking water**

Percent distribution of households and de jure population by source of drinking water and by time to obtain drinking water, percentage of households and de jure population with basic drinking water service, and percentage with limited drinking water service, according to residence, Zambia DHS 2018

| Characteristic  | Households  |             |             | Population  |             |             |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
|   | Urban       | Rural       | Total       | Urban       | Rural       | Total       |
| <b>Source of drinking water</b>                             |             |             |             |             |             |             |
| <b>Improved source</b>                                      | <b>91.8</b> | <b>58.0</b> | <b>72.3</b> | <b>91.1</b> | <b>57.4</b> | <b>70.7</b> |
| Piped into dwelling/yard/plot                               | 41.1        | 2.9         | 19.1        | 41.3        | 2.3         | 17.7        |
| Piped to neighbour  | 15.4        | 1.1         | 7.2         | 14.3        | 1.0         | 6.3         |
| Public tap/standpipe  | 16.2        | 2.5         | 8.3         | 15.6        | 2.4         | 7.6         |
| Tube well or borehole                                       | 6.9         | 36.4        | 23.9        | 7.1         | 36.1        | 24.7        |
| Protected dug well  | 11.4        | 14.0        | 12.9        | 11.8        | 14.6        | 13.5        |
| Protected spring  | 0.2         | 0.7         | 0.5         | 0.2         | 0.7         | 0.5         |
| Rainwater   | 0.0         | 0.3         | 0.2         | 0.0         | 0.2         | 0.1         |
| Tanker truck/cart with small tank                           | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Bottled water   | 0.7         | 0.1         | 0.3         | 0.7         | 0.0         | 0.3         |
| <b>Unimproved source</b>                                    | <b>8.2</b>  | <b>42.0</b> | <b>27.7</b> | <b>8.9</b>  | <b>42.6</b> | <b>29.3</b> |
| Unprotected dug well  | 6.6         | 25.1        | 17.2        | 7.2         | 25.8        | 18.4        |
| Unprotected spring  | 0.8         | 4.2         | 2.8         | 0.9         | 4.1         | 2.9         |
| Surface water   | 0.5         | 12.7        | 7.6         | 0.6         | 12.6        | 7.9         |
| Other   | 0.2         | 0.0         | 0.1         | 0.2         | 0.0         | 0.1         |
| Total   | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| <b>Time to obtain drinking water (round trip)</b>           |             |             |             |             |             |             |
| Water on premises <sup>1</sup>                              | 66.2        | 14.6        | 36.5        | 65.8        | 14.5        | 34.8        |
| 30 minutes or less  | 29.5        | 69.6        | 52.6        | 29.6        | 68.9        | 53.4        |
| More than 30 minutes  | 3.8         | 14.8        | 10.1        | 4.2         | 15.6        | 11.1        |
| Don't know/missing  | 0.4         | 1.1         | 0.8         | 0.4         | 1.0         | 0.7         |
| Total   | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| <b>Method for storing water</b>                             |             |             |             |             |             |             |
| Closed container/jerry can                                  | 93.5        | 90.0        | 91.5        | 93.1        | 90.3        | 91.4        |
| Open container/bucket                                       | 6.1         | 9.8         | 8.2         | 6.5         | 9.6         | 8.4         |
| Does not store water  | 0.4         | 0.2         | 0.3         | 0.4         | 0.2         | 0.2         |
| Other   | 0.1         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Total   | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| Percentage with basic drinking water service <sup>2</sup>   | 88.2        | 49.6        | 66.0        | 87.2        | 48.5        | 63.8        |
| Percentage with limited drinking water service <sup>3</sup> | 3.2         | 7.6         | 5.7         | 3.5         | 8.2         | 6.4         |
| Number of households/population                             | 5,441       | 7,390       | 12,831      | 25,346      | 38,746      | 64,092      |

<sup>1</sup> Includes water piped to a neighbour and those reporting a roundtrip collection time of zero minutes

<sup>2</sup> Defined as drinking water from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less. Includes safely managed drinking water, which is not shown separately.

<sup>3</sup> Drinking water from an improved source, provided round-trip collection time is more than 30 minutes

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**Table 2.1.2 Drinking water according to province and wealth**

Percent distribution of de jure population by drinking water source, percentage of de jure population with basic drinking water service, and percentage with limited drinking water service, according to province and wealth quintile, Zambia DHS 2018

| Background characteristic | Improved source of drinking water <sup>1</sup> | Unimproved source of drinking water <sup>2</sup> | Total | Percentage with basic drinking water service <sup>2</sup> | Percentage with limited drinking water service <sup>3</sup> | Number of persons |
|---------------------------|--|--|-------|---|---|-------------------|
| <b>Province</b>           |  |  |       |   |   |                   |
| Central                   | 73.7   | 26.3   | 100.0 | 65.9  | 7.8   | 5,730             |
| Copperbelt                | 80.8   | 19.2   | 100.0 | 78.0  | 2.7   | 9,074             |
| Eastern                   | 79.2   | 20.8   | 100.0 | 68.4  | 8.3   | 8,357             |
| Luapula                   | 58.1   | 41.9   | 100.0 | 49.8  | 7.6   | 5,526             |
| Lusaka                    | 98.0   | 2.0  | 100.0 | 91.2  | 6.5   | 10,700            |
| Muchinga                  | 52.3   | 47.7   | 100.0 | 46.3  | 6.1   | 3,676             |
| Northern                  | 39.9   | 60.1   | 100.0 | 36.2  | 3.5   | 5,502             |
| North Western             | 65.5   | 34.5   | 100.0 | 60.4  | 4.2   | 3,477             |
| Southern                  | 66.2   | 33.8   | 100.0 | 56.4  | 9.8   | 7,811             |
| Western                   | 44.5   | 55.5   | 100.0 | 38.2  | 5.9   | 4,237             |
| <b>Wealth quintile</b>    |  |  |       |   |   |                   |
| Lowest                    | 42.6   | 57.4   | 100.0 | 36.1  | 5.5   | 12,813            |
| Second                    | 58.3   | 41.7   | 100.0 | 48.9  | 8.5   | 12,820            |
| Middle                    | 67.8   | 32.2   | 100.0 | 56.6  | 10.6  | 12,822            |
| Fourth                    | 87.5   | 12.5   | 100.0 | 82.2  | 4.9   | 12,819            |
| Highest                   | 97.4   | 2.6  | 100.0 | 95.2  | 2.3   | 12,818            |
| Total                     | 70.7   | 29.3   | 100.0 | 63.8  | 6.4   | 64,092            |

<sup>1</sup> See Table 2.1.1 for definition of an improved source.

<sup>2</sup> See Table 2.1.1 for definition of an unimproved source.

<sup>3</sup> Defined as drinking water from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less. Includes safely managed drinking water, which is not shown separately.

<sup>4</sup> Drinking water from an improved source, provided round-trip collection time is more than 30 minutes

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**Table 2.1.3 Treatment of household drinking water**

Percentage of households and de jure population using various methods to treat drinking water, and percentage using an appropriate treatment method, according to residence, Zambia DHS 2018

| Water treatment method  | Households |       |        | Population |        |        |
|---|------------|-------|--------|------------|--------|--------|
|   | Urban      | Rural | Total  | Urban      | Rural  | Total  |
| Boil  | 24.0       | 8.7   | 15.2   | 24.2       | 8.0    | 14.4   |
| Bleach/chlorine added   | 35.2       | 15.2  | 23.7   | 37.7       | 15.4   | 24.2   |
| Strain through cloth  | 0.0        | 0.1   | 0.1    | 0.0        | 0.1    | 0.1    |
| Ceramic, sand, or other filter                                | 0.1        | 0.1   | 0.1    | 0.0        | 0.1    | 0.1    |
| Solar disinfection  | 0.1        | 0.1   | 0.1    | 0.1        | 0.1    | 0.1    |
| Let stand and settle  | 0.2        | 0.2   | 0.2    | 0.2        | 0.3    | 0.3    |
| Other   | 0.3        | 0.0   | 0.2    | 0.3        | 0.0    | 0.2    |
| No treatment  | 47.1       | 77.5  | 64.6   | 45.1       | 78.0   | 65.0   |
| Percentage using an appropriate treatment method <sup>1</sup> | 52.4       | 22.1  | 35.0   | 54.4       | 21.6   | 34.5   |
| Number of households/population                               | 5,441      | 7,390 | 12,831 | 25,346     | 38,746 | 64,092 |

Note: Respondents may report multiple treatment methods, so the sum of treatment may exceed 100%.

<sup>1</sup> Appropriate water treatment methods include boiling, bleaching, filtering, and solar disinfecting.

**Table 2.2 Availability of water**

Percent distribution of households and de jure population using piped water or water from a tube well or borehole, by availability of water in the last 2 weeks, according to residence, Zambia DHS 2018

| Availability of water in last 2 weeks  | Households |       |       | Population |        |        |
|--|------------|-------|-------|------------|--------|--------|
|  | Urban      | Rural | Total | Urban      | Rural  | Total  |
| Not available for at least 1 day   | 43.1       | 9.2   | 28.8  | 43.1       | 9.1    | 27.9   |
| Available with no interruption of at least 1 day   | 55.3       | 90.7  | 70.2  | 56.0       | 90.7   | 71.5   |
| Don't know/missing   | 1.6        | 0.1   | 1.0   | 0.9        | 0.3    | 0.6    |
| Total  | 100.0      | 100.0 | 100.0 | 100.0      | 100.0  | 100.0  |
| Number of households/population using piped water or water from a tube well <sup>1</sup> | 4,364      | 3,173 | 7,537 | 20,023     | 16,197 | 36,219 |

<sup>1</sup> Includes households/population reporting piped water or water from a tube well or borehole as their main source of drinking water and households/population reporting bottled water as their main source of drinking water if their main source of water for cooking and handwashing is piped water or water from a tube well or borehole

**Table 2.3.1 Household sanitation facilities**

Percent distribution of households and de jure population by type of toilet/latrine facilities, percent distribution of households and de jure population with a toilet/latrine facility by location of the facility, percentage of households and de jure population with basic sanitation services, and percentage with limited sanitation services, according to residence, Zambia DHS 2018

| Type and location of toilet/latrine facility                   | Households  |             |             | Population  |             |             |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
|  | Urban       | Rural       | Total       | Urban       | Rural       | Total       |
| <b>Improved sanitation facility</b>                            | <b>77.7</b> | <b>37.2</b> | <b>54.4</b> | <b>79.0</b> | <b>37.7</b> | <b>54.0</b> |
| Flush/pour flush to piped sewer system                         | 17.2        | 0.6         | 7.6         | 17.2        | 0.5         | 7.1         |
| Flush/pour flush to septic tank                                | 13.6        | 1.8         | 6.8         | 14.4        | 1.4         | 6.6         |
| Flush/pour flush to pit latrine                                | 3.9         | 0.2         | 1.8         | 3.9         | 0.1         | 1.6         |
| Flush/pour flush, don't know where                             | 0.4         | 0.1         | 0.2         | 0.5         | 0.1         | 0.2         |
| Ventilated improved pit (VIP) latrine                          | 0.8         | 0.7         | 0.8         | 0.8         | 0.8         | 0.8         |
| Pit latrine with slab  | 41.8        | 33.9        | 37.2        | 42.2        | 34.8        | 37.7        |
| Composting toilet  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| <b>Unimproved facility</b>                                     | <b>20.8</b> | <b>46.5</b> | <b>35.6</b> | <b>20.0</b> | <b>46.8</b> | <b>36.2</b> |
| <b>Unimproved sanitation facility</b>                          | <b>20.8</b> | <b>46.5</b> | <b>35.6</b> | <b>20.0</b> | <b>46.8</b> | <b>36.2</b> |
| Flush/pour flush not to sewer/septic tank/pit latrine          | 0.7         | 0.0         | 0.3         | 0.7         | 0.0         | 0.3         |
| Pit latrine without slab/open pit                              | 20.0        | 46.4        | 35.2        | 19.2        | 46.7        | 35.8        |
| Hanging toilet/hanging latrine                                 | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Other  | 0.1         | 0.1         | 0.1         | 0.1         | 0.0         | 0.1         |
| <b>Open defecation (no facility/bush/field)</b>                | <b>1.4</b>  | <b>16.2</b> | <b>10.0</b> | <b>1.0</b>  | <b>15.5</b> | <b>9.8</b>  |
| Total  | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| Number of households/population                                | 5,441       | 7,390       | 12,831      | 25,346      | 38,746      | 64,092      |
| <b>Location of toilet facility</b>                             |             |             |             |             |             |             |
| In own dwelling  | 20.3        | 4.4         | 11.8        | 21.6        | 4.0         | 11.6        |
| In own yard/plot   | 73.4        | 81.3        | 77.7        | 72.7        | 83.4        | 78.8        |
| Elsewhere  | 6.3         | 14.3        | 10.6        | 5.7         | 12.6        | 9.6         |
| Total  | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| Number of households/population with a toilet/latrine facility | 5,363       | 6,191       | 11,554      | 25,090      | 32,729      | 57,819      |
| Percentage with basic sanitation service <sup>1</sup>          | 35.4        | 26.4        | 30.2        | 40.6        | 27.8        | 32.9        |
| Percentage with limited sanitation service <sup>2</sup>        | 42.2        | 10.9        | 24.2        | 38.3        | 9.8         | 21.1        |
| Number of households/population                                | 5,441       | 7,390       | 12,831      | 25,346      | 38,746      | 64,092      |

<sup>1</sup> Defined as use of improved facilities that are not shared with other households. Includes safely managed sanitation service, which is not shown separately.

<sup>2</sup> Defined as use of improved facilities shared by 2 or more households

**Table 2.3.2 Sanitation facility type according to province and wealth**

Percent distribution of de jure population by type of sanitation, percentage of de jure population with basic sanitation service, and percentage with limited sanitation service, according to province and wealth quintile, Zambia DHS 2018

| Background characteristic | Type of sanitation                        |   |                 | Total | Percentage with basic sanitation service <sup>3</sup> | Percentage with limited sanitation service <sup>4</sup> | Number of persons |
|---------------------------|---|---|-----------------|-------|---|---|-------------------|
|                           | Improved sanitation facility <sup>1</sup> | Unimproved sanitation facility <sup>2</sup> | Open defecation |       |   |   |                   |
| <b>Province</b>           |   |   |                 |       |   |   |                   |
| Central                   | 38.9                                      | 54.4  | 6.8             | 100.0 | 26.6  | 12.3  | 5,730             |
| Copperbelt                | 76.7                                      | 22.3  | 1.0             | 100.0 | 46.2  | 30.5  | 9,074             |
| Eastern                   | 39.2                                      | 44.5  | 16.3            | 100.0 | 25.3  | 13.9  | 8,357             |
| Luapula                   | 48.8                                      | 46.8  | 4.4             | 100.0 | 39.4  | 9.3   | 5,526             |
| Lusaka                    | 80.0                                      | 18.8  | 1.2             | 100.0 | 34.3  | 45.5  | 10,700            |
| Muchinga                  | 52.0                                      | 42.6  | 5.4             | 100.0 | 40.5  | 11.4  | 3,676             |
| Northern                  | 55.8                                      | 43.4  | 0.9             | 100.0 | 45.5  | 10.3  | 5,502             |
| North Western             | 47.7                                      | 49.2  | 3.1             | 100.0 | 30.1  | 17.6  | 3,477             |
| Southern                  | 51.4                                      | 28.2  | 20.4            | 100.0 | 27.5  | 23.9  | 7,811             |
| Western                   | 6.2                                       | 43.8  | 50.0            | 100.0 | 4.9   | 1.3   | 4,237             |
| <b>Wealth quintile</b>    |   |   |                 |       |   |   |                   |
| Lowest                    | 25.8                                      | 48.1  | 26.1            | 100.0 | 17.5  | 8.2   | 12,813            |
| Second                    | 35.3                                      | 51.4  | 13.3            | 100.0 | 26.2  | 9.1   | 12,820            |
| Middle                    | 42.1                                      | 49.5  | 8.4             | 100.0 | 27.7  | 14.3  | 12,822            |
| Fourth                    | 72.7                                      | 26.2  | 1.2             | 100.0 | 28.2  | 44.4  | 12,819            |
| Highest                   | 94.3                                      | 5.6   | 0.1             | 100.0 | 64.8  | 29.5  | 12,818            |
| Total                     | 54.0                                      | 36.2  | 9.8             | 100.0 | 32.9  | 21.1  | 64,092            |

<sup>1</sup> See Table 2.3.1 for definition of an improved facility.

<sup>2</sup> See Table 2.3.1 for definition of an unimproved facility.

<sup>3</sup> Defined as use of improved facilities that are not shared with other households. Includes safely managed sanitation service, which is not shown separately.

<sup>4</sup> Defined as use of improved facilities shared by 2 or more households

**Table 2.4 Household characteristics**

Percent distribution of households and de jure population by housing characteristics, percentage using solid fuel for cooking, percentage using clean fuel for cooking, and percent distribution by frequency of smoking in the home, according to residence, Zambia DHS 2018

| Housing characteristic                               | Households |       |        | Population |        |        |
|--|------------|-------|--------|------------|--------|--------|
|  | Urban      | Rural | Total  | Urban      | Rural  | Total  |
| <b>Electricity</b>                                   |            |       |        |            |        |        |
| Yes  | 69.1       | 8.4   | 34.2   | 70.6       | 8.1    | 32.8   |
| No   | 30.9       | 91.6  | 65.8   | 29.4       | 91.9   | 67.2   |
| Total  | 100.0      | 100.0 | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Flooring material</b>                             |            |       |        |            |        |        |
| Earth, sand  | 11.3       | 69.4  | 44.7   | 10.7       | 68.3   | 45.5   |
| Dung   | 1.3        | 5.7   | 3.8    | 1.4        | 5.7    | 4.0    |
| Wood/planks  | 0.0        | 0.1   | 0.0    | 0.0        | 0.0    | 0.0    |
| Palm/bamboo/reeds                                    | 0.0        | 0.1   | 0.1    | 0.0        | 0.1    | 0.1    |
| Parquet or polished wood                             | 0.2        | 0.0   | 0.1    | 0.2        | 0.0    | 0.1    |
| Vinyl or asphalt strips                              | 0.3        | 0.1   | 0.2    | 0.4        | 0.0    | 0.2    |
| Ceramic tiles/terrazzo tiles                         | 5.4        | 0.3   | 2.5    | 5.8        | 0.2    | 2.4    |
| Cement   | 80.7       | 24.0  | 48.1   | 81.0       | 25.2   | 47.2   |
| Carpet   | 0.6        | 0.1   | 0.3    | 0.5        | 0.1    | 0.3    |
| Other  | 0.1        | 0.2   | 0.2    | 0.1        | 0.3    | 0.2    |
| Total  | 100.0      | 100.0 | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Rooms used for sleeping</b>                       |            |       |        |            |        |        |
| One  | 35.9       | 31.5  | 33.4   | 23.4       | 21.8   | 22.4   |
| Two  | 37.9       | 41.4  | 39.9   | 40.0       | 41.7   | 41.0   |
| Three or more  | 26.2       | 27.1  | 26.7   | 36.6       | 36.5   | 36.5   |
| Total  | 100.0      | 100.0 | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Place for cooking</b>                             |            |       |        |            |        |        |
| In the house   | 44.5       | 9.8   | 24.5   | 44.6       | 8.3    | 22.7   |
| In a separate building                               | 5.1        | 48.2  | 29.9   | 5.5        | 51.7   | 33.4   |
| Outdoors   | 50.4       | 42.0  | 45.5   | 49.8       | 40.0   | 43.9   |
| Other  | 0.0        | 0.0   | 0.0    | 0.0        | 0.0    | 0.0    |
| Total  | 100.0      | 100.0 | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Cooking fuel</b>                                  |            |       |        |            |        |        |
| Electricity  | 18.4       | 2.0   | 9.0    | 17.8       | 1.5    | 7.9    |
| Solar power  | 0.1        | 0.3   | 0.2    | 0.0        | 0.3    | 0.2    |
| LPG/natural gas/biogas                               | 0.3        | 0.1   | 0.2    | 0.2        | 0.1    | 0.1    |
| Kerosene   | 0.0        | 0.0   | 0.0    | 0.0        | 0.0    | 0.0    |
| Coal/lignite   | 0.1        | 0.0   | 0.0    | 0.1        | 0.0    | 0.0    |
| Charcoal   | 75.4       | 18.1  | 42.4   | 75.7       | 16.6   | 40.0   |
| Wood   | 5.8        | 79.3  | 48.1   | 6.2        | 81.4   | 51.7   |
| Straw/shrubs/grass                                   | 0.0        | 0.2   | 0.1    | 0.0        | 0.2    | 0.1    |
| Agricultural crop                                    | 0.0        | 0.0   | 0.0    | 0.0        | 0.0    | 0.0    |
| Animal dung  | 0.0        | 0.0   | 0.0    | 0.0        | 0.0    | 0.0    |
| Other  | 0.0        | 0.0   | 0.0    | 0.0        | 0.0    | 0.0    |
| Total  | 100.0      | 100.0 | 100.0  | 100.0      | 100.0  | 100.0  |
| Percentage using solid fuel for cooking <sup>1</sup> | 81.3       | 97.5  | 90.6   | 82.0       | 98.2   | 91.8   |
| Percentage using clean fuel for cooking <sup>2</sup> | 18.7       | 2.1   | 9.1    | 18.0       | 1.5    | 8.0    |
| <b>Frequency of smoking in the home</b>              |            |       |        |            |        |        |
| Daily  | 8.9        | 13.6  | 11.6   | 9.1        | 13.8   | 12.0   |
| Weekly   | 5.2        | 6.1   | 5.7    | 5.3        | 6.0    | 5.7    |
| Monthly  | 0.6        | 0.5   | 0.6    | 0.7        | 0.5    | 0.6    |
| Less than once a month                               | 1.1        | 2.0   | 1.6    | 1.3        | 2.1    | 1.8    |
| Never  | 84.2       | 77.8  | 80.5   | 83.6       | 77.6   | 80.0   |
| Total  | 100.0      | 100.0 | 100.0  | 100.0      | 100.0  | 100.0  |
| Number of households/population                      | 5,441      | 7,390 | 12,831 | 25,346     | 38,746 | 64,092 |

LPG = Liquefied petroleum gas

<sup>1</sup> Includes coal/lignite, charcoal, wood, straw/shrubs/grass, agricultural crops, and animal dung

<sup>2</sup> Includes electricity, LPG/natural gas/biogas, and solar power

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**Table 2.5 Household possessions**

Percentage of households possessing various household effects, means of transportation, agricultural land, and livestock/farm animals, by residence, Zambia DHS 2018

| Possession                               | Residence |       |        |
|--|-----------|-------|--------|
|  | Urban     | Rural | Total  |
| <b>Household effects</b>                 |           |       |        |
| Radio                                    | 60.3      | 37.4  | 47.1   |
| Television                               | 66.3      | 14.8  | 36.6   |
| Computer                                 | 14.8      | 2.3   | 7.6    |
| Refrigerator                             | 45.8      | 4.3   | 21.9   |
| Internet                                 | 14.3      | 2.1   | 7.3    |
| Bed                                      | 89.3      | 56.0  | 70.1   |
| Table                                    | 71.3      | 49.9  | 59.0   |
| Sofa                                     | 65.3      | 19.8  | 39.1   |
| Washing machine                          | 2.3       | 0.5   | 1.2    |
| Air conditioner                          | 4.0       | 0.5   | 2.0    |
| Generator                                | 2.1       | 1.0   | 1.4    |
| Microwave                                | 9.0       | 0.7   | 4.3    |
| Geyser                                   | 4.3       | 0.6   | 2.2    |
| Grain grinder                            | 0.7       | 1.4   | 1.1    |
| Plough                                   | 1.4       | 17.6  | 10.7   |
| Tractor                                  | 0.3       | 0.4   | 0.4    |
| Hammer mill                              | 0.4       | 1.3   | 0.9    |
| Watch                                    | 36.9      | 11.8  | 22.4   |
| Mobile phone                             | 90.0      | 61.7  | 73.7   |
| <b>Means of transport</b>                |           |       |        |
| Bicycle                                  | 24.3      | 47.7  | 37.8   |
| Animal-drawn cart                        | 0.7       | 7.6   | 4.7    |
| Motorcycle/scooter                       | 1.6       | 3.4   | 2.6    |
| Car/truck                                | 11.7      | 3.0   | 6.7    |
| Boat with a motor                        | 0.2       | 0.4   | 0.3    |
| Banana boat                              | 0.8       | 3.0   | 2.0    |
| Ownership of agricultural land           | 16.3      | 79.4  | 52.7   |
| Ownership of farm animals <sup>1</sup>   | 13.4      | 63.3  | 42.2   |
| Ownership of a bank account <sup>1</sup> | 42.1      | 9.1   | 23.1   |
| Number                                   | 5,441     | 7,390 | 12,831 |

<sup>1</sup> Traditional cattle, dairy cattle, beef cattle, horses, donkeys, mules, goats, sheep, chickens, pigs, or rabbits/other poultry

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**Table 2.6 Wealth quintiles**

Percent distribution of the de jure population by wealth quintiles, and the Gini coefficient, according to residence and province, Zambia DHS 2018

| Residence/province | Wealth quintile |        |        |        |         | Total | Number of persons | Gini coefficient |
|--------------------|-----------------|--------|--------|--------|---------|-------|-------------------|------------------|
|                    | Lowest          | Second | Middle | Fourth | Highest |       |                   |                  |
| <b>Residence</b>   |                 |        |        |        |         |       |                   |                  |
| Urban              | 0.4             | 2.7    | 12.4   | 38.7   | 45.7    | 100.0 | 25,346            | 0.19             |
| Rural              | 32.8            | 31.3   | 25.0   | 7.7    | 3.2     | 100.0 | 38,746            | 0.41             |
| <b>Province</b>    |                 |        |        |        |         |       |                   |                  |
| Central            | 15.9            | 21.9   | 28.9   | 18.5   | 14.8    | 100.0 | 5,730             | 0.44             |
| Copperbelt         | 2.2             | 7.8    | 14.6   | 36.3   | 39.0    | 100.0 | 9,074             | 0.25             |
| Eastern            | 31.3            | 29.7   | 25.1   | 7.4    | 6.5     | 100.0 | 8,357             | 0.47             |
| Luapula            | 28.7            | 35.6   | 19.1   | 8.6    | 7.9     | 100.0 | 5,526             | 0.44             |
| Lusaka             | 1.6             | 3.4    | 8.4    | 36.0   | 50.5    | 100.0 | 10,700            | 0.19             |
| Muchinga           | 38.3            | 26.4   | 20.7   | 9.8    | 4.8     | 100.0 | 3,676             | 0.47             |
| Northern           | 39.5            | 25.4   | 21.0   | 8.7    | 5.5     | 100.0 | 5,502             | 0.46             |
| North Western      | 25.5            | 27.4   | 22.1   | 13.0   | 12.1    | 100.0 | 3,477             | 0.52             |
| Southern           | 11.1            | 21.6   | 32.0   | 24.8   | 10.4    | 100.0 | 7,811             | 0.38             |
| Western            | 47.0            | 24.3   | 14.1   | 6.8    | 7.8     | 100.0 | 4,237             | 0.51             |
| Total              | 20.0            | 20.0   | 20.0   | 20.0   | 20.0    | 100.0 | 64,092            | 0.44             |

**Table 2.7 Handwashing**

Percentage of the de jure population for whom the place most often used for washing hands was observed, by whether the location was fixed or mobile; total percentage of the de jure population for whom the place for handwashing was observed; among the de jure population for whom the place for handwashing was observed, percentage with water available, percentage with soap available, and percentage with a cleansing agent other than soap available; percentage of the de jure population with a basic handwashing facility; and percentage with a limited handwashing facility, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of de jure population for whom place for washing hands was observed: |                                   |       | Place for handwashing observed and: |                 |                             | Number of persons for whom place for handwashing was observed | Percentage of de jure population with a basic handwashing facility <sup>3</sup> | Percentage of de jure population with a limited handwashing facility <sup>4</sup> | Number of persons for whom a place for handwashing was observed or with no place for handwashing in the dwelling, yard, or plot |
|---------------------------|---|-----------------------------------|-------|-------------------------------------|-----------------|-----------------------------|---|---|---|---|
|                           | Place for hand-washing was a fixed place  | Place for hand-washing was mobile | Total | Number of persons                   | Water available | Soap available <sup>1</sup> |   |   |   |   |
| <b>Residence</b>          |   |                                   |       |                                     |                 |                             |   |   |   |   |
| Urban                     | 32.9  | 33.1                              | 66.0  | 25,346                              | 72.9            | 51.8                        | 1.5   | 16,729  | 36.2  | 41.4  |
| Rural                     | 19.4  | 26.4                              | 45.8  | 38,746                              | 58.4            | 32.9                        | 6.7   | 17,742  | 15.3  | 38.0  |
| <b>Province</b>           |   |                                   |       |                                     |                 |                             |   |   |   |   |
| Central                   | 28.8  | 32.0                              | 60.8  | 5,730                               | 71.0            | 51.7                        | 4.9   | 3,486   | 30.9  | 36.7  |
| Copperbelt                | 27.8  | 48.6                              | 76.4  | 9,074                               | 62.3            | 45.1                        | 0.8   | 6,929   | 33.6  | 55.8  |
| Eastern                   | 24.1  | 16.5                              | 40.6  | 8,357                               | 63.8            | 43.7                        | 4.4   | 3,391   | 17.2  | 23.8  |
| Luapula                   | 21.6  | 36.1                              | 57.7  | 5,526                               | 55.8            | 33.9                        | 7.3   | 3,188   | 19.3  | 42.5  |
| Lusaka                    | 33.3  | 28.9                              | 62.3  | 10,700                              | 81.6            | 56.0                        | 1.4   | 6,664   | 39.9  | 35.0  |
| Muchinga                  | 21.4  | 23.2                              | 44.6  | 3,676                               | 61.8            | 16.0                        | 4.4   | 1,639   | 10.1  | 55.9  |
| Northern                  | 19.2  | 19.6                              | 38.8  | 5,502                               | 62.5            | 36.5                        | 12.1  | 2,136   | 15.8  | 30.8  |
| North Western             | 24.6  | 24.1                              | 48.6  | 3,477                               | 56.7            | 20.1                        | 0.7   | 1,691   | 9.3   | 44.1  |
| Southern                  | 17.5  | 18.5                              | 36.0  | 7,811                               | 48.3            | 22.9                        | 7.3   | 2,809   | 7.5   | 45.3  |
| Western                   | 20.2  | 39.8                              | 59.9  | 4,237                               | 68.1            | 49.8                        | 7.6   | 2,539   | 26.6  | 36.7  |
| <b>Wealth quintile</b>    |   |                                   |       |                                     |                 |                             |   |   |   |   |
| Lowest                    | 16.5  | 26.0                              | 42.5  | 12,813                              | 57.0            | 29.3                        | 8.5   | 5,441   | 12.8  | 35.9  |
| Second                    | 16.9  | 27.7                              | 44.6  | 12,820                              | 53.6            | 29.1                        | 6.8   | 5,712   | 13.2  | 38.9  |
| Middle                    | 19.4  | 27.8                              | 47.2  | 12,822                              | 54.8            | 34.8                        | 5.8   | 6,047   | 16.2  | 40.2  |
| Fourth                    | 19.3  | 40.2                              | 59.5  | 12,819                              | 63.2            | 40.0                        | 2.0   | 7,625   | 24.2  | 47.9  |
| Highest                   | 51.7  | 23.6                              | 75.3  | 12,818                              | 85.7            | 63.2                        | 0.9   | 9,646   | 50.5  | 34.5  |
| Total                     | 24.7  | 29.0                              | 53.8  | 64,092                              | 65.5            | 42.1                        | 4.2   | 34,471  | 23.5  | 39.4  |
|                           |   |                                   |       |                                     |                 |                             |   |   |   | 54,782  |

<sup>1</sup> Soap includes soap or detergent in bar, liquid, powder, or paste form.

<sup>2</sup> Cleansing agents other than soap include locally available materials such as ash, mud, or sand.

<sup>3</sup> The availability of a handwashing facility on premises with soap and water

<sup>4</sup> The availability of a handwashing facility on premises without soap and/or water

**Table 2.8 Household population by age, sex, and residence**

Percent distribution of the de facto household population by various age groups and percentage of the de facto household population age 10-19, according to sex and residence, Zambia DHS 2018

| Age                                | Urban  |        |        | Rural  |        |        | Male   | Female | Total  |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                    | Male   | Female | Total  | Male   | Female | Total  |        |        |        |
| <5                                 | 14.8   | 13.3   | 14.0   | 18.0   | 17.0   | 17.5   | 16.7   | 15.5   | 16.1   |
| 5-9                                | 15.3   | 13.6   | 14.4   | 18.6   | 17.2   | 17.9   | 17.3   | 15.8   | 16.5   |
| 10-14                              | 14.5   | 14.0   | 14.3   | 17.4   | 16.1   | 16.7   | 16.3   | 15.2   | 15.7   |
| 15-19                              | 10.4   | 10.6   | 10.5   | 10.2   | 9.4    | 9.8    | 10.3   | 9.9    | 10.1   |
| 20-24                              | 9.2    | 10.6   | 9.9    | 6.6    | 7.8    | 7.2    | 7.6    | 8.9    | 8.3    |
| 25-29                              | 7.8    | 9.0    | 8.4    | 5.2    | 6.2    | 5.7    | 6.2    | 7.3    | 6.8    |
| 30-34                              | 6.2    | 7.4    | 6.8    | 4.7    | 5.0    | 4.9    | 5.3    | 6.0    | 5.7    |
| 35-39                              | 5.9    | 6.3    | 6.1    | 4.1    | 4.9    | 4.5    | 4.8    | 5.5    | 5.1    |
| 40-44                              | 5.2    | 4.3    | 4.7    | 3.7    | 3.9    | 3.8    | 4.3    | 4.1    | 4.2    |
| 45-49                              | 3.2    | 2.7    | 2.9    | 3.1    | 2.9    | 3.0    | 3.2    | 2.8    | 3.0    |
| 50-54                              | 2.1    | 2.7    | 2.4    | 2.3    | 2.5    | 2.4    | 2.2    | 2.6    | 2.4    |
| 55-59                              | 1.2    | 1.6    | 1.4    | 1.4    | 1.8    | 1.6    | 1.3    | 1.7    | 1.5    |
| 60-64                              | 1.8    | 1.4    | 1.6    | 1.6    | 1.5    | 1.6    | 1.7    | 1.5    | 1.6    |
| 65-69                              | 0.6    | 0.8    | 0.7    | 1.0    | 1.2    | 1.1    | 0.8    | 1.0    | 0.9    |
| 70-74                              | 0.6    | 0.8    | 0.7    | 0.7    | 1.1    | 0.9    | 0.7    | 1.0    | 0.8    |
| 75-79                              | 0.4    | 0.5    | 0.4    | 0.6    | 0.7    | 0.6    | 0.5    | 0.6    | 0.5    |
| 80+                                | 0.5    | 0.4    | 0.4    | 0.7    | 0.7    | 0.7    | 0.6    | 0.6    | 0.6    |
| Don't know/missing                 | 0.3    | 0.1    | 0.2    | 0.2    | 0.1    | 0.1    | 0.2    | 0.1    | 0.2    |
| Total                              | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  |
| <b>Dependency age groups</b>       |        |        |        |        |        |        |        |        |        |
| 0-14                               | 44.6   | 40.9   | 42.6   | 54.0   | 50.4   | 52.1   | 50.3   | 46.5   | 48.3   |
| 15-64                              | 53.0   | 56.5   | 54.9   | 42.9   | 45.9   | 44.5   | 46.9   | 50.2   | 48.6   |
| 65+                                | 2.1    | 2.5    | 2.3    | 2.9    | 3.6    | 3.3    | 2.6    | 3.2    | 2.9    |
| Don't know/missing                 | 0.3    | 0.1    | 0.2    | 0.2    | 0.1    | 0.1    | 0.2    | 0.1    | 0.2    |
| Total                              | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  |
| <b>Child and adult populations</b> |        |        |        |        |        |        |        |        |        |
| 0-17                               | 50.5   | 46.8   | 48.5   | 59.9   | 55.8   | 57.8   | 56.2   | 52.1   | 54.1   |
| 18+                                | 49.2   | 53.1   | 51.3   | 40.0   | 44.1   | 42.1   | 43.5   | 47.8   | 45.7   |
| Don't know/missing                 | 0.3    | 0.1    | 0.2    | 0.2    | 0.1    | 0.1    | 0.2    | 0.1    | 0.2    |
| Total                              | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  |
| Adolescents 10-19                  | 24.9   | 24.7   | 24.8   | 27.6   | 25.5   | 26.5   | 26.5   | 25.2   | 25.8   |
| Number of persons                  | 11,535 | 13,254 | 24,789 | 18,138 | 19,264 | 37,401 | 29,673 | 32,517 | 62,191 |

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**Table 2.9 Household composition**

Percent distribution of households by sex of head of household and by household size, mean size of household, and percentage of households with orphans and foster children under age 18, according to residence, Zambia DHS 2018

| Characteristic  | Residence |       |        |
|---|-----------|-------|--------|
|   | Urban     | Rural | Total  |
| <b>Household headship</b>   |           |       |        |
| Male  | 71.9      | 74.2  | 73.2   |
| Female  | 28.1      | 25.8  | 26.8   |
| Total   | 100.0     | 100.0 | 100.0  |
| <b>Number of usual members</b>  |           |       |        |
| 1   | 9.6       | 6.8   | 8.0    |
| 2   | 10.3      | 7.6   | 8.8    |
| 3   | 16.0      | 12.6  | 14.0   |
| 4   | 15.9      | 15.3  | 15.6   |
| 5   | 15.3      | 15.0  | 15.1   |
| 6   | 12.7      | 13.3  | 13.1   |
| 7   | 8.0       | 10.9  | 9.7    |
| 8   | 5.1       | 8.2   | 6.9    |
| 9+  | 7.0       | 10.3  | 8.9    |
| Total   | 100.0     | 100.0 | 100.0  |
| Mean size of households   | 4.7       | 5.2   | 5.0    |
| <b>Percentage of households with orphans and foster children under age 18</b> |           |       |        |
| Double orphans  | 3.0       | 2.6   | 2.8    |
| Single orphans <sup>1</sup>   | 14.5      | 13.8  | 14.1   |
| Foster children <sup>2</sup>  | 25.7      | 28.2  | 27.1   |
| Foster and/or orphan children   | 31.1      | 32.9  | 32.1   |
| Number of households  | 5,441     | 7,390 | 12,831 |

Note: Table is based on de jure household members, i.e., usual residents.

<sup>1</sup> Includes children with one dead parent and an unknown survival status of the other parent

<sup>2</sup> Foster children are those under age 18 living in households with neither their mother nor their father present, and the mother and/or the father are alive.

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**Table 2.10 Children's living arrangements and orphanhood**

Percent distribution of de jure children under age 18 by living arrangements and survival status of parents, percentage of children not living with a biological parent, and percentage of children with one or both parents dead, according to background characteristics, Zambia DHS 2018

| Background characteristic | Living with mother but not with father |              | Living with father but not with mother |              | Not living with either parent |            |                   |                   | Missing information on father/mother | Percentage not living with a biological parent | Percentage with one or both parents dead <sup>1</sup> | Number of children |      |        |
|---------------------------|--|--------------|--|--------------|-------------------------------|------------|-------------------|-------------------|--------------------------------------|--|---|--------------------|------|--------|
|                           | Living with both parents               | Father alive | Father dead                            | Mother alive | Mother dead                   | Both alive | Only father alive | Only mother alive | Both dead                            |  |   |                    |      |        |
| <b>Age</b>                |  |              |  |              |                               |            |                   |                   |                                      |  |   |                    |      |        |
| 0-4                       | 66.1                                   | 25.0         | 2.0                                    | 0.9          | 0.1                           | 4.7        | 0.4               | 0.3               | 0.2                                  | 0.3  | 100.0   | 5.5                | 3.0  | 10,077 |
| <2                        | 68.7                                   | 28.1         | 1.5                                    | 0.1          | 0.0                           | 1.1        | 0.3               | 0.1               | 0.0                                  | 0.2  | 100.0   | 1.4                | 1.8  | 3,977  |
| 2-4                       | 64.4                                   | 23.0         | 2.4                                    | 1.4          | 0.2                           | 7.0        | 0.5               | 0.4               | 0.3                                  | 0.4  | 100.0   | 8.2                | 3.8  | 6,100  |
| 5-9                       | 58.2                                   | 18.3         | 4.0                                    | 3.0          | 0.5                           | 11.5       | 1.3               | 1.8               | 1.0                                  | 0.4  | 100.0   | 15.6               | 8.7  | 10,392 |
| 10-14                     | 49.7                                   | 14.9         | 5.9                                    | 4.4          | 1.1                           | 15.4       | 2.3               | 3.5               | 2.1                                  | 0.6  | 100.0   | 23.3               | 15.0 | 9,984  |
| 15-17                     | 43.5                                   | 12.6         | 7.2                                    | 5.1          | 1.2                           | 16.9       | 2.8               | 5.6               | 4.1                                  | 1.0  | 100.0   | 29.4               | 21.3 | 3,721  |
| <b>Sex</b>                |  |              |  |              |                               |            |                   |                   |                                      |  |   |                    |      |        |
| Male                      | 57.1                                   | 18.7         | 4.5                                    | 3.5          | 0.8                           | 10.0       | 1.4               | 2.2               | 1.4                                  | 0.5  | 100.0   | 14.9               | 10.3 | 16,939 |
| Female                    | 55.8                                   | 18.7         | 4.1                                    | 2.5          | 0.5                           | 12.4       | 1.6               | 2.4               | 1.4                                  | 0.5  | 100.0   | 17.8               | 10.1 | 17,235 |
| <b>Residence</b>          |  |              |  |              |                               |            |                   |                   |                                      |  |   |                    |      |        |
| Urban                     | 53.0                                   | 19.8         | 5.1                                    | 3.3          | 0.9                           | 11.3       | 1.6               | 2.8               | 1.8                                  | 0.5  | 100.0   | 17.5               | 12.3 | 12,082 |
| Rural                     | 58.3                                   | 18.1         | 3.9                                    | 2.9          | 0.5                           | 11.1       | 1.4               | 2.0               | 1.2                                  | 0.5  | 100.0   | 15.7               | 9.1  | 22,092 |
| <b>Province</b>           |  |              |  |              |                               |            |                   |                   |                                      |  |   |                    |      |        |
| Central                   | 54.2                                   | 18.7         | 3.8                                    | 2.9          | 0.5                           | 13.8       | 1.5               | 2.5               | 1.7                                  | 0.5  | 100.0   | 19.4               | 10.0 | 3,086  |
| Copperbelt                | 52.8                                   | 19.0         | 4.9                                    | 3.2          | 0.8                           | 11.6       | 1.7               | 3.5               | 2.2                                  | 0.3  | 100.0   | 18.9               | 13.0 | 4,364  |
| Eastern                   | 63.6                                   | 15.9         | 3.4                                    | 2.6          | 0.7                           | 9.8        | 1.1               | 1.4               | 0.9                                  | 0.5  | 100.0   | 13.3               | 7.7  | 4,566  |
| Luapula                   | 56.9                                   | 18.5         | 5.5                                    | 2.0          | 0.4                           | 10.2       | 2.0               | 2.3               | 1.8                                  | 0.4  | 100.0   | 16.3               | 12.1 | 3,125  |
| Lusaka                    | 54.1                                   | 20.5         | 5.0                                    | 2.7          | 0.7                           | 11.0       | 1.6               | 2.4               | 1.6                                  | 0.4  | 100.0   | 16.5               | 11.3 | 5,151  |
| Muchinga                  | 63.2                                   | 15.6         | 4.5                                    | 3.5          | 0.2                           | 8.4        | 1.4               | 2.0               | 1.1                                  | 0.3  | 100.0   | 12.8               | 9.1  | 2,095  |
| Northern                  | 62.1                                   | 15.3         | 4.2                                    | 2.3          | 0.5                           | 10.2       | 1.5               | 1.5               | 1.9                                  | 0.5  | 100.0   | 15.1               | 9.7  | 3,127  |
| North Western             | 53.1                                   | 23.0         | 3.6                                    | 3.3          | 0.1                           | 11.7       | 1.3               | 2.2               | 1.0                                  | 0.6  | 100.0   | 16.2               | 8.3  | 1,959  |
| Southern                  | 55.9                                   | 18.4         | 3.2                                    | 3.7          | 1.2                           | 13.2       | 1.0               | 2.0               | 0.7                                  | 0.7  | 100.0   | 16.9               | 8.4  | 4,319  |
| Western                   | 47.2                                   | 23.8         | 5.5                                    | 4.8          | 0.8                           | 11.4       | 2.1               | 2.7               | 1.1                                  | 0.5  | 100.0   | 17.3               | 12.2 | 2,382  |
| <b>Wealth quintile</b>    |  |              |  |              |                               |            |                   |                   |                                      |  |   |                    |      |        |
| Lowest                    | 56.6                                   | 22.9         | 5.3                                    | 2.4          | 0.3                           | 7.8        | 1.5               | 1.6               | 1.1                                  | 0.4  | 100.0   | 12.1               | 10.0 | 7,486  |
| Second                    | 59.4                                   | 17.7         | 4.4                                    | 2.7          | 0.5                           | 10.5       | 1.4               | 1.5               | 1.4                                  | 0.5  | 100.0   | 14.8               | 9.3  | 7,350  |
| Middle                    | 58.2                                   | 16.3         | 3.4                                    | 3.1          | 0.6                           | 12.6       | 1.4               | 2.4               | 1.4                                  | 0.6  | 100.0   | 17.8               | 9.4  | 7,115  |
| Fourth                    | 52.3                                   | 20.1         | 4.9                                    | 3.5          | 1.2                           | 11.6       | 1.3               | 3.1               | 1.6                                  | 0.5  | 100.0   | 17.6               | 12.2 | 6,419  |
| Highest                   | 54.9                                   | 15.8         | 3.5                                    | 3.8          | 0.7                           | 14.4       | 1.8               | 3.0               | 1.7                                  | 0.5  | 100.0   | 20.8               | 10.7 | 5,803  |
| Total <15                 | 58.0                                   | 19.4         | 4.0                                    | 2.8          | 0.6                           | 10.5       | 1.3               | 1.9               | 1.1                                  | 0.4  | 100.0   | 14.8               | 8.9  | 30,453 |
| Total <18                 | 56.4                                   | 18.7         | 4.3                                    | 3.0          | 0.7                           | 11.2       | 1.5               | 2.3               | 1.4                                  | 0.5  | 100.0   | 16.4               | 10.2 | 34,174 |

Note: Table is based on de jure members, i.e., usual residents.

<sup>1</sup> Includes children with father dead, mother dead, both dead, and one parent dead but missing information on survival status of the other parent

**Table 2.11 Birth registration of children under age 5**

Percentage of de jure children under age 5 whose births are registered with the civil authorities, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of children whose births are registered and who: |                                  |  | Number of children |
|---------------------------|---|----------------------------------|--|--------------------|
|                           | Had a birth certificate                                     | Did not have a birth certificate | Total percentage of children whose births are registered |                    |
| <b>Age</b>                |   |                                  |  |                    |
| <2                        | 4.8   | 8.9                              | 13.8   | 3,977              |
| 2-4                       | 6.6   | 7.6                              | 14.2   | 6,100              |
| <b>Sex</b>                |   |                                  |  |                    |
| Male                      | 6.3   | 7.8                              | 14.1   | 4,993              |
| Female                    | 5.5   | 8.5                              | 14.0   | 5,084              |
| <b>Residence</b>          |   |                                  |  |                    |
| Urban                     | 10.5  | 14.8                             | 25.3   | 3,445              |
| Rural                     | 3.5   | 4.7                              | 8.2  | 6,632              |
| <b>Province</b>           |   |                                  |  |                    |
| Central                   | 0.8   | 21.5                             | 22.4   | 878                |
| Copperbelt                | 14.2  | 14.8                             | 29.0   | 1,273              |
| Eastern                   | 6.8   | 4.6                              | 11.4   | 1,380              |
| Luapula                   | 4.4   | 4.0                              | 8.3  | 968                |
| Lusaka                    | 7.9   | 13.5                             | 21.3   | 1,491              |
| Muchinga                  | 11.4  | 2.5                              | 14.0   | 589                |
| Northern                  | 1.1   | 1.6                              | 2.6  | 902                |
| North Western             | 4.8   | 4.1                              | 8.9  | 574                |
| Southern                  | 2.9   | 5.1                              | 7.9  | 1,337              |
| Western                   | 1.3   | 3.0                              | 4.4  | 684                |
| <b>Wealth quintile</b>    |   |                                  |  |                    |
| Lowest                    | 1.8   | 1.8                              | 3.6  | 2,523              |
| Second                    | 3.8   | 4.5                              | 8.3  | 2,251              |
| Middle                    | 5.0   | 8.7                              | 13.7   | 1,921              |
| Fourth                    | 7.8   | 13.0                             | 20.8   | 1,824              |
| Highest                   | 14.4  | 17.4                             | 31.8   | 1,557              |
| Total                     | 5.9   | 8.2                              | 14.0   | 10,077             |

**Table 2.12.1 Educational attainment of the female household population**

Percent distribution of the de facto female household population age 6 and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Zambia DHS 2018

| Background characteristic | No education | Some primary | Completed primary <sup>1</sup> | Some secondary | Completed secondary <sup>2</sup> | Higher | Don't know/missing | Total | Number | Median years completed |
|---------------------------|--------------|--------------|--------------------------------|----------------|----------------------------------|--------|--------------------|-------|--------|------------------------|
| <b>Age</b>                |              |              |                                |                |                                  |        |                    |       |        |                        |
| 6-9                       | 45.7         | 54.3         | 0.0                            | 0.0            | 0.0                              | 0.0    | 0.0                | 100.0 | 4,190  | 0.0                    |
| 10-14                     | 6.0          | 83.7         | 4.0                            | 6.2            | 0.0                              | 0.0    | 0.0                | 100.0 | 4,959  | 3.1                    |
| 15-19                     | 3.7          | 30.1         | 13.5                           | 46.6           | 5.6                              | 0.3    | 0.2                | 100.0 | 3,222  | 6.9                    |
| 20-24                     | 4.1          | 21.9         | 13.0                           | 36.4           | 19.4                             | 5.1    | 0.2                | 100.0 | 2,895  | 7.9                    |
| 25-29                     | 6.0          | 23.9         | 14.2                           | 31.4           | 15.6                             | 8.6    | 0.3                | 100.0 | 2,384  | 7.4                    |
| 30-34                     | 10.9         | 30.9         | 13.4                           | 23.5           | 11.0                             | 9.8    | 0.6                | 100.0 | 1,940  | 6.6                    |
| 35-39                     | 11.2         | 33.7         | 17.6                           | 23.2           | 6.0                              | 7.4    | 1.0                | 100.0 | 1,773  | 6.2                    |
| 40-44                     | 11.0         | 34.5         | 20.0                           | 21.2           | 6.5                              | 5.7    | 1.1                | 100.0 | 1,319  | 6.2                    |
| 45-49                     | 14.7         | 38.1         | 19.7                           | 18.1           | 3.6                              | 4.5    | 1.2                | 100.0 | 920    | 5.7                    |
| 50-54                     | 17.7         | 35.8         | 21.5                           | 14.4           | 3.3                              | 5.9    | 1.4                | 100.0 | 843    | 5.6                    |
| 55-59                     | 24.4         | 34.6         | 18.5                           | 14.1           | 2.2                              | 4.7    | 1.4                | 100.0 | 558    | 4.5                    |
| 60-64                     | 23.2         | 39.1         | 21.1                           | 10.9           | 1.1                              | 3.6    | 1.0                | 100.0 | 481    | 3.8                    |
| 65+                       | 45.7         | 37.8         | 5.4                            | 6.9            | 0.7                              | 1.4    | 2.1                | 100.0 | 1,028  | 0.2                    |
| Don't know/missing        | (35.5)       | (19.2)       | (9.3)                          | (6.9)          | (6.0)                            | (5.2)  | (18.0)             | 100.0 | 31     | (2.7)                  |
| <b>Residence</b>          |              |              |                                |                |                                  |        |                    |       |        |                        |
| Urban                     | 9.1          | 33.0         | 10.8                           | 28.1           | 11.8                             | 6.7    | 0.6                | 100.0 | 11,170 | 6.6                    |
| Rural                     | 20.5         | 52.0         | 10.4                           | 13.8           | 1.9                              | 1.0    | 0.4                | 100.0 | 15,374 | 3.2                    |
| <b>Province</b>           |              |              |                                |                |                                  |        |                    |       |        |                        |
| Central                   | 16.2         | 42.0         | 13.6                           | 19.6           | 5.6                              | 2.5    | 0.4                | 100.0 | 2,432  | 4.8                    |
| Copperbelt                | 9.6          | 34.6         | 12.2                           | 25.6           | 11.6                             | 5.6    | 0.8                | 100.0 | 3,972  | 6.4                    |
| Eastern                   | 22.2         | 55.5         | 6.6                            | 11.2           | 2.2                              | 1.7    | 0.6                | 100.0 | 3,259  | 2.7                    |
| Luapula                   | 19.7         | 51.8         | 9.4                            | 13.5           | 2.9                              | 1.7    | 1.0                | 100.0 | 2,191  | 3.2                    |
| Lusaka                    | 10.6         | 32.6         | 10.4                           | 27.8           | 10.8                             | 7.4    | 0.4                | 100.0 | 4,715  | 6.5                    |
| Muchinga                  | 21.3         | 50.0         | 11.1                           | 13.8           | 2.5                              | 1.0    | 0.2                | 100.0 | 1,535  | 3.4                    |
| Northern                  | 20.6         | 54.4         | 8.4                            | 12.8           | 2.1                              | 1.2    | 0.6                | 100.0 | 2,233  | 3.0                    |
| North Western             | 15.9         | 46.6         | 5.7                            | 21.8           | 6.4                              | 3.4    | 0.2                | 100.0 | 1,384  | 4.2                    |
| Southern                  | 11.9         | 43.7         | 15.4                           | 22.7           | 4.2                              | 2.1    | 0.1                | 100.0 | 3,098  | 5.4                    |
| Western                   | 20.8         | 47.7         | 9.5                            | 16.4           | 3.6                              | 1.6    | 0.3                | 100.0 | 1,723  | 3.4                    |
| <b>Wealth quintile</b>    |              |              |                                |                |                                  |        |                    |       |        |                        |
| Lowest                    | 29.2         | 54.7         | 8.2                            | 7.1            | 0.4                              | 0.0    | 0.3                | 100.0 | 5,113  | 1.8                    |
| Second                    | 21.4         | 54.2         | 10.2                           | 12.6           | 1.0                              | 0.1    | 0.5                | 100.0 | 5,089  | 3.1                    |
| Middle                    | 14.6         | 49.4         | 13.2                           | 19.4           | 2.6                              | 0.3    | 0.5                | 100.0 | 5,172  | 4.3                    |
| Fourth                    | 10.3         | 37.1         | 13.1                           | 29.5           | 7.8                              | 1.7    | 0.5                | 100.0 | 5,454  | 6.2                    |
| Highest                   | 4.7          | 27.0         | 8.2                            | 28.6           | 17.1                             | 13.9   | 0.6                | 100.0 | 5,716  | 8.1                    |
| Total                     | 15.7         | 44.0         | 10.6                           | 19.8           | 6.1                              | 3.4    | 0.5                | 100.0 | 26,544 | 4.6                    |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Completed grade 7 at the primary level

<sup>2</sup> Completed grade 12 at the secondary level

**Table 2.12.2 Educational attainment of the male household population**

Percent distribution of the de facto male household population age 6 and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Zambia DHS 2018

| Background characteristic | No education | Some primary | Completed primary <sup>1</sup> | Some secondary | Completed secondary <sup>2</sup> | Higher | Don't know/missing | Total | Number | Median years completed |
|---------------------------|--------------|--------------|--------------------------------|----------------|----------------------------------|--------|--------------------|-------|--------|------------------------|
| <b>Age</b>                |              |              |                                |                |                                  |        |                    |       |        |                        |
| 6-9                       | 49.6         | 50.4         | 0.0                            | 0.0            | 0.0                              | 0.0    | 0.0                | 100.0 | 4,174  | 0.0                    |
| 10-14                     | 9.9          | 81.9         | 3.5                            | 4.7            | 0.0                              | 0.0    | 0.0                | 100.0 | 4,827  | 2.9                    |
| 15-19                     | 3.8          | 33.3         | 11.3                           | 47.1           | 4.1                              | 0.2    | 0.1                | 100.0 | 3,049  | 6.7                    |
| 20-24                     | 4.0          | 15.6         | 11.0                           | 38.4           | 25.3                             | 5.1    | 0.5                | 100.0 | 2,258  | 8.5                    |
| 25-29                     | 3.1          | 15.4         | 11.6                           | 34.6           | 23.0                             | 11.6   | 0.7                | 100.0 | 1,835  | 8.5                    |
| 30-34                     | 4.7          | 18.3         | 13.7                           | 26.8           | 22.1                             | 12.4   | 2.0                | 100.0 | 1,573  | 8.4                    |
| 35-39                     | 6.3          | 18.8         | 15.9                           | 27.3           | 16.0                             | 13.2   | 2.4                | 100.0 | 1,417  | 7.8                    |
| 40-44                     | 5.9          | 23.6         | 16.5                           | 28.0           | 13.7                             | 10.0   | 2.4                | 100.0 | 1,274  | 7.3                    |
| 45-49                     | 6.8          | 26.6         | 17.1                           | 25.3           | 11.1                             | 11.0   | 2.1                | 100.0 | 936    | 6.8                    |
| 50-54                     | 5.4          | 25.8         | 22.6                           | 21.3           | 11.8                             | 8.6    | 4.5                | 100.0 | 668    | 6.7                    |
| 55-59                     | 3.4          | 22.2         | 28.7                           | 19.3           | 13.0                             | 11.7   | 1.7                | 100.0 | 393    | 6.8                    |
| 60-64                     | 9.6          | 20.8         | 25.7                           | 22.6           | 10.5                             | 7.6    | 3.1                | 100.0 | 502    | 6.7                    |
| 65+                       | 14.6         | 38.5         | 14.4                           | 18.0           | 5.7                              | 5.9    | 2.8                | 100.0 | 771    | 5.4                    |
| Don't know/missing        | 7.6          | 12.4         | 18.5                           | 40.2           | 10.1                             | 1.2    | 10.1               | 100.0 | 65     | (8.3)                  |
| <b>Residence</b>          |              |              |                                |                |                                  |        |                    |       |        |                        |
| Urban                     | 8.0          | 30.3         | 8.3                            | 26.3           | 16.8                             | 9.2    | 1.0                | 100.0 | 9,472  | 7.2                    |
| Rural                     | 18.0         | 46.3         | 10.6                           | 18.0           | 4.3                              | 1.8    | 0.9                | 100.0 | 14,268 | 3.9                    |
| <b>Province</b>           |              |              |                                |                |                                  |        |                    |       |        |                        |
| Central                   | 14.0         | 39.2         | 11.9                           | 21.1           | 8.6                              | 4.3    | 0.8                | 100.0 | 2,179  | 5.4                    |
| Copperbelt                | 8.9          | 31.4         | 8.3                            | 26.5           | 16.0                             | 7.9    | 0.9                | 100.0 | 3,372  | 6.9                    |
| Eastern                   | 23.9         | 45.7         | 7.6                            | 14.7           | 4.5                              | 2.5    | 1.0                | 100.0 | 3,127  | 3.1                    |
| Luapula                   | 19.1         | 42.8         | 8.6                            | 18.5           | 5.7                              | 2.7    | 2.5                | 100.0 | 1,990  | 3.9                    |
| Lusaka                    | 8.2          | 31.7         | 9.8                            | 24.5           | 15.9                             | 8.8    | 1.1                | 100.0 | 4,073  | 6.8                    |
| Muchinga                  | 13.8         | 47.8         | 10.5                           | 20.8           | 4.6                              | 2.1    | 0.4                | 100.0 | 1,379  | 4.5                    |
| Northern                  | 14.7         | 44.9         | 12.5                           | 20.8           | 4.5                              | 1.9    | 0.7                | 100.0 | 2,023  | 4.5                    |
| North Western             | 11.6         | 45.4         | 5.3                            | 23.0           | 8.3                              | 5.7    | 0.7                | 100.0 | 1,255  | 4.9                    |
| Southern                  | 13.3         | 39.0         | 12.9                           | 22.5           | 8.0                              | 3.8    | 0.5                | 100.0 | 2,918  | 5.7                    |
| Western                   | 16.9         | 50.7         | 7.7                            | 16.2           | 5.8                              | 2.2    | 0.5                | 100.0 | 1,424  | 3.5                    |
| <b>Wealth quintile</b>    |              |              |                                |                |                                  |        |                    |       |        |                        |
| Lowest                    | 25.1         | 49.2         | 10.7                           | 12.3           | 1.7                              | 0.0    | 1.0                | 100.0 | 4,333  | 2.5                    |
| Second                    | 18.9         | 48.7         | 9.9                            | 17.8           | 3.2                              | 0.3    | 1.2                | 100.0 | 4,652  | 3.5                    |
| Middle                    | 13.9         | 43.6         | 12.2                           | 22.2           | 6.6                              | 0.8    | 0.7                | 100.0 | 4,959  | 4.8                    |
| Fourth                    | 9.1          | 33.5         | 10.2                           | 28.3           | 14.0                             | 3.9    | 1.1                | 100.0 | 4,901  | 6.6                    |
| Highest                   | 4.6          | 26.2         | 5.6                            | 24.9           | 19.8                             | 18.1   | 0.8                | 100.0 | 4,894  | 8.6                    |
| Total                     | 14.0         | 39.9         | 9.7                            | 21.3           | 9.3                              | 4.8    | 1.0                | 100.0 | 23,740 | 5.3                    |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Completed grade 7 at the primary level

<sup>2</sup> Completed grade 12 at the secondary level

**Table 2.13 School attendance ratios**

Net attendance ratios (NAR) and gross attendance ratios (GAR) for the de facto household population by sex and level of schooling; and the Gender Parity Index (GPI), according to background characteristics, Zambia DHS 2018

| Background characteristic | Net attendance ratio <sup>1</sup> |        |       |                                  | Gross attendance ratio <sup>2</sup> |        |       |                                  |
|---------------------------|-----------------------------------|--------|-------|----------------------------------|-------------------------------------|--------|-------|----------------------------------|
|                           |                                   |        |       | Gender Parity Index <sup>3</sup> |                                     |        |       | Gender Parity Index <sup>3</sup> |
|                           | Male                              | Female | Total |                                  | Male                                | Female | Total |                                  |
| <b>PRIMARY SCHOOL</b>     |                                   |        |       |                                  |                                     |        |       |                                  |
| <b>Residence</b>          |                                   |        |       |                                  |                                     |        |       |                                  |
| Urban                     | 83.2                              | 82.7   | 82.9  | 0.99                             | 101.8                               | 102.1  | 102.0 | 1.00                             |
| Rural                     | 73.8                              | 79.2   | 76.5  | 1.07                             | 94.6                                | 96.1   | 95.3  | 1.02                             |
| <b>Province</b>           |                                   |        |       |                                  |                                     |        |       |                                  |
| Central                   | 71.2                              | 76.2   | 73.8  | 1.07                             | 87.9                                | 91.5   | 89.7  | 1.04                             |
| Copperbelt                | 79.7                              | 81.8   | 80.8  | 1.03                             | 97.7                                | 101.3  | 99.6  | 1.04                             |
| Eastern                   | 61.7                              | 78.5   | 70.2  | 1.27                             | 82.6                                | 95.7   | 89.1  | 1.16                             |
| Luapula                   | 69.3                              | 74.0   | 71.5  | 1.07                             | 87.4                                | 92.1   | 89.7  | 1.05                             |
| Lusaka                    | 85.2                              | 82.3   | 83.7  | 0.97                             | 105.5                               | 100.5  | 103.0 | 0.95                             |
| Muchinga                  | 80.2                              | 80.6   | 80.4  | 1.01                             | 106.8                               | 98.0   | 102.4 | 0.92                             |
| Northern                  | 78.0                              | 78.2   | 78.1  | 1.00                             | 97.4                                | 100.6  | 99.0  | 1.03                             |
| North Western             | 82.4                              | 83.0   | 82.7  | 1.01                             | 103.3                               | 103.3  | 103.3 | 1.00                             |
| Southern                  | 82.8                              | 85.8   | 84.4  | 1.04                             | 105.4                               | 100.8  | 103.0 | 0.96                             |
| Western                   | 83.3                              | 82.5   | 82.9  | 0.99                             | 102.5                               | 98.0   | 100.2 | 0.96                             |
| <b>Wealth quintile</b>    |                                   |        |       |                                  |                                     |        |       |                                  |
| Lowest                    | 65.7                              | 72.0   | 68.9  | 1.10                             | 84.3                                | 87.1   | 85.7  | 1.03                             |
| Second                    | 72.5                              | 78.8   | 75.7  | 1.09                             | 94.4                                | 96.4   | 95.4  | 1.02                             |
| Middle                    | 79.2                              | 83.8   | 81.5  | 1.06                             | 99.4                                | 101.9  | 100.7 | 1.03                             |
| Fourth                    | 83.9                              | 84.6   | 84.2  | 1.01                             | 104.1                               | 100.5  | 102.3 | 0.97                             |
| Highest                   | 86.1                              | 83.6   | 84.8  | 0.97                             | 105.3                               | 106.2  | 105.8 | 1.01                             |
| Total                     | 77.0                              | 80.5   | 78.8  | 1.04                             | 97.1                                | 98.2   | 97.7  | 1.01                             |
| <b>SECONDARY SCHOOL</b>   |                                   |        |       |                                  |                                     |        |       |                                  |
| <b>Residence</b>          |                                   |        |       |                                  |                                     |        |       |                                  |
| Urban                     | 59.2                              | 53.1   | 55.9  | 0.90                             | 84.1                                | 77.9   | 80.8  | 0.93                             |
| Rural                     | 31.3                              | 26.0   | 28.7  | 0.83                             | 44.3                                | 36.2   | 40.4  | 0.82                             |
| <b>Province</b>           |                                   |        |       |                                  |                                     |        |       |                                  |
| Central                   | 35.2                              | 37.6   | 36.4  | 1.07                             | 50.8                                | 52.9   | 51.8  | 1.04                             |
| Copperbelt                | 55.1                              | 48.8   | 51.7  | 0.88                             | 77.0                                | 70.6   | 73.5  | 0.92                             |
| Eastern                   | 22.7                              | 19.9   | 21.3  | 0.88                             | 33.9                                | 26.1   | 30.2  | 0.77                             |
| Luapula                   | 33.8                              | 22.7   | 28.2  | 0.67                             | 50.0                                | 34.0   | 41.9  | 0.68                             |
| Lusaka                    | 58.5                              | 51.7   | 55.0  | 0.88                             | 79.8                                | 79.4   | 79.6  | 0.99                             |
| Muchinga                  | 32.7                              | 29.3   | 31.0  | 0.90                             | 45.0                                | 39.5   | 42.2  | 0.88                             |
| Northern                  | 43.2                              | 31.7   | 37.3  | 0.73                             | 63.9                                | 43.4   | 53.3  | 0.68                             |
| North Western             | 52.6                              | 45.9   | 48.9  | 0.87                             | 77.9                                | 65.9   | 71.3  | 0.85                             |
| Southern                  | 41.0                              | 39.5   | 40.4  | 0.96                             | 57.6                                | 57.0   | 57.4  | 0.99                             |
| Western                   | 38.7                              | 34.8   | 36.7  | 0.90                             | 53.8                                | 46.5   | 50.1  | 0.86                             |
| <b>Wealth quintile</b>    |                                   |        |       |                                  |                                     |        |       |                                  |
| Lowest                    | 12.7                              | 10.1   | 11.3  | 0.79                             | 21.1                                | 13.7   | 17.1  | 0.65                             |
| Second                    | 27.6                              | 21.9   | 24.8  | 0.79                             | 37.8                                | 29.1   | 33.6  | 0.77                             |
| Middle                    | 37.2                              | 36.5   | 36.8  | 0.98                             | 50.1                                | 48.3   | 49.2  | 0.96                             |
| Fourth                    | 51.0                              | 48.3   | 49.7  | 0.95                             | 70.6                                | 69.7   | 70.2  | 0.99                             |
| Highest                   | 73.0                              | 61.9   | 67.0  | 0.85                             | 107.2                               | 94.8   | 100.6 | 0.88                             |
| Total                     | 42.3                              | 37.9   | 40.0  | 0.90                             | 59.9                                | 54.5   | 57.2  | 0.91                             |

<sup>1</sup> The NAR for primary school is the percentage of the primary-school age (7-13 years) population that is attending primary school. The NAR for secondary school is the percentage of the secondary-school age (14-18 years) population that is attending secondary school. By definition the NAR cannot exceed 100.0 percent.

<sup>2</sup> The GAR for primary school is the total number of primary school students, expressed as a percentage of the official primary-school-age population. The GAR for secondary school is the total number of secondary school students, expressed as a percentage of the official secondary-school-age population. If there are significant numbers of overage and underage students at a given level of schooling, the GAR can exceed 100 percent.

<sup>3</sup> The Gender Parity Index for primary school is the ratio of the primary school NAR(GAR) for females to the NAR(GAR) for males. The Gender Parity Index for secondary school is the ratio of the secondary school NAR(GAR) for females to the NAR(GAR) for males.

**Table 2.14 Children under age 5 by highest level of education**

Percent distribution of children under age 5 by highest level of education attended, according to age, residence, and province, Zambia DHS 2018

| Background characteristic | Sex                   |                              |       |                    |                       |                              |       |                    |                       |                              | Number of children |  |
|---------------------------|-----------------------|------------------------------|-------|--------------------|-----------------------|------------------------------|-------|--------------------|-----------------------|------------------------------|--------------------|--|
|                           | Male                  |                              |       |                    | Female                |                              |       |                    | Total                 |                              |                    |  |
|                           | Never attended school | Highest level attended pre-K | Total | Number of children | Never attended school | Highest level attended pre-K | Total | Number of children | Never attended school | Highest level attended pre-K |                    |  |
| <b>Residence</b>          |                       |                              |       |                    |                       |                              |       |                    |                       |                              |                    |  |
| Urban                     | 71.5                  | 28.5                         | 100.0 | 1,020              | 72.9                  | 27.1                         | 100.0 | 1,081              | 72.2                  | 27.8                         | 100.0              |  |
| Rural                     | 95.1                  | 4.9                          | 100.0 | 1,958              | 93.3                  | 6.7                          | 100.0 | 1,959              | 94.2                  | 5.8                          | 100.0              |  |
| <b>Province</b>           |                       |                              |       |                    |                       |                              |       |                    |                       |                              |                    |  |
| Central                   | 90.8                  | 9.2                          | 100.0 | 262                | 85.9                  | 14.1                         | 100.0 | 270                | 88.3                  | 11.7                         | 100.0              |  |
| Copperbelt                | 72.1                  | 27.9                         | 100.0 | 409                | 78.4                  | 21.6                         | 100.0 | 379                | 75.1                  | 24.9                         | 100.0              |  |
| Eastern                   | 93.0                  | 7.0                          | 100.0 | 361                | 90.2                  | 9.8                          | 100.0 | 404                | 91.5                  | 8.5                          | 100.0              |  |
| Luapula                   | 94.4                  | 5.6                          | 100.0 | 296                | 92.7                  | 7.3                          | 100.0 | 291                | 93.6                  | 6.4                          | 100.0              |  |
| Lusaka                    | 70.9                  | 29.1                         | 100.0 | 443                | 68.5                  | 31.5                         | 100.0 | 494                | 69.7                  | 30.3                         | 100.0              |  |
| Muchinga                  | 96.6                  | 3.4                          | 100.0 | 193                | 95.7                  | 4.3                          | 100.0 | 182                | 96.1                  | 3.9                          | 100.0              |  |
| Northern                  | 96.4                  | 3.6                          | 100.0 | 279                | 92.3                  | 7.7                          | 100.0 | 265                | 94.4                  | 5.6                          | 100.0              |  |
| North Western             | 90.5                  | 9.5                          | 100.0 | 160                | 86.0                  | 14.0                         | 100.0 | 161                | 88.2                  | 11.8                         | 100.0              |  |
| Southern                  | 91.1                  | 8.9                          | 100.0 | 397                | 91.9                  | 8.1                          | 100.0 | 395                | 91.5                  | 8.5                          | 100.0              |  |
| Western                   | 94.7                  | 5.3                          | 100.0 | 177                | 97.3                  | 2.7                          | 100.0 | 201                | 96.0                  | 4.0                          | 100.0              |  |
| Total                     | 87.0                  | 13.0                         | 100.0 | 2,977              | 86.0                  | 14.0                         | 100.0 | 3,041              | 86.5                  | 13.5                         | 100.0              |  |
|                           |                       |                              |       |                    |                       |                              |       |                    |                       |                              | 6,018              |  |

**Table 2.15 School attendance by survivorship of parents**

Among de jure children age 10-14, the percentage attending school and the ratio of the percentage attending, by parental survival, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage attending school by survivorship of parents |  |  |                    |        | Ratio <sup>1</sup> |  |
|---------------------------|--|--|--|--------------------|--------|--------------------|--|
|                           | Both parents deceased                                  | Both parents alive and living with at least one parent |  |                    | Number |                    |  |
|                           |  | Number   | Both parents alive and living with at least one parent | Ratio <sup>1</sup> |        |                    |  |
| <b>Sex</b>                |  |  |  |                    |        |                    |  |
| Male                      | 77.4   | 102  | 84.9   | 3,489              | 0.9    |                    |  |
| Female                    | 80.4   | 107  | 90.4   | 3,407              | 0.9    |                    |  |
| <b>Residence</b>          |  |  |  |                    |        |                    |  |
| Urban                     | 89.7   | 73   | 93.1   | 2,365              | 1.0    |                    |  |
| Rural                     | 73.1   | 136  | 84.8   | 4,531              | 0.9    |                    |  |
| <b>Province</b>           |  |  |  |                    |        |                    |  |
| Central                   | (77.5)   | 28   | 84.1   | 604                | 0.9    |                    |  |
| Copperbelt                | (98.1)   | 30   | 91.6   | 809                | 1.1    |                    |  |
| Eastern                   | *  | 15   | 79.0   | 991                | 0.7    |                    |  |
| Luapula                   | (66.1)   | 29   | 81.5   | 630                | 0.8    |                    |  |
| Lusaka                    | *  | 30   | 93.2   | 1,050              | 1.0    |                    |  |
| Muchinga                  | *  | 12   | 87.5   | 469                | 0.8    |                    |  |
| Northern                  | (57.3)   | 26   | 87.0   | 641                | 0.7    |                    |  |
| North Western             | *  | 13   | 90.9   | 403                | 1.1    |                    |  |
| Southern                  | *  | 13   | 92.5   | 834                | 1.0    |                    |  |
| Western                   | *  | 15   | 88.4   | 465                | 1.0    |                    |  |
| <b>Wealth quintile</b>    |  |  |  |                    |        |                    |  |
| Lowest                    | 65.4   | 45   | 76.5   | 1,472              | 0.9    |                    |  |
| Second                    | 69.3   | 48   | 85.4   | 1,483              | 0.8    |                    |  |
| Middle                    | 80.1   | 42   | 88.6   | 1,514              | 0.9    |                    |  |
| Fourth                    | (95.1)   | 38   | 92.2   | 1,281              | 1.0    |                    |  |
| Highest                   | (90.5)   | 35   | 98.2   | 1,145              | 0.9    |                    |  |
| Total                     | 78.9   | 209  | 87.6   | 6,896              | 0.9    |                    |  |

Note: Table is based only on children who usually live in the household. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Ratio of the percentage with both parents deceased to the percentage with both parents alive and living with a parent

## CHARACTERISTICS OF RESPONDENTS

### Key Findings

- **Literacy:** Two-thirds (66%) of women and 82% of men age 15-49 are literate.
- **Exposure to mass media:** Only 5% of women and 13% of men have access to three specified types of mass media (newspaper, television, and radio) on a weekly basis.
- **Internet use:** Overall, 12% of women and 26% of men age 15-49 have used the internet in the past 12 months.
- **Employment:** Forty-five percent of women are currently employed, as compared with 75% of men age 15-49. Among those employed in the 12 months preceding the survey, 34% of women and 31% of men work in agriculture.
- **Health insurance:** Health insurance coverage is low, with only 2% of women and 3% of men age 15-49 having any type of health insurance.
- **Tobacco:** One percent of women and 19% of men age 15-49 smoke tobacco.

This chapter presents information on the demographic and socioeconomic characteristics of the survey respondents such as age, education, place of residence, marital status, employment, and wealth status. This information is useful for understanding the factors that affect use of reproductive health services, contraceptive use, and other health behaviours.

### 3.1 BASIC CHARACTERISTICS OF SURVEY RESPONDENTS

A total of 13,683 women age 15-49 and 12,132 men age 15-59 were interviewed in the 2018 ZDHS. **Table 3.1** shows the distribution of women and men age 15-49 interviewed by background characteristics. For the most part, the female and male populations have similar distributions. In both populations, the proportion of women and men in each age group decreases with increasing age, reflecting the comparatively young age structure of the population in Zambia.

A majority of women (81%) and men (80%) are Protestant. Seventeen percent of women and 19% of men are Catholic, while 1% of women and less than 1% of men are Muslim. **Table 3.1** shows that about 3 in 10 women (31%) and more than 4 in 10 men (46%) have never been married. More than half of women (55%) and 50% of men are currently married; 1% of women and less than 1% of men are living with someone as if married.

The data further show that female respondents are more likely than male respondents to be divorced or separated (10% versus 4%) or widowed (3% versus less than 1%).

More than half of women and men (53% and 55%, respectively) live in rural areas. By province, the largest proportion of female and male respondents (20% and 19%, respectively) live in Lusaka, while the

smallest proportion of women (5%) reside in North Western and the smallest proportion of men reside in North Western, Western, and Muchinga (5% each).

## 3.2 EDUCATION AND LITERACY

### Literacy

Respondents who have attended higher than secondary school are assumed to be literate. All other respondents, shown a typed sentence to read aloud, are considered literate if they could read all or part of the sentence.

**Sample:** Women and men age 15-49

Education is an important factor influencing an individual's attitudes and opportunities. **Tables 3.2.1** and **3.2.2** show that men have slightly greater educational attainment than women; the median number of years of schooling completed among men is 6.9, as compared with 6.8 among women. In addition, 8% of women have no formal education, compared with only 4% of men. Forty-four percent of women and 38% of men have attended or completed primary school, and 43% of women and 50% of men have attended or completed secondary school. Higher education is relatively rare; only 6% of women and 8% of men have attended or completed a higher education (**Figure 3.1**).

Literacy follows a similar pattern, with only 66% of women being literate, as compared with 82% of men (**Tables 3.3.1** and **3.3.2**).

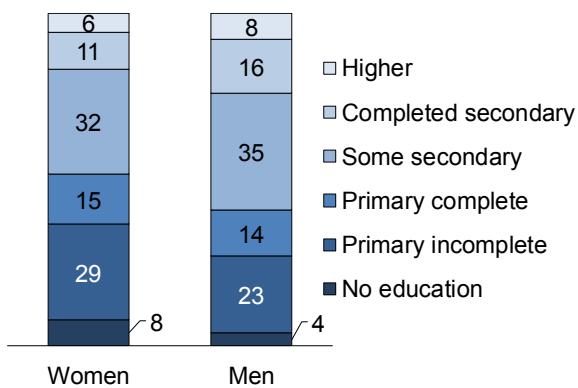
**Trends:** The percentage of women with a secondary or higher education increased from 28% in 1996 to 48% in 2018, with a corresponding increase among men (from 44% to 58%). The percentage of women (8%) and men (4%) with no education has remained constant since 2013-14.

### Patterns by background characteristics

- Urban women have on average completed more years of education (8.4) than their rural counterparts (5.7). A similar pattern is observed between urban (8.0) and rural (6.3) men.
- There is considerable provincial variation in educational attainment. The largest proportion of women with no education is found in Muchinga (15%), while the largest proportion of men with no education is found in Eastern (13%).

**Figure 3.1 Education of survey respondents**

*Percent distribution of women and men age 15-49 by highest level of schooling attended or completed*



- The proportion of respondents who have completed secondary school or higher increases with increasing wealth. Forty-five percent of women and 55% of men in the highest wealth quintile have completed secondary school or higher, as compared with 1% of women and 3% of men in the lowest wealth quintile (**Figure 3.2**).
- Literacy among women generally decreases with age, from 76% among those age 15-19 to 58% among those age 45-49 (**Table 3.3.1**).
- Respondents living in urban areas are more likely to be literate than those living in rural areas, although the gap in literacy rates between urban and rural populations is higher among women than among men. Eighty-one percent of urban women and 91% of urban men are literate, as compared with 54% of rural women and 74% of rural men.

### 3.3 MASS MEDIA EXPOSURE

#### Exposure to mass media

Respondents were asked how often they read a newspaper, listened to the radio, or watched television. Those who responded *at least once a week* are considered regularly exposed to that form of media.

**Sample:** Women and men age 15-49

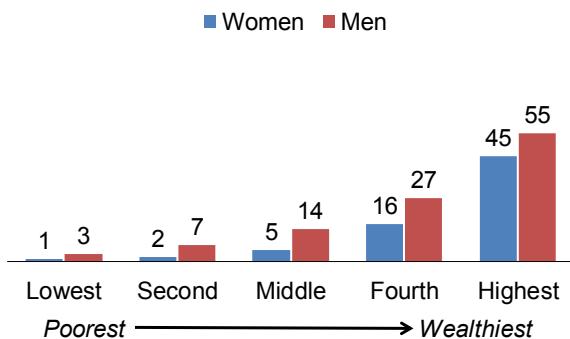
Access to information is essential in increasing people's knowledge and awareness of important issues. Data on women's and men's exposure to mass media are especially crucial in the development of health education programmes and the dissemination of information, particularly on family planning, nutrition, HIV/AIDS, and other essential topics.

Radio is the dominant medium of information for men, whereas television is the most dominant medium for women: 56% of men age 15-49 listen to the radio and 38% of women watch television at least once a week (**Tables 3.4.1** and **3.4.2**). Men are more likely (13%) than women (5%) to access all three forms of media (newspaper, television, and radio) on a weekly basis. Forty-six percent of women and 31% of men do not access any of the three media on a weekly basis (**Figure 3.3**).

The internet is also a critical tool through which people access and share information. Internet use includes accessing web pages, email, and social media. Among all women and men age 15-49, 12% and 26% have used the internet in the last 12 months, respectively. Of those who have accessed the internet in the past 12 months, a greater percentage of women (55%) than men (47%) use the internet on a daily basis (**Tables 3.5.1** and **3.5.2**).

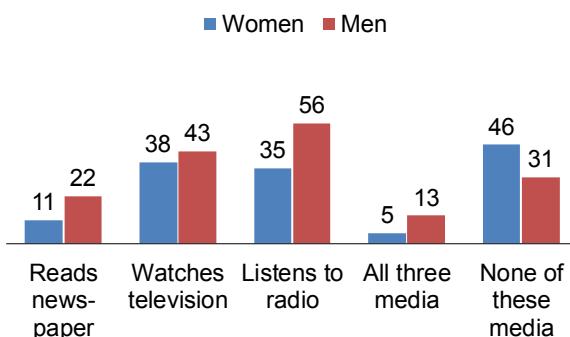
**Figure 3.2 Secondary education by household wealth**

Percentage of women and men age 15-49 with secondary education complete or higher



**Figure 3.3 Exposure to mass media**

Percentage of women and men age 15-49 who are exposed to media on a weekly basis



**Trends:** The percentage of women age 15-49 with no weekly access to mass media increased from 33% in 2007 and 34% in 2013-14 to 46% in 2018. Among men, the percentage increased from 19% in 2007 and 22% in 2013-14 to 31% in 2018.

#### Patterns by background characteristics

- Both men and women in urban areas are more likely to have accessed all three forms of mass media in the last week than those in rural areas (9% versus 2% among women and 22% versus 5% among men) (**Table 3.4.1** and **3.4.2**).
- Exposure to the three forms of mass media increases with increasing education. The proportion of women with exposure to all three forms of media rises from less than 1% among those with no education to 29% among those with a higher education. Among men, the corresponding increase is from less than 1% to 45%.
- Internet use in the last 12 months is more common in urban areas (22% of women and 44% of men) than in rural areas (3% of women and 11% of men) (**Tables 3.5.1** and **3.5.2**).
- Internet usage among women and men generally increases with increasing education and household wealth. Seventy-nine percent of women and 89% of men with a higher education used the internet in the past 12 months, as compared with 1% of women and 6% of men with no education. Similarly, 38% of women and 65% of men in the highest wealth quintile used the internet during the past 12 months, compared with less than 1% of women and 3% of men in the lowest wealth quintile.

## 3.4 EMPLOYMENT

### Currently employed

Respondents who were employed in the 7 days before the survey.

**Sample:** Women and men age 15-49

Men are more likely (75%) to be currently employed than women (45%) (**Tables 3.6.1** and **3.6.2**). Twenty-one percent of men and 48% of women were not employed in the 12 months preceding the survey.

**Trends:** The percentage of women who are currently employed decreased from 46% in 1996 to 45% in 2018. Among men, however, the percentage increased from 62% to 75% over the same period.

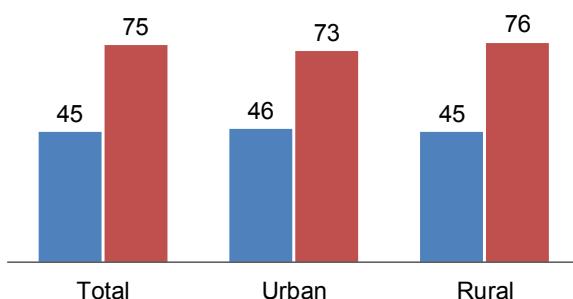
#### Patterns by background characteristics

- The percentage of men who are currently employed is highest in Muchinga (81%) and lowest in North Western (65%). Conversely, the percentage of women who are employed is highest in Luapula (57%) and lowest in Muchinga (33%).
- There are minor differences between urban and rural areas in the percentages of women and men who are currently employed (46% versus 45% for women and 73% versus 76% for men) (**Figure 3.4**).

**Figure 3.4 Employment status by residence**

Percentage of women and men age 15-49 who are currently employed

■ Women ■ Men



### 3.5 OCCUPATION

#### Occupation

Categorised as professional/technical/managerial, clerical, sales and services, skilled manual, unskilled manual, domestic service, agriculture, and other occupations.

**Sample:** Women and men age 15-49 who were currently employed or had worked in the 12 months before the survey

Roughly one in three women (34%) and men (31%) age 15-49 work in the agriculture sector. Among men, 20% work in skilled manual occupations and another 20% work in unskilled manual occupations (**Tables 3.7.1 and 3.7.2**). Thirty-five percent of women are engaged in sales and services, while 8% work in professional/technical/managerial jobs.

Nineteen percent of employed women in Zambia are not paid for the work they do. Women engaged in agricultural work are more likely (37%) than women not working in agriculture (9%) to not be paid for their work. Sixty-three percent of women who worked in the past year are self-employed (**Table 3.8.1**). Among men, 16% are not paid for their work. Similar to women, men engaged in agricultural work are more likely to not be paid (26%) than those not working in agriculture (11%) (**Table 3.8.2**).

**Trends:** The proportion of women employed in agriculture declined from 58% in 2001-2002 to 34% in 2018; the corresponding decrease among men was from 52% to 31%. The proportion of women and men working in professional, technical, and managerial occupations increased between 1996 and 2018 (from 5% to 8% among women and from 7% to 9% among men).

#### Patterns by background characteristics

- Urban women are more likely to work in sales and services (50%) than women in rural areas (22%), while urban men are more likely to be engaged in skilled manual occupations (31%) and sales and services (20%) than rural men (11% and 7%, respectively). In rural areas, however, the highest percentage of women and men work in agriculture (59% of women and 50% of men) (**Tables 3.7.1 and 3.7.2**).
- The proportion of women and men working in professional, technical, and managerial occupations rises sharply between the secondary and higher levels of education.

### 3.6 HEALTH INSURANCE COVERAGE

Only 2% of women and 3% of men age 15-49 have any type of health insurance (**Tables 3.9.1 and 3.9.2**).

**Trends:** The percentage of women without health insurance increased slightly from 97% in 2013-14 to 98% in 2018, while the percentage among men was 97% in both 2013-14 and 2018.

### 3.7 TOBACCO USE

One percent of women age 15-49 smoke any kind of tobacco (**Table 3.10.1**), as compared with 19% of men age 15-49 (**Table 3.10.2**). Fourteen percent of men smoke daily, and 5% are occasional smokers. Forty-nine percent of men who are daily smokers reported that they smoke on average less than five cigarettes per day (**Table 3.11**).

**Trends:** The percentage of men age 15-49 who smoke cigarettes increased from 15% in 2000-01 to 23% in 2007 before declining to 19% in both 2013-14 and 2018.

### **Patterns by background characteristics**

- The proportion of men who smoke any type of tobacco generally increases with age; only 3% of men age 15-19 smoke tobacco, as compared with 33% of those age 45-49.
- Men in Luapula are most likely to smoke cigarettes (25%), while those in Southern are least likely to do so (12%).
- Cigarette smoking among men decreases with increasing education, from 26% among those with no education to 8% among those with a higher education.

## **3.8 SURGERY**

The Lancet Commission on Global Surgery was created in 2013 with the objective of bringing to the forefront the issue of global surgery and anaesthesia as an integral part of universal access to health services. Its vision is centred on universal access to safe, affordable surgical and anaesthesia care when needed. Four dimensions of access are considered: timeliness, surgical capacity, safety, and affordability (Lancet Commission 2015).

Two of the indicators identified by the Lancet Commission were access to timely essential surgery and surgical volume. To collect data informing these indicators, five questions were added to the 2018 ZDHS for both women and men. In this report, information from only the first two questions is analysed. In the first question, respondents were asked “Have you ever undergone a surgical operation in the past 5 years?” If they responded yes, they were asked “What type of operation(s) were they?”

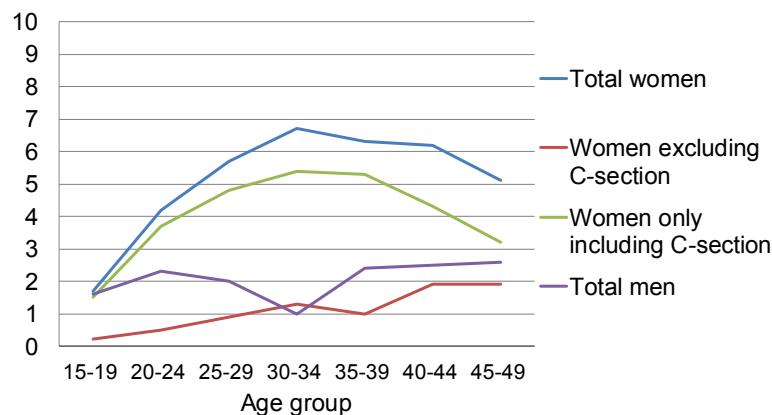
The results, presented in **Table 3.14**, show that 5% of women and 2% of men age 15-49 had an operation in the last 5 years. Among women, caesarean sections (C-sections) represented nearly four out of five surgeries undergone.

### **Patterns by background characteristics**

- Across all age groups, the percentage of women who had surgery is higher than the percentage among men, peaking at age 30-34 (7%), when C-sections are particularly common. However, when excluding C-sections, the percentages of men and women converge (**Figure 3.5**). This demonstrates that the greater use of surgery among women is largely due to C-sections.

**Figure 3.5 Use of surgery by age group**

*Percentage of women and men age 15-49 who underwent surgery in the last 5 years by age*



- More women in urban areas (6%) reported having surgery in the last 5 years than women in rural areas (4%). A similar pattern is observed by men (3% and 1%, respectively) (**Table 3.14**).
- The percentage of women who have undergone surgery differs by province, ranging from a high of 7% in Eastern to a low of 3% in Western. Among men, provincial differences are small.

- The higher a woman’s educational level, the more likely she is to have had surgery in the last 5 years. Thirteen percent of women with a higher education had surgery, as compared with 4% of women with no education or a primary education. The pattern among men is similar.
- Both women (7%) and men (4%) in the highest wealth quintile are more likely to have had surgery than those in the lowest quintile (3% and 1%, respectively).

## **LIST OF TABLES**

For more information on the characteristics of survey respondents, see the following tables:

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**Table 3.1 Background characteristics of respondents**

Percent distribution of women and men age 15-49 by selected background characteristics, Zambia DHS 2018

| Background characteristic | Women            |                 |                   | Men              |                 |                   |
|---------------------------|------------------|-----------------|-------------------|------------------|-----------------|-------------------|
|                           | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| <b>Age</b>                |                  |                 |                   |                  |                 |                   |
| 15-19                     | 21.9             | 3,000           | 3,112             | 24.9             | 2,781           | 2,852             |
| 20-24                     | 20.0             | 2,733           | 2,687             | 18.2             | 2,032           | 1,994             |
| 25-29                     | 16.4             | 2,237           | 2,166             | 15.4             | 1,721           | 1,630             |
| 30-34                     | 13.6             | 1,862           | 1,864             | 12.4             | 1,383           | 1,357             |
| 35-39                     | 12.4             | 1,697           | 1,622             | 11.5             | 1,280           | 1,282             |
| 40-44                     | 9.2              | 1,253           | 1,280             | 9.8              | 1,097           | 1,096             |
| 45-49                     | 6.6              | 900             | 952               | 7.9              | 883             | 893               |
| <b>Religion</b>           |                  |                 |                   |                  |                 |                   |
| Catholic                  | 17.2             | 2,354           | 2,351             | 18.7             | 2,089           | 2,048             |
| Protestant                | 81.1             | 11,098          | 11,138            | 79.8             | 8,917           | 8,889             |
| Muslim                    | 0.5              | 64              | 61                | 0.4              | 48              | 54                |
| Other                     | 1.2              | 167             | 133               | 1.1              | 123             | 113               |
| <b>Marital status</b>     |                  |                 |                   |                  |                 |                   |
| Never married             | 31.2             | 4,272           | 4,321             | 46.0             | 5,142           | 5,129             |
| Married                   | 55.4             | 7,580           | 7,544             | 49.6             | 5,545           | 5,497             |
| Living together           | 0.5              | 68              | 53                | 0.2              | 27              | 37                |
| Divorced/separated        | 10.0             | 1,370           | 1,366             | 3.7              | 418             | 404               |
| Widowed                   | 2.9              | 392             | 399               | 0.4              | 45              | 37                |
| <b>Residence</b>          |                  |                 |                   |                  |                 |                   |
| Urban                     | 46.6             | 6,374           | 5,513             | 44.8             | 5,013           | 4,191             |
| Rural                     | 53.4             | 7,309           | 8,170             | 55.2             | 6,165           | 6,913             |
| <b>Province</b>           |                  |                 |                   |                  |                 |                   |
| Central                   | 8.5              | 1,165           | 1,397             | 8.8              | 979             | 1,211             |
| Copperbelt                | 16.1             | 2,201           | 1,615             | 15.5             | 1,727           | 1,313             |
| Eastern                   | 11.7             | 1,605           | 1,536             | 13.2             | 1,476           | 1,346             |
| Luapula                   | 7.8              | 1,071           | 1,414             | 7.6              | 849             | 1,140             |
| Lusaka                    | 20.0             | 2,733           | 1,775             | 19.4             | 2,166           | 1,415             |
| Muchinga                  | 5.5              | 754             | 1,183             | 5.4              | 599             | 968               |
| Northern                  | 7.7              | 1,054           | 1,239             | 7.7              | 855             | 976               |
| North Western             | 5.2              | 718             | 1,081             | 5.0              | 556             | 847               |
| Southern                  | 11.5             | 1,574           | 1,347             | 12.5             | 1,395           | 1,117             |
| Western                   | 5.9              | 808             | 1,096             | 5.1              | 574             | 771               |
| <b>Education</b>          |                  |                 |                   |                  |                 |                   |
| No education              | 7.7              | 1,054           | 1,145             | 4.0              | 446             | 450               |
| Primary                   | 44.3             | 6,059           | 6,217             | 37.6             | 4,206           | 4,399             |
| Secondary                 | 42.5             | 5,816           | 5,556             | 50.3             | 5,618           | 5,387             |
| Higher                    | 5.5              | 755             | 765               | 8.1              | 907             | 868               |
| <b>Wealth quintile</b>    |                  |                 |                   |                  |                 |                   |
| Lowest                    | 17.8             | 2,442           | 2,844             | 16.3             | 1,827           | 2,133             |
| Second                    | 17.4             | 2,387           | 2,677             | 17.5             | 1,952           | 2,214             |
| Middle                    | 18.1             | 2,477           | 2,683             | 19.8             | 2,218           | 2,391             |
| Fourth                    | 22.0             | 3,011           | 2,559             | 22.8             | 2,552           | 2,090             |
| Highest                   | 24.6             | 3,367           | 2,920             | 23.5             | 2,629           | 2,276             |
| Total 15-49               | 100.0            | 13,683          | 13,683            | 100.0            | 11,177          | 11,104            |
| 50-59                     | na               | na              | na                | na               | 955             | 1,028             |
| Total 15-59               | na               | na              | na                | na               | 12,132          | 12,132            |

Note: Education categories refer to the highest level of education attended, whether or not that level was completed.  
na = Not applicable

**Table 3.2.1 Educational attainment: Women**

Percent distribution of women age 15-49 by highest level of schooling attended or completed, and median years completed, according to background characteristics, Zambia DHS 2018

| Background characteristic | Highest level of schooling |              |                                |                |                                  |        | Median years completed | Number of women |
|---------------------------|----------------------------|--------------|--------------------------------|----------------|----------------------------------|--------|------------------------|-----------------|
|                           | No education               | Some primary | Completed primary <sup>1</sup> | Some secondary | Completed secondary <sup>2</sup> | Higher |                        |                 |
| <b>Age</b>                |                            |              |                                |                |                                  |        |                        |                 |
| 15-24                     | 3.6                        | 25.6         | 13.4                           | 42.3           | 12.5                             | 2.6    | 100.0                  | 7.3             |
| 15-19                     | 3.3                        | 28.8         | 14.0                           | 47.5           | 6.1                              | 0.3    | 100.0                  | 7.0             |
| 20-24                     | 3.9                        | 22.2         | 12.7                           | 36.7           | 19.4                             | 5.1    | 100.0                  | 7.9             |
| 25-29                     | 6.6                        | 23.5         | 14.2                           | 31.7           | 14.9                             | 9.1    | 100.0                  | 7.4             |
| 30-34                     | 10.9                       | 31.6         | 13.9                           | 24.0           | 10.4                             | 9.3    | 100.0                  | 6.5             |
| 35-39                     | 11.8                       | 35.1         | 17.4                           | 23.2           | 5.5                              | 7.0    | 100.0                  | 6.2             |
| 40-44                     | 12.6                       | 36.2         | 19.8                           | 20.4           | 5.5                              | 5.5    | 100.0                  | 6.1             |
| 45-49                     | 15.4                       | 38.6         | 21.3                           | 16.8           | 3.3                              | 4.7    | 100.0                  | 5.6             |
| <b>Residence</b>          |                            |              |                                |                |                                  |        |                        |                 |
| Urban                     | 3.3                        | 14.0         | 13.9                           | 40.6           | 18.5                             | 9.7    | 100.0                  | 8.4             |
| Rural                     | 11.5                       | 42.2         | 16.3                           | 24.6           | 3.5                              | 1.8    | 100.0                  | 5.7             |
| <b>Province</b>           |                            |              |                                |                |                                  |        |                        |                 |
| Central                   | 6.2                        | 26.0         | 19.1                           | 34.3           | 10.4                             | 4.0    | 100.0                  | 6.9             |
| Copperbelt                | 2.7                        | 15.9         | 16.2                           | 38.2           | 18.5                             | 8.5    | 100.0                  | 8.3             |
| Eastern                   | 13.2                       | 51.0         | 9.9                            | 19.5           | 3.5                              | 2.9    | 100.0                  | 4.9             |
| Luapula                   | 11.0                       | 43.1         | 13.3                           | 24.3           | 5.0                              | 3.3    | 100.0                  | 5.6             |
| Lusaka                    | 4.6                        | 14.4         | 13.9                           | 40.0           | 16.8                             | 10.3   | 100.0                  | 8.3             |
| Muchinga                  | 15.4                       | 36.6         | 16.9                           | 24.5           | 4.7                              | 1.9    | 100.0                  | 5.8             |
| Northern                  | 10.9                       | 48.1         | 13.0                           | 21.9           | 3.8                              | 2.2    | 100.0                  | 5.2             |
| North Western             | 7.8                        | 31.6         | 7.7                            | 35.5           | 11.3                             | 6.0    | 100.0                  | 6.7             |
| Southern                  | 4.4                        | 23.7         | 23.9                           | 36.7           | 7.6                              | 3.6    | 100.0                  | 6.9             |
| Western                   | 13.3                       | 33.2         | 15.2                           | 28.4           | 7.0                              | 2.8    | 100.0                  | 6.2             |
| <b>Wealth quintile</b>    |                            |              |                                |                |                                  |        |                        |                 |
| Lowest                    | 19.1                       | 53.0         | 14.3                           | 12.9           | 0.7                              | 0.0    | 100.0                  | 4.1             |
| Second                    | 11.6                       | 45.9         | 17.2                           | 23.4           | 1.9                              | 0.0    | 100.0                  | 5.5             |
| Middle                    | 6.2                        | 33.8         | 19.6                           | 35.0           | 5.0                              | 0.4    | 100.0                  | 6.4             |
| Fourth                    | 4.0                        | 18.0         | 17.9                           | 44.4           | 13.1                             | 2.7    | 100.0                  | 7.6             |
| Highest                   | 1.2                        | 6.3          | 8.7                            | 38.8           | 25.4                             | 19.6   | 100.0                  | 10.2            |
| Total                     | 7.7                        | 29.1         | 15.2                           | 32.0           | 10.5                             | 5.5    | 100.0                  | 6.8             |
|                           |                            |              |                                |                |                                  |        |                        | 13,683          |

<sup>1</sup> Completed grade 7 at the primary level

<sup>2</sup> Completed grade 12 at the secondary level

**Table 3.2.2 Educational attainment: Men**

Percent distribution of men age 15-49 by highest level of schooling attended or completed, and median years completed, according to background characteristics, Zambia DHS 2018

| Background characteristic | Highest level of schooling |              |                                |                |                                  |        | Median years completed | Number of men |
|---------------------------|----------------------------|--------------|--------------------------------|----------------|----------------------------------|--------|------------------------|---------------|
|                           | No education               | Some primary | Completed primary <sup>1</sup> | Some secondary | Completed secondary <sup>2</sup> | Higher |                        |               |
| <b>Age</b>                |                            |              |                                |                |                                  |        |                        |               |
| 15-24                     | 3.0                        | 25.2         | 13.0                           | 42.6           | 13.3                             | 2.9    | 100.0                  | 6.7           |
| 15-19                     | 2.7                        | 32.5         | 13.7                           | 46.7           | 4.2                              | 0.2    | 100.0                  | 6.3           |
| 20-24                     | 3.5                        | 15.1         | 12.1                           | 37.0           | 25.8                             | 6.6    | 100.0                  | 7.6           |
| 25-29                     | 2.5                        | 14.9         | 12.6                           | 35.1           | 22.3                             | 12.6   | 100.0                  | 7.5           |
| 30-34                     | 5.6                        | 19.9         | 13.9                           | 26.9           | 21.3                             | 12.4   | 100.0                  | 7.2           |
| 35-39                     | 5.7                        | 22.7         | 15.6                           | 28.2           | 15.1                             | 12.7   | 100.0                  | 6.8           |
| 40-44                     | 5.3                        | 27.5         | 19.3                           | 26.0           | 10.8                             | 11.2   | 100.0                  | 6.7           |
| 45-49                     | 5.5                        | 29.0         | 19.1                           | 24.5           | 11.3                             | 10.6   | 100.0                  | 6.6           |
| <b>Residence</b>          |                            |              |                                |                |                                  |        |                        |               |
| Urban                     | 1.5                        | 10.0         | 11.1                           | 38.9           | 24.4                             | 14.2   | 100.0                  | 8.0           |
| Rural                     | 6.0                        | 33.9         | 17.1                           | 31.5           | 8.3                              | 3.2    | 100.0                  | 6.3           |
| <b>Province</b>           |                            |              |                                |                |                                  |        |                        |               |
| Central                   | 2.8                        | 23.3         | 18.8                           | 33.6           | 14.2                             | 7.4    | 100.0                  | 6.9           |
| Copperbelt                | 1.6                        | 12.7         | 10.0                           | 39.5           | 23.7                             | 12.6   | 100.0                  | 7.8           |
| Eastern                   | 13.1                       | 39.4         | 11.4                           | 23.3           | 8.6                              | 4.0    | 100.0                  | 5.5           |
| Luapula                   | 4.2                        | 32.7         | 14.9                           | 32.8           | 10.4                             | 5.0    | 100.0                  | 6.4           |
| Lusaka                    | 1.6                        | 10.8         | 13.9                           | 36.5           | 23.0                             | 14.1   | 100.0                  | 7.8           |
| Muchinga                  | 3.4                        | 31.2         | 16.2                           | 37.8           | 8.4                              | 3.0    | 100.0                  | 6.4           |
| Northern                  | 3.5                        | 30.7         | 18.1                           | 35.7           | 8.6                              | 3.4    | 100.0                  | 6.5           |
| North Western             | 2.5                        | 22.8         | 8.8                            | 40.0           | 15.9                             | 10.0   | 100.0                  | 6.9           |
| Southern                  | 2.2                        | 20.1         | 19.6                           | 38.8           | 13.3                             | 6.0    | 100.0                  | 6.8           |
| Western                   | 5.6                        | 34.0         | 15.3                           | 28.8           | 12.2                             | 4.0    | 100.0                  | 6.3           |
| <b>Wealth quintile</b>    |                            |              |                                |                |                                  |        |                        |               |
| Lowest                    | 10.6                       | 45.2         | 17.6                           | 23.2           | 3.3                              | 0.0    | 100.0                  | 5.4           |
| Second                    | 5.2                        | 38.3         | 17.2                           | 32.4           | 6.4                              | 0.5    | 100.0                  | 6.1           |
| Middle                    | 3.6                        | 25.6         | 19.1                           | 37.7           | 12.4                             | 1.5    | 100.0                  | 6.6           |
| Fourth                    | 2.1                        | 13.5         | 14.5                           | 43.3           | 20.6                             | 5.9    | 100.0                  | 7.3           |
| Highest                   | 0.6                        | 4.0          | 6.2                            | 33.8           | 28.3                             | 27.1   | 100.0                  | 10.2          |
| Total 15-49               | 4.0                        | 23.2         | 14.4                           | 34.8           | 15.5                             | 8.1    | 100.0                  | 6.9           |
| 50-59                     | 4.8                        | 27.0         | 27.1                           | 22.9           | 8.6                              | 9.7    | 100.0                  | 6.6           |
| Total 15-59               | 4.1                        | 23.5         | 15.4                           | 33.8           | 14.9                             | 8.2    | 100.0                  | 6.8           |
|                           |                            |              |                                |                |                                  |        |                        | 12,132        |

<sup>1</sup> Completed grade 7 at the primary level

<sup>2</sup> Completed grade 12 at the secondary level

**Table 3.3.1 Literacy: Women**

Percent distribution of women age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Zambia DHS 2018

| Background characteristic | Higher than secondary schooling | No schooling, primary or secondary school |                             |                    |                                |                         | Total | Percentage literate <sup>1</sup> | Number of women |
|---------------------------|---------------------------------|---|-----------------------------|--------------------|--------------------------------|-------------------------|-------|----------------------------------|-----------------|
|                           |                                 | Can read a whole sentence                 | Can read part of a sentence | Cannot read at all | No card with required language | Blind/visually impaired |       |                                  |                 |
| <b>Age</b>                |                                 |   |                             |                    |                                |                         |       |                                  |                 |
| 15-24                     | 2.6                             | 53.0                                      | 17.5                        | 26.8               | 0.0                            | 0.0                     | 100.0 | 73.1                             | 5,733           |
| 15-19                     | 0.3                             | 57.1                                      | 18.3                        | 24.2               | 0.0                            | 0.0                     | 100.0 | 75.7                             | 3,000           |
| 20-24                     | 5.1                             | 48.6                                      | 16.5                        | 29.7               | 0.0                            | 0.1                     | 100.0 | 70.2                             | 2,733           |
| 25-29                     | 9.1                             | 42.2                                      | 16.0                        | 32.7               | 0.0                            | 0.0                     | 100.0 | 67.2                             | 2,237           |
| 30-34                     | 9.3                             | 36.0                                      | 16.7                        | 38.0               | 0.0                            | 0.0                     | 100.0 | 62.0                             | 1,862           |
| 35-39                     | 7.0                             | 34.3                                      | 15.8                        | 42.8               | 0.0                            | 0.1                     | 100.0 | 57.1                             | 1,697           |
| 40-44                     | 5.5                             | 37.6                                      | 16.1                        | 40.6               | 0.2                            | 0.1                     | 100.0 | 59.1                             | 1,253           |
| 45-49                     | 4.7                             | 39.7                                      | 13.9                        | 41.5               | 0.0                            | 0.3                     | 100.0 | 58.3                             | 900             |
| <b>Residence</b>          |                                 |   |                             |                    |                                |                         |       |                                  |                 |
| Urban                     | 9.7                             | 51.1                                      | 19.7                        | 19.4               | 0.0                            | 0.1                     | 100.0 | 80.5                             | 6,374           |
| Rural                     | 1.8                             | 38.4                                      | 13.8                        | 45.8               | 0.0                            | 0.1                     | 100.0 | 54.1                             | 7,309           |
| <b>Province</b>           |                                 |   |                             |                    |                                |                         |       |                                  |                 |
| Central                   | 4.0                             | 49.4                                      | 20.4                        | 26.1               | 0.0                            | 0.0                     | 100.0 | 73.9                             | 1,165           |
| Copperbelt                | 8.5                             | 51.6                                      | 17.0                        | 22.8               | 0.0                            | 0.1                     | 100.0 | 77.1                             | 2,201           |
| Eastern                   | 2.9                             | 35.6                                      | 11.2                        | 50.1               | 0.0                            | 0.1                     | 100.0 | 49.7                             | 1,605           |
| Luapula                   | 3.3                             | 34.6                                      | 12.4                        | 49.6               | 0.0                            | 0.0                     | 100.0 | 50.4                             | 1,071           |
| Lusaka                    | 10.3                            | 43.1                                      | 26.6                        | 19.9               | 0.1                            | 0.0                     | 100.0 | 80.0                             | 2,733           |
| Muchinga                  | 1.9                             | 35.2                                      | 15.2                        | 47.3               | 0.3                            | 0.2                     | 100.0 | 52.2                             | 754             |
| Northern                  | 2.2                             | 34.6                                      | 10.4                        | 52.6               | 0.0                            | 0.2                     | 100.0 | 47.3                             | 1,054           |
| North Western             | 6.0                             | 46.8                                      | 11.7                        | 35.6               | 0.0                            | 0.0                     | 100.0 | 64.4                             | 718             |
| Southern                  | 3.6                             | 56.1                                      | 12.5                        | 27.7               | 0.0                            | 0.1                     | 100.0 | 72.2                             | 1,574           |
| Western                   | 2.8                             | 47.5                                      | 13.0                        | 36.7               | 0.0                            | 0.0                     | 100.0 | 63.3                             | 808             |
| <b>Wealth quintile</b>    |                                 |   |                             |                    |                                |                         |       |                                  |                 |
| Lowest                    | 0.0                             | 24.7                                      | 12.2                        | 63.1               | 0.0                            | 0.0                     | 100.0 | 36.9                             | 2,442           |
| Second                    | 0.0                             | 36.8                                      | 13.9                        | 49.1               | 0.1                            | 0.1                     | 100.0 | 50.8                             | 2,387           |
| Middle                    | 0.4                             | 48.6                                      | 16.8                        | 34.1               | 0.0                            | 0.1                     | 100.0 | 65.8                             | 2,477           |
| Fourth                    | 2.7                             | 50.9                                      | 21.7                        | 24.6               | 0.1                            | 0.1                     | 100.0 | 75.3                             | 3,011           |
| Highest                   | 19.6                            | 54.9                                      | 16.8                        | 8.6                | 0.0                            | 0.1                     | 100.0 | 91.3                             | 3,367           |
| Total                     | 5.5                             | 44.3                                      | 16.5                        | 33.5               | 0.0                            | 0.1                     | 100.0 | 66.4                             | 13,683          |

<sup>1</sup> Refers to women who attended schooling higher than the secondary level and women who can read a whole sentence or part of a sentence

**Table 3.3.2 Literacy: Men**

Percent distribution of men age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Zambia DHS 2018

| Background characteristic | Higher than secondary schooling | No schooling, primary or secondary school |                             |                    |                                |                         | Total | Percentage literate <sup>1</sup> | Number of men |
|---------------------------|---------------------------------|---|-----------------------------|--------------------|--------------------------------|-------------------------|-------|----------------------------------|---------------|
|                           |                                 | Can read a whole sentence                 | Can read part of a sentence | Cannot read at all | No card with required language | Blind/visually impaired |       |                                  |               |
| <b>Age</b>                |                                 |   |                             |                    |                                |                         |       |                                  |               |
| 15-24                     | 2.9                             | 61.1                                      | 18.5                        | 17.4               | 0.0                            | 0.0                     | 100.0 | 82.5                             | 4,813         |
| 15-19                     | 0.2                             | 61.1                                      | 20.0                        | 18.6               | 0.0                            | 0.0                     | 100.0 | 81.4                             | 2,781         |
| 20-24                     | 6.6                             | 61.0                                      | 16.5                        | 15.8               | 0.1                            | 0.1                     | 100.0 | 84.0                             | 2,032         |
| 25-29                     | 12.6                            | 56.4                                      | 16.9                        | 13.8               | 0.3                            | 0.0                     | 100.0 | 86.0                             | 1,721         |
| 30-34                     | 12.4                            | 53.6                                      | 15.5                        | 18.3               | 0.1                            | 0.1                     | 100.0 | 81.6                             | 1,383         |
| 35-39                     | 12.7                            | 50.1                                      | 17.3                        | 18.5               | 1.0                            | 0.4                     | 100.0 | 80.2                             | 1,280         |
| 40-44                     | 11.2                            | 50.1                                      | 16.3                        | 22.4               | 0.0                            | 0.0                     | 100.0 | 77.6                             | 1,097         |
| 45-49                     | 10.6                            | 51.8                                      | 15.1                        | 22.2               | 0.0                            | 0.3                     | 100.0 | 77.5                             | 883           |
| <b>Residence</b>          |                                 |   |                             |                    |                                |                         |       |                                  |               |
| Urban                     | 14.2                            | 62.3                                      | 14.5                        | 8.6                | 0.4                            | 0.0                     | 100.0 | 91.0                             | 5,013         |
| Rural                     | 3.2                             | 51.5                                      | 19.5                        | 25.6               | 0.0                            | 0.1                     | 100.0 | 74.3                             | 6,165         |
| <b>Province</b>           |                                 |   |                             |                    |                                |                         |       |                                  |               |
| Central                   | 7.4                             | 34.4                                      | 35.9                        | 22.4               | 0.0                            | 0.0                     | 100.0 | 77.6                             | 979           |
| Copperbelt                | 12.6                            | 63.0                                      | 14.3                        | 10.0               | 0.0                            | 0.2                     | 100.0 | 89.8                             | 1,727         |
| Eastern                   | 4.0                             | 46.6                                      | 16.0                        | 33.2               | 0.1                            | 0.1                     | 100.0 | 66.7                             | 1,476         |
| Luapula                   | 5.0                             | 62.1                                      | 13.2                        | 19.5               | 0.0                            | 0.2                     | 100.0 | 80.4                             | 849           |
| Lusaka                    | 14.1                            | 60.8                                      | 14.7                        | 10.0               | 0.3                            | 0.0                     | 100.0 | 89.6                             | 2,166         |
| Muchinga                  | 3.0                             | 52.9                                      | 20.7                        | 23.2               | 0.0                            | 0.2                     | 100.0 | 76.6                             | 599           |
| Northern                  | 3.4                             | 61.6                                      | 17.9                        | 16.8               | 0.0                            | 0.3                     | 100.0 | 83.0                             | 855           |
| North Western             | 10.0                            | 57.3                                      | 13.4                        | 19.4               | 0.0                            | 0.0                     | 100.0 | 80.6                             | 556           |
| Southern                  | 6.0                             | 58.7                                      | 18.3                        | 16.1               | 0.8                            | 0.1                     | 100.0 | 83.0                             | 1,395         |
| Western                   | 4.0                             | 63.4                                      | 10.6                        | 22.0               | 0.0                            | 0.1                     | 100.0 | 77.9                             | 574           |
| <b>Wealth quintile</b>    |                                 |   |                             |                    |                                |                         |       |                                  |               |
| Lowest                    | 0.0                             | 43.2                                      | 20.5                        | 36.1               | 0.1                            | 0.1                     | 100.0 | 63.7                             | 1,827         |
| Second                    | 0.5                             | 52.6                                      | 19.9                        | 26.9               | 0.0                            | 0.2                     | 100.0 | 72.9                             | 1,952         |
| Middle                    | 1.5                             | 59.2                                      | 19.5                        | 19.7               | 0.0                            | 0.1                     | 100.0 | 80.2                             | 2,218         |
| Fourth                    | 5.9                             | 63.0                                      | 19.6                        | 10.9               | 0.5                            | 0.0                     | 100.0 | 88.6                             | 2,552         |
| Highest                   | 27.1                            | 59.6                                      | 9.0                         | 4.0                | 0.2                            | 0.1                     | 100.0 | 95.7                             | 2,629         |
| Total 15-49               | 8.1                             | 56.4                                      | 17.3                        | 17.9               | 0.2                            | 0.1                     | 100.0 | 81.8                             | 11,177        |
| 50-59                     | 9.7                             | 56.5                                      | 16.6                        | 17.0               | 0.0                            | 0.2                     | 100.0 | 82.8                             | 955           |
| Total 15-59               | 8.2                             | 56.4                                      | 17.2                        | 17.9               | 0.2                            | 0.1                     | 100.0 | 81.9                             | 12,132        |

<sup>1</sup> Refers to men who attended schooling higher than the secondary level and men who can read a whole sentence or part of a sentence

**Table 3.4.1 Exposure to mass media: Women**

Percentage of women age 15-49 who are exposed to specific media on a weekly basis, according to background characteristics, Zambia DHS 2018

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Number of women |
|---------------------------|--|---|---|---|---|-----------------|
| <b>Age</b>                |  |   |   |   |   |                 |
| 15-19                     | 12.4                                   | 36.8                                    | 29.5                                      | 4.8   | 47.5  | 3,000           |
| 20-24                     | 10.1                                   | 37.9                                    | 33.1                                      | 4.3   | 46.0  | 2,733           |
| 25-29                     | 10.4                                   | 40.4                                    | 37.6                                      | 5.2   | 43.3  | 2,237           |
| 30-34                     | 10.4                                   | 43.2                                    | 38.4                                      | 6.0   | 42.1  | 1,862           |
| 35-39                     | 10.1                                   | 37.3                                    | 35.9                                      | 5.3   | 46.2  | 1,697           |
| 40-44                     | 9.2                                    | 35.2                                    | 36.0                                      | 5.4   | 48.6  | 1,253           |
| 45-49                     | 11.3                                   | 28.5                                    | 34.9                                      | 4.9   | 52.5  | 900             |
| <b>Residence</b>          |  |   |   |   |   |                 |
| Urban                     | 14.8                                   | 67.0                                    | 43.6                                      | 9.1   | 23.8  | 6,374           |
| Rural                     | 7.1                                    | 12.4                                    | 26.6                                      | 1.5   | 65.4  | 7,309           |
| <b>Province</b>           |  |   |   |   |   |                 |
| Central                   | 11.1                                   | 30.7                                    | 38.6                                      | 4.0   | 46.7  | 1,165           |
| Copperbelt                | 14.5                                   | 62.8                                    | 42.2                                      | 8.3   | 25.4  | 2,201           |
| Eastern                   | 16.6                                   | 19.0                                    | 33.7                                      | 3.6   | 51.6  | 1,605           |
| Luapula                   | 6.2                                    | 22.3                                    | 43.3                                      | 2.6   | 47.8  | 1,071           |
| Lusaka                    | 15.2                                   | 72.9                                    | 43.1                                      | 10.7  | 21.4  | 2,733           |
| Muchinga                  | 7.5                                    | 17.3                                    | 31.2                                      | 1.7   | 61.7  | 754             |
| Northern                  | 4.1                                    | 15.4                                    | 24.6                                      | 1.5   | 68.4  | 1,054           |
| North Western             | 1.0                                    | 18.9                                    | 11.8                                      | 0.4   | 77.4  | 718             |
| Southern                  | 5.3                                    | 22.8                                    | 27.0                                      | 2.3   | 60.9  | 1,574           |
| Western                   | 9.4                                    | 14.4                                    | 19.7                                      | 2.3   | 70.7  | 808             |
| <b>Education</b>          |  |   |   |   |   |                 |
| No education              | 0.3                                    | 12.5                                    | 21.9                                      | 0.0   | 72.0  | 1,054           |
| Primary                   | 4.6                                    | 20.4                                    | 26.5                                      | 0.9   | 60.9  | 6,059           |
| Secondary                 | 15.0                                   | 54.0                                    | 42.0                                      | 7.2   | 31.1  | 5,816           |
| Higher                    | 40.5                                   | 88.5                                    | 59.1                                      | 28.9  | 5.8   | 755             |
| <b>Wealth quintile</b>    |  |   |   |   |   |                 |
| Lowest                    | 4.7                                    | 3.3                                     | 16.6                                      | 0.3   | 79.0  | 2,442           |
| Second                    | 6.0                                    | 4.6                                     | 25.3                                      | 0.4   | 69.8  | 2,387           |
| Middle                    | 7.3                                    | 11.6                                    | 30.4                                      | 1.3   | 62.8  | 2,477           |
| Fourth                    | 8.9                                    | 54.1                                    | 39.1                                      | 4.2   | 32.1  | 3,011           |
| Highest                   | 22.4                                   | 91.2                                    | 52.9                                      | 15.4  | 5.4   | 3,367           |
| Total                     | 10.7                                   | 37.8                                    | 34.5                                      | 5.1   | 46.0  | 13,683          |

**Table 3.4.2 Exposure to mass media: Men**

Percentage of men age 15-49 who are exposed to specific media on a weekly basis, according to background characteristics, Zambia DHS 2018

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Number of men |
|---------------------------|--|---|---|---|---|---------------|
| <b>Age</b>                |  |   |   |   |   |               |
| 15-19                     | 15.8                                   | 42.0                                    | 48.5                                      | 7.3   | 35.2  | 2,781         |
| 20-24                     | 20.9                                   | 43.2                                    | 53.0                                      | 10.1  | 32.7  | 2,032         |
| 25-29                     | 23.7                                   | 44.1                                    | 58.0                                      | 12.9  | 28.7  | 1,721         |
| 30-34                     | 26.6                                   | 43.4                                    | 59.3                                      | 16.7  | 29.1  | 1,383         |
| 35-39                     | 27.2                                   | 46.9                                    | 63.1                                      | 17.9  | 25.8  | 1,280         |
| 40-44                     | 24.2                                   | 42.4                                    | 62.0                                      | 15.9  | 28.2  | 1,097         |
| 45-49                     | 24.4                                   | 40.8                                    | 59.0                                      | 14.9  | 30.6  | 883           |
| <b>Residence</b>          |  |   |   |   |   |               |
| Urban                     | 30.0                                   | 72.7                                    | 65.1                                      | 22.3  | 15.2  | 5,013         |
| Rural                     | 15.7                                   | 19.3                                    | 48.4                                      | 4.5   | 43.6  | 6,165         |
| <b>Province</b>           |  |   |   |   |   |               |
| Central                   | 24.4                                   | 35.8                                    | 61.0                                      | 10.0  | 28.7  | 979           |
| Copperbelt                | 27.4                                   | 65.0                                    | 60.7                                      | 18.8  | 19.0  | 1,727         |
| Eastern                   | 24.8                                   | 24.5                                    | 48.1                                      | 7.6   | 41.1  | 1,476         |
| Luapula                   | 23.6                                   | 27.3                                    | 61.5                                      | 10.2  | 31.5  | 849           |
| Lusaka                    | 33.9                                   | 79.0                                    | 68.5                                      | 26.9  | 11.9  | 2,166         |
| Muchinga                  | 24.4                                   | 16.3                                    | 50.5                                      | 8.2   | 45.9  | 599           |
| Northern                  | 6.4                                    | 23.7                                    | 58.3                                      | 2.7   | 35.1  | 855           |
| North Western             | 6.7                                    | 27.3                                    | 21.7                                      | 2.5   | 62.3  | 556           |
| Southern                  | 10.0                                   | 34.7                                    | 56.8                                      | 6.0   | 32.9  | 1,395         |
| Western                   | 13.6                                   | 20.2                                    | 30.5                                      | 3.9   | 57.2  | 574           |
| <b>Education</b>          |  |   |   |   |   |               |
| No education              | 3.5                                    | 16.4                                    | 36.5                                      | 0.3   | 56.5  | 446           |
| Primary                   | 11.8                                   | 23.5                                    | 46.9                                      | 3.9   | 44.5  | 4,206         |
| Secondary                 | 25.8                                   | 52.7                                    | 61.4                                      | 14.7  | 22.8  | 5,618         |
| Higher                    | 56.1                                   | 89.3                                    | 73.0                                      | 44.6  | 4.9   | 907           |
| <b>Wealth quintile</b>    |  |   |   |   |   |               |
| Lowest                    | 11.4                                   | 6.2                                     | 34.8                                      | 1.3   | 59.9  | 1,827         |
| Second                    | 16.3                                   | 10.0                                    | 47.5                                      | 3.0   | 46.4  | 1,952         |
| Middle                    | 16.3                                   | 22.8                                    | 55.5                                      | 4.9   | 37.1  | 2,218         |
| Fourth                    | 23.5                                   | 62.7                                    | 63.2                                      | 16.0  | 19.3  | 2,552         |
| Highest                   | 37.4                                   | 91.9                                    | 70.2                                      | 30.3  | 5.1   | 2,629         |
| Total 15-49               | 22.1                                   | 43.2                                    | 55.9                                      | 12.5  | 30.9  | 11,177        |
| 50-59                     | 24.8                                   | 34.1                                    | 60.0                                      | 13.2  | 31.2  | 955           |
| Total 15-59               | 22.3                                   | 42.5                                    | 56.2                                      | 12.5  | 30.9  | 12,132        |

**Table 3.5.1 Internet usage: Women**

Percentage of women age 15-49 who have ever used the internet and percentage who have used the internet in the past 12 months, and among women who have used the internet in the past 12 months, percent distribution by frequency of internet use in the past month, according to background characteristics, Zambia DHS 2018

| Background characteristic | Ever used the internet | Used the internet in the past 12 months | Number | Among respondents who have used the internet in the past 12 months, percentage who, in the past month, used the internet: |                      |                       |            |         |         | Total | Number |  |
|---------------------------|------------------------|---|--------|---|----------------------|-----------------------|------------|---------|---------|-------|--------|--|
|                           |                        |   |        | Almost every day  | At least once a week | Less than once a week | Not at all | Missing |         |       |        |  |
| <b>Age</b>                |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| 15-19                     | 10.5                   | 9.2                                     | 3,000  | 39.6  | 34.2                 | 24.1                  | 2.1        | 0.0     | 100.0   | 275   |        |  |
| 20-24                     | 19.2                   | 17.5                                    | 2,733  | 55.7  | 29.1                 | 11.8                  | 3.4        | 0.0     | 100.0   | 478   |        |  |
| 25-29                     | 17.6                   | 15.7                                    | 2,237  | 59.3  | 28.5                 | 10.3                  | 1.9        | 0.0     | 100.0   | 351   |        |  |
| 30-34                     | 14.7                   | 13.6                                    | 1,862  | 58.6  | 23.1                 | 15.4                  | 2.9        | 0.0     | 100.0   | 253   |        |  |
| 35-39                     | 10.1                   | 9.4                                     | 1,697  | 60.1  | 25.7                 | 13.7                  | 0.5        | 0.0     | 100.0   | 159   |        |  |
| 40-44                     | 7.8                    | 7.1                                     | 1,253  | 52.1  | 28.3                 | 17.2                  | 2.4        | 0.0     | 100.0   | 89    |        |  |
| 45-49                     | 5.4                    | 4.9                                     | 900    | (72.6)  | (16.8)               | (6.9)                 | (3.7)      | (0.0)   | (100.0) | 44    |        |  |
| <b>Residence</b>          |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| Urban                     | 24.4                   | 22.2                                    | 6,374  | 56.5  | 28.1                 | 13.2                  | 2.2        | 0.0     | 100.0   | 1,418 |        |  |
| Rural                     | 3.8                    | 3.2                                     | 7,309  | 44.8  | 28.8                 | 22.2                  | 4.3        | 0.0     | 100.0   | 231   |        |  |
| <b>Province</b>           |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| Central                   | 11.4                   | 10.5                                    | 1,165  | 63.3  | 22.1                 | 12.4                  | 2.2        | 0.0     | 100.0   | 123   |        |  |
| Copperbelt                | 22.9                   | 20.7                                    | 2,201  | 56.2  | 28.0                 | 12.3                  | 3.5        | 0.0     | 100.0   | 454   |        |  |
| Eastern                   | 4.9                    | 4.4                                     | 1,605  | 54.7  | 19.6                 | 16.3                  | 9.5        | 0.0     | 100.0   | 71    |        |  |
| Luapula                   | 6.4                    | 6.0                                     | 1,071  | 58.3  | 26.5                 | 9.2                   | 6.0        | 0.0     | 100.0   | 64    |        |  |
| Lusaka                    | 24.4                   | 22.1                                    | 2,733  | 58.5  | 25.8                 | 14.8                  | 0.9        | 0.0     | 100.0   | 604   |        |  |
| Muchinga                  | 6.0                    | 5.5                                     | 754    | 39.1  | 52.5                 | 6.6                   | 1.8        | 0.0     | 100.0   | 42    |        |  |
| Northern                  | 5.1                    | 3.6                                     | 1,054  | 29.3  | 54.5                 | 11.7                  | 4.5        | 0.0     | 100.0   | 38    |        |  |
| North Western             | 13.6                   | 11.8                                    | 718    | 50.4  | 23.2                 | 25.9                  | 0.6        | 0.0     | 100.0   | 85    |        |  |
| Southern                  | 7.4                    | 7.0                                     | 1,574  | 37.0  | 41.7                 | 19.2                  | 2.1        | 0.0     | 100.0   | 111   |        |  |
| Western                   | 7.7                    | 7.1                                     | 808    | 54.8  | 26.6                 | 16.9                  | 1.7        | 0.0     | 100.0   | 57    |        |  |
| <b>Education</b>          |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| No education              | 0.5                    | 0.5                                     | 1,054  | *   | *                    | *                     | *          | *       | *       | *     | 5      |  |
| Primary                   | 1.0                    | 0.8                                     | 6,059  | (32.9)  | (29.0)               | (38.1)                | (0.0)      | (0.0)   | (100.0) | 47    |        |  |
| Secondary                 | 19.7                   | 17.3                                    | 5,816  | 45.0  | 34.2                 | 17.6                  | 3.2        | 0.0     | 100.0   | 1,004 |        |  |
| Higher                    | 81.1                   | 78.5                                    | 755    | 73.2  | 18.3                 | 7.0                   | 1.5        | 0.0     | 100.0   | 593   |        |  |
| <b>Wealth quintile</b>    |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| Lowest                    | 0.5                    | 0.4                                     | 2,442  | *   | *                    | *                     | *          | *       | *       | *     | 10     |  |
| Second                    | 1.2                    | 0.7                                     | 2,387  | *   | *                    | *                     | *          | *       | *       | *     | 16     |  |
| Middle                    | 3.6                    | 3.1                                     | 2,477  | 26.7  | 50.6                 | 15.6                  | 7.1        | 0.0     | 100.0   | 76    |        |  |
| Fourth                    | 10.4                   | 9.2                                     | 3,011  | 41.4  | 39.2                 | 15.2                  | 4.3        | 0.0     | 100.0   | 276   |        |  |
| Highest                   | 41.1                   | 37.8                                    | 3,367  | 60.3  | 24.3                 | 13.8                  | 1.7        | 0.0     | 100.0   | 1,272 |        |  |
| Total                     | 13.4                   | 12.1                                    | 13,683 | 54.9  | 28.2                 | 14.4                  | 2.5        | 0.0     | 100.0   | 1,649 |        |  |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

**Table 3.5.2 Internet usage: Men**

Percentage of men age 15-49 who have ever used the internet and percentage who have used the internet in the past 12 months, and among men who have used the internet in the past 12 months, percent distribution by frequency of internet use in the past month, according to background characteristics, Zambia DHS 2018

| Background characteristic | Ever used the internet | Used the internet in the past 12 months | Number | Among respondents who have used the internet in the past 12 months, percentage who, in the past month, used the internet: |                      |                       |            |         |         | Total | Number |  |
|---------------------------|------------------------|---|--------|---|----------------------|-----------------------|------------|---------|---------|-------|--------|--|
|                           |                        |   |        | Almost every day  | At least once a week | Less than once a week | Not at all | Missing |         |       |        |  |
| <b>Age</b>                |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| 15-19                     | 22.9                   | 20.3                                    | 2,781  | 34.7  | 37.8                 | 23.9                  | 3.5        | 0.0     | 100.0   | 565   |        |  |
| 20-24                     | 39.5                   | 36.8                                    | 2,032  | 45.9  | 33.5                 | 16.2                  | 4.4        | 0.0     | 100.0   | 747   |        |  |
| 25-29                     | 35.1                   | 32.3                                    | 1,721  | 51.8  | 35.0                 | 10.2                  | 2.9        | 0.0     | 100.0   | 556   |        |  |
| 30-34                     | 29.0                   | 27.0                                    | 1,383  | 51.6  | 32.1                 | 12.7                  | 3.7        | 0.0     | 100.0   | 374   |        |  |
| 35-39                     | 25.7                   | 24.5                                    | 1,280  | 54.8  | 30.9                 | 11.6                  | 2.8        | 0.0     | 100.0   | 313   |        |  |
| 40-44                     | 19.3                   | 18.0                                    | 1,097  | 51.4  | 31.8                 | 14.2                  | 2.6        | 0.0     | 100.0   | 198   |        |  |
| 45-49                     | 17.7                   | 16.6                                    | 883    | 50.2  | 41.2                 | 7.6                   | 1.1        | 0.0     | 100.0   | 147   |        |  |
| <b>Residence</b>          |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| Urban                     | 47.6                   | 44.2                                    | 5,013  | 51.4  | 33.2                 | 11.8                  | 3.6        | 0.0     | 100.0   | 2,215 |        |  |
| Rural                     | 12.3                   | 11.1                                    | 6,165  | 33.4  | 38.4                 | 25.4                  | 2.8        | 0.0     | 100.0   | 686   |        |  |
| <b>Province</b>           |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| Central                   | 30.6                   | 28.6                                    | 979    | 40.8  | 45.4                 | 13.3                  | 0.5        | 0.0     | 100.0   | 280   |        |  |
| Copperbelt                | 38.2                   | 35.5                                    | 1,727  | 45.7  | 40.5                 | 12.1                  | 1.7        | 0.0     | 100.0   | 613   |        |  |
| Eastern                   | 11.4                   | 11.0                                    | 1,476  | 38.8  | 41.9                 | 17.5                  | 1.9        | 0.0     | 100.0   | 162   |        |  |
| Luapula                   | 12.1                   | 10.4                                    | 849    | 35.0  | 45.8                 | 18.1                  | 1.1        | 0.0     | 100.0   | 88    |        |  |
| Lusaka                    | 54.0                   | 50.0                                    | 2,166  | 55.4  | 26.6                 | 12.5                  | 5.6        | 0.0     | 100.0   | 1,084 |        |  |
| Muchinga                  | 7.5                    | 6.7                                     | 599    | 34.8  | 32.4                 | 28.9                  | 3.8        | 0.0     | 100.0   | 40    |        |  |
| Northern                  | 13.3                   | 12.2                                    | 855    | 31.9  | 30.7                 | 33.5                  | 3.9        | 0.0     | 100.0   | 104   |        |  |
| North Western             | 27.4                   | 24.0                                    | 556    | 42.7  | 23.7                 | 24.2                  | 9.3        | 0.0     | 100.0   | 133   |        |  |
| Southern                  | 24.5                   | 22.7                                    | 1,395  | 43.9  | 37.0                 | 18.8                  | 0.4        | 0.0     | 100.0   | 316   |        |  |
| Western                   | 15.1                   | 14.0                                    | 574    | 44.6  | 42.9                 | 8.7                   | 3.7        | 0.0     | 100.0   | 80    |        |  |
| <b>Education</b>          |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| No education              | 6.0                    | 6.0                                     | 446    | *   | *                    | *                     | *          | *       | *       | *     | 27     |  |
| Primary                   | 5.6                    | 5.0                                     | 4,206  | 14.9  | 38.7                 | 37.9                  | 8.5        | 0.0     | 100.0   | 211   |        |  |
| Secondary                 | 36.6                   | 33.0                                    | 5,618  | 39.5  | 39.8                 | 16.9                  | 3.8        | 0.0     | 100.0   | 1,857 |        |  |
| Higher                    | 90.5                   | 88.9                                    | 907    | 72.2  | 21.3                 | 5.2                   | 1.3        | 0.0     | 100.0   | 807   |        |  |
| <b>Wealth quintile</b>    |                        |   |        |   |                      |                       |            |         |         |       |        |  |
| Lowest                    | 3.0                    | 2.5                                     | 1,827  | (6.6)   | (56.0)               | (35.3)                | (2.1)      | (0.0)   | (100.0) | 46    |        |  |
| Second                    | 7.0                    | 5.6                                     | 1,952  | 16.7  | 44.0                 | 34.3                  | 5.0        | 0.0     | 100.0   | 110   |        |  |
| Middle                    | 14.4                   | 12.6                                    | 2,218  | 31.4  | 40.6                 | 25.6                  | 2.3        | 0.0     | 100.0   | 279   |        |  |
| Fourth                    | 32.7                   | 29.5                                    | 2,552  | 38.9  | 38.1                 | 17.7                  | 5.3        | 0.0     | 100.0   | 754   |        |  |
| Highest                   | 68.3                   | 65.1                                    | 2,629  | 56.3  | 30.6                 | 10.3                  | 2.7        | 0.0     | 100.0   | 1,712 |        |  |
| Total 15-49               | 28.1                   | 26.0                                    | 11,177 | 47.1  | 34.4                 | 15.0                  | 3.4        | 0.0     | 100.0   | 2,901 |        |  |
| 50-59                     | 13.4                   | 12.9                                    | 955    | 54.6  | 27.6                 | 17.2                  | 0.6        | 0.0     | 100.0   | 123   |        |  |
| Total 15-59               | 26.9                   | 24.9                                    | 12,132 | 47.4  | 34.2                 | 15.1                  | 3.3        | 0.0     | 100.0   | 3,023 |        |  |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

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**Table 3.6.1 Employment status: Women**

Percent distribution of women age 15-49 by employment status, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Employed in the 12 months preceding the survey |                        | Not employed in the 12 months preceding the survey | Total | Number of women |
|----------------------------------|--|------------------------|--|-------|-----------------|
|                                  | Currently employed <sup>1</sup>                | Not currently employed |  |       |                 |
| <b>Age</b>                       |  |                        |  |       |                 |
| 15-19                            | 17.4   | 4.3                    | 78.2   | 100.0 | 3,000           |
| 20-24                            | 35.9   | 8.5                    | 55.6   | 100.0 | 2,733           |
| 25-29                            | 50.0   | 7.6                    | 42.4   | 100.0 | 2,237           |
| 30-34                            | 59.2   | 7.4                    | 33.4   | 100.0 | 1,862           |
| 35-39                            | 63.2   | 6.6                    | 30.3   | 100.0 | 1,697           |
| 40-44                            | 63.5   | 8.4                    | 28.1   | 100.0 | 1,253           |
| 45-49                            | 63.5   | 9.5                    | 27.0   | 100.0 | 900             |
| <b>Marital status</b>            |  |                        |  |       |                 |
| Never married                    | 25.6   | 5.4                    | 69.0   | 100.0 | 4,272           |
| Married or living together       | 51.2   | 7.6                    | 41.2   | 100.0 | 7,648           |
| Divorced/separated/widowed       | 65.7   | 9.2                    | 25.2   | 100.0 | 1,762           |
| <b>Number of living children</b> |  |                        |  |       |                 |
| 0                                | 22.5   | 5.2                    | 72.4   | 100.0 | 3,489           |
| 1-2                              | 46.5   | 7.0                    | 46.4   | 100.0 | 4,427           |
| 3-4                              | 56.0   | 8.4                    | 35.6   | 100.0 | 2,945           |
| 5+                               | 59.2   | 8.3                    | 32.5   | 100.0 | 2,821           |
| <b>Residence</b>                 |  |                        |  |       |                 |
| Urban                            | 45.7   | 5.3                    | 49.0   | 100.0 | 6,374           |
| Rural                            | 44.5   | 8.7                    | 46.8   | 100.0 | 7,309           |
| <b>Province</b>                  |  |                        |  |       |                 |
| Central                          | 42.4   | 9.2                    | 48.5   | 100.0 | 1,165           |
| Copperbelt                       | 39.6   | 5.3                    | 55.1   | 100.0 | 2,201           |
| Eastern                          | 44.1   | 16.0                   | 39.9   | 100.0 | 1,605           |
| Luapula                          | 57.1   | 5.0                    | 37.9   | 100.0 | 1,071           |
| Lusaka                           | 47.6   | 4.4                    | 48.0   | 100.0 | 2,733           |
| Muchinga                         | 33.3   | 7.7                    | 59.0   | 100.0 | 754             |
| Northern                         | 47.5   | 4.0                    | 48.5   | 100.0 | 1,054           |
| North Western                    | 38.8   | 6.2                    | 55.1   | 100.0 | 718             |
| Southern                         | 48.3   | 6.1                    | 45.6   | 100.0 | 1,574           |
| Western                          | 48.3   | 9.3                    | 42.4   | 100.0 | 808             |
| <b>Education</b>                 |  |                        |  |       |                 |
| No education                     | 43.1   | 11.0                   | 45.9   | 100.0 | 1,054           |
| Primary                          | 47.5   | 8.0                    | 44.5   | 100.0 | 6,059           |
| Secondary                        | 40.0   | 5.6                    | 54.4   | 100.0 | 5,816           |
| Higher                           | 66.8   | 5.8                    | 27.5   | 100.0 | 755             |
| <b>Wealth quintile</b>           |  |                        |  |       |                 |
| Lowest                           | 44.5   | 10.6                   | 44.9   | 100.0 | 2,442           |
| Second                           | 43.4   | 9.0                    | 47.6   | 100.0 | 2,387           |
| Middle                           | 47.3   | 6.4                    | 46.2   | 100.0 | 2,477           |
| Fourth                           | 43.3   | 5.7                    | 51.0   | 100.0 | 3,011           |
| Highest                          | 46.6   | 5.0                    | 48.5   | 100.0 | 3,367           |
| Total                            | 45.0   | 7.1                    | 47.8   | 100.0 | 13,683          |

<sup>1</sup> "Currently employed" is defined as having done work in the past 7 days. Includes persons who did not work in the past 7 days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

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**Table 3.6.2 Employment status: Men**

Percent distribution of men age 15-49 by employment status, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Employed in the 12 months preceding the survey |                        | Not employed in the 12 months preceding the survey | Total | Number of men |
|----------------------------------|--|------------------------|--|-------|---------------|
|                                  | Currently employed <sup>1</sup>                | Not currently employed |  |       |               |
| <b>Age</b>                       |  |                        |  |       |               |
| 15-19                            | 35.6   | 6.2                    | 58.2   | 100.0 | 2,781         |
| 20-24                            | 71.4   | 5.6                    | 23.0   | 100.0 | 2,032         |
| 25-29                            | 89.1   | 3.1                    | 7.8  | 100.0 | 1,721         |
| 30-34                            | 94.3   | 2.1                    | 3.6  | 100.0 | 1,383         |
| 35-39                            | 94.0   | 2.1                    | 4.0  | 100.0 | 1,280         |
| 40-44                            | 94.4   | 2.8                    | 2.8  | 100.0 | 1,097         |
| 45-49                            | 92.0   | 3.0                    | 5.0  | 100.0 | 883           |
| <b>Marital status</b>            |  |                        |  |       |               |
| Never married                    | 51.7   | 5.8                    | 42.5   | 100.0 | 5,142         |
| Married or living together       | 94.6   | 2.4                    | 3.0  | 100.0 | 5,572         |
| Divorced/separated/widowed       | 85.6   | 5.0                    | 9.3  | 100.0 | 463           |
| <b>Number of living children</b> |  |                        |  |       |               |
| 0                                | 51.8   | 5.5                    | 42.7   | 100.0 | 5,028         |
| 1-2                              | 91.1   | 3.5                    | 5.4  | 100.0 | 2,523         |
| 3-4                              | 94.9   | 2.2                    | 2.9  | 100.0 | 1,678         |
| 5+                               | 94.3   | 2.6                    | 3.1  | 100.0 | 1,948         |
| <b>Residence</b>                 |  |                        |  |       |               |
| Urban                            | 72.5   | 4.6                    | 23.0   | 100.0 | 5,013         |
| Rural                            | 76.2   | 3.7                    | 20.2   | 100.0 | 6,165         |
| <b>Province</b>                  |  |                        |  |       |               |
| Central                          | 71.6   | 2.0                    | 26.4   | 100.0 | 979           |
| Copperbelt                       | 73.5   | 3.4                    | 23.1   | 100.0 | 1,727         |
| Eastern                          | 70.5   | 5.2                    | 24.2   | 100.0 | 1,476         |
| Luapula                          | 79.0   | 1.5                    | 19.4   | 100.0 | 849           |
| Lusaka                           | 75.4   | 5.9                    | 18.7   | 100.0 | 2,166         |
| Muchinga                         | 81.2   | 3.5                    | 15.3   | 100.0 | 599           |
| Northern                         | 75.4   | 4.4                    | 20.2   | 100.0 | 855           |
| North Western                    | 64.8   | 4.6                    | 30.7   | 100.0 | 556           |
| Southern                         | 78.0   | 3.5                    | 18.5   | 100.0 | 1,395         |
| Western                          | 75.6   | 4.6                    | 19.8   | 100.0 | 574           |
| <b>Education</b>                 |  |                        |  |       |               |
| No education                     | 77.7   | 4.2                    | 18.1   | 100.0 | 446           |
| Primary                          | 75.6   | 4.0                    | 20.5   | 100.0 | 4,206         |
| Secondary                        | 71.6   | 4.5                    | 23.9   | 100.0 | 5,618         |
| Higher                           | 86.2   | 2.0                    | 11.8   | 100.0 | 907           |
| <b>Wealth quintile</b>           |  |                        |  |       |               |
| Lowest                           | 80.7   | 4.0                    | 15.4   | 100.0 | 1,827         |
| Second                           | 76.6   | 4.2                    | 19.1   | 100.0 | 1,952         |
| Middle                           | 74.8   | 3.5                    | 21.7   | 100.0 | 2,218         |
| Fourth                           | 76.3   | 3.3                    | 20.4   | 100.0 | 2,552         |
| Highest                          | 66.7   | 5.2                    | 28.1   | 100.0 | 2,629         |
| Total 15-49                      | 74.5   | 4.1                    | 21.4   | 100.0 | 11,177        |
| 50-59                            | 86.5   | 3.1                    | 10.4   | 100.0 | 955           |
| Total 15-59                      | 75.5   | 4.0                    | 20.5   | 100.0 | 12,132        |

<sup>1</sup> "Currently employed" is defined as having done work in the past 7 days. Includes persons who did not work in the past 7 days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

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**Table 3.7.1 Occupation: Women**

Percent distribution of women age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Professional/technical/managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Domestic service | Agriculture | Missing | Total | Number of women |
|----------------------------------|-----------------------------------|----------|--------------------|----------------|------------------|------------------|-------------|---------|-------|-----------------|
| <b>Age</b>                       |                                   |          |                    |                |                  |                  |             |         |       |                 |
| 15-19                            | 1.9                               | 0.0      | 23.4               | 1.3            | 10.9             | 9.4              | 53.1        | 0.0     | 100.0 | 653             |
| 20-24                            | 4.4                               | 1.1      | 36.6               | 0.8            | 12.2             | 8.5              | 35.4        | 1.0     | 100.0 | 1,212           |
| 25-29                            | 10.4                              | 1.3      | 37.6               | 1.7            | 12.0             | 8.1              | 29.0        | 0.0     | 100.0 | 1,290           |
| 30-34                            | 11.2                              | 1.4      | 36.9               | 1.6            | 12.4             | 8.1              | 28.3        | 0.0     | 100.0 | 1,241           |
| 35-39                            | 8.5                               | 0.9      | 36.0               | 2.3            | 12.2             | 10.7             | 29.5        | 0.0     | 100.0 | 1,183           |
| 40-44                            | 8.1                               | 0.9      | 34.3               | 3.4            | 10.8             | 7.3              | 35.2        | 0.0     | 100.0 | 901             |
| 45-49                            | 5.8                               | 1.1      | 30.8               | 2.9            | 11.5             | 6.0              | 42.0        | 0.0     | 100.0 | 657             |
| <b>Marital status</b>            |                                   |          |                    |                |                  |                  |             |         |       |                 |
| Never married                    | 12.1                              | 2.5      | 36.1               | 1.7            | 11.1             | 11.1             | 25.5        | 0.0     | 100.0 | 1,323           |
| Married or living together       | 6.9                               | 0.7      | 33.9               | 1.7            | 10.7             | 6.4              | 39.4        | 0.3     | 100.0 | 4,495           |
| Divorced/separated/widowed       | 6.1                               | 0.8      | 35.9               | 2.9            | 16.4             | 12.5             | 25.3        | 0.0     | 100.0 | 1,319           |
| <b>Number of living children</b> |                                   |          |                    |                |                  |                  |             |         |       |                 |
| 0                                | 13.0                              | 2.8      | 33.9               | 1.9            | 10.9             | 9.7              | 27.9        | 0.0     | 100.0 | 963             |
| 1-2                              | 10.3                              | 1.2      | 36.5               | 1.6            | 12.0             | 10.1             | 27.8        | 0.5     | 100.0 | 2,371           |
| 3-4                              | 7.7                               | 0.9      | 36.8               | 2.0            | 12.5             | 8.3              | 31.8        | 0.0     | 100.0 | 1,897           |
| 5+                               | 1.8                               | 0.1      | 30.7               | 2.2            | 11.4             | 5.9              | 47.9        | 0.0     | 100.0 | 1,905           |
| <b>Residence</b>                 |                                   |          |                    |                |                  |                  |             |         |       |                 |
| Urban                            | 13.0                              | 2.1      | 49.6               | 2.8            | 12.3             | 14.6             | 5.3         | 0.3     | 100.0 | 3,251           |
| Rural                            | 3.3                               | 0.1      | 22.2               | 1.1            | 11.4             | 3.3              | 58.5        | 0.0     | 100.0 | 3,885           |
| <b>Province</b>                  |                                   |          |                    |                |                  |                  |             |         |       |                 |
| Central                          | 7.7                               | 0.7      | 29.7               | 0.7            | 9.9              | 5.4              | 45.8        | 0.0     | 100.0 | 600             |
| Copperbelt                       | 12.7                              | 1.2      | 47.3               | 3.4            | 11.4             | 12.4             | 11.5        | 0.0     | 100.0 | 988             |
| Eastern                          | 4.6                               | 0.4      | 19.1               | 1.8            | 19.9             | 2.9              | 51.2        | 0.1     | 100.0 | 965             |
| Luapula                          | 4.3                               | 0.2      | 25.2               | 0.9            | 7.8              | 2.9              | 58.6        | 0.0     | 100.0 | 666             |
| Lusaka                           | 13.9                              | 2.7      | 45.7               | 2.9            | 15.3             | 16.0             | 3.6         | 0.0     | 100.0 | 1,422           |
| Muchinga                         | 2.6                               | 0.6      | 28.9               | 2.0            | 5.5              | 3.1              | 57.3        | 0.0     | 100.0 | 309             |
| Northern                         | 4.1                               | 0.2      | 28.2               | 1.3            | 7.1              | 3.3              | 55.8        | 0.0     | 100.0 | 543             |
| North Western                    | 7.7                               | 1.3      | 32.4               | 1.9            | 9.7              | 2.9              | 44.2        | 0.0     | 100.0 | 322             |
| Southern                         | 4.0                               | 0.6      | 40.8               | 1.0            | 8.5              | 14.4             | 29.4        | 1.3     | 100.0 | 857             |
| Western                          | 3.9                               | 0.2      | 28.6               | 1.4            | 11.0             | 2.4              | 52.5        | 0.0     | 100.0 | 465             |
| <b>Education</b>                 |                                   |          |                    |                |                  |                  |             |         |       |                 |
| No education                     | 0.8                               | 0.0      | 22.5               | 2.2            | 15.0             | 7.0              | 52.6        | 0.0     | 100.0 | 570             |
| Primary                          | 0.6                               | 0.2      | 29.3               | 1.5            | 12.0             | 7.6              | 48.5        | 0.4     | 100.0 | 3,363           |
| Secondary                        | 6.3                               | 0.9      | 48.1               | 2.2            | 12.4             | 11.2             | 18.8        | 0.0     | 100.0 | 2,655           |
| Higher                           | 65.7                              | 8.0      | 15.4               | 3.0            | 4.5              | 1.2              | 2.2         | 0.0     | 100.0 | 548             |
| <b>Wealth quintile</b>           |                                   |          |                    |                |                  |                  |             |         |       |                 |
| Lowest                           | 0.5                               | 0.0      | 12.7               | 1.5            | 13.4             | 1.9              | 69.8        | 0.1     | 100.0 | 1,344           |
| Second                           | 1.0                               | 0.0      | 23.5               | 0.9            | 12.3             | 2.0              | 60.3        | 0.0     | 100.0 | 1,250           |
| Middle                           | 2.1                               | 0.1      | 34.6               | 1.5            | 9.2              | 10.2             | 41.5        | 0.8     | 100.0 | 1,332           |
| Fourth                           | 4.4                               | 0.9      | 55.3               | 2.1            | 11.0             | 16.2             | 10.0        | 0.0     | 100.0 | 1,475           |
| Highest                          | 25.2                              | 3.4      | 42.4               | 3.1            | 13.0             | 10.1             | 2.8         | 0.0     | 100.0 | 1,735           |
| Total                            | 7.7                               | 1.0      | 34.7               | 1.9            | 11.8             | 8.4              | 34.2        | 0.2     | 100.0 | 7,136           |

**Table 3.7.2 Occupation: Men**

Percent distribution of men age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Professional/technical/managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Domestic service | Agriculture | Missing | Total | Number of men |
|----------------------------------|-----------------------------------|----------|--------------------|----------------|------------------|------------------|-------------|---------|-------|---------------|
| <b>Age</b>                       |                                   |          |                    |                |                  |                  |             |         |       |               |
| 15-19                            | 2.5                               | 0.7      | 8.2                | 9.3            | 36.4             | 7.8              | 34.9        | 0.2     | 100.0 | 1,164         |
| 20-24                            | 5.3                               | 0.3      | 14.8               | 16.5           | 26.1             | 7.9              | 29.1        | 0.0     | 100.0 | 1,565         |
| 25-29                            | 11.2                              | 0.9      | 14.5               | 23.8           | 16.2             | 8.2              | 24.9        | 0.1     | 100.0 | 1,588         |
| 30-34                            | 10.5                              | 0.8      | 13.1               | 23.3           | 16.1             | 7.0              | 28.7        | 0.5     | 100.0 | 1,332         |
| 35-39                            | 11.1                              | 0.8      | 14.3               | 22.9           | 14.3             | 6.2              | 30.5        | 0.0     | 100.0 | 1,230         |
| 40-44                            | 10.8                              | 0.3      | 12.2               | 22.4           | 16.4             | 3.5              | 34.4        | 0.0     | 100.0 | 1,066         |
| 45-49                            | 10.1                              | 0.2      | 10.2               | 23.1           | 15.6             | 3.5              | 37.3        | 0.0     | 100.0 | 839           |
| <b>Marital status</b>            |                                   |          |                    |                |                  |                  |             |         |       |               |
| Never married                    | 8.5                               | 0.8      | 13.2               | 15.6           | 27.7             | 9.3              | 24.8        | 0.1     | 100.0 | 2,957         |
| Married or living together       | 8.9                               | 0.5      | 12.4               | 22.1           | 16.3             | 5.1              | 34.6        | 0.1     | 100.0 | 5,406         |
| Divorced/separated/widowed       | 8.0                               | 0.1      | 14.8               | 26.2           | 20.6             | 7.6              | 22.2        | 0.4     | 100.0 | 420           |
| <b>Number of living children</b> |                                   |          |                    |                |                  |                  |             |         |       |               |
| 0                                | 7.9                               | 0.6      | 13.3               | 15.0           | 27.8             | 9.4              | 25.8        | 0.1     | 100.0 | 2,882         |
| 1-2                              | 11.3                              | 1.0      | 13.7               | 24.6           | 18.8             | 6.0              | 24.3        | 0.3     | 100.0 | 2,386         |
| 3-4                              | 9.4                               | 0.3      | 12.5               | 24.5           | 14.5             | 5.7              | 33.0        | 0.0     | 100.0 | 1,629         |
| 5+                               | 6.1                               | 0.2      | 11.1               | 18.6           | 15.9             | 3.9              | 44.2        | 0.0     | 100.0 | 1,887         |
| <b>Residence</b>                 |                                   |          |                    |                |                  |                  |             |         |       |               |
| Urban                            | 14.6                              | 1.1      | 20.1               | 31.3           | 17.1             | 8.9              | 6.7         | 0.2     | 100.0 | 3,862         |
| Rural                            | 4.1                               | 0.2      | 7.0                | 11.4           | 22.9             | 4.8              | 49.5        | 0.0     | 100.0 | 4,921         |
| <b>Province</b>                  |                                   |          |                    |                |                  |                  |             |         |       |               |
| Central                          | 7.4                               | 0.7      | 9.2                | 14.9           | 21.5             | 7.8              | 38.5        | 0.0     | 100.0 | 721           |
| Copperbelt                       | 11.4                              | 0.3      | 14.7               | 32.3           | 20.6             | 8.3              | 12.4        | 0.0     | 100.0 | 1,327         |
| Eastern                          | 5.3                               | 0.4      | 10.3               | 14.9           | 21.6             | 11.1             | 36.4        | 0.0     | 100.0 | 1,118         |
| Luapula                          | 5.9                               | 0.1      | 10.2               | 7.7            | 14.9             | 3.6              | 57.7        | 0.0     | 100.0 | 684           |
| Lusaka                           | 15.8                              | 1.4      | 22.2               | 29.0           | 15.2             | 9.9              | 6.0         | 0.5     | 100.0 | 1,760         |
| Muchinga                         | 3.9                               | 0.3      | 10.2               | 12.2           | 15.6             | 3.3              | 54.2        | 0.3     | 100.0 | 508           |
| Northern                         | 3.5                               | 0.2      | 6.8                | 8.6            | 13.4             | 3.6              | 63.9        | 0.0     | 100.0 | 683           |
| North Western                    | 10.2                              | 2.2      | 10.3               | 24.4           | 12.2             | 3.2              | 37.6        | 0.0     | 100.0 | 385           |
| Southern                         | 6.8                               | 0.2      | 9.6                | 19.5           | 28.6             | 3.1              | 32.1        | 0.0     | 100.0 | 1,137         |
| Western                          | 5.0                               | 0.1      | 8.6                | 14.6           | 44.0             | 0.5              | 27.2        | 0.0     | 100.0 | 461           |
| <b>Education</b>                 |                                   |          |                    |                |                  |                  |             |         |       |               |
| No education                     | 1.1                               | 0.0      | 7.3                | 10.4           | 27.6             | 6.2              | 47.3        | 0.0     | 100.0 | 366           |
| Primary                          | 1.0                               | 0.1      | 8.4                | 14.2           | 24.7             | 6.9              | 44.7        | 0.1     | 100.0 | 3,345         |
| Secondary                        | 6.1                               | 0.6      | 16.3               | 26.4           | 19.4             | 7.6              | 23.4        | 0.2     | 100.0 | 4,273         |
| Higher                           | 58.6                              | 2.7      | 15.1               | 16.1           | 3.5              | 0.7              | 3.3         | 0.0     | 100.0 | 800           |
| <b>Wealth quintile</b>           |                                   |          |                    |                |                  |                  |             |         |       |               |
| Lowest                           | 0.6                               | 0.0      | 3.4                | 8.8            | 23.2             | 3.4              | 60.4        | 0.1     | 100.0 | 1,546         |
| Second                           | 1.3                               | 0.1      | 5.8                | 9.8            | 24.6             | 5.0              | 53.3        | 0.1     | 100.0 | 1,578         |
| Middle                           | 2.5                               | 0.3      | 11.7               | 17.1           | 23.2             | 6.7              | 38.4        | 0.1     | 100.0 | 1,738         |
| Fourth                           | 9.3                               | 0.7      | 18.9               | 30.9           | 19.8             | 11.2             | 9.0         | 0.1     | 100.0 | 2,030         |
| Highest                          | 26.5                              | 1.6      | 20.7               | 29.3           | 12.3             | 5.6              | 3.8         | 0.2     | 100.0 | 1,892         |
| Total 15-49                      | 8.7                               | 0.6      | 12.8               | 20.1           | 20.3             | 6.6              | 30.7        | 0.1     | 100.0 | 8,784         |
| 50-59                            | 9.0                               | 1.0      | 10.8               | 18.4           | 14.6             | 1.8              | 44.2        | 0.2     | 100.0 | 856           |
| Total 15-59                      | 8.7                               | 0.6      | 12.6               | 20.0           | 19.8             | 6.2              | 31.9        | 0.1     | 100.0 | 9,639         |

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**Table 3.8.1 Type of employment: Women**

Percent distribution of women age 15-49 employed in the 12 months preceding the survey by type of earnings, type of employer, and continuity of employment, according to type of employment (agricultural or nonagricultural), Zambia DHS 2018

| Employment characteristic                          | Agricultural work | Non-agricultural work | Missing | Total |
|--|-------------------|-----------------------|---------|-------|
| <b>Type of earnings</b>                            |                   |                       |         |       |
| Cash only  | 29.1              | 81.7                  | *       | 63.5  |
| Cash and in-kind                                   | 30.5              | 8.9                   | *       | 16.3  |
| In-kind only                                       | 3.7               | 0.4                   | *       | 1.5   |
| Not paid   | 36.7              | 9.0                   | *       | 18.7  |
| Total  | 100.0             | 100.0                 | 100.0   | 100.0 |
| <b>Type of employer</b>                            |                   |                       |         |       |
| Employed by family member                          | 25.4              | 4.8                   | *       | 11.9  |
| Employed by non-family member                      | 2.9               | 36.6                  | *       | 25.0  |
| Self-employed                                      | 71.7              | 58.6                  | *       | 63.1  |
| Total  | 100.0             | 100.0                 | 100.0   | 100.0 |
| <b>Continuity of employment</b>                    |                   |                       |         |       |
| All year   | 22.1              | 69.6                  | *       | 53.2  |
| Seasonal   | 75.9              | 20.2                  | *       | 39.3  |
| Occasional   | 1.9               | 10.2                  | *       | 7.5   |
| Total  | 100.0             | 100.0                 | 100.0   | 100.0 |
| Number of women employed during the last 12 months | 2,443             | 4,681                 | 12      | 7,136 |

Note: Total includes women with missing information on type of employment who are not shown separately. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

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**Table 3.8.2 Type of employment: Men**

Percent distribution of men age 15-49 employed in the 12 months preceding the survey by type of earnings, and continuity of employment, according to type of employment (agricultural or nonagricultural), Zambia DHS 2018

| Employment characteristic                          | Agricultural work | Non-agricultural work | Missing | Total |
|--|-------------------|-----------------------|---------|-------|
| <b>Type of earnings</b>                            |                   |                       |         |       |
| Cash only  | 34.0              | 81.8                  | *       | 67.1  |
| Cash and in-kind                                   | 37.9              | 6.5                   | *       | 16.1  |
| In-kind only                                       | 2.4               | 0.6                   | *       | 1.2   |
| Not paid   | 25.8              | 11.0                  | *       | 15.5  |
| Total  | 100.0             | 100.0                 | 100.0   | 100.0 |
| <b>Continuity of employment</b>                    |                   |                       |         |       |
| All year   | 35.8              | 61.9                  | *       | 53.9  |
| Seasonal   | 62.0              | 20.0                  | *       | 32.9  |
| Occasional   | 2.2               | 18.1                  | *       | 13.2  |
| Total  | 100.0             | 100.0                 | 100.0   | 100.0 |
| Number of women employed during the last 12 months | 2,696             | 6,078                 | 10      | 8,784 |

Note: Total includes men with missing information on type of employment who are not shown separately. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

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**Table 3.9.1 Health insurance coverage: Women**

Percentage of women age 15-49 with specific types of health insurance coverage, and percentage with any health insurance, according to background characteristics, Zambia DHS 2018

| Background characteristic | Social security | Other employer-based insurance | Mutual health organisation/ community-based insurance | Privately purchased commercial insurance | Other | None  | Any health insurance | Number of women |
|---------------------------|-----------------|--------------------------------|---|--|-------|-------|----------------------|-----------------|
| <b>Age</b>                |                 |                                |   |  |       |       |                      |                 |
| 15-19                     | 0.0             | 0.7                            | 0.0   | 0.0                                      | 0.2   | 99.1  | 0.9                  | 3,000           |
| 20-24                     | 0.0             | 0.5                            | 0.2   | 0.3                                      | 0.2   | 98.9  | 1.1                  | 2,733           |
| 25-29                     | 0.0             | 1.3                            | 0.3   | 0.2                                      | 0.6   | 97.7  | 2.3                  | 2,237           |
| 30-34                     | 0.1             | 2.7                            | 0.3   | 0.2                                      | 0.5   | 96.2  | 3.8                  | 1,862           |
| 35-39                     | 0.0             | 2.7                            | 0.1   | 0.1                                      | 0.4   | 96.7  | 3.3                  | 1,697           |
| 40-44                     | 0.0             | 1.8                            | 0.0   | 0.2                                      | 0.5   | 97.8  | 2.2                  | 1,253           |
| 45-49                     | 0.0             | 1.5                            | 0.1   | 0.2                                      | 0.4   | 97.9  | 2.1                  | 900             |
| <b>Residence</b>          |                 |                                |   |  |       |       |                      |                 |
| Urban                     | 0.0             | 2.7                            | 0.3   | 0.3                                      | 0.7   | 96.1  | 3.9                  | 6,374           |
| Rural                     | 0.0             | 0.3                            | 0.0   | 0.0                                      | 0.1   | 99.6  | 0.4                  | 7,309           |
| <b>Province</b>           |                 |                                |   |  |       |       |                      |                 |
| Central                   | 0.0             | 1.2                            | 0.0   | 0.2                                      | 0.1   | 98.5  | 1.5                  | 1,165           |
| Copperbelt                | 0.0             | 2.2                            | 0.1   | 0.2                                      | 1.1   | 96.5  | 3.5                  | 2,201           |
| Eastern                   | 0.0             | 0.4                            | 0.0   | 0.0                                      | 0.1   | 99.5  | 0.5                  | 1,605           |
| Luapula                   | 0.0             | 0.4                            | 0.0   | 0.0                                      | 0.3   | 99.2  | 0.8                  | 1,071           |
| Lusaka                    | 0.1             | 3.2                            | 0.5   | 0.4                                      | 0.4   | 95.4  | 4.6                  | 2,733           |
| Muchinga                  | 0.0             | 0.0                            | 0.0   | 0.1                                      | 0.1   | 99.8  | 0.2                  | 754             |
| Northern                  | 0.0             | 0.2                            | 0.0   | 0.0                                      | 0.0   | 99.8  | 0.2                  | 1,054           |
| North Western             | 0.1             | 1.8                            | 0.6   | 0.1                                      | 0.1   | 97.3  | 2.7                  | 718             |
| Southern                  | 0.0             | 0.6                            | 0.0   | 0.0                                      | 0.2   | 99.2  | 0.8                  | 1,574           |
| Western                   | 0.0             | 0.8                            | 0.0   | 0.1                                      | 0.5   | 98.7  | 1.3                  | 808             |
| <b>Education</b>          |                 |                                |   |  |       |       |                      |                 |
| No education              | 0.0             | 0.0                            | 0.0   | 0.0                                      | 0.0   | 100.0 | 0.0                  | 1,054           |
| Primary                   | 0.0             | 0.0                            | 0.0   | 0.0                                      | 0.0   | 99.9  | 0.1                  | 6,059           |
| Secondary                 | 0.0             | 1.3                            | 0.1   | 0.1                                      | 0.4   | 98.1  | 1.9                  | 5,816           |
| Higher                    | 0.1             | 14.8                           | 2.2   | 1.7                                      | 3.5   | 78.2  | 21.8                 | 755             |
| <b>Wealth quintile</b>    |                 |                                |   |  |       |       |                      |                 |
| Lowest                    | 0.0             | 0.0                            | 0.0   | 0.0                                      | 0.0   | 100.0 | 0.0                  | 2,442           |
| Second                    | 0.0             | 0.0                            | 0.0   | 0.0                                      | 0.0   | 100.0 | 0.0                  | 2,387           |
| Middle                    | 0.0             | 0.0                            | 0.0   | 0.0                                      | 0.1   | 99.9  | 0.1                  | 2,477           |
| Fourth                    | 0.1             | 0.4                            | 0.0   | 0.0                                      | 0.2   | 99.4  | 0.6                  | 3,011           |
| Highest                   | 0.0             | 5.4                            | 0.6   | 0.6                                      | 1.3   | 92.3  | 7.7                  | 3,367           |
| Total                     | 0.0             | 1.4                            | 0.2   | 0.1                                      | 0.4   | 97.9  | 2.1                  | 13,683          |

**Table 3.9.2 Health insurance coverage: Men**

Percentage of men age 15-49 with specific types of health insurance coverage, and percentage with any health insurance, according to background characteristics, Zambia DHS 2018

| Background characteristic | Social security | Other employer-based insurance | Mutual health organisation/ community-based insurance | Privately purchased commercial insurance | Other | None  | Any health insurance | Number of men |
|---------------------------|-----------------|--------------------------------|---|--|-------|-------|----------------------|---------------|
| <b>Age</b>                |                 |                                |   |  |       |       |                      |               |
| 15-19                     | 0.0             | 0.1                            | 0.2   | 0.1                                      | 0.0   | 99.6  | 0.4                  | 2,781         |
| 20-24                     | 0.0             | 0.8                            | 0.2   | 1.0                                      | 0.0   | 97.9  | 2.1                  | 2,032         |
| 25-29                     | 0.1             | 2.7                            | 0.0   | 0.5                                      | 0.1   | 96.9  | 3.1                  | 1,721         |
| 30-34                     | 0.1             | 3.5                            | 0.3   | 0.7                                      | 0.0   | 95.8  | 4.2                  | 1,383         |
| 35-39                     | 0.0             | 3.9                            | 0.6   | 0.4                                      | 0.2   | 95.0  | 5.0                  | 1,280         |
| 40-44                     | 0.0             | 2.6                            | 0.4   | 0.3                                      | 0.0   | 96.7  | 3.3                  | 1,097         |
| 45-49                     | 0.2             | 4.8                            | 0.9   | 0.7                                      | 0.0   | 93.5  | 6.5                  | 883           |
| <b>Residence</b>          |                 |                                |   |  |       |       |                      |               |
| Urban                     | 0.1             | 4.1                            | 0.7   | 1.0                                      | 0.1   | 94.3  | 5.7                  | 5,013         |
| Rural                     | 0.0             | 0.5                            | 0.0   | 0.1                                      | 0.0   | 99.4  | 0.6                  | 6,165         |
| <b>Province</b>           |                 |                                |   |  |       |       |                      |               |
| Central                   | 0.0             | 1.2                            | 0.1   | 0.7                                      | 0.0   | 98.0  | 2.0                  | 979           |
| Copperbelt                | 0.1             | 4.1                            | 0.0   | 0.5                                      | 0.1   | 95.4  | 4.6                  | 1,727         |
| Eastern                   | 0.1             | 0.8                            | 0.0   | 0.1                                      | 0.0   | 99.1  | 0.9                  | 1,476         |
| Luapula                   | 0.0             | 1.2                            | 0.2   | 0.2                                      | 0.0   | 98.3  | 1.7                  | 849           |
| Lusaka                    | 0.0             | 4.3                            | 1.4   | 0.9                                      | 0.0   | 93.6  | 6.4                  | 2,166         |
| Muchinga                  | 0.0             | 0.5                            | 0.1   | 0.0                                      | 0.0   | 99.4  | 0.6                  | 599           |
| Northern                  | 0.0             | 0.0                            | 0.0   | 0.0                                      | 0.0   | 100.0 | 0.0                  | 855           |
| North Western             | 0.0             | 2.6                            | 0.0   | 0.3                                      | 0.1   | 97.0  | 3.0                  | 556           |
| Southern                  | 0.0             | 1.0                            | 0.0   | 1.0                                      | 0.1   | 97.9  | 2.1                  | 1,395         |
| Western                   | 0.0             | 0.8                            | 0.1   | 0.3                                      | 0.2   | 98.6  | 1.4                  | 574           |
| <b>Education</b>          |                 |                                |   |  |       |       |                      |               |
| No education              | 0.3             | 0.6                            | 0.0   | 2.6                                      | 0.0   | 96.6  | 3.4                  | 446           |
| Primary                   | 0.0             | 0.2                            | 0.1   | 0.0                                      | 0.0   | 99.7  | 0.3                  | 4,206         |
| Secondary                 | 0.0             | 1.3                            | 0.2   | 0.2                                      | 0.0   | 98.4  | 1.6                  | 5,618         |
| Higher                    | 0.4             | 17.0                           | 2.4   | 3.7                                      | 0.2   | 77.4  | 22.6                 | 907           |
| <b>Wealth quintile</b>    |                 |                                |   |  |       |       |                      |               |
| Lowest                    | 0.0             | 0.0                            | 0.0   | 0.0                                      | 0.0   | 100.0 | 0.0                  | 1,827         |
| Second                    | 0.0             | 0.0                            | 0.0   | 0.0                                      | 0.0   | 99.9  | 0.1                  | 1,952         |
| Middle                    | 0.0             | 0.1                            | 0.0   | 0.0                                      | 0.0   | 99.8  | 0.2                  | 2,218         |
| Fourth                    | 0.0             | 1.4                            | 0.1   | 0.5                                      | 0.0   | 98.0  | 2.0                  | 2,552         |
| Highest                   | 0.2             | 7.5                            | 1.2   | 1.6                                      | 0.1   | 89.8  | 10.2                 | 2,629         |
| Total 15-49               | 0.0             | 2.1                            | 0.3   | 0.5                                      | 0.0   | 97.1  | 2.9                  | 11,177        |
| 50-59                     | 0.1             | 3.5                            | 0.0   | 1.8                                      | 0.0   | 94.6  | 5.4                  | 955           |
| Total 15-59               | 0.0             | 2.2                            | 0.3   | 0.6                                      | 0.0   | 96.9  | 3.1                  | 12,132        |

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**Table 3.10.1 Tobacco smoking: Women**

Percentage of women age 15-49 who smoke various tobacco products, according to background characteristics and maternity status, Zambia DHS 2018

| Background characteristic | Percentage who smoke: <sup>1</sup> |                                    |                     | Number of women |
|---------------------------|------------------------------------|------------------------------------|---------------------|-----------------|
|                           | Cigarettes <sup>2</sup>            | Other type of tobacco <sup>3</sup> | Any type of tobacco |                 |
| <b>Age</b>                |                                    |                                    |                     |                 |
| 15-19                     | 0.0                                | 0.0                                | 0.0                 | 3,000           |
| 20-24                     | 0.6                                | 0.0                                | 0.6                 | 2,733           |
| 25-29                     | 1.3                                | 0.0                                | 1.3                 | 2,237           |
| 30-34                     | 1.1                                | 0.1                                | 1.1                 | 1,862           |
| 35-39                     | 0.8                                | 0.0                                | 0.8                 | 1,697           |
| 40-44                     | 1.7                                | 0.0                                | 1.7                 | 1,253           |
| 45-49                     | 2.0                                | 0.0                                | 2.0                 | 900             |
| <b>Residence</b>          |                                    |                                    |                     |                 |
| Urban                     | 1.0                                | 0.0                                | 1.0                 | 6,374           |
| Rural                     | 0.8                                | 0.0                                | 0.8                 | 7,309           |
| <b>Province</b>           |                                    |                                    |                     |                 |
| Central                   | 0.3                                | 0.0                                | 0.3                 | 1,165           |
| Copperbelt                | 1.2                                | 0.0                                | 1.2                 | 2,201           |
| Eastern                   | 0.5                                | 0.0                                | 0.5                 | 1,605           |
| Luapula                   | 0.7                                | 0.0                                | 0.7                 | 1,071           |
| Lusaka                    | 1.0                                | 0.1                                | 1.0                 | 2,733           |
| Muchinga                  | 1.3                                | 0.1                                | 1.3                 | 754             |
| Northern                  | 0.6                                | 0.0                                | 0.6                 | 1,054           |
| North Western             | 0.2                                | 0.0                                | 0.2                 | 718             |
| Southern                  | 0.4                                | 0.0                                | 0.4                 | 1,574           |
| Western                   | 2.9                                | 0.0                                | 2.9                 | 808             |
| <b>Education</b>          |                                    |                                    |                     |                 |
| No education              | 2.5                                | 0.0                                | 2.5                 | 1,054           |
| Primary                   | 0.7                                | 0.0                                | 0.7                 | 6,059           |
| Secondary                 | 0.7                                | 0.0                                | 0.7                 | 5,816           |
| Higher                    | 1.2                                | 0.0                                | 1.2                 | 755             |
| <b>Wealth quintile</b>    |                                    |                                    |                     |                 |
| Lowest                    | 1.3                                | 0.0                                | 1.3                 | 2,442           |
| Second                    | 0.6                                | 0.0                                | 0.6                 | 2,387           |
| Middle                    | 0.7                                | 0.0                                | 0.7                 | 2,477           |
| Fourth                    | 0.9                                | 0.0                                | 0.9                 | 3,011           |
| Highest                   | 1.0                                | 0.1                                | 1.0                 | 3,367           |
| Total                     | 0.9                                | 0.0                                | 0.9                 | 13,683          |

<sup>1</sup> Includes daily and occasional (less than daily) use

<sup>2</sup> Cigarettes include kreteks.

<sup>3</sup> Includes pipes full of tobacco, cigars, cigarillos, and water pipes

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**Table 3.10.2 Tobacco smoking: Men**

Percentage of men age 15-49 who smoke various tobacco products, and percent distribution of men by smoking frequency, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage who smoke: <sup>1</sup> |                                    |                     | Smoking frequency |                                |            | Total | Number of men |
|---------------------------|------------------------------------|------------------------------------|---------------------|-------------------|--------------------------------|------------|-------|---------------|
|                           | Cigarettes <sup>2</sup>            | Other type of tobacco <sup>3</sup> | Any type of tobacco | Daily smoker      | Occasional smoker <sup>4</sup> | Non-smoker |       |               |
| <b>Age</b>                |                                    |                                    |                     |                   |                                |            |       |               |
| 15-19                     | 2.9                                | 0.2                                | 2.9                 | 1.7               | 1.2                            | 97.0       | 100.0 | 2,781         |
| 20-24                     | 15.1                               | 1.2                                | 15.1                | 9.6               | 5.7                            | 84.7       | 100.0 | 2,032         |
| 25-29                     | 24.4                               | 1.2                                | 24.5                | 18.0              | 7.0                            | 75.1       | 100.0 | 1,721         |
| 30-34                     | 24.7                               | 1.1                                | 24.7                | 17.6              | 7.3                            | 75.1       | 100.0 | 1,383         |
| 35-39                     | 25.3                               | 0.8                                | 25.6                | 21.2              | 4.8                            | 74.0       | 100.0 | 1,280         |
| 40-44                     | 28.1                               | 0.3                                | 28.2                | 23.7              | 4.8                            | 71.5       | 100.0 | 1,097         |
| 45-49                     | 32.5                               | 1.1                                | 32.5                | 27.2              | 6.0                            | 66.8       | 100.0 | 883           |
| <b>Residence</b>          |                                    |                                    |                     |                   |                                |            |       |               |
| Urban                     | 17.2                               | 1.4                                | 17.4                | 12.4              | 5.2                            | 82.3       | 100.0 | 5,013         |
| Rural                     | 19.5                               | 0.3                                | 19.5                | 15.3              | 4.5                            | 80.2       | 100.0 | 6,165         |
| <b>Province</b>           |                                    |                                    |                     |                   |                                |            |       |               |
| Central                   | 19.6                               | 0.2                                | 19.8                | 13.2              | 6.6                            | 80.2       | 100.0 | 979           |
| Copperbelt                | 21.8                               | 2.1                                | 21.8                | 13.9              | 8.5                            | 77.6       | 100.0 | 1,727         |
| Eastern                   | 19.7                               | 0.4                                | 19.7                | 16.2              | 3.7                            | 80.1       | 100.0 | 1,476         |
| Luapula                   | 24.6                               | 0.2                                | 24.8                | 24.0              | 1.2                            | 74.8       | 100.0 | 849           |
| Lusaka                    | 15.9                               | 1.4                                | 16.0                | 12.5              | 3.9                            | 83.6       | 100.0 | 2,166         |
| Muchinga                  | 17.1                               | 0.1                                | 17.2                | 14.5              | 3.0                            | 82.5       | 100.0 | 599           |
| Northern                  | 18.1                               | 0.2                                | 18.2                | 13.6              | 5.0                            | 81.4       | 100.0 | 855           |
| North Western             | 19.4                               | 1.0                                | 19.4                | 13.2              | 6.4                            | 80.4       | 100.0 | 556           |
| Southern                  | 12.3                               | 0.2                                | 12.3                | 8.5               | 3.8                            | 87.7       | 100.0 | 1,395         |
| Western                   | 20.2                               | 0.2                                | 20.2                | 15.5              | 5.0                            | 79.5       | 100.0 | 574           |
| <b>Education</b>          |                                    |                                    |                     |                   |                                |            |       |               |
| No education              | 25.7                               | 0.5                                | 25.7                | 23.2              | 3.3                            | 73.5       | 100.0 | 446           |
| Primary                   | 22.9                               | 0.4                                | 22.9                | 18.8              | 4.5                            | 76.7       | 100.0 | 4,206         |
| Secondary                 | 16.2                               | 1.1                                | 16.3                | 11.1              | 5.4                            | 83.4       | 100.0 | 5,618         |
| Higher                    | 8.3                                | 0.9                                | 8.4                 | 5.3               | 3.2                            | 91.5       | 100.0 | 907           |
| <b>Wealth quintile</b>    |                                    |                                    |                     |                   |                                |            |       |               |
| Lowest                    | 28.2                               | 0.2                                | 28.3                | 22.8              | 5.9                            | 71.3       | 100.0 | 1,827         |
| Second                    | 21.2                               | 0.5                                | 21.3                | 17.4              | 4.0                            | 78.5       | 100.0 | 1,952         |
| Middle                    | 17.9                               | 0.5                                | 18.0                | 12.7              | 5.5                            | 81.8       | 100.0 | 2,218         |
| Fourth                    | 16.5                               | 1.0                                | 16.6                | 12.0              | 4.8                            | 83.2       | 100.0 | 2,552         |
| Highest                   | 12.1                               | 1.4                                | 12.2                | 8.4               | 4.1                            | 87.5       | 100.0 | 2,629         |
| Total 15-49               | 18.5                               | 0.8                                | 18.5                | 14.0              | 4.8                            | 81.2       | 100.0 | 11,177        |
| 50-59                     | 31.9                               | 0.3                                | 31.9                | 27.1              | 5.0                            | 67.9       | 100.0 | 955           |
| Total 15-59               | 19.5                               | 0.8                                | 19.6                | 15.0              | 4.8                            | 80.1       | 100.0 | 12,132        |

<sup>1</sup> Includes daily and occasional (less than daily) use

<sup>2</sup> Includes manufactured cigarettes, hand-rolled cigarettes, and kreteks

<sup>3</sup> Includes pipes full of tobacco, cigars, cigarillos, and water pipes

<sup>4</sup> Occasional refers to less often than daily use.

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**Table 3.11 Average number of cigarettes smoked daily: Men**

Among men age 15-49 who smoke cigarettes daily, percent distribution by average number of cigarettes smoked per day, according to background characteristics, Zambia DHS 2018

| Background characteristic | Average number of cigarettes smoked per day <sup>1</sup> |        |        |        |       |                    | Number of respondents who smoke cigarettes daily <sup>1</sup> |
|---------------------------|--|--------|--------|--------|-------|--------------------|---|
|                           | <5   | 5-9    | 10-14  | 15-24  | ≥25   | Don't know/missing |   |
| <b>Age</b>                |  |        |        |        |       |                    |   |
| 15-19                     | (72.6)   | (16.5) | (8.2)  | (2.8)  | (0.0) | (0.0)              | (100.0) 46  |
| 20-24                     | 57.2   | 27.7   | 10.3   | 4.4    | 0.5   | 0.0                | 100.0 195   |
| 25-29                     | 53.5   | 31.2   | 8.1    | 6.6    | 0.6   | 0.0                | 100.0 290   |
| 30-34                     | 46.9   | 31.4   | 16.2   | 3.1    | 2.5   | 0.0                | 100.0 242   |
| 35-39                     | 45.3   | 32.3   | 13.6   | 7.4    | 1.4   | 0.0                | 100.0 265   |
| 40-44                     | 41.7   | 31.1   | 17.4   | 7.3    | 2.5   | 0.0                | 100.0 257   |
| 45-49                     | 45.6   | 36.4   | 11.9   | 3.6    | 2.5   | 0.0                | 100.0 237   |
| <b>Residence</b>          |  |        |        |        |       |                    |   |
| Urban                     | 40.3   | 34.6   | 16.2   | 7.4    | 1.4   | 0.0                | 100.0 599   |
| Rural                     | 54.4   | 29.2   | 10.5   | 4.2    | 1.7   | 0.0                | 100.0 933   |
| <b>Province</b>           |  |        |        |        |       |                    |   |
| Central                   | 50.1   | 35.6   | 9.2    | 4.4    | 0.7   | 0.0                | 100.0 127   |
| Copperbelt                | 38.5   | 34.3   | 20.4   | 6.6    | 0.2   | 0.0                | 100.0 237   |
| Eastern                   | 46.4   | 36.7   | 12.7   | 3.3    | 0.9   | 0.0                | 100.0 238   |
| Luapula                   | 71.6   | 18.3   | 5.9    | 3.1    | 1.1   | 0.0                | 100.0 198   |
| Lusaka                    | 36.1   | 37.0   | 15.7   | 9.1    | 2.1   | 0.0                | 100.0 263   |
| Muchinga                  | 43.9   | 28.0   | 16.8   | 8.0    | 3.3   | 0.0                | 100.0 86  |
| Northern                  | 71.4   | 16.8   | 8.9    | 2.9    | 0.0   | 0.0                | 100.0 114   |
| North Western             | 44.5   | 31.6   | 6.1    | 8.5    | 9.4   | 0.0                | 100.0 73  |
| Southern                  | 45.6   | 30.8   | 13.5   | 6.9    | 3.3   | 0.0                | 100.0 107   |
| Western                   | 52.3   | 37.2   | 9.8    | 0.4    | 0.4   | 0.0                | 100.0 89  |
| <b>Education</b>          |  |        |        |        |       |                    |   |
| No education              | 54.1   | 35.2   | 8.0    | 1.5    | 1.1   | 0.0                | 100.0 104   |
| Primary                   | 49.8   | 31.1   | 12.3   | 5.3    | 1.4   | 0.0                | 100.0 766   |
| Secondary                 | 48.0   | 31.4   | 13.4   | 5.3    | 1.9   | 0.0                | 100.0 615   |
| Higher                    | (34.0)   | (24.1) | (21.4) | (18.4) | (2.0) | (0.0)              | (100.0) 47  |
| <b>Wealth quintile</b>    |  |        |        |        |       |                    |   |
| Lowest                    | 57.1   | 28.1   | 10.5   | 3.1    | 1.2   | 0.0                | 100.0 413   |
| Second                    | 51.2   | 31.7   | 10.6   | 4.9    | 1.6   | 0.0                | 100.0 337   |
| Middle                    | 51.7   | 29.5   | 10.2   | 6.2    | 2.4   | 0.0                | 100.0 277   |
| Fourth                    | 37.8   | 34.9   | 17.4   | 8.2    | 1.7   | 0.0                | 100.0 290   |
| Highest                   | 40.9   | 34.4   | 17.4   | 6.2    | 1.1   | 0.0                | 100.0 216   |
| Total 15-49               | 48.9   | 31.3   | 12.8   | 5.4    | 1.6   | 0.0                | 100.0 1,533   |
| 50-59                     | 45.6   | 34.8   | 10.7   | 6.0    | 2.9   | 0.0                | 100.0 257   |
| Total 15-59               | 48.4   | 31.8   | 12.5   | 5.5    | 1.8   | 0.0                | 100.0 1,790   |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes manufactured cigarettes, hand-rolled cigarettes, and kreteks

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**Table 3.12 Smokeless tobacco use and any tobacco use**

Percentage of women and men age 15-49 who currently use smokeless tobacco, according to type of tobacco product, and percentage who use any type of tobacco, Zambia DHS 2018

| Tobacco product                            | Women  | Men    |
|--|--------|--------|
| Snuff, by mouth                            | 0.2    | 0.4    |
| Snuff, by nose                             | 0.9    | 0.2    |
| Chewing tobacco                            | 0.0    | 0.0    |
| Other type of smokeless tobacco            | 0.0    | 0.0    |
| Any type of smokeless tobacco <sup>1</sup> | 1.1    | 0.5    |
| Any type of tobacco <sup>2</sup>           | 2.7    | 19.2   |
| Number                                     | 13,683 | 11,177 |

Note: Table includes women and men who use smokeless tobacco daily or occasionally (less than daily).

<sup>1</sup> Includes snuff by mouth, snuff by nose, and chewing tobacco

<sup>2</sup> Includes all types of smokeless tobacco shown in this table along with cigarettes, pipes, cigars, cigarillos, and water pipes

**Table 3.13 History of diabetes and hypertension**

Percent distribution of women age 15-49 by history of diabetes and hypertension, Zambia DHS 2018

| History of diabetes and hypertension       | Total  |
|--|--------|
| <b>History of diabetes</b>                 |        |
| Told had diabetes by medical practitioner  | 0.5    |
| Number of women                            | 13,683 |
| <b>Received treatment for diabetes</b>     |        |
| Receiving treatment <sup>1</sup>           | 36.3   |
| Not receiving treatment                    | 63.7   |
| Total                                      | 100.0  |
| Number of women with diabetes              | 68     |
| <b>History of hypertension</b>             |        |
| Told blood pressure was high               | 8.8    |
| Number of women                            | 13,683 |
| <b>Received treatment for hypertension</b> |        |
| Receiving treatment <sup>2</sup>           | 21.0   |
| Not receiving treatment                    | 79.0   |
| Total                                      | 100.0  |
| Number of women with high blood pressure   | 1,198  |

<sup>1</sup> Has taken medication for diabetes prescribed by a doctor or other health worker in the 2 weeks prior to the interview

<sup>2</sup> Has taken medication for hypertension prescribed by a doctor or other health worker in the 2 weeks prior to the interview

**Table 3.14 Use of surgery**

Percentage of women and men age 15-49 who underwent surgery in the 5 years preceding the survey, and percentage of women age 15-49 who underwent surgery in the 5 years preceding the survey excluding C-sections, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women   |  | Men             |   |               |
|---------------------------|---|--|-----------------|---|---------------|
|                           | Percentage who have undergone surgery in the last 5 years | Percentage who have undergone surgery in the last 5 years excluding C-sections | Number of women | Percentage who have undergone surgery in the last 5 years | Number of men |
| <b>Age</b>                |   |  |                 |   |               |
| 15-19                     | 1.7   | 0.2  | 3,000           | 1.6   | 2,781         |
| 20-24                     | 4.2   | 0.5  | 2,733           | 2.3   | 2,032         |
| 25-29                     | 5.7   | 0.9  | 2,237           | 2.0   | 1,721         |
| 30-34                     | 6.7   | 1.3  | 1,862           | 1.0   | 1,383         |
| 35-39                     | 6.3   | 1.0  | 1,697           | 2.4   | 1,280         |
| 40-44                     | 6.2   | 1.9  | 1,253           | 2.5   | 1,097         |
| 45-49                     | 5.1   | 1.9  | 900             | 2.6   | 883           |
| <b>Residence</b>          |   |  |                 |   |               |
| Urban                     | 6.0   | 1.3  | 6,374           | 3.1   | 5,013         |
| Rural                     | 3.7   | 0.6  | 7,309           | 1.0   | 6,165         |
| <b>Province</b>           |   |  |                 |   |               |
| Central                   | 3.9   | 0.7  | 1,165           | 0.6   | 979           |
| Copperbelt                | 5.0   | 0.7  | 2,201           | 3.3   | 1,727         |
| Eastern                   | 6.9   | 1.0  | 1,605           | 1.2   | 1,476         |
| Luapula                   | 5.5   | 0.9  | 1,071           | 2.9   | 849           |
| Lusaka                    | 4.8   | 1.3  | 2,733           | 3.4   | 2,166         |
| Muchinga                  | 4.0   | 0.9  | 754             | 0.5   | 599           |
| Northern                  | 3.5   | 0.6  | 1,054           | 0.5   | 855           |
| North Western             | 3.3   | 0.7  | 718             | 1.3   | 556           |
| Southern                  | 5.2   | 0.8  | 1,574           | 0.8   | 1,395         |
| Western                   | 2.5   | 0.5  | 808             | 2.6   | 574           |
| <b>Education</b>          |   |  |                 |   |               |
| No education              | 3.8   | 0.6  | 1,054           | 0.7   | 446           |
| Primary                   | 3.5   | 0.6  | 6,059           | 1.3   | 4,206         |
| Secondary                 | 5.1   | 0.9  | 5,816           | 2.0   | 5,618         |
| Higher                    | 13.3  | 3.3  | 755             | 5.5   | 907           |
| <b>Wealth quintile</b>    |   |  |                 |   |               |
| Lowest                    | 3.4   | 0.3  | 2,442           | 0.9   | 1,827         |
| Second                    | 3.3   | 0.5  | 2,387           | 0.7   | 1,952         |
| Middle                    | 3.9   | 0.8  | 2,477           | 1.3   | 2,218         |
| Fourth                    | 5.0   | 1.0  | 3,011           | 2.2   | 2,552         |
| Highest                   | 7.2   | 1.5  | 3,367           | 4.1   | 2,629         |
| Total 15-49               | 4.8   | 0.9  | 13,683          | 2.0   | 11,177        |
| 50-59                     | na  | na   | na              | 2.8   | 955           |
| Total 15-59               | na  | na   | na              | 2.0   | 12,132        |

na = Not applicable

## MARRIAGE AND SEXUAL ACTIVITY

### Key Findings

- **Current marital status:** Fifty-six percent of women and 50% of men age 15-49 are currently married or living together with a partner as if married.
- **Polygyny:** Eleven percent of women age 15-49 have one or more co-wives.
- **Median age at first marriage:** Median age at first marriage is 19.1 years among women and 24.4 years among men age 25-49.
- **Age at first sexual intercourse:** Seventeen percent of women had sexual intercourse by age 15, as compared with 11% of men.
- **Median age at first sexual intercourse:** Median age at first sexual intercourse is 16.6 years among women age 25-49 and 18.5 years among men age 25-59.

**M**arriage and sexual activity help determine the extent to which women are exposed to the risk of pregnancy. Thus, they are important determinants of fertility levels. However, the timing and circumstances of marriage and sexual activity also have profound consequences for women's and men's lives.

#### 4.1 MARITAL STATUS

##### Currently married

Women and men who report being married or living together with a partner as though married at the time of the survey.

**Sample:** Women and men age 15-49

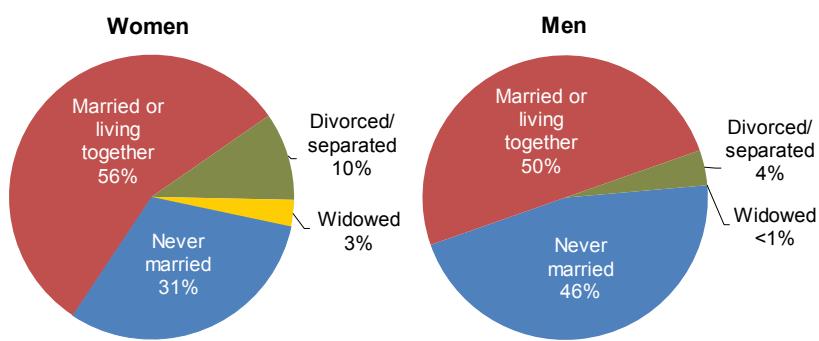
**Table 4.1** shows that roughly one in seven women (15%) age 15-19 are currently in union, as compared with only 1% of men of the same age. Fifty-five percent of women age 15-49 are married, compared with 50% of men. The percentage of women age 15-49 who are married increases until age 35-39 and begins to drop thereafter. The percentage of married men continues to increase from age 15-19 to age 45-49.

Thirty-one percent of women have never been married, 56% are married or living together with a partner as if married, 10% are divorced or separated, and 3% are widowed. Among men, 46% have never been married, 50% are married or living together with a partner as if married, 4% are divorced or separated, and less than 1% are widowed (**Figure 4.1**).

**Trends:** The percentage of women who are currently married has declined over time, from 61% in 1992 to 55% in 2018. The percentage of men who are married increased from 48% in 1996 to 55% in 2001-02 before declining to 50% in 2018.

**Figure 4.1 Marital status**

Percent distribution of women and men age 15-49



## 4.2 POLYGYNY

### Polygyny

Women who report that their husband or partner has other wives are considered to be in a polygynous marriage

Men who report that they have more than one wife, or who live with more than one woman as if married, are considered to be in a polygynous marriage

**Sample:** Currently married women and men age 15-49

Eleven percent of married women age 15-49 reported that their husband has other wives. Five percent of men age 15-49 reported having two or more wives (**Tables 4.2.1 and 4.2.2**).

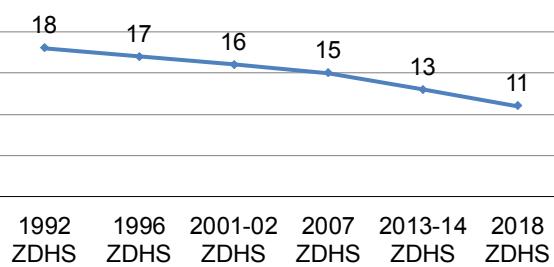
**Trends:** The percentage of married women in a polygynous union has declined over time, from 18% in 1992 to 11% in 2018 (**Figure 4.2**).

### Patterns by background characteristics

- The percentage of women with one or more co-wives is highest among those age 45-49 (18%) and lowest among those age 15-19 (3%). Similarly, men age 45-49 are most likely to have two or more wives (10%) (**Tables 4.2.1 and 4.2.2**).
- Women in urban areas (4%) are less likely than women in rural areas (16%) to have one or more co-wives. The percentage of men with two or more wives is 1% in urban areas and 7% in rural areas.
- Across the provinces, Southern (22%) has the highest percentage of women who report being in a polygynous union, while Copperbelt and Lusaka have the lowest percentages (4% each). Similarly, Southern (11%) has the highest percentage of men who report having two or more wives, while Copperbelt and Lusaka have the lowest percentages (1% each).
- Women with no education (18%) are more likely to have co-wives than women with a higher education (2%). Among men, age 15-49 those with a primary education are most likely to have two or more wives (7%).

**Figure 4.2 Trends in polygyny**

Percentage of married women age 15-49 in a polygynous union



## 4.3 AGE AT FIRST MARRIAGE

### Median age at first marriage

Age by which half of respondents have been married.

**Sample:** Women age 20-49 and 25-49 and men age 20-49, 25-49, 20-59, and 25-59

In Zambia, women marry earlier than men. The median age at first marriage is 19.1 years among women and 24.4 years among men age 25-49. Nine percent of women were first married by age 15, as compared with less than 1% of men. By age 18, the percentage of women who are married increases to 39%. By age 25, four in five women (81%) are married (**Table 4.3**).

**Trends:** Median age at first marriage has increased over time among both women (from 17.4 years in 1992 to 19.1 years in 2018) and men (from 23.5 years in 1996 to 24.4 years in 2018).

### Patterns by background characteristics

- Median age at first marriage among women age 25-49 is lower in rural areas (18.3 years) than in urban areas (20.3 years) (**Table 4.4**).
- Median age at first marriage among women age 25-49 increases with increasing education, from 17.5 years among those with no education to 20.6 years among those with a secondary education.

## 4.4 AGE AT FIRST SEXUAL INTERCOURSE

### Median age at first sexual intercourse

Age by which half of respondents have had sexual intercourse.

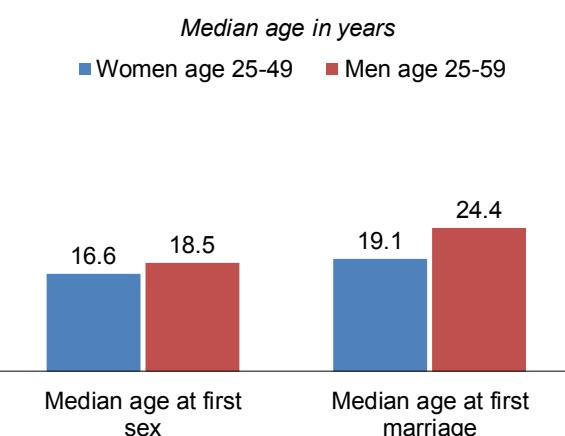
**Sample:** Women age 20-49 and 25-49 and men age 20-49, 25-49, 20-59, and 25-59

In Zambia, the median age at first sexual intercourse among women age 25-49 is 16.6 years. Seventeen percent of women had sexual intercourse by age 15 and 69% by age 18. By age 25, 95% of women have had sexual intercourse.

Men in Zambia initiate sexual intercourse at older ages than women. The median age at first sex among men age 25-59 is 18.5 years. Eleven percent of men age 25-49 had sexual intercourse by age 15 and 43% by age 18. Ninety-one percent of men have had sexual intercourse by age 25 (**Table 4.5**).

Among women age 25-49, the median age at first sexual intercourse is 2.5 years earlier than the median age at first marriage (16.6 years versus 19.1 years). Thus, exposure to the risk of childbearing is earlier than the median age at marriage (**Figure 4.3**).

**Figure 4.3 Median age at first sex and first marriage**



**Trends:** Median age at first sexual intercourse among women age 25-49 increased from 16.3 years in 1992 to 17.3 years in 2013-14 before declining to 16.6 years in 2018. Among men age 25-49, median age at first sexual intercourse has increased over time, from 16.7 years in 1996 to 18.5 years in 2018. The percentage of women who had sexual intercourse by age 18 declined from 71% in 1992 to 58% in 2013-14 before increasing to 69% in 2018. The percentage of men who had sex by age 18 declined from 65% in 1996 to 43% in 2018.

#### **Patterns by background characteristics**

- Women in rural areas begin having sexual intercourse 1.1 years earlier than women in urban areas (16.2 years versus 17.3 years) (**Table 4.6**).
- By province, median age at first sexual intercourse among women age 25-49 is lowest in North Western (15.7 years) and highest in Lusaka (17.5). Among men age 25-59, median age at first sexual intercourse is lowest in Eastern and Western (17.3 years each) and highest in Copperbelt (19.8).
- Among both women and men, median age at first sexual intercourse increases with increasing education. Among women age 25-49, it ranges from 15.8 years among those with no education to 20.0 years among those with a higher education. Among men age 25-59, it ranges from 17.9 years among those with no education to 19.8 years among those with a higher education.
- Median age at first sexual intercourse among women increases with increasing household wealth, from 16.0 years among those in the lowest wealth quintile to 18.1 years among those in the highest quintile (**Table 4.6**).

### **4.5 RECENT SEXUAL ACTIVITY**

The 2018 ZDHS collected data on recent sexual activity among women and men age 15-49. Among women, 53% had sexual intercourse within the 4 weeks prior to the survey, while 13% had never had sexual intercourse. Among men, 57% had sexual intercourse within the past 4 weeks, while 17% had never had sex (**Tables 4.7.1** and **4.7.2**).

#### **LIST OF TABLES**

For more information on marriage and sexual activity, see the following tables:

- **Table 4.1 Current marital status**
- **Table 4.2.1 Number of women's co-wives**
- **Table 4.2.2 Number of men's wives**
- **Table 4.3 Age at first marriage**
- **Table 4.4 Median age at first marriage by background characteristics**
- **Table 4.5 Age at first sexual intercourse**
- **Table 4.6 Median age at first sexual intercourse according to background characteristics**
- **Table 4.7.1 Recent sexual activity: Women**
- **Table 4.7.2 Recent sexual activity: Men**

**Table 4.1 Current marital status**

Percent distribution of women and men age 15-49 by current marital status, according to age, Zambia DHS 2018

| Age         | Marital status |         |                 |          |           |         | Total | Percentage of respondents currently in union | Number of respondents |
|-------------|----------------|---------|-----------------|----------|-----------|---------|-------|--|-----------------------|
|             | Never married  | Married | Living together | Divorced | Separated | Widowed |       |  |                       |
| WOMEN       |                |         |                 |          |           |         |       |  |                       |
| 15-19       | 84.4           | 14.4    | 0.2             | 0.3      | 0.7       | 0.0     | 100.0 | 14.6   | 3,000                 |
| 20-24       | 39.7           | 52.3    | 0.3             | 4.5      | 2.8       | 0.3     | 100.0 | 52.6   | 2,733                 |
| 25-29       | 18.3           | 68.3    | 0.7             | 7.3      | 4.0       | 1.3     | 100.0 | 69.0   | 2,237                 |
| 30-34       | 7.2            | 74.5    | 0.5             | 10.7     | 4.8       | 2.3     | 100.0 | 75.0   | 1,862                 |
| 35-39       | 3.0            | 76.1    | 1.0             | 11.9     | 3.5       | 4.6     | 100.0 | 77.0   | 1,697                 |
| 40-44       | 3.1            | 71.7    | 0.8             | 13.3     | 3.2       | 7.9     | 100.0 | 72.4   | 1,253                 |
| 45-49       | 2.5            | 68.1    | 0.5             | 11.2     | 3.0       | 14.7    | 100.0 | 68.6   | 900                   |
| Total 15-49 | 31.2           | 55.4    | 0.5             | 7.1      | 3.0       | 2.9     | 100.0 | 55.9   | 13,683                |
| MEN         |                |         |                 |          |           |         |       |  |                       |
| 15-19       | 98.9           | 1.1     | 0.0             | 0.0      | 0.0       | 0.0     | 100.0 | 1.1  | 2,781                 |
| 20-24       | 75.8           | 22.3    | 0.3             | 1.1      | 0.5       | 0.0     | 100.0 | 22.6   | 2,032                 |
| 25-29       | 32.5           | 62.9    | 0.4             | 1.9      | 2.2       | 0.1     | 100.0 | 63.3   | 1,721                 |
| 30-34       | 11.0           | 81.9    | 0.4             | 4.2      | 2.0       | 0.5     | 100.0 | 82.3   | 1,383                 |
| 35-39       | 5.8            | 85.9    | 0.3             | 5.3      | 1.9       | 0.7     | 100.0 | 86.2   | 1,280                 |
| 40-44       | 3.7            | 88.1    | 0.1             | 5.1      | 2.0       | 1.0     | 100.0 | 88.3   | 1,097                 |
| 45-49       | 3.0            | 88.3    | 0.1             | 4.9      | 1.8       | 1.9     | 100.0 | 88.4   | 883                   |
| Total 15-49 | 46.0           | 49.6    | 0.2             | 2.5      | 1.2       | 0.4     | 100.0 | 49.9   | 11,177                |
| 50-59       | 2.4            | 88.9    | 0.8             | 4.8      | 1.7       | 1.4     | 100.0 | 89.7   | 955                   |
| Total 15-59 | 42.6           | 52.7    | 0.3             | 2.7      | 1.3       | 0.5     | 100.0 | 53.0   | 12,132                |

**Table 4.2.1 Number of women's co-wives**

Percent distribution of currently married women age 15-49 by number of co-wives, and percentage of currently married women with one or more co-wives, according to background characteristics, Zambia DHS 2018

| Background characteristic | Number of co-wives |      |     |            | Total | Percentage with one or more co-wives <sup>1</sup> | Number of women |
|---------------------------|--------------------|------|-----|------------|-------|---|-----------------|
|                           | 0                  | 1    | 2+  | Don't know |       |   |                 |
| <b>Age</b>                |                    |      |     |            |       |   |                 |
| 15-19                     | 96.7               | 2.3  | 0.6 | 0.3        | 100.0 | 3.0   | 437             |
| 20-24                     | 91.7               | 6.5  | 0.7 | 1.1        | 100.0 | 7.3   | 1,438           |
| 25-29                     | 89.0               | 8.6  | 1.4 | 1.1        | 100.0 | 10.0  | 1,544           |
| 30-34                     | 89.3               | 8.6  | 1.1 | 1.1        | 100.0 | 9.6   | 1,396           |
| 35-39                     | 84.0               | 12.2 | 2.3 | 1.6        | 100.0 | 14.5  | 1,307           |
| 40-44                     | 83.4               | 11.7 | 4.2 | 0.7        | 100.0 | 15.9  | 908             |
| 45-49                     | 81.2               | 13.0 | 4.7 | 1.2        | 100.0 | 17.6  | 618             |
| <b>Residence</b>          |                    |      |     |            |       |   |                 |
| Urban                     | 93.9               | 4.0  | 0.3 | 1.8        | 100.0 | 4.3   | 3,080           |
| Rural                     | 83.7               | 12.7 | 3.0 | 0.6        | 100.0 | 15.7  | 4,568           |
| <b>Province</b>           |                    |      |     |            |       |   |                 |
| Central                   | 87.3               | 8.2  | 3.5 | 1.0        | 100.0 | 11.7  | 654             |
| Copperbelt                | 96.3               | 3.5  | 0.0 | 0.2        | 100.0 | 3.5   | 1,043           |
| Eastern                   | 83.1               | 13.8 | 1.8 | 1.3        | 100.0 | 15.6  | 1,075           |
| Luapula                   | 91.3               | 7.7  | 0.5 | 0.5        | 100.0 | 8.2   | 611             |
| Lusaka                    | 93.7               | 3.7  | 0.3 | 2.3        | 100.0 | 3.9   | 1,384           |
| Muchinga                  | 82.7               | 13.5 | 3.3 | 0.5        | 100.0 | 16.8  | 470             |
| Northern                  | 85.4               | 13.0 | 1.1 | 0.5        | 100.0 | 14.1  | 668             |
| North Western             | 90.3               | 8.4  | 0.1 | 1.2        | 100.0 | 8.5   | 359             |
| Southern                  | 77.1               | 14.8 | 6.8 | 1.3        | 100.0 | 21.6  | 993             |
| Western                   | 88.2               | 9.7  | 1.9 | 0.3        | 100.0 | 11.5  | 392             |
| <b>Education</b>          |                    |      |     |            |       |   |                 |
| No education              | 81.9               | 15.4 | 2.1 | 0.6        | 100.0 | 17.5  | 743             |
| Primary                   | 85.3               | 11.1 | 2.7 | 0.9        | 100.0 | 13.8  | 3,881           |
| Secondary                 | 91.8               | 5.7  | 0.9 | 1.6        | 100.0 | 6.7   | 2,635           |
| Higher                    | 97.9               | 1.4  | 0.2 | 0.5        | 100.0 | 1.6   | 389             |
| <b>Wealth quintile</b>    |                    |      |     |            |       |   |                 |
| Lowest                    | 85.2               | 12.3 | 1.9 | 0.6        | 100.0 | 14.2  | 1,553           |
| Second                    | 82.4               | 14.4 | 2.7 | 0.5        | 100.0 | 17.1  | 1,509           |
| Middle                    | 85.1               | 11.0 | 3.1 | 0.8        | 100.0 | 14.1  | 1,468           |
| Fourth                    | 91.0               | 5.5  | 1.6 | 1.9        | 100.0 | 7.1   | 1,620           |
| Highest                   | 95.4               | 2.9  | 0.3 | 1.4        | 100.0 | 3.2   | 1,499           |
| Total                     | 87.8               | 9.2  | 1.9 | 1.1        | 100.0 | 11.1  | 7,648           |

<sup>1</sup> Excludes women who responded "don't know" when asked if their husband has other wives

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**Table 4.2.2 Number of men's wives**

Percent distribution of currently married men age 15-49 by number of wives, according to background characteristics, Zambia DHS 2018

| Background characteristic | Number of wives |       | Number of men |       |
|---------------------------|-----------------|-------|---------------|-------|
|                           | 1               | 2+    | Total         | men   |
| <b>Age</b>                |                 |       |               |       |
| 15-19                     | (98.7)          | (1.3) | 100.0         | 31    |
| 20-24                     | 99.5            | 0.5   | 100.0         | 459   |
| 25-29                     | 97.6            | 2.4   | 100.0         | 1,090 |
| 30-34                     | 96.3            | 3.7   | 100.0         | 1,138 |
| 35-39                     | 95.5            | 4.5   | 100.0         | 1,104 |
| 40-44                     | 92.2            | 7.8   | 100.0         | 968   |
| 45-49                     | 90.3            | 9.7   | 100.0         | 781   |
| <b>Residence</b>          |                 |       |               |       |
| Urban                     | 98.8            | 1.2   | 100.0         | 2,170 |
| Rural                     | 92.8            | 7.2   | 100.0         | 3,402 |
| <b>Province</b>           |                 |       |               |       |
| Central                   | 95.8            | 4.2   | 100.0         | 486   |
| Copperbelt                | 99.3            | 0.7   | 100.0         | 728   |
| Eastern                   | 93.6            | 6.4   | 100.0         | 857   |
| Luapula                   | 93.9            | 6.1   | 100.0         | 429   |
| Lusaka                    | 98.7            | 1.3   | 100.0         | 1,022 |
| Muchinga                  | 93.5            | 6.5   | 100.0         | 332   |
| Northern                  | 95.1            | 4.9   | 100.0         | 475   |
| North Western             | 95.8            | 4.2   | 100.0         | 271   |
| Southern                  | 89.1            | 10.9  | 100.0         | 704   |
| Western                   | 92.9            | 7.1   | 100.0         | 267   |
| <b>Education</b>          |                 |       |               |       |
| No education              | 93.9            | 6.1   | 100.0         | 276   |
| Primary                   | 92.7            | 7.3   | 100.0         | 2,263 |
| Secondary                 | 96.8            | 3.2   | 100.0         | 2,492 |
| Higher                    | 98.3            | 1.7   | 100.0         | 541   |
| <b>Wealth quintile</b>    |                 |       |               |       |
| Lowest                    | 93.7            | 6.3   | 100.0         | 1,168 |
| Second                    | 91.8            | 8.2   | 100.0         | 1,087 |
| Middle                    | 94.5            | 5.5   | 100.0         | 1,119 |
| Fourth                    | 96.7            | 3.3   | 100.0         | 1,187 |
| Highest                   | 99.2            | 0.8   | 100.0         | 1,011 |
| Total 15-49               | 95.1            | 4.9   | 100.0         | 5,572 |
| 50-59                     | 92.6            | 7.4   | 100.0         | 856   |
| Total 15-59               | 94.8            | 5.2   | 100.0         | 6,428 |

Note: Figures in parentheses are based on 25-49 unweighted cases.

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**Table 4.3 Age at first marriage**

Percentage of women and men age 15-49 who were first married by specific exact ages and median age at first marriage, according to current age, Zambia DHS 2018

| Current age | Percentage first married by exact age: |      |      |      |      | Percentage never married | Number of respondents | Median age at first marriage |
|-------------|--|------|------|------|------|--------------------------|-----------------------|------------------------------|
|             | 15                                     | 18   | 20   | 22   | 25   |                          |                       |                              |
| WOMEN       |  |      |      |      |      |                          |                       |                              |
| 15-19       | 2.2                                    | na   | na   | na   | na   | 84.4                     | 3,000                 | a                            |
| 20-24       | 5.2                                    | 29.0 | 46.5 | na   | na   | 39.7                     | 2,733                 | a                            |
| 25-29       | 7.9                                    | 33.5 | 51.8 | 65.3 | 76.7 | 18.3                     | 2,237                 | 19.8                         |
| 30-34       | 10.1                                   | 37.2 | 56.7 | 70.1 | 81.3 | 7.2                      | 1,862                 | 19.4                         |
| 35-39       | 8.6                                    | 44.7 | 63.7 | 74.2 | 83.9 | 3.0                      | 1,697                 | 18.5                         |
| 40-44       | 9.5                                    | 40.6 | 60.9 | 72.5 | 81.6 | 3.1                      | 1,253                 | 18.9                         |
| 45-49       | 10.2                                   | 45.8 | 64.1 | 76.4 | 86.8 | 2.5                      | 900                   | 18.4                         |
| 20-49       | 8.1                                    | 36.6 | 55.3 | na   | na   | 16.3                     | 10,683                | 19.4                         |
| 25-49       | 9.1                                    | 39.3 | 58.3 | 70.7 | 81.2 | 8.2                      | 7,950                 | 19.1                         |
| MEN         |  |      |      |      |      |                          |                       |                              |
| 15-19       | 0.0                                    | na   | na   | na   | na   | 98.9                     | 2,781                 | a                            |
| 20-24       | 0.1                                    | 2.8  | 10.0 | na   | na   | 75.8                     | 2,032                 | a                            |
| 25-29       | 0.1                                    | 4.0  | 13.3 | 27.8 | 53.2 | 32.5                     | 1,721                 | 24.6                         |
| 30-34       | 0.2                                    | 4.7  | 13.2 | 28.9 | 54.3 | 11.0                     | 1,383                 | 24.4                         |
| 35-39       | 0.2                                    | 5.1  | 16.2 | 29.8 | 52.8 | 5.8                      | 1,280                 | 24.6                         |
| 40-44       | 0.0                                    | 4.3  | 15.5 | 34.5 | 61.8 | 3.7                      | 1,097                 | 23.6                         |
| 45-49       | 0.2                                    | 4.7  | 14.1 | 30.1 | 50.7 | 3.0                      | 883                   | 24.9                         |
| 20-49       | 0.1                                    | 4.1  | 13.3 | na   | na   | 28.5                     | 8,396                 | a                            |
| 25-49       | 0.1                                    | 4.5  | 14.4 | 29.9 | 54.5 | 13.4                     | 6,365                 | 24.4                         |
| 20-59       | 0.1                                    | 4.0  | 13.3 | na   | na   | 25.8                     | 9,351                 | a                            |
| 25-59       | 0.1                                    | 4.4  | 14.2 | 29.8 | 54.6 | 12.0                     | 7,319                 | 24.4                         |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner.

na = Not applicable due to censoring

a = Omitted because less than 50% of the women or men began living with their spouse or partner for the first time before reaching the beginning of the age group

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**Table 4.4 Median age at first marriage by background characteristics**

Median age at first marriage among women age 20-49 and age 25-49, and median age at first marriage among men age 25-59, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women age |       | Men age<br>25-59 |
|---------------------------|-----------|-------|------------------|
|                           | 20-49     | 25-49 |                  |
| <b>Residence</b>          |           |       |                  |
| Urban                     | a         | 20.3  | a                |
| Rural                     | 18.4      | 18.3  | 23.3             |
| <b>Province</b>           |           |       |                  |
| Central                   | 19.0      | 18.7  | 24.2             |
| Copperbelt                | a         | 20.1  | a                |
| Eastern                   | 18.0      | 17.8  | 22.7             |
| Luapula                   | 18.8      | 18.5  | 24.1             |
| Lusaka                    | a         | 20.3  | a                |
| Muchinga                  | 18.3      | 18.1  | 23.1             |
| Northern                  | 18.0      | 17.8  | 24.0             |
| North Western             | a         | 19.7  | 24.1             |
| Southern                  | 18.7      | 18.7  | 23.5             |
| Western                   | a         | 21.2  | 24.6             |
| <b>Education</b>          |           |       |                  |
| No education              | 17.6      | 17.5  | 23.4             |
| Primary                   | 17.9      | 17.9  | 22.9             |
| Secondary                 | a         | 20.6  | 24.8             |
| Higher                    | a         | a     | a                |
| <b>Wealth quintile</b>    |           |       |                  |
| Lowest                    | 18.2      | 18.2  | 23.2             |
| Second                    | 18.4      | 18.2  | 23.2             |
| Middle                    | 18.4      | 18.1  | 23.2             |
| Fourth                    | 19.6      | 19.1  | 24.9             |
| Highest                   | a         | 22.1  | a                |
| Total                     | 19.4      | 19.1  | 24.4             |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner.

a = Omitted because less than 50% of the respondents began living with their spouse or partner for the first time before reaching the beginning of the age group

**Table 4.5 Age at first sexual intercourse**

Percentage of women and men age 15-49 who had first sexual intercourse by specific exact ages, percentage who never had sexual intercourse, and median age at first sexual intercourse, according to current age, Zambia DHS 2018

| Current age | Percentage who had first sexual intercourse by exact age: |      |      |      |      | Percentage<br>who never<br>had<br>intercourse | Number | Median age<br>at first<br>intercourse |
|-------------|---|------|------|------|------|---|--------|---------------------------------------|
|             | 15  | 18   | 20   | 22   | 25   |   |        |                                       |
| WOMEN       |   |      |      |      |      |   |        |                                       |
| 15-19       | 12.7  | na   | na   | na   | na   | 50.3  | 3,000  | a                                     |
| 20-24       | 15.4  | 62.6 | 82.5 | na   | na   | 8.0   | 2,733  | 17.0                                  |
| 25-29       | 14.6  | 63.3 | 80.3 | 89.4 | 93.6 | 2.1   | 2,237  | 16.9                                  |
| 30-34       | 17.9  | 68.2 | 85.3 | 91.6 | 94.8 | 0.8   | 1,862  | 16.6                                  |
| 35-39       | 18.3  | 73.1 | 87.1 | 92.3 | 96.1 | 0.1   | 1,697  | 16.5                                  |
| 40-44       | 16.6  | 70.8 | 85.5 | 93.3 | 95.9 | 0.1   | 1,253  | 16.6                                  |
| 45-49       | 20.0  | 71.0 | 86.0 | 92.7 | 94.5 | 0.3   | 900    | 16.4                                  |
| 20-49       | 16.6  | 67.1 | 83.9 | na   | na   | 2.7   | 10,683 | 16.7                                  |
| 25-49       | 17.1  | 68.6 | 84.4 | 91.5 | 94.9 | 0.8   | 7,950  | 16.6                                  |
| 15-24       | 14.0  | na   | na   | na   | na   | 30.2  | 5,733  | a                                     |
| MEN         |   |      |      |      |      |   |        |                                       |
| 15-19       | 16.3  | na   | na   | na   | na   | 54.7  | 2,781  | a                                     |
| 20-24       | 13.0  | 47.7 | 72.7 | na   | na   | 12.3  | 2,032  | 18.1                                  |
| 25-29       | 12.2  | 43.2 | 67.0 | 82.0 | 93.2 | 2.7   | 1,721  | 18.5                                  |
| 30-34       | 11.6  | 44.5 | 66.6 | 82.0 | 91.7 | 0.7   | 1,383  | 18.4                                  |
| 35-39       | 9.6   | 43.6 | 67.5 | 81.8 | 90.5 | 0.6   | 1,280  | 18.4                                  |
| 40-44       | 8.8   | 40.2 | 65.4 | 82.6 | 89.9 | 0.3   | 1,097  | 18.6                                  |
| 45-49       | 9.0   | 41.8 | 64.7 | 79.6 | 88.4 | 0.3   | 883    | 18.5                                  |
| 20-49       | 11.1  | 44.0 | 68.0 | na   | na   | 3.8   | 8,396  | 18.4                                  |
| 25-49       | 10.5  | 42.8 | 66.4 | 81.7 | 91.1 | 1.1   | 6,365  | 18.5                                  |
| 15-24       | 14.9  | na   | na   | na   | na   | 36.8  | 4,813  | a                                     |
| 20-59       | 11.0  | 43.8 | 67.8 | na   | na   | 3.4   | 9,351  | 18.4                                  |
| 25-59       | 10.4  | 42.7 | 66.4 | 81.7 | 91.0 | 1.0   | 7,319  | 18.5                                  |

na = Not applicable due to censoring

a = Omitted because less than 50% of the respondents had sexual intercourse for the first time before reaching the beginning of the age group

**Table 4.6 Median age at first sexual intercourse according to background characteristics**

Median age at first sexual intercourse among women age 20-49 and age 25-49, and median age at first sexual intercourse among men age 20-59 and age 25-59, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women age |       | Men age |       |
|---------------------------|-----------|-------|---------|-------|
|                           | 20-49     | 25-49 | 20-59   | 25-59 |
| <b>Residence</b>          |           |       |         |       |
| Urban                     | 17.5      | 17.3  | 19.0    | 19.0  |
| Rural                     | 16.2      | 16.2  | 17.9    | 18.0  |
| <b>Province</b>           |           |       |         |       |
| Central                   | 16.6      | 16.6  | 18.6    | 18.7  |
| Copperbelt                | 17.4      | 17.0  | 19.7    | 19.8  |
| Eastern                   | 16.3      | 16.3  | 17.2    | 17.3  |
| Luapula                   | 16.7      | 16.6  | 18.4    | 18.5  |
| Lusaka                    | 17.6      | 17.5  | 18.9    | 19.0  |
| Muchinga                  | 16.4      | 16.2  | 18.9    | 19.1  |
| Northern                  | 16.6      | 16.5  | 18.2    | 18.2  |
| North Western             | 15.8      | 15.7  | 17.5    | 17.7  |
| Southern                  | 16.4      | 16.4  | 17.7    | 17.6  |
| Western                   | 15.8      | 15.9  | 16.9    | 17.3  |
| <b>Education</b>          |           |       |         |       |
| No education              | 15.8      | 15.8  | 17.9    | 17.9  |
| Primary                   | 16.1      | 16.2  | 18.0    | 18.1  |
| Secondary                 | 17.5      | 17.3  | 18.5    | 18.6  |
| Higher                    | a         | 20.0  | 19.8    | 19.8  |
| <b>Wealth quintile</b>    |           |       |         |       |
| Lowest                    | 16.0      | 16.0  | 17.8    | 18.1  |
| Second                    | 16.2      | 16.1  | 17.8    | 17.8  |
| Middle                    | 16.4      | 16.3  | 18.1    | 18.1  |
| Fourth                    | 16.8      | 16.7  | 18.7    | 18.9  |
| Highest                   | 18.3      | 18.1  | 19.2    | 19.3  |
| Total                     | 16.7      | 16.6  | 18.4    | 18.5  |

a = Omitted because less than 50% of the respondents had intercourse for the first time before reaching the beginning of the age group

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**Table 4.7.1 Recent sexual activity: Women**

Percent distribution of women age 15-49 by timing of last sexual intercourse, according to background characteristics, Zambia DHS 2018

| Background characteristic           | Timing of last sexual intercourse |                            |                   | Never had sexual intercourse | Total | Number of women |
|-------------------------------------|-----------------------------------|----------------------------|-------------------|------------------------------|-------|-----------------|
|                                     | Within the past 4 weeks           | Within 1 year <sup>1</sup> | One or more years |                              |       |                 |
| <b>Age</b>                          |                                   |                            |                   |                              |       |                 |
| 15-19                               | 19.1                              | 21.9                       | 8.7               | 50.3                         | 100.0 | 3,000           |
| 20-24                               | 52.9                              | 27.5                       | 11.6              | 8.0                          | 100.0 | 2,733           |
| 25-29                               | 65.3                              | 24.3                       | 8.3               | 2.1                          | 100.0 | 2,237           |
| 30-34                               | 68.7                              | 20.3                       | 10.2              | 0.8                          | 100.0 | 1,862           |
| 35-39                               | 69.1                              | 19.3                       | 11.5              | 0.1                          | 100.0 | 1,697           |
| 40-44                               | 64.2                              | 18.2                       | 17.5              | 0.1                          | 100.0 | 1,253           |
| 45-49                               | 60.7                              | 14.1                       | 24.8              | 0.3                          | 100.0 | 900             |
| <b>Marital status</b>               |                                   |                            |                   |                              |       |                 |
| Never married                       | 12.8                              | 28.9                       | 16.3              | 42.0                         | 100.0 | 4,272           |
| Married or living together          | 84.5                              | 13.4                       | 2.1               | 0.0                          | 100.0 | 7,648           |
| Divorced/separated/widowed          | 15.5                              | 42.7                       | 41.8              | 0.0                          | 100.0 | 1,762           |
| <b>Marital duration<sup>2</sup></b> |                                   |                            |                   |                              |       |                 |
| 0-4 years                           | 83.9                              | 15.0                       | 1.0               | 0.0                          | 100.0 | 1,645           |
| 5-9 years                           | 84.6                              | 13.9                       | 1.6               | 0.0                          | 100.0 | 1,485           |
| 10-14 years                         | 84.6                              | 13.3                       | 2.1               | 0.0                          | 100.0 | 1,100           |
| 15-19 years                         | 84.4                              | 12.1                       | 3.5               | 0.0                          | 100.0 | 889             |
| 20-24 years                         | 84.5                              | 12.7                       | 2.8               | 0.0                          | 100.0 | 683             |
| 25+ years                           | 86.0                              | 10.1                       | 3.8               | 0.0                          | 100.0 | 596             |
| Married more than once              | 84.5                              | 13.6                       | 1.9               | 0.0                          | 100.0 | 1,251           |
| <b>Residence</b>                    |                                   |                            |                   |                              |       |                 |
| Urban                               | 47.5                              | 22.6                       | 13.6              | 16.4                         | 100.0 | 6,374           |
| Rural                               | 58.3                              | 21.5                       | 9.9               | 10.3                         | 100.0 | 7,309           |
| <b>Province</b>                     |                                   |                            |                   |                              |       |                 |
| Central                             | 53.4                              | 21.0                       | 11.4              | 14.2                         | 100.0 | 1,165           |
| Copperbelt                          | 45.7                              | 20.9                       | 14.8              | 18.6                         | 100.0 | 2,201           |
| Eastern                             | 63.0                              | 21.6                       | 7.0               | 8.4                          | 100.0 | 1,605           |
| Luapula                             | 52.6                              | 22.7                       | 11.3              | 13.4                         | 100.0 | 1,071           |
| Lusaka                              | 49.2                              | 22.3                       | 13.5              | 14.9                         | 100.0 | 2,733           |
| Muchinga                            | 57.3                              | 15.6                       | 12.0              | 15.1                         | 100.0 | 754             |
| Northern                            | 53.5                              | 18.8                       | 13.1              | 14.6                         | 100.0 | 1,054           |
| North Western                       | 51.5                              | 25.8                       | 11.0              | 11.7                         | 100.0 | 718             |
| Southern                            | 61.5                              | 22.7                       | 7.8               | 8.1                          | 100.0 | 1,574           |
| Western                             | 49.8                              | 30.9                       | 12.2              | 7.2                          | 100.0 | 808             |
| <b>Education</b>                    |                                   |                            |                   |                              |       |                 |
| No education                        | 62.0                              | 18.3                       | 15.5              | 4.2                          | 100.0 | 1,054           |
| Primary                             | 59.9                              | 19.6                       | 10.2              | 10.3                         | 100.0 | 6,059           |
| Secondary                           | 44.9                              | 24.9                       | 11.9              | 18.3                         | 100.0 | 5,816           |
| Higher                              | 51.5                              | 24.2                       | 15.8              | 8.5                          | 100.0 | 755             |
| <b>Wealth quintile</b>              |                                   |                            |                   |                              |       |                 |
| Lowest                              | 57.5                              | 22.6                       | 11.7              | 8.2                          | 100.0 | 2,442           |
| Second                              | 59.9                              | 20.4                       | 9.8               | 9.9                          | 100.0 | 2,387           |
| Middle                              | 56.9                              | 22.7                       | 9.7               | 10.6                         | 100.0 | 2,477           |
| Fourth                              | 52.9                              | 21.7                       | 12.7              | 12.7                         | 100.0 | 3,011           |
| Highest                             | 42.9                              | 22.6                       | 13.3              | 21.2                         | 100.0 | 3,367           |
| Total                               | 53.2                              | 22.0                       | 11.6              | 13.1                         | 100.0 | 13,683          |

<sup>1</sup> Excludes women who had sexual intercourse within the last 4 weeks

<sup>2</sup> Excludes women who are not currently married

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**Table 4.7.2 Recent sexual activity: Men**

Percent distribution of men age 15-49 by timing of last sexual intercourse, according to background characteristics, Zambia DHS 2018

| Background characteristic           | Timing of last sexual intercourse |                            |                   | Never had sexual intercourse | Total | Number of men |
|-------------------------------------|-----------------------------------|----------------------------|-------------------|------------------------------|-------|---------------|
|                                     | Within the past 4 weeks           | Within 1 year <sup>1</sup> | One or more years |                              |       |               |
| <b>Age</b>                          |                                   |                            |                   |                              |       |               |
| 15-19                               | 15.3                              | 17.5                       | 12.5              | 54.7                         | 100.0 | 2,781         |
| 20-24                               | 43.7                              | 29.1                       | 14.9              | 12.3                         | 100.0 | 2,032         |
| 25-29                               | 70.8                              | 19.1                       | 7.4               | 2.7                          | 100.0 | 1,721         |
| 30-34                               | 80.5                              | 13.6                       | 5.3               | 0.7                          | 100.0 | 1,383         |
| 35-39                               | 82.9                              | 11.8                       | 4.7               | 0.6                          | 100.0 | 1,280         |
| 40-44                               | 83.4                              | 11.8                       | 4.5               | 0.3                          | 100.0 | 1,097         |
| 45-49                               | 81.8                              | 12.7                       | 5.2               | 0.3                          | 100.0 | 883           |
| <b>Marital status</b>               |                                   |                            |                   |                              |       |               |
| Never married                       | 22.4                              | 25.3                       | 16.5              | 35.8                         | 100.0 | 5,142         |
| Married or living together          | 90.5                              | 9.0                        | 0.5               | 0.0                          | 100.0 | 5,572         |
| Divorced/separated/widowed          | 32.0                              | 40.2                       | 27.8              | 0.0                          | 100.0 | 463           |
| <b>Marital duration<sup>2</sup></b> |                                   |                            |                   |                              |       |               |
| 0-4 years                           | 88.2                              | 11.3                       | 0.5               | 0.0                          | 100.0 | 1,345         |
| 5-9 years                           | 90.7                              | 9.0                        | 0.3               | 0.0                          | 100.0 | 1,176         |
| 10-14 years                         | 89.3                              | 10.3                       | 0.4               | 0.0                          | 100.0 | 795           |
| 15-19 years                         | 92.2                              | 7.3                        | 0.5               | 0.0                          | 100.0 | 661           |
| 20-24 years                         | 91.0                              | 7.8                        | 1.2               | 0.0                          | 100.0 | 472           |
| 25+ years                           | 93.9                              | 5.5                        | 0.6               | 0.0                          | 100.0 | 205           |
| Married more than once              | 92.6                              | 6.9                        | 0.5               | 0.0                          | 100.0 | 918           |
| <b>Residence</b>                    |                                   |                            |                   |                              |       |               |
| Urban                               | 50.1                              | 18.6                       | 11.5              | 19.9                         | 100.0 | 5,013         |
| Rural                               | 62.2                              | 17.2                       | 7.0               | 13.7                         | 100.0 | 6,165         |
| <b>Province</b>                     |                                   |                            |                   |                              |       |               |
| Central                             | 54.0                              | 19.5                       | 8.5               | 18.0                         | 100.0 | 979           |
| Copperbelt                          | 48.3                              | 16.2                       | 12.4              | 23.1                         | 100.0 | 1,727         |
| Eastern                             | 66.4                              | 17.5                       | 7.3               | 8.8                          | 100.0 | 1,476         |
| Luapula                             | 55.4                              | 18.3                       | 9.3               | 17.0                         | 100.0 | 849           |
| Lusaka                              | 53.6                              | 16.9                       | 10.9              | 18.6                         | 100.0 | 2,166         |
| Muchinga                            | 58.9                              | 13.6                       | 6.2               | 21.3                         | 100.0 | 599           |
| Northern                            | 56.2                              | 16.6                       | 9.1               | 18.2                         | 100.0 | 855           |
| North Western                       | 56.5                              | 23.5                       | 8.1               | 11.9                         | 100.0 | 556           |
| Southern                            | 61.9                              | 18.7                       | 5.9               | 13.5                         | 100.0 | 1,395         |
| Western                             | 62.6                              | 21.4                       | 7.5               | 8.6                          | 100.0 | 574           |
| <b>Education</b>                    |                                   |                            |                   |                              |       |               |
| No education                        | 64.2                              | 15.6                       | 8.4               | 11.8                         | 100.0 | 446           |
| Primary                             | 60.0                              | 15.4                       | 6.9               | 17.8                         | 100.0 | 4,206         |
| Secondary                           | 52.6                              | 19.1                       | 10.7              | 17.5                         | 100.0 | 5,618         |
| Higher                              | 63.9                              | 21.7                       | 8.4               | 6.0                          | 100.0 | 907           |
| <b>Wealth quintile</b>              |                                   |                            |                   |                              |       |               |
| Lowest                              | 67.5                              | 16.7                       | 5.5               | 10.4                         | 100.0 | 1,827         |
| Second                              | 63.0                              | 16.7                       | 6.6               | 13.8                         | 100.0 | 1,952         |
| Middle                              | 59.4                              | 16.3                       | 9.6               | 14.7                         | 100.0 | 2,218         |
| Fourth                              | 53.0                              | 19.2                       | 8.9               | 18.9                         | 100.0 | 2,552         |
| Highest                             | 46.1                              | 19.3                       | 12.8              | 21.8                         | 100.0 | 2,629         |
| Total 15-49                         | 56.8                              | 17.8                       | 9.0               | 16.5                         | 100.0 | 11,177        |
| 50-59                               | 81.4                              | 12.0                       | 6.4               | 0.2                          | 100.0 | 955           |
| Total 15-59                         | 58.7                              | 17.3                       | 8.8               | 15.2                         | 100.0 | 12,132        |

<sup>1</sup> Excludes men who had sexual intercourse within the last 4 weeks

<sup>2</sup> Excludes men who are not currently married

### Key Findings

- **Total fertility rate (TFR):** The TFR in Zambia is 4.7 children per woman. Urban areas have a lower TFR (3.4) than rural areas (5.8).
- **Median birth interval:** The median birth interval in Zambia is 38.3 months.
- **Menopause:** The percentage of women who are menopausal ranges from 4% among those age 30-34 to 46% among those age 48-49.
- **Median age at first birth:** The median age at first birth among women age 20-49 is 19.2 years.
- **Teenage motherhood:** The percentage of women age 15-19 who have begun childbearing increases with age, from 6% among those age 15 to 53% among those age 19.

The number of children that a woman bears depends on many factors, including the age she begins childbearing, how long she waits between births, and her fecundity. Postponing first births and extending the interval between births have played a role in reducing fertility levels in many countries. These factors also have positive health consequences. In contrast, short birth intervals (of less than 24 months) can lead to harmful outcomes for both newborns and their mothers, such as preterm birth, low birth weight, and death. Childbearing at a very young age is associated with an increased risk of complications during pregnancy and childbirth and higher rates of neonatal mortality.

This chapter describes the current level of fertility in Zambia and some of its proximate determinants. It presents information on the total fertility rate, birth intervals, insusceptibility to pregnancy (due to postpartum amenorrhoea, postpartum abstinence, or menopause), age at first birth, and teenage childbearing.

## 5.1 CURRENT FERTILITY

### Total fertility rate

The average number of children a woman would have by the end of her childbearing years if she bore children at the current age-specific fertility rates. Age-specific fertility rates are calculated for the 3 years before the survey, based on detailed birth histories provided by women.

**Sample:** Women age 15-49

The total fertility rate (TFR) in Zambia is 4.7 children per woman. The TFR is lower in urban areas (3.4 children per woman) than in rural areas (5.8 children per woman). Age-specific fertility rates peak at age 20-24 (203 births per 1,000 women) and are lowest among women less than age 15 (3 births per 1,000 women) and those age 45-49 (12 births per 1,000 women) (**Table 5.1**).

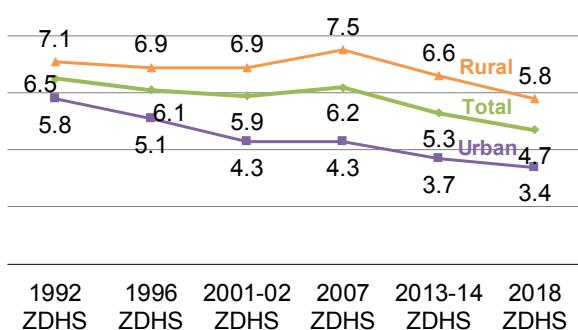
**Trends:** The TFR in Zambia has declined by almost two children since 1992 (from 6.5 to 4.7 children per woman). TFR declines have been higher in urban areas (from 5.8 children per woman in 1992 to 3.4 in 2018) than in rural areas (from 7.1 to 5.8 children per woman) (**Figure 5.1**).

#### Patterns by background characteristics

- By province, the TFR ranges from a low of 3.4 children per woman in Copperbelt to a high of 6.0 children per woman in Luapula (**Table 5.2** and **Figure 5.2**).
- The average number of children per woman declines with increasing education. Women with no education have an average of 6.4 children, as compared with 2.4 children among women with a higher education.
- Women in the lowest wealth quintile (6.7) have almost four more children than those in the highest wealth quintile (3.0).

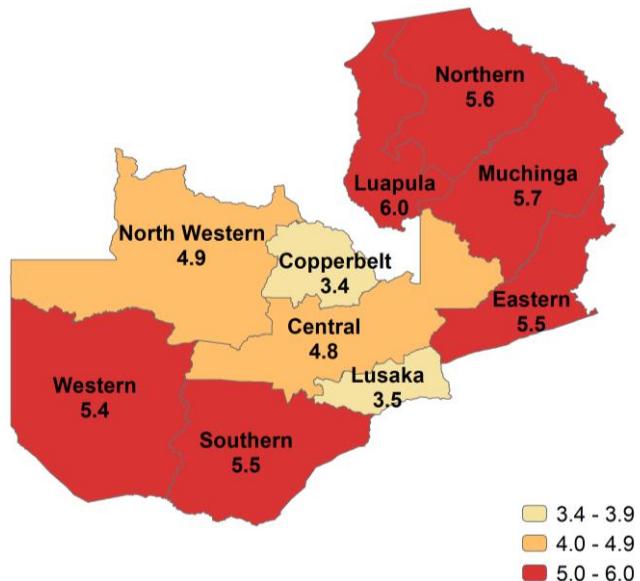
**Figure 5.1 Trends in fertility by residence**

*Total fertility rate for the 3 years before each survey*



**Figure 5.2 Fertility by province**

*Total fertility rate for the 3 years before the survey*



## 5.2 CHILDREN EVER BORN AND LIVING

The 2018 ZDHS collected data on the number of children ever born to women age 15-49 and whether each child was still alive at the time of the survey. On average, women have given birth to 2.75 children, of whom 2.50 were still living at the time of the survey (**Table 5.4**). Number of children ever born increases with women's age; women age 45-49 have given birth to 6.35 children, among whom 5.46 were still living at the time of the survey. Currently married women age 15-49 have had an average of 3.84 children, of whom 3.51 were still living at the time of the survey (**Table 5.4**).

## 5.3 BIRTH INTERVALS

### Median birth interval

Number of months since the preceding birth by which half of children are born.

**Sample:** Non-first births in the 5 years before the survey

After a live birth, the recommended interval before the next pregnancy is at least 24 months in order to reduce the risk of adverse maternal, perinatal, and infant outcomes (WHO 2005b). In Zambia, the median birth interval is 38.3 months. Fourteen percent of births occurred less than the recommended 24 months after the preceding birth (5% occurred 7-17 months after the preceding birth, and 9% occurred 18-23 months after the preceding birth) (**Table 5.5** and **Figure 5.3**).

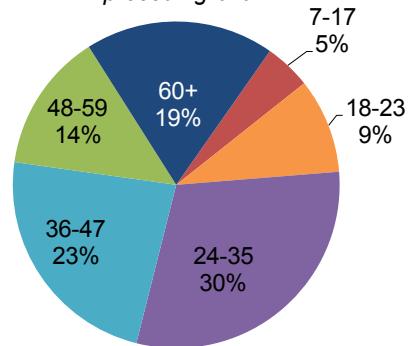
**Trends:** The median birth interval in Zambia has exceeded the WHO-recommended 24 months after the preceding birth since 1992. Between 1992 and 2018, the median birth interval increased by 6.9 months (from 31.4 months to 38.3 months).

### Patterns by background characteristics

- Birth intervals increase with age, from 26.0 months among women age 15-19 to 45.6 months among women age 40-49 (**Table 5.5**).
- The median birth interval varies only slightly according to the sex of the preceding birth.
- The median birth interval is shorter (28.0 months) if the child from the preceding birth is dead than if the child is alive (38.8 months).
- Women with seven or more children have a shorter median birth interval (36.4 months) than women with two or three children (38.0 months).
- The median birth interval is longer in urban areas (44.9 months) than in rural areas (36.2 months).
- Across the provinces, the median birth interval ranges from 33.8 months in Luapula to 44.0 months in Lusaka.
- Median birth intervals increase with increasing education and household wealth. The median birth interval is 36.7 months among women with no education, as compared with 53.7 months among women with a higher education. Similarly, the median birth interval is 34.5 months among women in the lowest wealth quintile, compared with 50.3 months among women in the highest quintile.

**Figure 5.3 Birth intervals**

*Percent distribution of non-first births by number of months since the preceding birth*



## 5.4 INSUSCEPTIBILITY TO PREGNANCY

### **Postpartum amenorrhoea**

The period of time after the birth of a child and before the resumption of menstruation.

### **Postpartum abstinence**

The period of time after the birth of a child and before the resumption of sexual intercourse.

### **Postpartum insusceptibility**

The period of time during which a woman is considered not at risk of pregnancy either because she is postpartum amenorrhoeic and/or abstaining from sexual intercourse postpartum.

### **Median duration of postpartum amenorrhoea**

Calculated as the number of months after childbirth by which time half of women have begun menstruating.

**Sample:** Women who gave birth in the 3 years before the survey

### **Median duration of postpartum insusceptibility**

Calculated as the number of months after childbirth by which time half of women are no longer protected against pregnancy either by postpartum amenorrhoea or abstinence from sexual intercourse.

**Sample:** Women who gave birth in the 3 years before the survey

Postpartum amenorrhoea refers to the interval between childbirth and the return of menstruation. During this period, the risk of pregnancy is reduced. Among women who are not using contraception, exposure to the risk of pregnancy in the period following childbirth is determined by two major factors, namely breastfeeding and sexual abstinence. Postpartum protection from conception can be prolonged by the length and intensity of breastfeeding or by delayed resumption of sexual activities (postpartum abstinence).

The median duration of postpartum amenorrhoea among women who gave birth in the 3 years before the survey is 8.9 months, while the median durations of abstinence and insusceptibility are 3.9 months and 10.8 months, respectively (**Table 5.6**).

**Trends:** Median durations of postpartum amenorrhoea, abstinence, and insusceptibility fluctuated from 2013-14 to 2018. The median duration of postpartum amenorrhoea declined from 9.5 months in 2013-14 to 8.9 months in 2018, while the median duration of postpartum abstinence increased from 3.0 months to 3.9 months over the same period. The median duration of postpartum insusceptibility declined from 11.5 months in 2013-14 to 10.8 months in 2018.

### **Patterns by background characteristics**

- Median durations of postpartum amenorrhoea, abstinence, and insusceptibility are longer among women in rural areas than among those in urban areas (**Table 5.7**).
- Median durations of postpartum amenorrhoea are longest among women in Northern (12.3 months) and Luapula (12.2 months) and shortest among women in Lusaka (4.4 months). The median duration of postpartum insusceptibility is longest in Western (17.5 months) and shortest in Lusaka (5.7 months).

## 5.5 MENOPAUSE

### Menopause

Women are considered to have reached menopause if they are neither pregnant nor postpartum amenorrhoeic and have not had a menstrual period in the 6 months before the survey, or if they report being menopausal or having had a hysterectomy, or if they have never menstruated.

**Sample:** Women age 30-49

The 2018 ZDHS collected data on the percentage of women age 30-49 who are menopausal. Nationally, 9% of women are menopausal. By age group, the percentage of women who are menopausal ranges from 4% among those age 30-34 to 46% among those age 48-49 (**Table 5.8**).

## 5.6 AGE AT FIRST BIRTH

### Median age at first birth

Age by which half of women have had their first child.

**Sample:** Women age 20-49 and 25-49

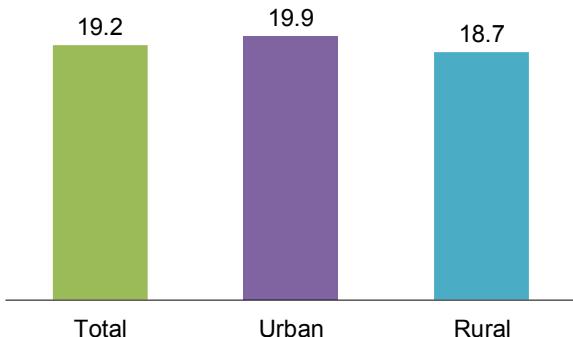
The age at which childbearing commences has a direct influence on a woman's cumulative fertility, particularly when there is little or no contraceptive use. The earlier a woman begins childbearing, the greater her likelihood of having many children. Also, having children at too young an age can have negative repercussions for the mother's health and can put her child's health at risk. In Zambia, the median age at first birth among women age 20-49 is 19.2 years (**Table 5.9**).

### Patterns by background characteristics

- The median age at first birth ranges from 18.9 years among women age 35-39 to 19.4 years among women age 20-24.
- Among women age 25-49, the median age at first birth is higher in urban areas (19.9 years) than rural areas (18.7 years) (**Table 5.10** and **Figure 5.4**).
- Across the provinces, median age at first birth is lowest in Southern, Northern, and Eastern provinces (18.7 years each) and highest in Lusaka (20.0 years).
- Median age at first birth increases with increasing education, from 18.4 years among women with no education to 24.5 years among women with a higher education.
- The median age at first birth is lowest among women in the second and middle wealth quintiles (18.6 years each) and highest among those in the highest quintile (21.0 years).

**Figure 5.4 Median age at first birth by residence**

*Median age at first birth among women age 25-49*



## 5.7 TEENAGE CHILDBEARING

### Teenage childbearing

Percentage of women age 15-19 who have given birth or are pregnant with their first child.

**Sample:** Women age 15-19

Adolescent pregnancy undermines girls' human rights and compromises their opportunity to fully realise their socioeconomic development potential. Teenagers who have early exposure to sexual intercourse are thereby at risk of pregnancy and childbearing. The 2018 ZDHS collected data on pregnancy in late adolescence (age 15-19). Twenty-nine percent of adolescents had begun childbearing at the time of the survey. Twenty-four percent had given birth, while 5% were pregnant with their first child (**Table 5.11**).

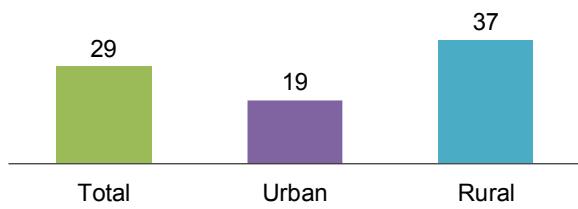
**Trends:** Teenage childbearing declined from 34% in 1992 to 29% in 2013-14 and 2018.

### Patterns by background characteristics

- The percentage of women age 15-19 who have begun childbearing increases with age, from 6% among those age 15 to 53% among those age 19 (**Table 5.11**).
- The percentage of teenagers who have begun childbearing is higher in rural areas (37%) than in urban areas (19%) (**Figure 5.5**).
- Across the provinces, the percentage of teenagers who have begun childbearing ranges from 15% in Lusaka to 43% in Southern (**Table 5.11**).
- The percentage of women age 15-19 who have begun childbearing declines with increasing education and household wealth. Forty-two percent of young women with no education have begun childbearing, as compared with 23% of those with a secondary education. Similarly, 46% of young women in the lowest wealth quintile have begun childbearing, compared with 8% of those in the highest quintile.

**Figure 5.5 Teenage pregnancy and motherhood by residence**

Percentage of women age 15-19 who have begun childbearing



## 5.8 SEXUAL AND REPRODUCTIVE BEHAVIOURS BEFORE AGE 15

Among women and men age 15-19, 13% of women and 16% of men had sexual intercourse by age 15. Only 2% of women and less than 1% of men age 15-19 were married by age 15. Two percent of women age 15-19 gave birth before age 15, and less than 1% of men in that age group fathered a child before age 15 (**Table 5.12**).

## **LIST OF TABLES**

For more information on fertility levels and some of the determinants of fertility, see the following tables:

- **Table 5.1 Current fertility**
- **Table 5.2 Fertility by background characteristics**
- **Table 5.3.1 Trends in age-specific fertility rates**
- **Table 5.3.2 Trends in age-specific and total fertility rates**
- **Table 5.4 Children ever born and living**
- **Table 5.5 Birth intervals**
- **Table 5.6 Postpartum amenorrhoea, abstinence, and insusceptibility**
- **Table 5.7 Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility**
- **Table 5.8 Menopause**
- **Table 5.9 Age at first birth**
- **Table 5.10 Median age at first birth**
- **Table 5.11 Teenage pregnancy and motherhood**
- **Table 5.12 Sexual and reproductive health behaviours before age 15**

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**Table 5.1 Current fertility**

Age-specific and total fertility rates, the general fertility rate, and the crude birth rate for the 3 years preceding the survey, by residence, Zambia DHS 2018

| Age group   | Residence |       |       |
|-------------|-----------|-------|-------|
|             | Urban     | Rural | Total |
| <15         | 1         | 4     | 3     |
| 15-19       | 88        | 174   | 135   |
| 20-24       | 144       | 260   | 203   |
| 25-29       | 153       | 245   | 199   |
| 30-34       | 153       | 222   | 187   |
| 35-39       | 107       | 164   | 138   |
| 40-44       | 33        | 86    | 63    |
| 45-49       | 5         | 16    | 12    |
| TFR (15-49) | 3.4       | 5.8   | 4.7   |
| GFR         | 120       | 201   | 163   |
| CBR         | 30.9      | 38.4  | 35.3  |

Note: Age-specific fertility rates are per 1,000 women.  
Rates for the 45-49 age group may be slightly biased due to truncation. Rates are for the period 1-36 months preceding the interview. Rates for the 10-14 age group are based on retrospective data from women age 15-17

TFR: Total fertility rate, expressed per woman

GFR: General fertility rate, expressed per 1,000 women age 15-44

CBR: Crude birth rate, expressed per 1,000 population

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**Table 5.2 Fertility by background characteristics**

Total fertility rate for the 3 years preceding the survey, percentage of women age 15-49 currently pregnant, and mean number of children ever born to women age 40-49, according to background characteristics, Zambia DHS 2018

| Background characteristic | Total fertility rate | Percentage of women age 15-49 currently pregnant | Mean number of children ever born to women age 40-49 |
|---------------------------|----------------------|--|--|
| <b>Residence</b>          |                      |  |  |
| Urban                     | 3.4                  | 6.4  | 4.6  |
| Rural                     | 5.8                  | 10.0   | 6.7  |
| <b>Province</b>           |                      |  |  |
| Central                   | 4.8                  | 8.4  | 6.1  |
| Copperbelt                | 3.4                  | 6.3  | 4.9  |
| Eastern                   | 5.5                  | 10.1   | 6.5  |
| Luapula                   | 6.0                  | 9.9  | 7.1  |
| Lusaka                    | 3.5                  | 6.2  | 4.6  |
| Muchinga                  | 5.7                  | 8.5  | 7.3  |
| Northern                  | 5.6                  | 8.4  | 7.0  |
| North Western             | 4.9                  | 7.9  | 6.6  |
| Southern                  | 5.5                  | 11.8   | 5.8  |
| Western                   | 5.4                  | 8.6  | 5.6  |
| <b>Education</b>          |                      |  |  |
| No education              | 6.4                  | 9.3  | 6.9  |
| Primary                   | 5.6                  | 9.1  | 6.5  |
| Secondary                 | 3.7                  | 7.4  | 4.6  |
| Higher                    | 2.4                  | 7.9  | 2.8  |
| <b>Wealth quintile</b>    |                      |  |  |
| Lowest                    | 6.7                  | 10.6   | 6.8  |
| Second                    | 5.9                  | 10.4   | 6.9  |
| Middle                    | 4.9                  | 8.9  | 6.5  |
| Fourth                    | 3.7                  | 8.3  | 5.4  |
| Highest                   | 3.0                  | 4.8  | 4.0  |
| Total                     | 4.7                  | 8.3  | 5.9  |

Note: Total fertility rates are for the period 1-36 months prior to the interview.

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**Table 5.3.1 Trends in age-specific fertility rates**

Age-specific fertility rates for 5-year periods preceding the survey, according to age group, Zambia DHS 2018

| Age group | Number of years preceding survey |       |       |       |
|-----------|----------------------------------|-------|-------|-------|
|           | 0-4                              | 5-9   | 10-14 | 15-19 |
| 10-14     | 3                                | 6     | 7     | 8     |
| 15-19     | 136                              | 147   | 153   | 163   |
| 20-24     | 215                              | 251   | 272   | 261   |
| 25-29     | 206                              | 245   | 266   | 255   |
| 30-34     | 187                              | 221   | 237   | [232] |
| 35-39     | 137                              | 183   | [212] |       |
| 40-44     | 67                               | [107] |       |       |
| 45-49     | [16]                             |       |       |       |

Note: Age-specific fertility rates are per 1,000 women. Estimates in brackets are truncated. Rates exclude the month of the interview. For the 0-4 year period, rates for the 10-14 age group are based on retrospective data from women age 15-19.

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**Table 5.3.2 Trends in age-specific and total fertility rates**

Age-specific and total fertility rates (TFR) for the 3-year period preceding several surveys, according to mother's age at the time of the birth, Zambia DHS 2018

| Mother's age at birth | 1992 ZDHS | 1996 ZDHS | 2001-02 ZDHS | 2007 ZDHS | 2013-14 ZDHS | 2018 ZDHS |
|-----------------------|-----------|-----------|--------------|-----------|--------------|-----------|
| 15-19                 | 156       | 158       | 160          | 146       | 141          | 135       |
| 20-24                 | 294       | 280       | 266          | 274       | 239          | 203       |
| 25-29                 | 271       | 274       | 249          | 263       | 232          | 199       |
| 30-34                 | 242       | 229       | 218          | 240       | 203          | 187       |
| 35-39                 | 194       | 175       | 172          | 191       | 152          | 138       |
| 40-44                 | 105       | 77        | 79           | 90        | 71           | 63        |
| 45-49                 | 31        | 24        | 30           | 29        | 14           | 12        |
| TFR (15-49)           | 6.5       | 6.1       | 5.9          | 6.2       | 5.3          | 4.7       |

Note: Age-specific fertility rates are per 1,000 women. Rates for the 45-49 age group may be slightly biased due to truncation.

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**Table 5.4 Children ever born and living**

Percent distribution of all women and currently married women age 15-49 by number of children ever born, mean number of children ever born, and mean number of living children, according to age group, Zambia DHS 2018

| Age                            | Number of children ever born |      |      |      |      |      |      |      |      |     |      | Total | Number of women | Mean number of children ever born | Mean number of living children |
|--------------------------------|------------------------------|------|------|------|------|------|------|------|------|-----|------|-------|-----------------|-----------------------------------|--------------------------------|
|                                | 0                            | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9   | 10+  |       |                 |                                   |                                |
| <b>ALL WOMEN</b>               |                              |      |      |      |      |      |      |      |      |     |      |       |                 |                                   |                                |
| 15-19                          | 75.9                         | 21.1 | 2.9  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 100.0 | 3,000           | 0.27                              | 0.26                           |
| 20-24                          | 26.2                         | 36.9 | 25.9 | 8.9  | 1.6  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 100.0 | 2,733           | 1.25                              | 1.16                           |
| 25-29                          | 10.0                         | 16.2 | 25.7 | 25.3 | 14.9 | 5.8  | 1.6  | 0.4  | 0.0  | 0.0 | 0.0  | 100.0 | 2,237           | 2.45                              | 2.30                           |
| 30-34                          | 4.4                          | 7.7  | 13.8 | 19.0 | 22.9 | 16.2 | 10.0 | 4.2  | 1.4  | 0.3 | 0.2  | 100.0 | 1,862           | 3.70                              | 3.43                           |
| 35-39                          | 1.3                          | 3.9  | 8.6  | 12.6 | 15.3 | 17.1 | 17.1 | 13.5 | 6.4  | 2.9 | 1.2  | 100.0 | 1,697           | 4.93                              | 4.52                           |
| 40-44                          | 2.0                          | 4.5  | 6.0  | 10.3 | 13.4 | 13.9 | 13.1 | 12.9 | 11.5 | 5.4 | 7.0  | 100.0 | 1,253           | 5.55                              | 4.95                           |
| 45-49                          | 2.3                          | 2.6  | 5.2  | 7.2  | 7.3  | 11.7 | 15.7 | 13.9 | 11.7 | 7.4 | 15.0 | 100.0 | 900             | 6.35                              | 5.46                           |
| Total                          | 24.6                         | 16.8 | 13.8 | 11.5 | 9.5  | 7.4  | 6.0  | 4.4  | 2.8  | 1.4 | 1.8  | 100.0 | 13,683          | 2.75                              | 2.50                           |
| <b>CURRENTLY MARRIED WOMEN</b> |                              |      |      |      |      |      |      |      |      |     |      |       |                 |                                   |                                |
| 15-19                          | 25.4                         | 59.7 | 14.4 | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 100.0 | 437             | 0.90                              | 0.84                           |
| 20-24                          | 5.9                          | 39.2 | 37.4 | 13.7 | 2.7  | 1.0  | 0.1  | 0.1  | 0.0  | 0.0 | 0.0  | 100.0 | 1,438           | 1.72                              | 1.59                           |
| 25-29                          | 2.2                          | 11.9 | 26.9 | 29.7 | 18.9 | 7.6  | 2.1  | 0.6  | 0.0  | 0.0 | 0.0  | 100.0 | 1,544           | 2.86                              | 2.69                           |
| 30-34                          | 1.4                          | 5.1  | 11.9 | 19.0 | 25.5 | 17.7 | 11.8 | 5.0  | 1.9  | 0.4 | 0.2  | 100.0 | 1,396           | 4.03                              | 3.76                           |
| 35-39                          | 0.8                          | 2.7  | 6.4  | 11.3 | 15.4 | 16.8 | 18.5 | 15.8 | 7.4  | 3.4 | 1.4  | 100.0 | 1,307           | 5.21                              | 4.79                           |
| 40-44                          | 1.0                          | 3.2  | 4.3  | 8.8  | 12.4 | 14.1 | 12.8 | 14.5 | 13.4 | 6.3 | 9.2  | 100.0 | 908             | 5.98                              | 5.34                           |
| 45-49                          | 0.6                          | 1.9  | 3.8  | 4.9  | 6.3  | 9.9  | 15.4 | 15.7 | 14.7 | 9.5 | 17.3 | 100.0 | 618             | 6.87                              | 5.97                           |
| Total                          | 3.6                          | 15.1 | 17.4 | 15.5 | 13.6 | 10.3 | 8.5  | 6.7  | 4.4  | 2.2 | 2.8  | 100.0 | 7,648           | 3.84                              | 3.51                           |

**Table 5.5 Birth intervals**

Percent distribution of non-first births in the 5 years preceding the survey by number of months since preceding birth, and median number of months since preceding birth, according to background characteristics, Zambia DHS 2018

| Background characteristic          | Months since preceding birth |       |       |       |       |      | Number of non-first births | Median number of months since preceding birth |
|------------------------------------|------------------------------|-------|-------|-------|-------|------|----------------------------|---|
|                                    | 7-17                         | 18-23 | 24-35 | 36-47 | 48-59 | 60+  |                            |   |
| <b>Mother's age</b>                |                              |       |       |       |       |      |                            |   |
| 15-19                              | 13.5                         | 29.8  | 40.0  | 10.9  | 4.7   | 1.1  | 100.0                      | 85  |
| 20-29                              | 5.8                          | 10.2  | 36.9  | 24.9  | 11.1  | 11.0 | 100.0                      | 3,264   |
| 30-39                              | 3.3                          | 8.7   | 25.1  | 22.3  | 16.8  | 23.8 | 100.0                      | 3,186   |
| 40-49                              | 3.3                          | 6.6   | 21.7  | 22.2  | 13.9  | 32.2 | 100.0                      | 786   |
| <b>Sex of preceding birth</b>      |                              |       |       |       |       |      |                            |   |
| Male                               | 4.9                          | 9.3   | 31.2  | 23.1  | 13.2  | 18.3 | 100.0                      | 3,695   |
| Female                             | 4.2                          | 9.5   | 29.1  | 23.5  | 14.4  | 19.2 | 100.0                      | 3,626   |
| <b>Survival of preceding birth</b> |                              |       |       |       |       |      |                            |   |
| Living                             | 3.1                          | 9.0   | 30.7  | 23.7  | 14.4  | 19.1 | 100.0                      | 6,828   |
| Dead                               | 24.7                         | 15.4  | 23.4  | 17.8  | 5.5   | 13.2 | 100.0                      | 493   |
| <b>Birth order</b>                 |                              |       |       |       |       |      |                            |   |
| 2-3                                | 4.6                          | 8.7   | 32.2  | 23.0  | 12.3  | 19.2 | 100.0                      | 3,382   |
| 4-6                                | 4.1                          | 9.7   | 26.9  | 23.7  | 16.4  | 19.1 | 100.0                      | 2,820   |
| 7+                                 | 5.6                          | 10.7  | 32.3  | 23.1  | 11.8  | 16.5 | 100.0                      | 1,119   |
| <b>Residence</b>                   |                              |       |       |       |       |      |                            |   |
| Urban                              | 3.9                          | 7.4   | 22.7  | 20.7  | 16.4  | 28.9 | 100.0                      | 2,449   |
| Rural                              | 4.9                          | 10.5  | 33.9  | 24.6  | 12.5  | 13.7 | 100.0                      | 4,872   |
| <b>Province</b>                    |                              |       |       |       |       |      |                            |   |
| Central                            | 4.3                          | 9.2   | 29.8  | 22.1  | 15.7  | 18.9 | 100.0                      | 640   |
| Copperbelt                         | 2.7                          | 8.7   | 26.3  | 22.2  | 14.5  | 25.6 | 100.0                      | 842   |
| Eastern                            | 3.9                          | 7.1   | 30.4  | 26.3  | 14.7  | 17.4 | 100.0                      | 966   |
| Luapula                            | 5.7                          | 15.1  | 36.2  | 20.0  | 11.7  | 11.4 | 100.0                      | 746   |
| Lusaka                             | 3.6                          | 7.9   | 22.6  | 20.9  | 16.3  | 28.6 | 100.0                      | 1,067   |
| Muchinga                           | 7.0                          | 11.4  | 33.8  | 23.2  | 11.0  | 13.6 | 100.0                      | 472   |
| Northern                           | 5.1                          | 11.3  | 38.2  | 21.7  | 11.3  | 12.3 | 100.0                      | 705   |
| North Western                      | 5.3                          | 8.9   | 29.1  | 26.2  | 11.8  | 18.8 | 100.0                      | 383   |
| Southern                           | 5.8                          | 8.6   | 28.6  | 24.5  | 14.8  | 17.7 | 100.0                      | 1,024   |
| Western                            | 3.2                          | 7.6   | 33.5  | 28.7  | 11.6  | 15.5 | 100.0                      | 476   |
| <b>Mother's education</b>          |                              |       |       |       |       |      |                            |   |
| No education                       | 3.9                          | 12.7  | 31.2  | 24.5  | 13.1  | 14.6 | 100.0                      | 892   |
| Primary                            | 5.0                          | 9.9   | 32.1  | 23.7  | 13.7  | 15.7 | 100.0                      | 3,989   |
| Secondary                          | 4.2                          | 7.8   | 28.0  | 22.9  | 14.2  | 23.0 | 100.0                      | 2,179   |
| Higher                             | 3.8                          | 5.4   | 16.3  | 16.9  | 13.5  | 44.1 | 100.0                      | 261   |
| <b>Wealth quintile</b>             |                              |       |       |       |       |      |                            |   |
| Lowest                             | 5.3                          | 12.3  | 37.0  | 25.2  | 10.3  | 9.9  | 100.0                      | 1,906   |
| Second                             | 4.4                          | 10.6  | 35.4  | 24.1  | 12.3  | 13.2 | 100.0                      | 1,679   |
| Middle                             | 4.0                          | 8.3   | 28.5  | 23.8  | 16.0  | 19.4 | 100.0                      | 1,378   |
| Fourth                             | 5.9                          | 6.7   | 25.2  | 23.4  | 15.8  | 23.0 | 100.0                      | 1,275   |
| Highest                            | 2.7                          | 7.3   | 18.2  | 17.8  | 17.2  | 36.8 | 100.0                      | 1,083   |
| Total                              | 4.6                          | 9.4   | 30.2  | 23.3  | 13.8  | 18.7 | 100.0                      | 7,321   |

Note: First-order births are excluded. The interval for multiple births is the number of months since the preceding pregnancy that ended in a live birth.

**Table 5.6 Postpartum amenorrhoea, abstinence, and insusceptibility**

Percentage of births in the 3 years preceding the survey for which mothers are postpartum amenorrhoeic, abstaining, and insusceptible, by number of months since birth, and median and mean durations, Zambia DHS 2018

| Months since birth | Percentage of births for which the mother is: |            |                            | Number of births |
|--------------------|---|------------|----------------------------|------------------|
|                    | Amenorrhoeic                                  | Abstaining | Insusceptible <sup>1</sup> |                  |
| <2                 | 95.5  | 88.8       | 98.4                       | 380              |
| 2-3                | 74.0  | 54.7       | 83.6                       | 321              |
| 4-5                | 63.1  | 33.4       | 72.6                       | 353              |
| 6-7                | 55.5  | 24.8       | 62.6                       | 314              |
| 8-9                | 49.7  | 19.1       | 56.6                       | 321              |
| 10-11              | 43.1  | 16.9       | 51.1                       | 310              |
| 12-13              | 33.7  | 11.7       | 40.8                       | 347              |
| 14-15              | 31.3  | 14.1       | 39.2                       | 322              |
| 16-17              | 22.3  | 12.9       | 30.9                       | 318              |
| 18-19              | 19.3  | 14.1       | 30.4                       | 317              |
| 20-21              | 16.4  | 11.0       | 24.5                       | 314              |
| 22-23              | 10.8  | 10.1       | 19.3                       | 344              |
| 24-25              | 3.2   | 10.8       | 12.8                       | 355              |
| 26-27              | 3.2   | 5.8        | 8.9                        | 357              |
| 28-29              | 3.0   | 5.2        | 8.0                        | 326              |
| 30-31              | 5.2   | 5.4        | 9.7                        | 324              |
| 32-33              | 1.4   | 6.9        | 8.1                        | 282              |
| 34-35              | 2.4   | 6.3        | 8.5                        | 287              |
| Total              | 30.4  | 20.3       | 37.7                       | 5,893            |
| Median             | 8.9   | 3.9        | 10.8                       | na               |
| Mean               | 11.7  | 8.0        | 14.3                       | na               |

Note: Estimates are based on status at the time of the survey.

na = Not applicable

<sup>1</sup> Includes births for which mothers are either still amenorrhoeic or still abstaining (or both) following birth

**Table 5.7 Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility**

Median number of months of postpartum amenorrhoea, postpartum abstinence, and postpartum insusceptibility following births in the 3 years preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic | Postpartum amenorrhoea | Postpartum abstinence | Postpartum insusceptibility <sup>1</sup> |
|---------------------------|------------------------|-----------------------|--|
| <b>Mother's age</b>       |                        |                       |  |
| 15-29                     | 8.4                    | 4.3                   | 10.6                                     |
| 30-49                     | 10.1                   | 3.1                   | 11.3                                     |
| <b>Residence</b>          |                        |                       |  |
| Urban                     | 5.4                    | 3.8                   | 7.8                                      |
| Rural                     | 10.7                   | 3.9                   | 12.3                                     |
| <b>Province</b>           |                        |                       |  |
| Central                   | 8.7                    | 3.2                   | 13.1                                     |
| Copperbelt                | 5.8                    | 5.1                   | 9.0                                      |
| Eastern                   | 8.5                    | 4.1                   | 8.9                                      |
| Luapula                   | 12.2                   | 4.5                   | 13.1                                     |
| Lusaka                    | 4.4                    | *                     | 5.7                                      |
| Muchinga                  | 9.2                    | (2.3)                 | 9.8                                      |
| Northern                  | 12.3                   | 4.6                   | 13.6                                     |
| North Western             | 11.1                   | 3.7                   | 12.3                                     |
| Southern                  | 10.5                   | 3.4                   | 11.2                                     |
| Western                   | 11.7                   | 7.5                   | 17.5                                     |
| <b>Mother's education</b> |                        |                       |  |
| No education              | 14.6                   | 3.7                   | 16.0                                     |
| Primary                   | 10.6                   | 3.9                   | 12.0                                     |
| Secondary                 | 6.3                    | 4.0                   | 8.7                                      |
| Higher                    | (3.4)                  | *                     | (4.3)                                    |
| <b>Wealth quintile</b>    |                        |                       |  |
| Lowest                    | 12.2                   | 4.4                   | 13.1                                     |
| Second                    | 11.1                   | 3.7                   | 15.4                                     |
| Middle                    | 8.8                    | 3.5                   | 10.7                                     |
| Fourth                    | 5.6                    | 4.3                   | 8.4                                      |
| Highest                   | 4.5                    | 3.5                   | 5.7                                      |
| Total                     | 8.9                    | 3.9                   | 10.8                                     |

Note: Medians are based on the status at the time of the survey (current status). Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Includes births for which mothers are either still amenorrhoeic or still abstaining (or both) following birth

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**Table 5.8 Menopause**

Percentage of women age 30-49 who are menopausal, according to age, Zambia DHS 2018

| Age   | Percentage<br>menopausal <sup>1</sup> | Number of<br>women |
|-------|---------------------------------------|--------------------|
| 30-34 | 3.8                                   | 1,862              |
| 35-39 | 4.3                                   | 1,697              |
| 40-41 | 7.6                                   | 513                |
| 42-43 | 6.2                                   | 497                |
| 44-45 | 13.7                                  | 463                |
| 46-47 | 26.4                                  | 345                |
| 48-49 | 45.5                                  | 334                |
| Total | 9.1                                   | 5,712              |

<sup>1</sup> Percentage of women who (1) are not pregnant, and (2) have had a birth in the past 5 years and are not postpartum amenorrhoeic, and (3) for whom one of the following additional conditions applies: (a) their last menstrual period occurred 6 or more months preceding the survey, (b) they declared that they are in menopause or have had a hysterectomy, or (c) they have never menstruated

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**Table 5.9 Age at first birth**

Percentage of women age 15-49 who gave birth by exact ages, percentage who have never given birth, and median age at first birth, according to current age, Zambia DHS 2018

| Current age | Percentage who gave birth by exact age |      |      |      |      | Percentage<br>who have<br>never given<br>birth | Number of<br>women | Median age<br>at first birth |
|-------------|--|------|------|------|------|--|--------------------|------------------------------|
|             | 15                                     | 18   | 20   | 22   | 25   |  |                    |                              |
| 15-19       | 1.8                                    | na   | na   | na   | na   | 75.9   | 3,000              | a                            |
| 20-24       | 2.9                                    | 30.9 | 56.9 | na   | na   | 26.2   | 2,733              | 19.4                         |
| 25-29       | 3.7                                    | 33.2 | 57.7 | 75.2 | 86.0 | 10.0   | 2,237              | 19.3                         |
| 30-34       | 4.3                                    | 32.4 | 58.2 | 75.8 | 87.3 | 4.4  | 1,862              | 19.3                         |
| 35-39       | 3.8                                    | 35.4 | 61.8 | 78.1 | 88.6 | 1.3  | 1,697              | 18.9                         |
| 40-44       | 3.6                                    | 33.3 | 59.8 | 77.7 | 87.0 | 2.0  | 1,253              | 19.2                         |
| 45-49       | 4.9                                    | 33.8 | 60.8 | 77.3 | 88.6 | 2.3  | 900                | 19.2                         |
| 20-49       | 3.7                                    | 32.9 | 58.7 | na   | na   | 10.2   | 10,683             | 19.2                         |
| 25-49       | 4.0                                    | 33.5 | 59.4 | 76.6 | 87.3 | 4.7  | 7,950              | 19.2                         |

na = Not applicable due to censoring

a = Omitted because less than 50% of women had a birth before reaching the beginning of the age group

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**Table 5.10 Median age at first birth**

Median age at first birth among women age 20-49 and age 25-49, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women age 20-49 | Women age 25-49 |
|---------------------------|-----------------|-----------------|
| <b>Residence</b>          |                 |                 |
| Urban                     | a               | 19.9            |
| Rural                     | 18.7            | 18.7            |
| <b>Province</b>           |                 |                 |
| Central                   | 18.9            | 18.8            |
| Copperbelt                | a               | 19.9            |
| Eastern                   | 18.7            | 18.7            |
| Luapula                   | 19.3            | 19.2            |
| Lusaka                    | a               | 20.0            |
| Muchinga                  | 19.0            | 18.9            |
| Northern                  | 18.7            | 18.7            |
| North Western             | 19.2            | 19.4            |
| Southern                  | 18.6            | 18.7            |
| Western                   | 18.9            | 19.0            |
| <b>Education</b>          |                 |                 |
| No education              | 18.4            | 18.4            |
| Primary                   | 18.5            | 18.6            |
| Secondary                 | a               | 19.9            |
| Higher                    | a               | 24.5            |
| <b>Wealth quintile</b>    |                 |                 |
| Lowest                    | 18.7            | 18.8            |
| Second                    | 18.6            | 18.6            |
| Middle                    | 18.6            | 18.6            |
| Fourth                    | 19.3            | 19.2            |
| Highest                   | a               | 21.0            |
| Total                     | 19.2            | 19.2            |

a = Omitted because less than 50% of women had a birth before reaching the beginning of the age group

**Table 5.11 Teenage pregnancy and motherhood**

Percentage of women age 15-19 who have had a live birth or who are pregnant with their first child, and percentage who have begun childbearing, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of women age 15-19 who: |                               | Percentage who have begun childbearing | Number of women |
|---------------------------|------------------------------------|-------------------------------|--|-----------------|
|                           | Have had a live birth              | Are pregnant with first child |  |                 |
| <b>Age</b>                |                                    |                               |  |                 |
| 15-17                     | 12.6                               | 3.9                           | 16.6                                   | 1,735           |
| 15                        | 4.0                                | 2.3                           | 6.4                                    | 653             |
| 16                        | 12.6                               | 2.6                           | 15.1                                   | 530             |
| 17                        | 22.8                               | 7.2                           | 30.0                                   | 552             |
| 18                        | 35.2                               | 6.7                           | 41.9                                   | 722             |
| 19                        | 46.2                               | 6.6                           | 52.9                                   | 543             |
| <b>Residence</b>          |                                    |                               |  |                 |
| Urban                     | 16.7                               | 2.6                           | 19.3                                   | 1,323           |
| Rural                     | 30.0                               | 7.1                           | 37.0                                   | 1,677           |
| <b>Province</b>           |                                    |                               |  |                 |
| Central                   | 26.4                               | 4.2                           | 30.6                                   | 297             |
| Copperbelt                | 18.8                               | 2.2                           | 21.0                                   | 491             |
| Eastern                   | 32.4                               | 7.1                           | 39.5                                   | 342             |
| Luapula                   | 23.0                               | 6.0                           | 29.0                                   | 253             |
| Lusaka                    | 11.5                               | 3.4                           | 14.9                                   | 475             |
| Muchinga                  | 22.3                               | 7.0                           | 29.3                                   | 191             |
| Northern                  | 21.6                               | 4.3                           | 25.9                                   | 248             |
| North Western             | 30.5                               | 5.3                           | 35.7                                   | 186             |
| Southern                  | 34.7                               | 7.8                           | 42.5                                   | 327             |
| Western                   | 33.1                               | 8.1                           | 41.2                                   | 190             |
| <b>Education</b>          |                                    |                               |  |                 |
| No education              | 33.5                               | 8.4                           | 41.9                                   | 99              |
| Primary                   | 30.3                               | 6.0                           | 36.3                                   | 1,283           |
| Secondary                 | 18.7                               | 4.2                           | 22.8                                   | 1,609           |
| Higher                    | *                                  | *                             | *                                      | 9               |
| <b>Wealth quintile</b>    |                                    |                               |  |                 |
| Lowest                    | 37.1                               | 9.1                           | 46.2                                   | 510             |
| Second                    | 32.8                               | 5.2                           | 38.0                                   | 541             |
| Middle                    | 27.8                               | 7.2                           | 35.0                                   | 585             |
| Fourth                    | 23.3                               | 3.6                           | 27.0                                   | 655             |
| Highest                   | 5.8                                | 1.8                           | 7.6                                    | 709             |
| Total                     | 24.1                               | 5.1                           | 29.2                                   | 3,000           |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

**Table 5.12 Sexual and reproductive health behaviours before age 15**

Among women and men age 15-19, percentage who initiated sexual intercourse, were married, and had a live birth/fathered a child before age 15, according to sex, Zambia DHS 2018

| Sex   | Had sexual intercourse before age 15 | Married before age 15 | Gave birth/fathered a child before age 15 | Number |
|-------|--------------------------------------|-----------------------|---|--------|
| Women | 12.7                                 | 2.2                   | 1.8                                       | 3,000  |
| Men   | 16.3                                 | 0.0                   | 0.1                                       | 2,781  |



## FERTILITY PREFERENCES

### Key Findings

- **Desire for another child:** Seventeen percent of currently married women age 15-49 want to have another child soon, and 35% want to wait at least 2 years before having another child.
- **Limiting childbearing:** Overall, 38% of women do not want another child or are sterilised.
- **Ideal family size:** Women prefer 4.6 children as their ideal family size, as compared with 4.9 children among men.
- **Unwanted births:** Of all births in the past 5 years and current pregnancies, 62% were wanted at the time of conception, 33% were mistimed, and 5% were not wanted.
- **Wanted fertility:** The total wanted fertility rate (4.0) is lower than the actual fertility rate (4.7).

**I**nformation on fertility preferences can help family planning programme planners assess the desire for children, the extent of mistimed and unwanted pregnancies, and the demand for contraception to space or limit births. This information may suggest the direction that fertility patterns will take in the future.

This chapter presents information on whether and when married women and men want more children, ideal family size, whether the last birth was wanted, and the theoretical fertility rate if all unwanted births were prevented.

### 6.1 DESIRE FOR ANOTHER CHILD

#### Desire for another child

Women and men were asked whether they wanted more children and, if so, how long they would prefer to wait before the birth of the next child. Women and men who are sterilised are assumed not to want any more children.

**Sample:** Currently married women and men age 15-49

Fifty-six percent of currently married women age 15-49 want to have another child; 17% of these women want to have another child within 2 years, while 35% want to wait at least 2 years. Thirty-six percent of women want no more children, and 2% are sterilised (**Table 6.1**). Overall, 67% of currently married men age 15-49 want to have another child; 19% want to have another child soon, and 47% want to wait at least 2 years. Twenty-seven percent of men want no more children or are sterilised.

The desire to limit childbearing among currently married women increases with number of living children, from 3% among those with no children to 79% among those with six or more children (**Table 6.2.1**). The pattern is similar among currently married men (**Table 6.2.2**).

**Trends:** The percentage of currently married women age 15-49 who want no more children (including women and their husbands who are sterilised) increased from 24% in 1992 to 38% in 2018. Among currently married men (including men and their wives who are sterilised), the percentage who want no more children increased from 18% in 1996 to 27% in 2018 (**Figure 6.1**).

#### Patterns by background characteristics

- Eighty-one percent of currently married women with no living children want to have a child soon, as compared with 4% of women with six or more children.
- A higher percentage of currently married women in urban (40%) than rural (36%) areas want to limit childbearing (**Table 6.2.1**).

## 6.2 IDEAL FAMILY SIZE

### Ideal family size

Respondents with no children were asked, “If you could choose exactly the number of children to have in your whole life, how many would that be?”

Respondents who had children were asked: “If you could go back to the time when you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be?”

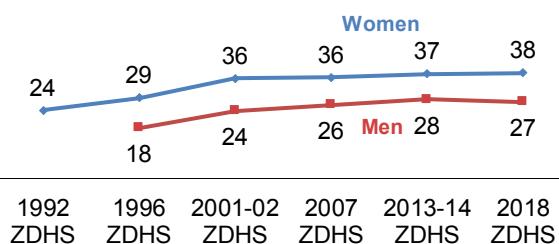
**Sample:** Women and men age 15-49

Women want to have slightly fewer children than men (4.6 children and 4.9 children, respectively). Similarly, among those who are currently married, the mean ideal number of children is slightly higher among men (5.5 children) than among women (5.1 children) (**Table 6.3** and **Figure 6.2**).

**Trends:** From 1992 to 2018, the ideal number of children decreased from 5.8 to 4.6 among all women and from 6.2 to 5.1 among currently married women. Similarly, between 1996 and 2018, the ideal number of children declined from 5.7 to 4.9 among all men and from 6.3 to 5.5 among currently married men.

**Figure 6.1 Trends in desire to limit childbearing**

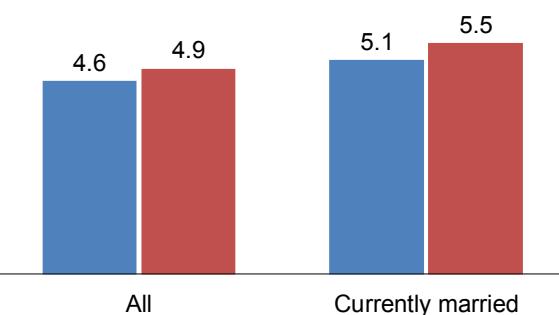
Percentage of currently married women and men age 15-49 who want no more children



**Figure 6.2 Ideal family size**

Mean ideal number of children among women and men age 15-49

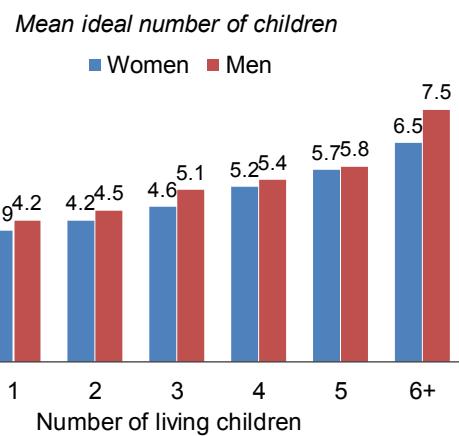
■ Women ■ Men



### Patterns by background characteristics

- The more children respondents already have, the more children they consider ideal. Women who have no children consider 3.6 children to be ideal on average. In contrast, women with six or more children consider 6.5 children to be ideal (**Figure 6.3**). Among men and women with the same number of children, men consistently consider a slightly higher number of children to be ideal than women.
- Older women want larger families. Ideal family size increases from 3.7 children among women age 15-19 to 6.1 children among women age 45-49 (**Table 6.4**).
- Women in rural areas have a larger ideal family size (5.0 children) than those in urban areas (4.0 children).
- Ideal number of children decreases with increasing education, from 5.6 among women with no education to 3.5 among those with a higher education.
- Women in the lowest two wealth quintiles want 5.2 children on average, while women in the highest wealth quintile want 3.8 children (**Table 6.4**).

**Figure 6.3 Ideal family size by number of living children**



### 6.3 FERTILITY PLANNING STATUS

#### Planning status of births/pregnancies

Women reported whether their births in the 5 years before the survey or current pregnancies were wanted at the time (planned birth), at a later time (mistimed birth), or not at all (unwanted birth).

**Sample:** Current pregnancies and births in the 5 years before the survey to women age 15-49

According to mothers' reports, 62% of births or current pregnancies were wanted, and 33% were mistimed (that is, wanted at a later date). Five percent of births or current pregnancies were not wanted at all (**Table 6.5**).

**Trends:** The percentage of births or current pregnancies wanted at the time of conception dropped from 66% in 1992 to 62% in 2018. The percentage of births or current pregnancies that were mistimed has fluctuated over time, increasing from 26% in 1992 to 29% in 1996, decreasing to 21% in 2001-02, and then steadily increasing to 33% in 2018. The percentage of unwanted births or pregnancies increased from 7% in 1992 to 19% in 2001-2002 before declining steadily to 5% in 2018.

### Patterns by background characteristics

- Women with four or more children (10%) are more likely than women with one to three children (2%) to describe births in the last 5 years or current pregnancies as unwanted (**Table 6.5**).
- Women age 25-29 (69%) are more likely than their counterparts to report births or current pregnancies as wanted.
- The proportion of births or current pregnancies that are mistimed decreases with increasing mother's age, from 51% among women less than age 20 to 14% among women age 40-44.

## 6.4 WANTED FERTILITY RATES

### Unwanted birth

Any birth in excess of the number of children a woman reported as her ideal number.

### Wanted birth

Any birth that were fewer than or equal to the number of children a woman reported as her ideal number.

### Wanted fertility rate

The average number of children a woman would have by the end of her childbearing years if she bore children at the current age-specific fertility rates, excluding unwanted births.

**Sample:** Women age 15-49

The wanted fertility rate reflects the level of fertility that would result if all unwanted births were prevented. The total wanted fertility rate in Zambia is 4.0 children, as compared with the actual total fertility rate of 4.7 children (**Table 6.6**).

**Trends:** The total wanted fertility rate in Zambia decreased from 5.4 children in 1992 to 4.0 children in 2018. Over the same period, the gap between wanted and actual fertility declined slightly, from 1.1 to 0.7 (**Figure 6.4**).

### Patterns by background characteristics

- The total wanted fertility rate is consistently lower than the actual total fertility rate, but the size of the gap varies by women's background characteristics (**Table 6.6**).
- Women in rural areas want more children (5.0 children) than those in urban areas (2.9 children).
- Both the wanted fertility rate and the total fertility rate decrease with increasing education. The wanted fertility rate declines from 5.6 among women with no education to 2.2 among women with a higher education. The total fertility rate decreases from 6.4 among women with no education to 2.4 among those with a higher education.
- Similarly, wanted fertility and total fertility decrease with increasing household wealth. The wanted fertility rate decreases from 5.9 in the lowest wealth quintile to 2.6 in the highest wealth quintile. The total fertility rate decreases from 6.7 in the lowest quintile to 3.0 in the highest quintile.

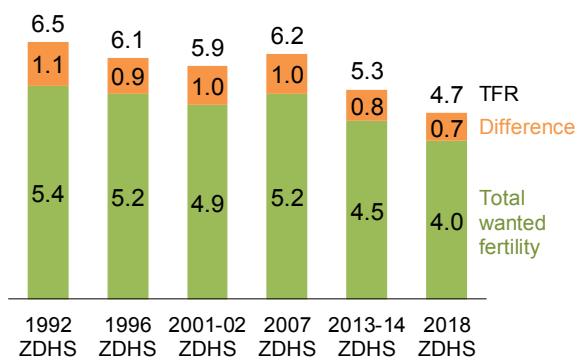
### LIST OF TABLES

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- **Table 6.1 Fertility preferences according to number of living children**
- **Table 6.2.1 Desire to limit childbearing: Women**
- **Table 6.2.2 Desire to limit childbearing: Men**
- **Table 6.3 Ideal number of children according to number of living children**
- **Table 6.4 Mean number of children according to background characteristics**
- **Table 6.5 Fertility planning status**
- **Table 6.6 Wanted fertility rates**

**Figure 6.4 Trends in wanted and actual fertility**

*Wanted and actual number of children per woman*



**Table 6.1 Fertility preferences according to number of living children**

Percent distribution of currently married women and currently married men age 15-49 by desire for children, according to number of living children, Zambia DHS 2018

| Desire for children             | Number of living children |       |       |       |       |       |       | Total<br>15-49 | Total<br>50-59 | Total<br>15-59 |
|---------------------------------|---------------------------|-------|-------|-------|-------|-------|-------|----------------|----------------|----------------|
|                                 | 0                         | 1     | 2     | 3     | 4     | 5     | 6+    |                |                |                |
| WOMEN <sup>1</sup>              |                           |       |       |       |       |       |       |                |                |                |
| Have another soon <sup>2</sup>  | 81.4                      | 29.5  | 21.9  | 17.9  | 10.4  | 8.7   | 3.8   | 17.0           | na             | na             |
| Have another later <sup>3</sup> | 3.6                       | 58.5  | 53.3  | 42.2  | 32.4  | 23.5  | 8.0   | 35.3           | na             | na             |
| Have another, undecided when    | 2.6                       | 4.7   | 4.9   | 3.6   | 3.7   | 2.2   | 0.7   | 3.3            | na             | na             |
| Undecided                       | 2.3                       | 1.1   | 3.9   | 5.4   | 8.3   | 6.7   | 6.7   | 5.2            | na             | na             |
| Want no more                    | 2.5                       | 4.4   | 14.1  | 29.0  | 41.7  | 55.0  | 75.1  | 35.9           | na             | na             |
| Sterilised <sup>4</sup>         | 0.3                       | 0.4   | 0.6   | 0.8   | 1.9   | 1.7   | 3.7   | 1.5            | na             | na             |
| Declared infecund               | 7.3                       | 1.3   | 1.2   | 1.1   | 1.6   | 2.2   | 2.0   | 1.7            | na             | na             |
| Total                           | 100.0                     | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0          | na             | na             |
| Number of women                 | 198                       | 1,136 | 1,524 | 1,246 | 1,112 | 860   | 1,573 | 7,648          | na             | na             |
| MEN <sup>5</sup>                |                           |       |       |       |       |       |       |                |                |                |
| Have another soon <sup>2</sup>  | 68.1                      | 29.2  | 17.7  | 18.7  | 16.9  | 12.7  | 12.7  | 18.9           | 8.4            | 17.5           |
| Have another later <sup>3</sup> | 15.7                      | 63.6  | 61.1  | 54.8  | 43.2  | 39.9  | 27.4  | 46.7           | 4.8            | 41.1           |
| Have another, undecided when    | 1.5                       | 2.3   | 4.5   | 0.8   | 0.4   | 0.7   | 1.0   | 1.7            | 0.6            | 1.6            |
| Undecided                       | 2.3                       | 1.0   | 5.7   | 4.5   | 7.7   | 8.1   | 4.0   | 4.9            | 2.3            | 4.5            |
| Want no more                    | 3.7                       | 2.7   | 10.3  | 20.4  | 31.0  | 37.3  | 53.5  | 26.7           | 74.2           | 33.0           |
| Sterilised <sup>4</sup>         | 3.9                       | 0.1   | 0.5   | 0.3   | 0.4   | 0.5   | 0.4   | 0.4            | 1.7            | 0.6            |
| Declared infecund               | 4.8                       | 1.1   | 0.2   | 0.5   | 0.4   | 0.8   | 0.9   | 0.8            | 7.9            | 1.7            |
| Total                           | 100.0                     | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0          | 100.0          | 100.0          |
| Number of men                   | 129                       | 829   | 1,062 | 868   | 739   | 610   | 1,336 | 5,572          | 856            | 6,428          |

na = Not applicable

<sup>1</sup> The number of living children includes the current pregnancy.

<sup>2</sup> Wants next birth within 2 years

<sup>3</sup> Wants to delay next birth for 2 or more years

<sup>4</sup> Includes both female and male sterilisation

<sup>5</sup> The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

**Table 6.2.1 Desire to limit childbearing: Women**

Percentage of currently married women age 15-49 who want no more children, by number of living children, according to background characteristics, Zambia DHS 2018

| Background characteristic | Number of living children <sup>1</sup> |      |      |      |      |      |      | Total |
|---------------------------|--|------|------|------|------|------|------|-------|
|                           | 0                                      | 1    | 2    | 3    | 4    | 5    | 6+   |       |
| <b>Residence</b>          |  |      |      |      |      |      |      |       |
| Urban                     | 3.7                                    | 6.0  | 19.2 | 42.5 | 58.6 | 73.9 | 90.5 | 39.9  |
| Rural                     | 2.0                                    | 3.7  | 10.1 | 17.7 | 33.3 | 48.4 | 75.4 | 35.9  |
| <b>Province</b>           |  |      |      |      |      |      |      |       |
| Central                   | *                                      | 3.7  | 11.3 | 19.2 | 43.6 | 47.5 | 77.9 | 35.8  |
| Copperbelt                | *                                      | 5.9  | 15.5 | 43.7 | 55.5 | 76.2 | 86.4 | 41.7  |
| Eastern                   | *                                      | 3.0  | 14.1 | 27.9 | 38.7 | 59.7 | 83.2 | 38.4  |
| Luapula                   | *                                      | 6.3  | 10.3 | 22.3 | 31.7 | 55.3 | 79.2 | 38.6  |
| Lusaka                    | (1.8)                                  | 6.2  | 19.7 | 41.5 | 70.7 | 70.3 | 91.1 | 41.1  |
| Muchinga                  | *                                      | 3.3  | 12.2 | 12.2 | 39.2 | 59.8 | 84.7 | 41.3  |
| Northern                  | *                                      | 3.2  | 6.6  | 18.7 | 23.3 | 47.2 | 75.4 | 33.5  |
| North Western             | *                                      | 0.7  | 12.9 | 19.3 | 24.7 | 36.5 | 76.3 | 32.6  |
| Southern                  | *                                      | 6.4  | 17.6 | 23.1 | 32.0 | 40.7 | 62.8 | 31.2  |
| Western                   | *                                      | 3.9  | 9.7  | 20.1 | 30.8 | 55.7 | 73.3 | 34.6  |
| <b>Education</b>          |  |      |      |      |      |      |      |       |
| No education              | *                                      | 12.2 | 16.3 | 26.0 | 39.1 | 50.3 | 74.1 | 47.3  |
| Primary                   | 1.5                                    | 4.3  | 12.5 | 23.6 | 37.9 | 54.2 | 78.3 | 40.8  |
| Secondary                 | 1.7                                    | 4.9  | 13.2 | 32.9 | 50.3 | 69.0 | 85.9 | 29.8  |
| Higher                    | *                                      | 2.0  | 31.5 | 51.0 | 72.3 | *    | *    | 37.9  |
| <b>Wealth quintile</b>    |  |      |      |      |      |      |      |       |
| Lowest                    | 2.2                                    | 4.2  | 8.3  | 13.9 | 21.0 | 44.0 | 74.2 | 30.7  |
| Second                    | (0.0)                                  | 4.6  | 11.6 | 16.3 | 32.7 | 51.0 | 72.4 | 37.3  |
| Middle                    | 2.6                                    | 1.8  | 9.6  | 21.4 | 40.6 | 56.6 | 80.8 | 39.6  |
| Fourth                    | (1.8)                                  | 5.5  | 15.7 | 36.8 | 54.9 | 65.2 | 87.1 | 36.7  |
| Highest                   | (5.5)                                  | 7.1  | 23.8 | 47.1 | 64.8 | 73.3 | 93.5 | 43.3  |
| Total                     | 2.8                                    | 4.8  | 14.7 | 29.8 | 43.6 | 56.7 | 78.7 | 37.5  |

Note: Women who have been sterilised or whose husband has been sterilised are considered to want no more children. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> The number of living children includes the current pregnancy.

**Table 6.2.2 Desire to limit childbearing: Men**

Percentage of currently married men age 15-49 who want no more children, by number of living children, according to background characteristics, Zambia DHS 2018

| Background characteristic | Number of living children <sup>1</sup> |       |        |        |        |        |        | Total |
|---------------------------|--|-------|--------|--------|--------|--------|--------|-------|
|                           | 0                                      | 1     | 2      | 3      | 4      | 5      | 6+     |       |
| <b>Residence</b>          |  |       |        |        |        |        |        |       |
| Urban                     | 14.5                                   | 1.6   | 13.7   | 28.1   | 37.9   | 44.4   | 60.6   | 27.0  |
| Rural                     | 1.6                                    | 3.9   | 7.9    | 15.3   | 27.1   | 34.0   | 52.0   | 27.2  |
| <b>Province</b>           |  |       |        |        |        |        |        |       |
| Central                   | *                                      | 1.1   | 7.8    | 18.8   | 37.7   | 52.4   | 61.0   | 30.8  |
| Copperbelt                | *                                      | 1.9   | 16.8   | 19.9   | 40.5   | (60.1) | 56.1   | 29.1  |
| Eastern                   | *                                      | 7.7   | 9.1    | 16.6   | 36.5   | 42.5   | 56.1   | 30.5  |
| Luapula                   | *                                      | 1.5   | 4.2    | 5.1    | 12.7   | 20.7   | 43.9   | 19.4  |
| Lusaka                    | *                                      | 1.6   | 14.4   | 30.9   | 33.4   | 34.6   | 64.3   | 25.6  |
| Muchinga                  | *                                      | 0.9   | 19.7   | 23.1   | 33.8   | 42.6   | 65.3   | 35.0  |
| Northern                  | *                                      | 3.8   | 7.6    | 16.1   | 33.0   | 22.2   | 58.8   | 26.9  |
| North Western             | *                                      | 6.7   | 5.4    | 19.8   | 33.3   | (36.4) | 54.6   | 31.2  |
| Southern                  | *                                      | 1.3   | 6.8    | 26.8   | 20.9   | 39.0   | 45.9   | 24.1  |
| Western                   | *                                      | (4.1) | (3.2)  | 8.0    | 13.4   | (14.9) | 33.2   | 16.7  |
| <b>Education</b>          |  |       |        |        |        |        |        |       |
| No education              | *                                      | *     | (5.9)  | (22.8) | (26.2) | (36.5) | 54.3   | 32.7  |
| Primary                   | (1.9)                                  | 2.4   | 11.0   | 12.5   | 26.6   | 28.3   | 49.4   | 27.3  |
| Secondary                 | 11.0                                   | 2.2   | 8.4    | 22.0   | 33.0   | 45.2   | 59.2   | 24.9  |
| Higher                    | *                                      | 4.8   | 20.5   | 38.5   | 52.0   | (55.9) | (74.2) | 33.6  |
| <b>Wealth quintile</b>    |  |       |        |        |        |        |        |       |
| Lowest                    | (0.0)                                  | 2.2   | 6.0    | 11.7   | 16.1   | 23.9   | 46.8   | 20.5  |
| Second                    | *                                      | 3.5   | 8.1    | 12.4   | 28.1   | 26.0   | 49.2   | 26.1  |
| Middle                    | (0.0)                                  | 2.6   | 7.5    | 13.2   | 29.2   | 43.9   | 61.6   | 31.0  |
| Fourth                    | (21.6)                                 | 3.5   | 10.6   | 27.7   | 37.3   | 40.8   | 49.8   | 25.4  |
| Highest                   | (9.8)                                  | 2.2   | 18.7   | 36.0   | 44.7   | 57.5   | 74.8   | 33.6  |
| Total 15-49               | 7.6                                    | 2.8   | 10.8   | 20.7   | 31.4   | 37.8   | 53.9   | 27.1  |
| 50-59                     | *                                      | *     | (67.6) | (64.1) | 76.8   | 81.3   | 78.0   | 75.9  |
| Total 15-59               | 9.7                                    | 3.9   | 12.4   | 22.6   | 34.5   | 44.2   | 61.3   | 33.6  |

Note: Men who have been sterilised or who state in response to the question about desire for children that their wife has been sterilised are considered to want no more children. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

**Table 6.3 Ideal number of children according to number of living children**

Percent distribution of women and men age 15-49 by ideal number of children, and mean ideal number of children for all respondents and for currently married respondents, according to number of living children, Zambia DHS 2018

| Ideal number of children   | Number of living children |       |       |       |       |       |       | Total  |
|--|---------------------------|-------|-------|-------|-------|-------|-------|--------|
|  | 0                         | 1     | 2     | 3     | 4     | 5     | 6+    |        |
| <b>WOMEN<sup>1</sup></b>   |                           |       |       |       |       |       |       |        |
| 0  | 2.7                       | 0.8   | 1.0   | 0.9   | 0.7   | 0.9   | 2.0   | 1.4    |
| 1  | 1.3                       | 1.8   | 1.0   | 0.4   | 0.3   | 0.3   | 0.3   | 0.9    |
| 2  | 16.5                      | 11.5  | 7.0   | 5.3   | 2.9   | 2.4   | 1.3   | 8.3    |
| 3  | 23.3                      | 24.7  | 15.0  | 10.5  | 5.8   | 3.8   | 2.6   | 14.6   |
| 4  | 34.6                      | 35.6  | 43.4  | 36.0  | 28.8  | 14.7  | 10.6  | 30.9   |
| 5  | 11.9                      | 13.4  | 16.1  | 21.8  | 19.3  | 21.0  | 11.8  | 15.5   |
| 6+   | 7.0                       | 10.3  | 15.2  | 23.9  | 40.4  | 54.2  | 66.9  | 26.0   |
| Non-numeric responses  | 2.6                       | 1.9   | 1.3   | 1.0   | 1.8   | 2.8   | 4.6   | 2.3    |
| Total  | 100.0                     | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0  |
| Number of women  | 3,228                     | 2,393 | 2,107 | 1,651 | 1,390 | 1,081 | 1,834 | 13,683 |
| <b>Mean ideal number of children for:</b> <sup>2</sup>           |                           |       |       |       |       |       |       |        |
| All women  | 3.6                       | 3.9   | 4.2   | 4.6   | 5.2   | 5.7   | 6.5   | 4.6    |
| Number of women  | 3,143                     | 2,349 | 2,080 | 1,633 | 1,364 | 1,051 | 1,750 | 13,370 |
| Currently married women  | 4.1                       | 4.0   | 4.3   | 4.7   | 5.2   | 5.8   | 6.5   | 5.1    |
| Number of currently married women                                | 188                       | 1,115 | 1,506 | 1,232 | 1,092 | 838   | 1,501 | 7,473  |
| <b>MEN<sup>3</sup></b>   |                           |       |       |       |       |       |       |        |
| 0  | 1.1                       | 0.1   | 1.0   | 0.3   | 0.7   | 0.5   | 1.2   | 0.9    |
| 1  | 0.6                       | 1.2   | 0.6   | 0.2   | 0.5   | 0.4   | 0.3   | 0.6    |
| 2  | 10.4                      | 7.5   | 6.2   | 5.0   | 2.3   | 2.4   | 1.7   | 7.0    |
| 3  | 18.4                      | 22.3  | 13.7  | 8.6   | 4.4   | 5.2   | 3.0   | 13.9   |
| 4  | 32.9                      | 33.3  | 36.7  | 28.7  | 22.6  | 14.1  | 11.4  | 28.6   |
| 5  | 18.7                      | 17.2  | 23.7  | 27.2  | 24.7  | 20.2  | 11.4  | 19.4   |
| 6+   | 16.1                      | 16.8  | 17.5  | 29.1  | 44.2  | 56.2  | 68.6  | 28.1   |
| Non-numeric responses  | 1.9                       | 1.7   | 0.7   | 0.9   | 0.6   | 1.1   | 2.4   | 1.6    |
| Total  | 100.0                     | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0  |
| Number of men  | 4,920                     | 1,285 | 1,233 | 941   | 783   | 651   | 1,365 | 11,177 |
| <b>Mean ideal number of children for men 15-49:</b> <sup>2</sup> |                           |       |       |       |       |       |       |        |
| All men  | 4.3                       | 4.2   | 4.5   | 5.1   | 5.4   | 5.8   | 7.5   | 4.9    |
| Number of men  | 4,828                     | 1,263 | 1,224 | 933   | 778   | 644   | 1,332 | 11,002 |
| Currently married men  | 4.2                       | 4.3   | 4.5   | 5.1   | 5.4   | 5.9   | 7.5   | 5.5    |
| Number of currently married men                                  | 128                       | 809   | 1,054 | 860   | 734   | 605   | 1,303 | 5,493  |
| <b>Mean ideal number of children for men 15-59:</b> <sup>2</sup> |                           |       |       |       |       |       |       |        |
| All men  | 4.3                       | 4.2   | 4.5   | 5.1   | 5.4   | 5.9   | 7.5   | 5.1    |
| Number of men  | 4,857                     | 1,299 | 1,271 | 980   | 838   | 748   | 1,918 | 11,910 |
| Currently married men  | 4.2                       | 4.2   | 4.5   | 5.1   | 5.4   | 5.9   | 7.5   | 5.7    |
| Number of currently married men                                  | 134                       | 835   | 1,085 | 899   | 789   | 705   | 1,868 | 6,316  |

<sup>1</sup> The number of living children includes the current pregnancy.

<sup>2</sup> Means are calculated excluding respondents who gave non-numeric responses.

<sup>3</sup> The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

**Table 6.4 Mean ideal number of children according to background characteristics**

Mean ideal number of children for all women age 15-49, according to background characteristics, Zambia DHS 2018

| Background characteristic | Mean | Number of women <sup>1</sup> |
|---------------------------|------|------------------------------|
| <b>Age</b>                |      |                              |
| 15-19                     | 3.7  | 2,906                        |
| 20-24                     | 4.1  | 2,695                        |
| 25-29                     | 4.4  | 2,205                        |
| 30-34                     | 4.8  | 1,835                        |
| 35-39                     | 5.2  | 1,657                        |
| 40-44                     | 5.8  | 1,205                        |
| 45-49                     | 6.1  | 867                          |
| <b>Residence</b>          |      |                              |
| Urban                     | 4.0  | 6,306                        |
| Rural                     | 5.0  | 7,064                        |
| <b>Province</b>           |      |                              |
| Central                   | 4.7  | 1,147                        |
| Copperbelt                | 4.2  | 2,164                        |
| Eastern                   | 4.4  | 1,541                        |
| Luapula                   | 5.2  | 1,012                        |
| Lusaka                    | 4.0  | 2,708                        |
| Muchinga                  | 4.9  | 748                          |
| Northern                  | 5.1  | 1,021                        |
| North Western             | 4.8  | 702                          |
| Southern                  | 4.9  | 1,561                        |
| Western                   | 4.8  | 764                          |
| <b>Education</b>          |      |                              |
| No education              | 5.6  | 1,002                        |
| Primary                   | 5.1  | 5,853                        |
| Secondary                 | 4.0  | 5,762                        |
| Higher                    | 3.5  | 753                          |
| <b>Wealth quintile</b>    |      |                              |
| Lowest                    | 5.2  | 2,323                        |
| Second                    | 5.2  | 2,309                        |
| Middle                    | 4.8  | 2,421                        |
| Fourth                    | 4.3  | 2,983                        |
| Highest                   | 3.8  | 3,333                        |
| Total                     | 4.6  | 13,370                       |

<sup>1</sup> Number of women who gave a numeric response

**Table 6.5 Fertility planning status**

Percent distribution of births to women age 15-49 in the 5 years preceding the survey (including current pregnancies), by planning status of the birth, according to birth order and mother's age at birth, Zambia DHS 2018

| Birth order and mother's age at birth | Planning status of birth |              |                | Total   | Number of births |
|---------------------------------------|--------------------------|--------------|----------------|---------|------------------|
|                                       | Wanted then              | Wanted later | Wanted no more |         |                  |
| <b>Birth order</b>                    |                          |              |                |         |                  |
| 1                                     | 51.5                     | 47.0         | 1.5            | 100.0   | 2,767            |
| 2                                     | 66.8                     | 31.3         | 1.9            | 100.0   | 2,169            |
| 3                                     | 71.5                     | 26.7         | 1.8            | 100.0   | 1,679            |
| 4+                                    | 61.7                     | 28.1         | 10.3           | 100.0   | 4,364            |
| <b>Mother's age at birth</b>          |                          |              |                |         |                  |
| <20                                   | 47.7                     | 50.6         | 1.7            | 100.0   | 2,213            |
| 20-24                                 | 65.1                     | 32.9         | 2.0            | 100.0   | 3,021            |
| 25-29                                 | 68.9                     | 28.7         | 2.4            | 100.0   | 2,306            |
| 30-34                                 | 66.1                     | 27.6         | 6.3            | 100.0   | 1,865            |
| 35-39                                 | 59.3                     | 26.2         | 14.6           | 100.0   | 1,134            |
| 40-44                                 | 59.0                     | 14.0         | 27.0           | 100.0   | 405              |
| 45-49                                 | (32.2)                   | (22.8)       | (45.1)         | (100.0) | 36               |
| Total                                 | 61.6                     | 33.3         | 5.1            | 100.0   | 10,979           |

Note: Figures in parentheses are based on 25-49 unweighted cases.

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**Table 6.6 Wanted fertility rates**

Total wanted fertility rates and total fertility rates for the 3 years preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic | Total wanted fertility rate | Total fertility rate |
|---------------------------|-----------------------------|----------------------|
| <b>Residence</b>          |                             |                      |
| Urban                     | 2.9                         | 3.4                  |
| Rural                     | 5.0                         | 5.8                  |
| <b>Province</b>           |                             |                      |
| Central                   | 4.0                         | 4.8                  |
| Copperbelt                | 3.0                         | 3.4                  |
| Eastern                   | 4.7                         | 5.5                  |
| Luapula                   | 5.3                         | 6.0                  |
| Lusaka                    | 2.9                         | 3.5                  |
| Muchinga                  | 4.9                         | 5.7                  |
| Northern                  | 4.9                         | 5.6                  |
| North Western             | 4.4                         | 4.9                  |
| Southern                  | 4.4                         | 5.5                  |
| Western                   | 4.6                         | 5.4                  |
| <b>Education</b>          |                             |                      |
| No education              | 5.6                         | 6.4                  |
| Primary                   | 4.8                         | 5.6                  |
| Secondary                 | 3.2                         | 3.7                  |
| Higher                    | 2.2                         | 2.4                  |
| <b>Wealth quintile</b>    |                             |                      |
| Lowest                    | 5.9                         | 6.7                  |
| Second                    | 5.1                         | 5.9                  |
| Middle                    | 4.2                         | 4.9                  |
| Fourth                    | 3.1                         | 3.7                  |
| Highest                   | 2.6                         | 3.0                  |
| Total                     | 4.0                         | 4.7                  |

Note: Rates are calculated based on births to women age 15-49 in the period 1-36 months preceding the survey. The total fertility rates are the same as those presented in Table 5.2.

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# FAMILY PLANNING

## Key Findings

- **Contraceptive use:** The contraceptive prevalence rate (CPR) among currently married women age 15-49 is 50%.
- **Contraceptive discontinuation:** In the 5 years preceding the survey, 36% of episodes of contraceptive use were discontinued within 12 months. The most common reason for discontinuation was wanting to become pregnant (30%).
- **Demand for family planning:** Total demand for family planning among currently married women increased from 45% in 1992 to 69% in 2018.
- **Unmet need for family planning:** Twenty percent of currently married women have an unmet need for family planning.
- **Future use of contraception:** Sixty percent of currently married women who are not using contraception intend to use family planning in the future.

Couples can use contraceptive methods to limit or space the number of children they have. This chapter presents information on knowledge of contraceptive methods, use and sources of contraceptive methods, informed choice of methods, unmet need for family planning, and rates and reasons for discontinuing contraceptives. It also examines the potential demand for family planning and how much contact nonusers have with family planning providers.

In 2012, Zambia committed to increasing the use of modern contraceptives among married women from 33% in that year to 58% in 2020. To operationalise the commitments made at the London Summit in 2012, the country developed the Integrated Family Planning Scale-up Plan 2013-2020 (MOH 2013).

### 7.1 CONTRACEPTIVE KNOWLEDGE AND USE

Knowledge of contraceptive methods is nearly universal in Zambia, with more than 99% of currently married women and men age 15-49 knowing at least one method of contraception. Injectables, the pill, and male condoms are the most well-known methods of contraception among married women and men. For more information on contraceptive knowledge by method and by background characteristics, see **Tables 7.1 and 7.2**.

#### Contraceptive prevalence rate

Percentage of women who use any contraceptive method

**Sample:** All women age 15-49, currently married women age 15-49, and sexually active unmarried women age 15-49

The contraceptive prevalence rate (CPR) among currently married women age 15-49 is 50%, with 48% using a modern method. Among sexually active unmarried women, 44% use a contraceptive method and 43% use a modern method (**Table 7.3**).

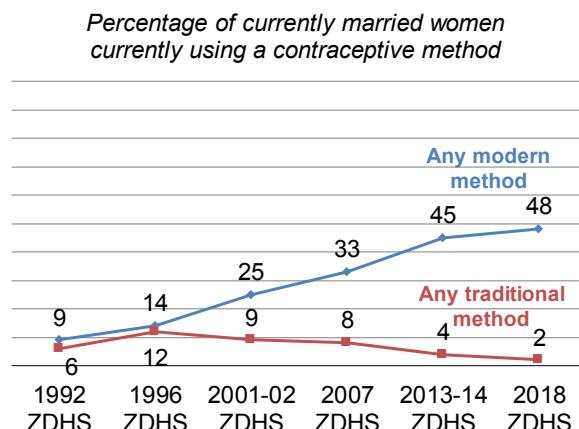
### Modern methods

Include male and female sterilisation, injectables, intrauterine devices (IUDs), contraceptive pills, implants, female and male condoms, the standard days method, the lactational amenorrhoea method, and emergency contraception

Injectables (26%) are the most common method of contraception among currently married women in Zambia, followed by implants and the pill (8% each) and male condoms (3%). Among sexually active unmarried women, the most popular methods are injectables (21%), implants (9%), and male condoms (7%) (**Table 7.3** and **Figure 7.1**).

**Trends:** Use of any modern method of contraception among currently married women increased from 9% in 1992 to 33% in 2007 and 48% in 2018 (**Figure 7.2**).

**Figure 7.2 Trends in contraceptive use**

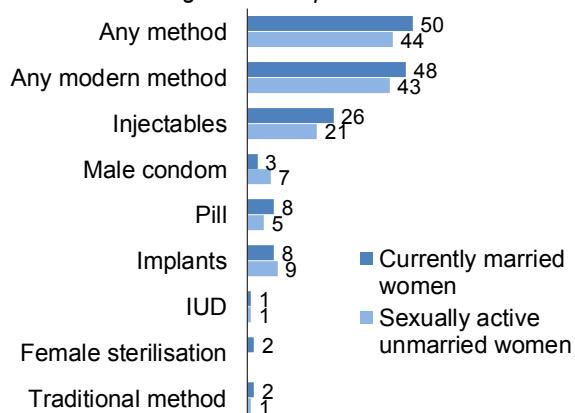


### Patterns by background characteristics

- Among currently married women and sexually active unmarried women, use of modern contraception is higher among those in urban areas (53%) than those in rural areas (44%) (**Table 7.4** and **Figure 7.3**).
- By province, modern contraceptive use ranges from 30% in Western to 54% in Lusaka and Eastern.
- Modern contraceptive use among women increases with increasing education up to the secondary level, from 36% among those with no education to 53% among those with a secondary education. However, use of modern contraception decreases to 47% among women with a higher education.
- Similarly, modern contraceptive use increases from 38% among women in the lowest wealth quintile to 54% among those in the fourth wealth quintile before decreasing to 51% among those in the highest quintile.

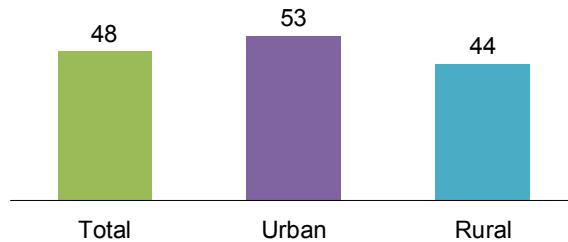
**Figure 7.1 Contraceptive use**

Percentage of women age 15-49 currently using a contraceptive method



**Figure 7.3 Use of modern methods by residence**

Percentage of currently married women age 15-49 using a modern method by residence



## *Knowledge of the Fertile Period*

Only 21% of women age 15-49 have correct knowledge about the fertile period during the ovulatory cycle (halfway between two menstrual periods) (**Table 7.5**). The most common misconceptions are that the fertile period is right after a woman's menstrual period has ended (29%) and just before her menstrual period begins (22%). Twenty-five percent of women age 30-34 and 35-39 have correct knowledge of the fertile period (**Table 7.6**).

## 7.2 SOURCE OF MODERN CONTRACEPTIVE METHODS

### **Source of modern contraceptives**

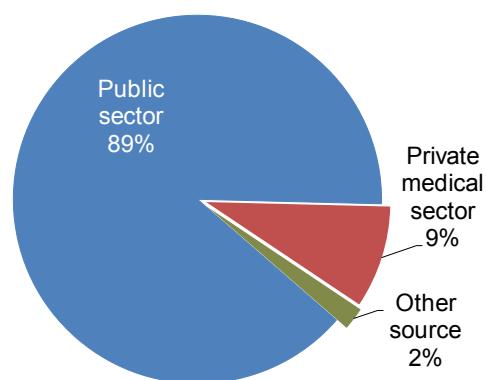
The place where the modern method currently being used was obtained the last time it was acquired

**Sample:** Women age 15-49 currently using a modern contraceptive method

The public sector (89%) remains the major source of modern contraceptive methods among women age 15-49 in Zambia. Modern contraceptive users are most likely to obtain their method from government health centres (65%), followed by government health posts (13%) and government hospitals (8%). The private sector distributes 9% of modern contraceptives, with other sources accounting for 2% (**Table 7.8** and **Figure 7.4**).

**Figure 7.4 Source of modern contraceptive methods**

*Percent distribution of current users of modern methods age 15-49 by most recent source of method*



## 7.3 INFORMED CHOICE

### **Informed choice**

Informed choice indicates that women were informed about the method's side effects, about what to do if they experience side effects, and about other methods they could use.

**Sample:** Women age 15-49 who are currently using selected modern contraceptive methods and who started the last episode of use within the 5 years before the survey

Eighty-two percent of all women currently using modern methods of contraception were informed about side effects or other problems associated with the method they use, and 77% were informed about what to do if they experienced side effects (**Table 7.10**). Eighty-four percent of women who obtained a method were informed by a health or family planning worker about other methods that could be used for contraception. Overall, 73% of women currently using modern contraceptives were provided with all three types of information making up the method information index (the side effects of the method, what to do if they experience side effects, and other available methods) at the time they started the current episode of contraceptive use. Women obtaining a method from the public sector were more likely to be informed of all three types of information (75%) than those who obtained their method from the private sector (56%).

## 7.4 DISCONTINUATION OF CONTRACEPTIVES

### Contraceptive discontinuation rate

Percentage of contraceptive use episodes discontinued within 12 months

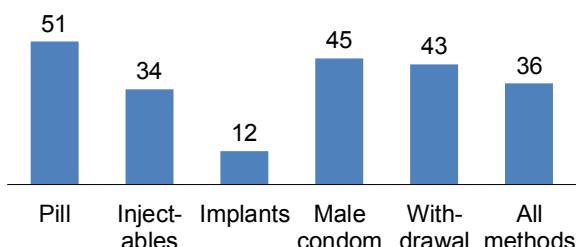
**Sample:** Episodes of contraceptive use in the 5 years before the survey, experienced by women who are currently age 15-49 (one woman may contribute more than one episode)

Among women age 15-49 who started an episode of contraceptive use in the 5 years preceding the survey, 36% of the episodes were discontinued within 12 months (**Table 7.11**). Contraceptive discontinuation rates are highest for pills (51%) and male condoms (45%) and lowest for implants (12%) (**Figure 7.5**).

The most common reason for discontinuation is wanting to become pregnant (30%), followed by health concerns or side effects (29%) (**Table 7.12**).

**Figure 7.5 Contraceptive discontinuation rates**

Percentage of contraceptive episodes discontinued within 12 months among women age 15-49



## 7.5 DEMAND FOR FAMILY PLANNING

### Unmet need for family planning

Proportion of women who (1) are not pregnant and not postpartum amenorrhoeic and are considered fecund and want to postpone their next birth for 2 or more years or stop childbearing altogether but are not using a contraceptive method, or (2) have a mistimed or unwanted current pregnancy, or (3) are postpartum amenorrhoeic and their last birth in the last 2 years was mistimed or unwanted.

**Sample:** All women age 15-49, currently married women age 15-49, and sexually active unmarried women age 15-49

**Demand for family planning:**

Unmet need for family planning  
+ current contraceptive use (any method)

**Proportion of demand satisfied:**

Current contraceptive use (any method)  
\_\_\_\_\_  
Unmet need + current contraceptive use  
(any method)

**Proportion of demand satisfied by modern methods:**

Current contraceptive use (any modern method)  
\_\_\_\_\_  
Unmet need + current contraceptive use  
(any method)

Sixty-nine percent of currently married women have a demand for family planning; 42% want to space births and 28% want to limit births. Twenty percent of currently married women have an unmet need for family planning. Seventy-two percent of the family planning demand of currently married women is being satisfied (69% of the demand is satisfied by a modern method) (**Table 7.13.1** and **Figure 7.6**).

**Trends:** Total demand for family planning among currently married women increased from 45% in 1992 to 69% in 2018. In the same period, unmet need decreased from 30% to 20%.

#### Patterns by background characteristics

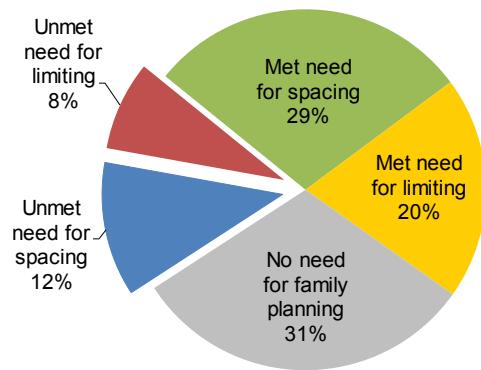
- Unmet need for family planning among currently married women is higher in rural areas (21%) than in urban areas (17%) (**Figure 7.7**).
- By province, the percentages of women with an unmet need for family planning are highest in Western (27%) and Luapula (26%) and lowest in Muchinga (15%) (**Figure 7.8**).
- Unmet need for family planning among currently married women decreases with increasing education, from 24% among those with no education to 15% among those with a higher education.
- Similarly, unmet need decreases with increasing household wealth, from 23% among women in the lowest wealth quintile to 17% among those in the highest quintile.
- Demand satisfied by modern methods is lowest in Western (52%) and Northern (58%) and highest in Lusaka (75%) and Central (73%).

#### 7.5.1 Decision Making about Family Planning

Seventy-four percent of currently married women who are using family planning reported that the decision to use contraception was made jointly with their husband. Fifteen percent said that it was mainly their own decision, and 11% said that it was mainly their husband's decision. Among currently married women who are not using family planning, 55% reported that the decision to not use contraception was made jointly with their husband, whereas

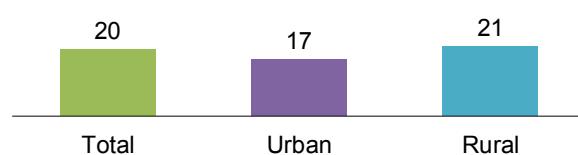
**Figure 7.6 Demand for family planning**

*Percent distribution of currently married women age 15-49 by need for family planning*



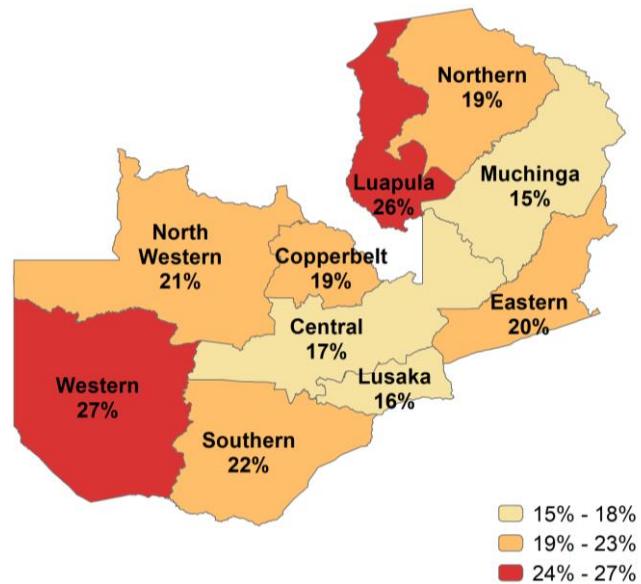
**Figure 7.7 Unmet need by residence**

*Percentage of currently married women age 15-49 with unmet need*



**Figure 7.8 Unmet need by province**

*Percentage of currently married women age 15-49 with unmet need for family planning*



29% reported that it was mainly their own decision and 12% reported that it was mainly their husband's decision (**Table 7.14**).

### 7.5.2 Future Use of Contraception

Sixty percent of currently married women who are non-users of contraception intend to use family planning in the future, while 36% do not intend to do so. The proportion of women who intend to use contraception in the future among non-users is lowest among those with no living children (47%) and highest among those with one living child (69%) (**Table 7.15**).

### 7.5.3 Exposure to Family Planning Messages in the Media

The survey also collected information on exposure to family planning messages in the media and other sources among women and men age 15-49. Radio is the most common source for family planning messages in Zambia, with 18% of women and 27% of men having heard a family planning message on the radio in the past few months. Thirteen percent of women report having seen a family planning message on television, while 5% saw one in a newspaper or magazine. Three percent of women and 8% of men were exposed to a family planning message on a mobile phone. However, 77% of women and 64% of men have not been exposed to family planning messages through any of these four media sources in the past few months (**Table 7.16**).

## 7.6 CONTACT OF NONUSERS WITH FAMILY PLANNING PROVIDERS

### Contact of nonusers with family planning providers

Respondent discussed family planning in the 12 months before the survey with a fieldworker or during a visit to a health facility.

**Sample:** Women age 15-49 who are not currently using any contraceptive methods

Women age 15-49 who are not currently using contraception were asked if they had discussed family planning in the 12 months before the survey with a health worker or during a visit to a health facility. Thirty-six percent of women visited a health facility but did not discuss family planning during the visit, while 22% of women who visited a health facility discussed family planning. Five percent of women were visited by a fieldworker who discussed family planning with them. About three quarters (77%) of women who are not using a contraceptive method said that they did not discuss family planning either with a fieldworker or at a health facility in the 12 months before the survey (**Table 7.17**).

### Patterns by background characteristics

- In all age groups, at least one-third of respondents visited a health facility but did not discuss family planning with a health facility worker.
- Eighty-two percent of women in urban areas did not discuss family planning with a fieldworker or at a health facility in the 12 months before the survey, as compared with 72% of their rural counterparts.
- Over 70% of women at all levels of education and wealth did not discuss family planning with a fieldworker or health facility worker (**Table 7.17**).

## 7.7 EXPOSURE TO SPECIFIC RADIO AND TELEVISION PROGRAMMES

The survey also collected information on exposure to specific radio and television programmes in the past 6 months among women age 15-49. Fifteen percent of women said that they had listened to "Your Health Matters" on the radio, while 14% had watched "Your Health Matters" on TV (**Table 7.18**).

## **Patterns by background characteristics**

- More women in urban areas saw or heard “Your Health Matters” on television (27%) or radio (21%) than their rural counterparts (3% and 9%, respectively).
- The percentage of women who heard “Your Health Matters” on the radio ranged from 6% in North Western and Southern to 23% in Luapula. The percentage of women who watched the programme on television ranged from 5% in Central, Eastern, and Western to 27% in Copperbelt.
- The percentage of women who heard “Your Health Matters” on the radio increases with increasing education, from 6% among those with no education to 39% among those with a higher education. A similar pattern is observed among those who watched the programme on television (2% among those with no education and 52% among those with a higher education).
- The percentage of women who heard “Your Health Matters” on the radio also increases with increasing household wealth, from 6% among those in the lowest quintile to 28% among those in the highest quintile. Again, a similar pattern is seen among those who saw the programme on television (less than 1% among those in the lowest wealth quintile and 39% among those in the highest quintile).

## **LIST OF TABLES**

For more information on family planning, see the following tables:

- **Table 7.1 Knowledge of contraceptive methods**
- **Table 7.2 Knowledge of contraceptive methods according to background characteristics**
- **Table 7.3 Current use of contraception according to age**
- **Table 7.4 Current use of contraception according to background characteristics**
- **Table 7.5 Knowledge of fertile period**
- **Table 7.6 Knowledge of fertile period by age**
- **Table 7.7 Timing of sterilisation**
- **Table 7.8 Source of modern contraception methods**
- **Table 7.9 Use of social marketing brand pills and condoms**
- **Table 7.10 Informed choice**
- **Table 7.11 Twelve-month contraceptive discontinuation rates**
- **Table 7.12 Reasons for discontinuation**
- **Table 7.13.1 Need and demand for family planning among currently married women**
- **Table 7.13.2 Need and demand for family planning for all women and for sexually active unmarried women**
- **Table 7.14 Decision making about family planning**
- **Table 7.15 Future use of contraception**
- **Table 7.16 Exposure to family planning messages**
- **Table 7.17 Contact of nonusers with family planning providers**
- **Table 7.18 Exposure to specific radio and television programmes**

**Table 7.1 Knowledge of contraceptive methods**

Percentage of all respondents, currently married respondents, and sexually active unmarried respondents age 15-49 who have heard of any contraceptive method, by specific method, Zambia DHS 2018

| Method  | Women       |                         |  | Men         |                       |  |
|---|-------------|-------------------------|--|-------------|-----------------------|--|
|   | All women   | Currently married women | Sexually active unmarried women <sup>1</sup> | All men     | Currently married men | Sexually active unmarried men <sup>1</sup> |
| <b>Any method</b>                                 | <b>98.7</b> | <b>99.7</b>             | <b>99.4</b>                                  | <b>99.1</b> | <b>99.9</b>           | <b>99.8</b>                                |
| <b>Any modern method</b>                          | <b>98.7</b> | <b>99.7</b>             | <b>99.4</b>                                  | <b>99.1</b> | <b>99.9</b>           | <b>99.8</b>                                |
| Female sterilisation                              | 63.1        | 70.9                    | 61.1   | 48.6        | 59.5                  | 46.7                                       |
| Male sterilisation                                | 23.4        | 25.6                    | 21.9   | 25.2        | 30.5                  | 20.7                                       |
| Pill  | 95.2        | 98.4                    | 94.7   | 90.0        | 97.6                  | 89.8                                       |
| IUD   | 63.6        | 73.5                    | 63.9   | 34.9        | 44.5                  | 32.6                                       |
| Injectables                                       | 94.7        | 98.8                    | 94.3   | 88.4        | 97.8                  | 90.3                                       |
| Implants  | 88.5        | 95.2                    | 89.6   | 67.6        | 83.5                  | 64.3                                       |
| Male condom                                       | 97.1        | 98.6                    | 98.3   | 98.6        | 99.7                  | 99.4                                       |
| Female condom                                     | 87.4        | 90.5                    | 88.5   | 85.4        | 91.7                  | 88.4                                       |
| Emergency contraception                           | 30.3        | 31.4                    | 32.5   | 25.0        | 31.5                  | 23.1                                       |
| Standard days method (SDM)                        | 33.0        | 38.4                    | 31.9   | 25.6        | 35.9                  | 21.6                                       |
| Lactational amenorrhoea method (LAM)              | 47.0        | 57.5                    | 38.4   | 23.2        | 34.0                  | 20.1                                       |
| Other modern method                               | 0.7         | 0.9                     | 0.4  | 0.2         | 0.3                   | 0.4  |
| <b>Any traditional method</b>                     | <b>74.0</b> | <b>84.9</b>             | <b>69.9</b>                                  | <b>72.5</b> | <b>89.8</b>           | <b>70.0</b>                                |
| Rhythm  | 38.9        | 44.4                    | 36.9   | 40.4        | 51.9                  | 41.5                                       |
| Withdrawal  | 71.4        | 82.7                    | 66.2   | 69.3        | 87.6                  | 66.2                                       |
| Other traditional method                          | 4.0         | 5.3                     | 3.7  | 1.2         | 2.0                   | 0.5  |
| Mean number of methods known by respondents 15-49 | 8.4         | 9.1                     | 8.2  | 7.2         | 8.5                   | 7.1  |
| Number of respondents                             | 13,683      | 7,648                   | 835  | 11,177      | 5,572                 | 1,306                                      |
| Mean number of methods known by respondents 15-59 | na          | na                      | na   | 7.4         | 8.5                   | 7.1  |
| Number of respondents                             | na          | na                      | na   | 12,132      | 6,428                 | 1,316                                      |

na = Not applicable

<sup>1</sup> Had last sexual intercourse within 30 days preceding the survey

**Table 7.2 Knowledge of contraceptive methods according to background characteristics**

Percentage of currently married women and currently married men age 15-49 who have heard of at least one contraceptive method and who have heard of at least one modern method, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women               |   |        | Men                 |   |        |
|---------------------------|---------------------|---|--------|---------------------|---|--------|
|                           | Heard of any method | Heard of any modern method <sup>1</sup> | Number | Heard of any method | Heard of any modern method <sup>1</sup> | Number |
| <b>Age</b>                |                     |   |        |                     |   |        |
| 15-19                     | 98.1                | 98.1                                    | 437    | (96.1)              | (96.1)                                  | 31     |
| 20-24                     | 99.9                | 99.9                                    | 1,438  | 99.5                | 99.5                                    | 459    |
| 25-29                     | 99.8                | 99.8                                    | 1,544  | 99.9                | 99.9                                    | 1,090  |
| 30-34                     | 99.9                | 99.8                                    | 1,396  | 99.9                | 99.9                                    | 1,138  |
| 35-39                     | 99.8                | 99.8                                    | 1,307  | 99.9                | 99.9                                    | 1,104  |
| 40-44                     | 99.7                | 99.5                                    | 908    | 100.0               | 100.0                                   | 968    |
| 45-49                     | 99.9                | 99.9                                    | 618    | 100.0               | 100.0                                   | 781    |
| <b>Residence</b>          |                     |   |        |                     |   |        |
| Urban                     | 100.0               | 100.0                                   | 3,080  | 100.0               | 100.0                                   | 2,170  |
| Rural                     | 99.6                | 99.5                                    | 4,568  | 99.9                | 99.9                                    | 3,402  |
| <b>Province</b>           |                     |   |        |                     |   |        |
| Central                   | 99.9                | 99.9                                    | 654    | 100.0               | 100.0                                   | 486    |
| Copperbelt                | 100.0               | 100.0                                   | 1,043  | 99.9                | 99.9                                    | 728    |
| Eastern                   | 99.7                | 99.7                                    | 1,075  | 100.0               | 100.0                                   | 857    |
| Luapula                   | 99.7                | 99.7                                    | 611    | 100.0               | 100.0                                   | 429    |
| Lusaka                    | 100.0               | 100.0                                   | 1,384  | 100.0               | 100.0                                   | 1,022  |
| Muchinga                  | 100.0               | 100.0                                   | 470    | 98.4                | 98.4                                    | 332    |
| Northern                  | 99.0                | 98.6                                    | 668    | 100.0               | 100.0                                   | 475    |
| North Western             | 99.8                | 99.8                                    | 359    | 100.0               | 100.0                                   | 271    |
| Southern                  | 99.8                | 99.8                                    | 993    | 100.0               | 100.0                                   | 704    |
| Western                   | 98.6                | 98.6                                    | 392    | 100.0               | 100.0                                   | 267    |
| <b>Education</b>          |                     |   |        |                     |   |        |
| No education              | 98.9                | 98.6                                    | 743    | 99.8                | 99.8                                    | 276    |
| Primary                   | 99.7                | 99.7                                    | 3,881  | 99.9                | 99.9                                    | 2,263  |
| Secondary                 | 100.0               | 100.0                                   | 2,635  | 99.9                | 99.9                                    | 2,492  |
| Higher                    | 100.0               | 100.0                                   | 389    | 100.0               | 100.0                                   | 541    |
| <b>Wealth quintile</b>    |                     |   |        |                     |   |        |
| Lowest                    | 99.1                | 98.9                                    | 1,553  | 99.7                | 99.7                                    | 1,168  |
| Second                    | 99.6                | 99.6                                    | 1,509  | 99.9                | 99.9                                    | 1,087  |
| Middle                    | 100.0               | 100.0                                   | 1,468  | 99.9                | 99.9                                    | 1,119  |
| Fourth                    | 100.0               | 100.0                                   | 1,620  | 100.0               | 100.0                                   | 1,187  |
| Highest                   | 100.0               | 100.0                                   | 1,499  | 100.0               | 100.0                                   | 1,011  |
| Total 15-49               | 99.7                | 99.7                                    | 7,648  | 99.9                | 99.9                                    | 5,572  |
| 50-59                     | na                  | na                                      | na     | 100.0               | 100.0                                   | 856    |
| Total 15-59               | na                  | na                                      | na     | 99.9                | 99.9                                    | 6,428  |

Note: Figures in parentheses are based on 25-49 unweighted cases.

na = Not applicable

<sup>1</sup> Female sterilisation, male sterilisation, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods

**Table 7.3 Current use of contraception according to age**

Percent distribution of all women, currently married women, and sexually active unmarried women age 15-49 by contraceptive method currently used, according to age, Zambia DHS 2018

| Age  | Any method | Any modern method | Modern method        |      |     |             |          |             |     | Any traditional method | Traditional method |        |            | Not currently using | Total | Number of women |       |        |
|--|------------|-------------------|----------------------|------|-----|-------------|----------|-------------|-----|------------------------|--------------------|--------|------------|---------------------|-------|-----------------|-------|--------|
|  |            |                   | Female sterilisation | Pill | IUD | Injectables | Implants | Male condom | SDM |                        | Other <sup>1</sup> | Rhythm | Withdrawal | Other               |       |                 |       |        |
| ALL WOMEN                                    |            |                   |                      |      |     |             |          |             |     |                        |                    |        |            |                     |       |                 |       |        |
| 15-19  | 12.1       | 12.0              | 0.0                  | 0.9  | 0.0 | 7.8         | 1.6      | 1.6         | 0.0 | 0.1                    | 0.0                | 0.1    | 0.0        | 0.1                 | 87.9  | 100.0           | 3,000 |        |
| 20-24  | 35.8       | 35.1              | 0.0                  | 3.4  | 0.1 | 21.8        | 6.6      | 2.7         | 0.0 | 0.4                    | 0.1                | 0.8    | 0.0        | 0.7                 | 0.1   | 64.2            | 100.0 | 2,733  |
| 25-29  | 46.7       | 45.5              | 0.0                  | 6.5  | 0.5 | 25.6        | 8.0      | 3.3         | 0.5 | 0.8                    | 0.3                | 1.2    | 0.1        | 1.1                 | 0.0   | 53.3            | 100.0 | 2,237  |
| 30-34  | 48.6       | 46.9              | 0.7                  | 7.8  | 0.8 | 25.0        | 8.1      | 3.7         | 0.3 | 0.6                    | 0.0                | 1.7    | 0.1        | 1.5                 | 0.0   | 51.4            | 100.0 | 1,862  |
| 35-39  | 47.0       | 45.3              | 1.8                  | 8.2  | 1.1 | 21.1        | 8.1      | 4.1         | 0.2 | 0.7                    | 0.0                | 1.7    | 0.4        | 1.3                 | 0.1   | 53.0            | 100.0 | 1,697  |
| 40-44  | 38.9       | 36.2              | 3.4                  | 6.6  | 1.0 | 13.9        | 7.2      | 3.4         | 0.0 | 0.5                    | 0.1                | 2.7    | 0.3        | 2.1                 | 0.3   | 61.1            | 100.0 | 1,253  |
| 45-49  | 29.1       | 25.9              | 4.5                  | 4.4  | 1.1 | 7.0         | 4.9      | 3.1         | 0.7 | 0.0                    | 0.1                | 3.2    | 0.8        | 2.0                 | 0.4   | 70.9            | 100.0 | 900    |
| Total  | 35.4       | 34.1              | 0.9                  | 4.9  | 0.5 | 18.0        | 6.1      | 3.0         | 0.2 | 0.4                    | 0.1                | 1.3    | 0.2        | 1.0                 | 0.1   | 64.6            | 100.0 | 13,683 |
| CURRENTLY MARRIED WOMEN                      |            |                   |                      |      |     |             |          |             |     |                        |                    |        |            |                     |       |                 |       |        |
| 15-19  | 38.3       | 37.8              | 0.0                  | 4.0  | 0.0 | 26.7        | 4.3      | 2.3         | 0.0 | 0.6                    | 0.0                | 0.4    | 0.2        | 0.2                 | 0.0   | 61.7            | 100.0 | 437    |
| 20-24  | 48.6       | 47.4              | 0.0                  | 5.2  | 0.0 | 31.8        | 7.9      | 1.6         | 0.0 | 0.7                    | 0.1                | 1.2    | 0.0        | 1.1                 | 0.0   | 51.4            | 100.0 | 1,438  |
| 25-29  | 54.2       | 52.7              | 0.0                  | 8.2  | 0.6 | 30.2        | 9.2      | 2.8         | 0.7 | 1.0                    | 0.0                | 1.5    | 0.2        | 1.4                 | 0.0   | 45.8            | 100.0 | 1,544  |
| 30-34  | 54.0       | 51.9              | 0.7                  | 8.9  | 0.6 | 29.2        | 8.0      | 3.5         | 0.4 | 0.6                    | 0.0                | 2.1    | 0.2        | 1.9                 | 0.1   | 46.0            | 100.0 | 1,396  |
| 35-39  | 52.5       | 50.3              | 2.2                  | 9.8  | 1.3 | 23.3        | 8.4      | 4.3         | 0.3 | 0.7                    | 0.0                | 2.3    | 0.5        | 1.7                 | 0.1   | 47.5            | 100.0 | 1,307  |
| 40-44  | 46.2       | 42.6              | 4.5                  | 8.3  | 1.3 | 16.3        | 8.1      | 3.2         | 0.0 | 0.8                    | 0.2                | 3.5    | 0.4        | 2.9                 | 0.3   | 53.8            | 100.0 | 908    |
| 45-49  | 37.4       | 32.7              | 6.0                  | 5.9  | 1.5 | 8.8         | 6.2      | 3.2         | 1.1 | 0.0                    | 0.1                | 4.6    | 1.2        | 2.9                 | 0.6   | 62.6            | 100.0 | 618    |
| Total  | 49.6       | 47.5              | 1.5                  | 7.6  | 0.7 | 25.6        | 7.9      | 3.0         | 0.3 | 0.7                    | 0.1                | 2.1    | 0.3        | 1.7                 | 0.1   | 50.4            | 100.0 | 7,648  |
| SEXUALLY ACTIVE UNMARRIED WOMEN <sup>2</sup> |            |                   |                      |      |     |             |          |             |     |                        |                    |        |            |                     |       |                 |       |        |
| 15-19  | 30.4       | 30.1              | 0.0                  | 1.7  | 0.0 | 17.7        | 5.3      | 5.4         | 0.0 | 0.0                    | 0.0                | 0.4    | 0.0        | 0.4                 | 0.0   | 69.6            | 100.0 | 225    |
| 20-24  | 48.9       | 47.6              | 0.0                  | 4.7  | 0.0 | 24.6        | 8.9      | 8.7         | 0.0 | 0.0                    | 0.7                | 1.4    | 0.0        | 0.8                 | 0.6   | 51.1            | 100.0 | 227    |
| 25+  | 48.9       | 48.1              | 0.0                  | 7.2  | 1.4 | 20.1        | 10.9     | 6.5         | 0.2 | 0.2                    | 1.6                | 0.7    | 0.1        | 0.6                 | 0.0   | 51.1            | 100.0 | 383    |
| Total  | 43.9       | 43.1              | 0.0                  | 5.0  | 0.6 | 20.7        | 8.8      | 6.8         | 0.1 | 0.1                    | 0.9                | 0.8    | 0.1        | 0.6                 | 0.2   | 56.1            | 100.0 | 835    |

Note: If more than one method is used, only the most effective method is considered in this tabulation.

SDM = Standard days method

LAM = Lactational amenorrhoea method

<sup>1</sup> Other modern methods include male sterilisation, female condom, and emergency contraception

<sup>2</sup> Women who have had sexual intercourse within 30 days preceding the survey

**Table 7.4 Current use of contraception according to background characteristics**

Percent distribution of currently married and sexually active unmarried women age 15-49 by contraceptive method currently used, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Any method | Any modern method | Female sterilisation | Modern method |     |             |          |             |     | Any traditional method | Traditional method |        |            | Not currently using | Number of women |       |
|--|------------|-------------------|----------------------|---------------|-----|-------------|----------|-------------|-----|------------------------|--------------------|--------|------------|---------------------|-----------------|-------|
|  |            |                   |                      | Pill          | IUD | Injectables | Implants | Male condom | SDM |                        | Other <sup>1</sup> | Rhythm | Withdrawal | Other               |                 |       |
| <b>Number of living children</b>   |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| 0  | 4.5        | 4.5               | 0.0                  | 0.9           | 0.0 | 2.3         | 0.0      | 1.1         | 0.0 | 0.0                    | 0.2                | 0.0    | 0.0        | 0.0                 | 95.5            | 100.0 |
| 1-2  | 47.7       | 46.8              | 0.5                  | 7.0           | 0.3 | 28.1        | 6.7      | 3.4         | 0.1 | 0.6                    | 0.1                | 1.0    | 0.2        | 0.7                 | 0.0             | 52.3  |
| 3-4  | 57.0       | 54.7              | 1.4                  | 10.8          | 0.7 | 27.5        | 9.2      | 3.4         | 0.7 | 0.9                    | 0.1                | 2.3    | 0.2        | 2.1                 | 0.1             | 43.0  |
| 5+   | 50.8       | 47.3              | 3.1                  | 6.2           | 1.3 | 24.0        | 9.2      | 2.5         | 0.3 | 0.8                    | 0.0                | 3.5    | 0.6        | 2.7                 | 0.3             | 49.2  |
| <b>Residence</b>   |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| Urban  | 54.3       | 52.6              | 1.2                  | 10.7          | 1.2 | 24.4        | 9.5      | 4.6         | 0.4 | 0.5                    | 0.1                | 1.7    | 0.4        | 1.2                 | 0.1             | 45.7  |
| Rural  | 46.4       | 44.0              | 1.8                  | 5.6           | 0.4 | 26.4        | 6.9      | 2.0         | 0.3 | 0.8                    | 0.0                | 2.4    | 0.2        | 2.0                 | 0.1             | 53.6  |
| <b>Province</b>  |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| Central  | 50.9       | 49.7              | 0.3                  | 7.3           | 0.7 | 27.0        | 8.4      | 3.5         | 0.2 | 2.3                    | 0.1                | 1.2    | 0.1        | 1.1                 | 0.0             | 49.1  |
| Copperbelt   | 53.5       | 52.8              | 0.7                  | 9.6           | 1.1 | 26.4        | 10.0     | 4.4         | 0.1 | 0.4                    | 0.0                | 0.7    | 0.3        | 0.5                 | 0.0             | 46.5  |
| Eastern  | 55.0       | 53.7              | 4.1                  | 5.2           | 0.5 | 32.8        | 8.1      | 2.6         | 0.1 | 0.4                    | 0.0                | 1.3    | 0.0        | 1.2                 | 0.1             | 45.0  |
| Luapula  | 39.1       | 38.6              | 1.5                  | 3.8           | 0.4 | 24.1        | 7.1      | 1.0         | 0.0 | 0.6                    | 0.1                | 0.5    | 0.3        | 0.1                 | 0.1             | 60.9  |
| Lusaka   | 56.5       | 54.3              | 1.4                  | 11.7          | 1.6 | 24.6        | 8.4      | 4.8         | 0.6 | 1.0                    | 0.3                | 2.1    | 0.5        | 1.6                 | 0.0             | 43.5  |
| Muchinga   | 58.0       | 52.0              | 1.7                  | 6.9           | 0.5 | 23.5        | 13.5     | 3.5         | 0.1 | 2.3                    | 0.0                | 6.0    | 0.3        | 5.5                 | 0.3             | 42.0  |
| Northern   | 43.9       | 36.5              | 0.3                  | 5.4           | 0.5 | 22.8        | 6.1      | 1.1         | 0.1 | 0.1                    | 0.0                | 7.4    | 0.0        | 7.1                 | 0.3             | 56.1  |
| North Western  | 46.8       | 45.9              | 4.9                  | 6.6           | 0.1 | 25.0        | 7.8      | 1.4         | 0.1 | 0.0                    | 0.0                | 0.9    | 0.0        | 0.5                 | 0.4             | 53.2  |
| Southern   | 43.9       | 42.4              | 0.7                  | 7.8           | 0.4 | 23.7        | 5.7      | 2.7         | 1.2 | 0.2                    | 0.0                | 1.5    | 0.9        | 0.3                 | 0.2             | 56.1  |
| Western  | 31.2       | 30.0              | 0.1                  | 6.3           | 0.0 | 19.4        | 2.8      | 1.4         | 0.0 | 0.0                    | 0.0                | 1.2    | 0.0        | 1.0                 | 0.1             | 68.8  |
| <b>Education</b>   |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| No education   | 37.7       | 35.9              | 2.7                  | 3.6           | 0.3 | 19.7        | 7.2      | 1.5         | 0.0 | 1.0                    | 0.0                | 1.8    | 0.0        | 1.6                 | 0.2             | 62.3  |
| Primary  | 48.8       | 46.1              | 1.5                  | 6.8           | 0.6 | 26.7        | 7.5      | 2.0         | 0.3 | 0.7                    | 0.1                | 2.7    | 0.2        | 2.3                 | 0.2             | 51.2  |
| Secondary  | 54.2       | 52.9              | 1.2                  | 9.0           | 0.9 | 27.3        | 9.4      | 4.2         | 0.3 | 0.6                    | 0.1                | 1.3    | 0.3        | 0.9                 | 0.0             | 45.8  |
| Higher   | 49.1       | 46.6              | 2.4                  | 14.5          | 1.5 | 14.0        | 3.3      | 7.4         | 2.0 | 1.5                    | 0.1                | 2.5    | 1.2        | 1.3                 | 0.0             | 50.9  |
| <b>Wealth quintile</b>   |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| Lowest   | 40.8       | 38.0              | 0.9                  | 4.1           | 0.3 | 24.1        | 6.3      | 1.4         | 0.1 | 0.6                    | 0.0                | 2.8    | 0.1        | 2.5                 | 0.2             | 59.2  |
| Second   | 45.9       | 43.4              | 2.0                  | 4.8           | 0.3 | 26.4        | 6.4      | 2.2         | 0.3 | 1.0                    | 0.0                | 2.5    | 0.4        | 1.9                 | 0.2             | 54.1  |
| Middle   | 53.0       | 51.1              | 1.9                  | 7.1           | 0.5 | 28.5        | 9.9      | 1.9         | 0.4 | 0.8                    | 0.0                | 1.9    | 0.2        | 1.6                 | 0.0             | 47.0  |
| Fourth   | 54.6       | 53.6              | 0.7                  | 8.4           | 1.1 | 29.9        | 9.7      | 3.3         | 0.0 | 0.4                    | 0.1                | 0.9    | 0.1        | 0.8                 | 0.1             | 45.4  |
| Highest  | 53.8       | 51.3              | 2.3                  | 13.8          | 1.3 | 18.7        | 7.3      | 6.1         | 0.8 | 0.8                    | 0.2                | 2.5    | 0.7        | 1.8                 | 0.0             | 46.2  |
| Total  | 49.6       | 47.5              | 1.5                  | 7.6           | 0.7 | 25.6        | 7.9      | 3.0         | 0.3 | 0.7                    | 0.1                | 2.1    | 0.3        | 1.7                 | 0.1             | 50.4  |
| <b>SEXUALLY ACTIVE UNMARRIED WOMEN<sup>2</sup></b>   |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| <b>Residence</b>   |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| Urban  | 47.6       | 46.7              | 0.0                  | 6.7           | 1.2 | 17.0        | 10.2     | 9.6         | 0.2 | 0.2                    | 1.6                | 0.9    | 0.0        | 0.8                 | 0.1             | 52.4  |
| Rural  | 39.9       | 39.2              | 0.0                  | 3.2           | 0.0 | 24.8        | 7.4      | 3.7         | 0.0 | 0.0                    | 0.1                | 0.7    | 0.1        | 0.3                 | 0.2             | 60.1  |
| Total  | 43.9       | 43.1              | 0.0                  | 5.0           | 0.6 | 20.7        | 8.8      | 6.8         | 0.1 | 0.1                    | 0.9                | 0.8    | 0.1        | 0.6                 | 0.2             | 56.1  |
| Note: If more than one method is used, only the most effective method is considered in this tabulation.  |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| SDM = Standard days method   |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| LAM = Lactational amenorrhoea method   |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| <sup>1</sup> Other modern methods include male sterilisation, female condom, and emergency contraception |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |
| <sup>2</sup> Women who have had sexual intercourse within 30 days preceding the survey.                  |            |                   |                      |               |     |             |          |             |     |                        |                    |        |            |                     |                 |       |

**Table 7.5 Knowledge of fertile period**

Percent distribution of all women age 15-49 by knowledge of the fertile period during the ovulatory cycle, Zambia DHS 2018

| Perceived fertile period                   | All women |
|--|-----------|
| Just before her menstrual period begins    | 21.5      |
| During her menstrual period                | 0.8       |
| Right after her menstrual period has ended | 28.7      |
| Halfway between two menstrual periods      | 21.1      |
| Other                                      | 0.3       |
| No specific time                           | 10.7      |
| Don't know                                 | 16.9      |
| Total                                      | 100.0     |
| Number of women                            | 13,683    |

**Table 7.6 Knowledge of fertile period by age**

Percentage of women age 15-49 with correct knowledge of the fertile period during the ovulatory cycle, according to age, Zambia DHS 2018

| Age   | Percentage with correct knowledge of the fertile period | Number of women |
|-------|---|-----------------|
| 15-19 | 13.2  | 3,000           |
| 20-24 | 21.8  | 2,733           |
| 25-29 | 23.3  | 2,237           |
| 30-34 | 25.0  | 1,862           |
| 35-39 | 25.2  | 1,697           |
| 40-44 | 21.7  | 1,253           |
| 45-49 | 22.8  | 900             |
| Total | 21.1  | 13,683          |

Note: Correct knowledge of the fertile period is defined as "halfway between two menstrual periods."

**Table 7.7 Timing of sterilisation**

Percent distribution of sterilised women age 15-49 by age at the time of sterilisation and median age at sterilisation, Zambia DHS 2018

|       | Age at time of sterilisation |       |       |       |       |       | Number of women | Median age <sup>1</sup> |
|-------|------------------------------|-------|-------|-------|-------|-------|-----------------|-------------------------|
|       | <25                          | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 |                 |                         |
| Total | 8.1                          | 8.9   | 25.5  | 32.8  | 22.6  | 2.1   | 100.0           | 126                     |

<sup>1</sup> Median age at sterilisation is calculated only for women sterilised before age 40 to avoid problems of censoring.

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**Table 7.8 Source of modern contraception methods**

Percent distribution of users of modern contraceptive methods age 15-49 by most recent source of method, according to method, Zambia DHS 2018

| Source                            | Female sterilisation | IUD         | Injectables | Implants    | Pill        | Male condom | Other modern method <sup>1</sup> | Total       |
|-----------------------------------|----------------------|-------------|-------------|-------------|-------------|-------------|----------------------------------|-------------|
| <b>Public sector</b>              | <b>64.2</b>          | <b>96.3</b> | <b>95.7</b> | <b>95.7</b> | <b>71.3</b> | <b>73.5</b> | <b>(37.7)</b>                    | <b>88.8</b> |
| Government hospital               | 57.8                 | 11.5        | 5.7         | 11.1        | 5.7         | 8.6         | (0.0)                            | 8.4         |
| Government health centre          | 3.0                  | 80.8        | 71.6        | 71.8        | 53.8        | 53.6        | (26.8)                           | 65.3        |
| Government health post            | 1.4                  | 1.9         | 15.4        | 10.9        | 10.3        | 8.9         | (10.9)                           | 12.6        |
| Mobile hospital/clinic            | 1.3                  | 2.1         | 1.1         | 1.8         | 0.6         | 0.5         | (0.0)                            | 1.1         |
| Community-based agent/fieldworker | 0.0                  | 0.0         | 1.9         | 0.1         | 0.9         | 1.2         | (0.0)                            | 1.3         |
| Other public sector               | 0.7                  | 0.0         | 0.0         | 0.0         | 0.0         | 0.6         | (0.0)                            | 0.1         |
| <b>Private sector</b>             | <b>34.8</b>          | <b>3.7</b>  | <b>4.3</b>  | <b>4.3</b>  | <b>22.9</b> | <b>15.8</b> | <b>(24.2)</b>                    | <b>9.0</b>  |
| Private hospital/clinic           | 1.2                  | 0.0         | 1.2         | 2.0         | 3.3         | 0.2         | (4.8)                            | 1.6         |
| Mission hospital/clinic           | 31.8                 | 0.0         | 1.3         | 1.5         | 1.1         | 0.3         | (0.0)                            | 2.0         |
| Pharmacy                          | 0.0                  | 0.0         | 0.0         | 0.0         | 17.2        | 15.1        | (17.8)                           | 4.0         |
| Private doctor's office           | 0.0                  | 2.8         | 0.1         | 0.0         | 0.3         | 0.1         | (0.0)                            | 0.2         |
| Mobile hospital/clinic            | 1.9                  | 0.9         | 0.6         | 0.7         | 0.5         | 0.0         | (0.0)                            | 0.6         |
| Community-based agent/fieldworker | 0.0                  | 0.0         | 1.0         | 0.0         | 0.6         | 0.0         | (1.6)                            | 0.7         |
| Other private medical             | 0.0                  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | (0.0)                            | 0.0         |
| <b>Other source</b>               | <b>0.0</b>           | <b>0.0</b>  | <b>0.0</b>  | <b>0.0</b>  | <b>5.5</b>  | <b>10.0</b> | <b>(24.2)</b>                    | <b>1.9</b>  |
| Shop                              | 0.0                  | 0.0         | 0.0         | 0.0         | 5.3         | 9.0         | (3.8)                            | 1.6         |
| Church                            | 0.0                  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | (5.7)                            | 0.1         |
| Friend/relative                   | 0.0                  | 0.0         | 0.0         | 0.0         | 0.2         | 1.0         | (14.8)                           | 0.3         |
| Other                             | 0.9                  | 0.0         | 0.0         | 0.0         | 0.2         | 0.7         | (11.6)                           | 0.3         |
| Don't know                        | 0.0                  | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | (2.3)                            | 0.0         |
| Total                             | 100.0                | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | (100.0)                          | 100.0       |
| Number of women                   | 126                  | 67          | 2,464       | 830         | 672         | 404         | 42                               | 4,604       |

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Note: Total includes other modern methods but excludes lactational amenorrhoea method (LAM). Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes male sterilisation, female condom, emergency contraception, and standard days method (SDM)

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**Table 7.9 Use of social marketing brand pills and condoms**

Percentage of pill and condom users age 15-49 using a social marketing brand, by background characteristics, Zambia DHS 2018

| Background characteristic | Among pill users |             |          |         |           |                 |                 |                 |             |       | Among condom users <sup>1</sup> |   |        |       |     | Number of women |
|---------------------------|------------------|-------------|----------|---------|-----------|-----------------|-----------------|-----------------|-------------|-------|---------------------------------|---|--------|-------|-----|-----------------|
|                           |                  |             |          |         |           | Number of women | Maximum classic | Maximum scented | Rough rider | Durex | Reality                         | Public sector unbranded (white colour foil) | Other  |       |     |                 |
|                           | SafePlan         | Micro-gynon | Microlut | Logynon | Oralcon F |                 |                 |                 |             |       |                                 |   |        |       |     |                 |
| <b>Age</b>                |                  |             |          |         |           |                 |                 |                 |             |       |                                 |   |        |       |     |                 |
| 15-19                     | (24.0)           | (50.2)      | (9.7)    | (0.0)   | (16.2)    | (0.0)           | 27              | (25.9)          | (10.1)      | (0.0) | (0.0)                           | (12.1)                                      | (51.9) | (0.0) | 38  |                 |
| 20-24                     | 21.8             | 54.9        | 5.7      | 0.0     | 15.3      | 0.0             | 91              | 32.5            | 9.1         | 4.6   | 4.2                             | 2.1   | 46.8   | 0.0   | 68  |                 |
| 25-29                     | 17.3             | 42.4        | 6.6      | 0.0     | 27.2      | 0.0             | 144             | 26.5            | 5.3         | 6.9   | 7.3                             | 0.0   | 54.1   | 0.0   | 66  |                 |
| 30-34                     | 35.4             | 42.4        | 3.5      | 0.3     | 16.7      | 0.0             | 144             | 25.2            | 9.6         | 5.6   | 1.1                             | 0.0   | 55.3   | 0.0   | 66  |                 |
| 35-39                     | 21.7             | 59.7        | 3.4      | 0.0     | 14.4      | 0.0             | 138             | 39.8            | 6.0         | 0.0   | 0.0                             | 0.0   | 54.2   | 0.0   | 66  |                 |
| 40-44                     | 24.4             | 50.7        | 1.5      | 0.0     | 22.6      | 0.0             | 82              | (22.6)          | (11.8)      | (1.9) | (1.9)                           | (0.0)                                       | (61.7) | (0.0) | 41  |                 |
| 45-49                     | (19.9)           | (54.5)      | (5.9)    | (0.0)   | (16.3)    | (0.0)           | 38              | *               | *           | *     | *                               | *   | *      | *     | 22  |                 |
| <b>Residence</b>          |                  |             |          |         |           |                 |                 |                 |             |       |                                 |   |        |       |     |                 |
| Urban                     | 27.1             | 45.4        | 2.9      | 0.1     | 20.6      | 0.0             | 390             | 36.4            | 10.9        | 4.9   | 3.2                             | 2.5   | 41.1   | 0.0   | 244 |                 |
| Rural                     | 19.7             | 55.9        | 6.9      | 0.0     | 16.6      | 0.0             | 276             | 14.4            | 2.6         | 1.3   | 1.9                             | 0.0   | 79.2   | 0.0   | 124 |                 |
| <b>Province</b>           |                  |             |          |         |           |                 |                 |                 |             |       |                                 |   |        |       |     |                 |
| Central                   | 17.9             | 62.7        | 2.7      | 0.0     | 15.3      | 0.0             | 53              | (30.6)          | (2.7)       | (0.0) | (2.5)                           | (0.0)                                       | (64.2) | (0.0) | 28  |                 |
| Copperbelt                | 18.1             | 45.2        | 5.4      | 0.0     | 31.3      | 0.0             | 117             | (35.8)          | (12.7)      | (3.0) | (0.0)                           | (0.0)                                       | (48.5) | (0.0) | 56  |                 |
| Eastern                   | 35.2             | 36.4        | 19.9     | 0.9     | 7.6       | 0.0             | 58              | 13.8            | 2.1         | 0.0   | 0.0                             | 0.0   | 82.6   | 0.0   | 51  |                 |
| Luapula                   | (11.2)           | (70.7)      | (6.9)    | (0.0)   | (11.2)    | (0.0)           | 28              | *               | *           | *     | *                               | *   | *      | *     | 9   |                 |
| Lusaka                    | 32.0             | 36.6        | 1.6      | 0.0     | 22.2      | 0.0             | 187             | 37.6            | 11.3        | 7.5   | 5.1                             | 4.3   | 33.2   | 0.0   | 138 |                 |
| Muchinga                  | 15.8             | 54.9        | 6.0      | 0.0     | 23.3      | 0.0             | 35              | (2.7)           | (2.5)       | (0.0) | (12.0)                          | (0.0)                                       | (80.4) | (0.0) | 20  |                 |
| Northern                  | (5.7)            | (78.5)      | (0.0)    | (0.0)   | (14.0)    | (0.0)           | 36              | *               | *           | *     | *                               | *   | *      | *     | 9   |                 |
| North Western             | (20.7)           | (72.3)      | (2.4)    | (0.0)   | (4.5)     | (0.0)           | 30              | *               | *           | *     | *                               | *   | *      | *     | 6   |                 |
| Southern                  | 18.3             | 61.2        | 2.4      | 0.0     | 16.1      | 0.0             | 86              | (13.9)          | (4.7)       | (4.1) | (0.0)                           | (0.0)                                       | (77.3) | (0.0) | 38  |                 |
| Western                   | (47.5)           | (38.1)      | (3.6)    | (0.0)   | (10.9)    | (0.0)           | 34              | *               | *           | *     | *                               | *   | *      | *     | 12  |                 |
| <b>Education</b>          |                  |             |          |         |           |                 |                 | *               | *           | *     | *                               | *   | *      | *     |     |                 |
| No education              | (4.0)            | (64.1)      | (10.8)   | (0.0)   | (21.1)    | (0.0)           | 29              | *               | *           | *     | *                               | *   | *      | *     | 12  |                 |
| Primary                   | 15.8             | 57.8        | 5.8      | 0.0     | 19.9      | 0.0             | 287             | 24.4            | 0.0         | 4.0   | 1.4                             | 0.0   | 70.2   | 0.0   | 115 |                 |
| Secondary                 | 34.1             | 40.6        | 3.0      | 0.0     | 17.9      | 0.0             | 278             | 30.3            | 13.1        | 0.9   | 0.4                             | 3.4   | 50.9   | 0.0   | 178 |                 |
| Higher                    | 26.0             | 47.3        | 3.4      | 0.7     | 18.6      | 0.0             | 72              | 37.0            | 10.3        | 12.0  | 12.5                            | 0.0   | 26.0   | 0.0   | 62  |                 |
| <b>Wealth quintile</b>    |                  |             |          |         |           |                 |                 |                 |             |       |                                 |   |        |       |     |                 |
| Lowest                    | 9.8              | 62.9        | 12.1     | 0.0     | 15.3      | 0.0             | 74              | (10.5)          | (0.0)       | (0.0) | (2.4)                           | (0.0)                                       | (87.0) | (0.0) | 32  |                 |
| Second                    | 22.0             | 56.3        | 4.6      | 0.0     | 17.1      | 0.0             | 78              | (12.1)          | (1.5)       | (1.8) | (0.0)                           | (0.0)                                       | (84.6) | (0.0) | 42  |                 |
| Middle                    | 23.3             | 55.7        | 5.8      | 0.0     | 14.4      | 0.0             | 110             | (15.3)          | (0.0)       | (4.2) | (2.1)                           | (0.0)                                       | (76.6) | (0.0) | 41  |                 |
| Fourth                    | 24.0             | 52.0        | 4.0      | 0.0     | 19.6      | 0.0             | 168             | 41.5            | 7.5         | 0.0   | 0.7                             | 0.0   | 49.5   | 0.0   | 94  |                 |
| Highest                   | 29.6             | 39.1        | 2.1      | 0.2     | 22.4      | 0.0             | 236             | 33.4            | 14.0        | 7.1   | 4.9                             | 3.8   | 35.8   | 0.0   | 158 |                 |
| Total                     | 24.0             | 49.7        | 4.6      | 0.1     | 19.0      | 0.0             | 665             | 29.0            | 8.1         | 3.7   | 2.7                             | 1.6   | 53.9   | 0.0   | 367 |                 |

Note: Table excludes pill and condom users who do not know the brand name. Condom use is based on women's reports.

Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Among condom users not also using the pill.

**Table 7.10 Informed choice**

Among current users of modern methods age 15-49 who started the last episode of use within the 5 years preceding the survey, percentage who were informed about possible side effects or problems of that method, percentage who were informed about what to do if they experienced side effects, percentage who were informed about other methods they could use, and percentage who were informed of all three, according to method and initial source, Zambia DHS 2018

| Method/source                               | Among women who started last episode of modern contraceptive method within 5 years preceding the survey: |  |  |  |       | Number of women |
|---|--|--|--|--|-------|-----------------|
|   | Percentage who were informed about side effects or problems of method used                               | Percentage who were informed about what to do if they experienced side effects | Percentage who were informed by a health or family planning worker of other methods that could be used | Percentage who were informed of all three (method information index) |       |                 |
| <b>Method</b>                               |  |  |  |  |       |                 |
| Female sterilisation                        | 74.8   | 71.8   | 78.4   | 66.3   | 62    |                 |
| IUD   | (98.7)   | (79.0)   | (87.4)   | (75.5)   | 43    |                 |
| Injectables                                 | 79.8   | 75.0   | 83.4   | 71.1   | 2,319 |                 |
| Implants                                    | 88.7   | 85.7   | 89.0   | 80.8   | 778   |                 |
| Pill  | 79.0   | 73.9   | 82.2   | 71.7   | 595   |                 |
| <b>Initial source of method<sup>1</sup></b> |  |  |  |  |       |                 |
| Public sector                               | 83.0   | 78.5   | 85.8   | 74.7   | 3,507 |                 |
| Government hospital                         | 81.0   | 78.0   | 88.2   | 76.2   | 310   |                 |
| Government health centre                    | 84.1   | 79.5   | 86.6   | 75.8   | 2,587 |                 |
| Government health post                      | 78.2   | 73.6   | 80.4   | 69.3   | 511   |                 |
| Mobile hospital/clinic                      | 87.5   | 79.6   | 85.5   | 72.9   | 47    |                 |
| Community-based agent/fieldworker           | (77.8)   | (73.5)   | (82.9)   | (65.4)   | 49    |                 |
| Other public sector                         | *  | *  | *  | *  | 3     |                 |
| Private sector                              | 66.9   | 60.9   | 68.3   | 56.0   | 264   |                 |
| Private hospital/clinic                     | (81.1)   | (64.6)   | (74.9)   | (59.4)   | 51    |                 |
| Mission hospital/clinic                     | 88.6   | 85.6   | 90.5   | 79.7   | 63    |                 |
| Pharmacy                                    | 34.6   | 32.5   | 44.5   | 32.2   | 94    |                 |
| Private doctor's office                     | *  | *  | *  | *  | 5     |                 |
| Mobile hospital/clinic                      | (70.7)   | (59.2)   | (79.2)   | (56.1)   | 26    |                 |
| Community-based agent/fieldworker           | *  | *  | *  | *  | 21    |                 |
| Other private medical                       | *  | *  | *  | *  | 3     |                 |
| Other source                                | (48.0)   | (42.6)   | (50.7)   | (33.1)   | 25    |                 |
| Shop  | (48.0)   | (42.6)   | (50.7)   | (33.1)   | 25    |                 |
| Other                                       | *  | *  | *  | *  | 2     |                 |
| Total                                       | 81.6   | 77.0   | 84.3   | 73.1   | 3,798 |                 |

Note: Table includes users of only the methods listed individually. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Source at start of current episode of use

**Table 7.11 Twelve-month contraceptive discontinuation rates**

Among episodes of contraceptive use experienced within the 5 years preceding the survey, percentage of episodes discontinued within 12 months, according to reason for discontinuation and specific method, Zambia DHS 2018

| Method             | Method failure | Reason for discontinuation |  |                              |                              |   |               |                         | Switched to another method <sup>4</sup> | Number of episodes of use <sup>5</sup> |
|--------------------|----------------|----------------------------|--|------------------------------|------------------------------|---|---------------|-------------------------|---|--|
|                    |                | Desire to become pregnant  | Other fertility-related reasons <sup>1</sup> | Side effects/health concerns | Wanted more effective method | Other method-related reasons <sup>2</sup> | Other reasons | Any reason <sup>3</sup> |   |  |
| Injectables        | 1.4            | 7.6                        | 2.8  | 15.2                         | 1.5                          | 2.2                                       | 3.4           | 34.0                    | 3.8                                     | 4,327                                  |
| Implants           | 0.3            | 1.7                        | 0.7  | 7.0                          | 0.8                          | 0.1                                       | 1.0           | 11.6                    | 2.2                                     | 1,144                                  |
| Pill               | 3.1            | 9.0                        | 5.5  | 19.2                         | 4.1                          | 5.3                                       | 5.2           | 51.3                    | 11.1                                    | 1,594                                  |
| Male condom        | 0.6            | 4.6                        | 9.5  | 1.4                          | 17.2                         | 5.3                                       | 6.5           | 45.2                    | 16.7                                    | 699                                    |
| Withdrawal         | 8.0            | 8.1                        | 2.1  | 0.0                          | 20.1                         | 2.9                                       | 1.9           | 43.1                    | 19.0                                    | 365                                    |
| Other <sup>6</sup> | 1.5            | 3.7                        | 1.8  | 4.1                          | 14.3                         | 3.5                                       | 2.6           | 31.6                    | 11.9                                    | 436                                    |
| All methods        | 1.8            | 6.7                        | 3.5  | 12.5                         | 4.6                          | 2.9                                       | 3.6           | 35.5                    | 7.1                                     | 8,565                                  |

Note: Figures are based on life table calculations using information on episodes of use that occurred 3-62 months preceding the survey.

<sup>1</sup> Includes infrequent sex/husband away, difficult to get pregnant/menopausal, and marital dissolution/separation

<sup>2</sup> Includes lack of access/too far, costs too much, and inconvenient to use

<sup>3</sup> Reasons for discontinuation are mutually exclusive and add to the total given in this column.

<sup>4</sup> A woman is considered to have switched to another method if she used a different method in the month following discontinuation or if she gave "wanted a more effective method" as the reason for discontinuation and started another method within 2 months of discontinuation.

<sup>5</sup> All episodes of use that occurred within the 5 years preceding the survey are included. Episodes of use include both episodes that were discontinued during the period of observation and episodes that were not discontinued during the period of observation.

<sup>6</sup> Includes female sterilisation, male sterilisation, IUD, female condom, emergency contraception, periodic abstinence, and lactational amenorrhoea method (LAM)

**Table 7.12 Reasons for discontinuation**

Percent distribution of discontinuations of contraceptive methods in the 5 years preceding the survey by main reason stated for discontinuation, according to specific method, Zambia DHS 2018

| Reason                                | IUD    | Injectables | Implants | Pill  | Male condom | Withdrawal | Other <sup>1</sup> | All methods |
|---------------------------------------|--------|-------------|----------|-------|-------------|------------|--------------------|-------------|
| Became pregnant while using           | (4.0)  | 6.3         | 3.9      | 9.7   | 5.0         | 21.7       | 5.6                | 7.5         |
| Wanted to become pregnant             | (22.2) | 33.4        | 24.7     | 28.0  | 18.0        | 32.5       | 25.4               | 29.6        |
| Husband/partner disapproved           | (15.7) | 4.4         | 1.8      | 2.5   | 7.9         | 4.4        | 3.0                | 4.0         |
| Wanted a more effective method        | (1.1)  | 3.6         | 4.4      | 6.7   | 27.5        | 31.6       | 42.6               | 9.0         |
| Side effects/health concerns          | (51.8) | 34.2        | 49.5     | 29.0  | 2.5         | 0.0        | 2.5                | 29.4        |
| Lack of access/too far                | (0.0)  | 5.8         | 0.3      | 3.8   | 2.1         | 0.0        | 1.5                | 4.0         |
| Cost too much                         | (0.0)  | 0.1         | 0.1      | 1.2   | 0.0         | 0.0        | 0.2                | 0.4         |
| Inconvenient to use                   | (3.0)  | 0.9         | 0.7      | 4.6   | 6.6         | 3.8        | 5.9                | 2.5         |
| Up to God/fatalistic                  | (0.0)  | 0.3         | 0.1      | 0.2   | 0.0         | 0.0        | 1.4                | 0.3         |
| Difficult to get pregnant/ menopausal | (0.0)  | 0.2         | 0.0      | 0.2   | 0.4         | 0.1        | 0.2                | 0.2         |
| Infrequent sex/husband away           | (1.7)  | 5.9         | 4.1      | 8.2   | 22.2        | 2.7        | 5.6                | 7.3         |
| Marital dissolution/ separation       | (0.0)  | 0.7         | 0.5      | 0.9   | 1.6         | 1.6        | 0.0                | 0.8         |
| Other                                 | (0.7)  | 3.6         | 9.4      | 5.1   | 4.6         | 1.7        | 6.0                | 4.5         |
| Don't know                            | (0.0)  | 0.6         | 0.3      | 0.1   | 1.7         | 0.0        | 0.0                | 0.5         |
| Missing                               | (0.0)  | 0.0         | 0.0      | 0.0   | 0.0         | 0.0        | 0.0                | 0.0         |
| Total                                 | 100.0  | 100.0       | 100.0    | 100.0 | 100.0       | 100.0      | 100.0              | 100.0       |
| Number of discontinuations            | 77     | 2,944       | 579      | 1,438 | 470         | 306        | 198                | 6,012       |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Female condom, emergency contraception, standard days method, periodic abstinence, and lactational amenorrhoea method (LAM)

**Table 7.13.1 Need and demand for family planning among currently married women**

Percentage of currently married women age 15-49 with unmet need for family planning, percentage with met need for family planning, total demand for family planning, and percentage of the demand for family planning that is satisfied, according to background characteristics, Zambia DHS 2018

| Background characteristic | Unmet need for family planning |              |       | Met need for family planning (currently using) |              |       | Total demand for family planning <sup>1</sup> |              |       | Number of women | Percentage of demand satisfied <sup>2</sup> | Percentage of demand satisfied by modern methods <sup>3</sup> |
|---------------------------|--------------------------------|--------------|-------|--|--------------|-------|---|--------------|-------|-----------------|---|---|
|                           | For spacing                    | For limiting | Total | For spacing                                    | For limiting | Total | For spacing                                   | For limiting | Total |                 |   |   |
| <b>Age</b>                |                                |              |       |  |              |       |   |              |       |                 |   |   |
| 15-19                     | 20.4                           | 1.2          | 21.5  | 36.6   | 1.7          | 38.3  | 56.9  | 2.8          | 59.8  | 437             | 64.0  | 63.3  |
| 20-24                     | 17.3                           | 2.0          | 19.3  | 45.1   | 3.5          | 48.6  | 62.4  | 5.5          | 67.9  | 1,438           | 71.6  | 69.8  |
| 25-29                     | 13.2                           | 2.4          | 15.7  | 43.7   | 10.4         | 54.2  | 57.0  | 12.9         | 69.8  | 1,544           | 77.6  | 75.4  |
| 30-34                     | 12.7                           | 6.1          | 18.8  | 33.5   | 20.6         | 54.0  | 46.2  | 26.7         | 72.9  | 1,396           | 74.2  | 71.2  |
| 35-39                     | 10.6                           | 12.8         | 23.3  | 18.4   | 34.2         | 52.5  | 28.9  | 46.9         | 75.9  | 1,307           | 69.3  | 66.3  |
| 40-44                     | 6.1                            | 18.2         | 24.2  | 5.5  | 40.7         | 46.2  | 11.5  | 58.9         | 70.4  | 908             | 65.6  | 60.5  |
| 45-49                     | 1.8                            | 14.9         | 16.7  | 1.6  | 35.8         | 37.4  | 3.4   | 50.6         | 54.0  | 618             | 69.1  | 60.6  |
| <b>Residence</b>          |                                |              |       |  |              |       |   |              |       |                 |   |   |
| Urban                     | 8.8                            | 8.5          | 17.4  | 31.2   | 23.1         | 54.3  | 40.1  | 31.6         | 71.7  | 3,080           | 75.8  | 73.4  |
| Rural                     | 14.3                           | 6.9          | 21.2  | 28.2   | 18.2         | 46.4  | 42.5  | 25.2         | 67.7  | 4,568           | 68.6  | 65.1  |
| <b>Province</b>           |                                |              |       |  |              |       |   |              |       |                 |   |   |
| Central                   | 10.0                           | 7.1          | 17.0  | 31.6   | 19.3         | 50.9  | 41.6  | 26.3         | 67.9  | 654             | 74.9  | 73.2  |
| Copperbelt                | 9.4                            | 10.0         | 19.4  | 29.0   | 24.6         | 53.5  | 38.4  | 34.6         | 73.0  | 1,043           | 73.4  | 72.3  |
| Eastern                   | 14.2                           | 5.6          | 19.8  | 31.8   | 23.1         | 55.0  | 46.0  | 28.8         | 74.8  | 1,075           | 73.5  | 71.8  |
| Luapula                   | 18.3                           | 7.3          | 25.7  | 23.0   | 16.0         | 39.1  | 41.3  | 23.4         | 64.7  | 611             | 60.4  | 59.6  |
| Lusaka                    | 7.4                            | 9.0          | 16.4  | 33.2   | 23.3         | 56.5  | 40.6  | 32.2         | 72.8  | 1,384           | 77.5  | 74.6  |
| Muchinga                  | 7.8                            | 7.0          | 14.8  | 32.2   | 25.8         | 58.0  | 40.0  | 32.8         | 72.9  | 470             | 79.6  | 71.4  |
| Northern                  | 12.1                           | 6.7          | 18.8  | 25.5   | 18.4         | 43.9  | 37.7  | 25.1         | 62.8  | 668             | 70.0  | 58.1  |
| North Western             | 13.5                           | 7.4          | 20.9  | 29.5   | 17.4         | 46.8  | 43.0  | 24.8         | 67.7  | 359             | 69.1  | 67.8  |
| Southern                  | 16.9                           | 5.2          | 22.1  | 29.7   | 14.2         | 43.9  | 46.6  | 19.4         | 66.0  | 993             | 66.5  | 64.2  |
| Western                   | 15.4                           | 11.2         | 26.6  | 19.9   | 11.4         | 31.2  | 35.3  | 22.5         | 57.8  | 392             | 54.0  | 52.0  |
| <b>Education</b>          |                                |              |       |  |              |       |   |              |       |                 |   |   |
| No education              | 14.1                           | 10.1         | 24.2  | 15.9   | 21.9         | 37.7  | 30.0  | 32.0         | 61.9  | 743             | 60.9  | 58.0  |
| Primary                   | 13.0                           | 8.5          | 21.5  | 27.2   | 21.6         | 48.8  | 40.2  | 30.1         | 70.3  | 3,881           | 69.5  | 65.6  |
| Secondary                 | 10.9                           | 5.6          | 16.5  | 36.7   | 17.5         | 54.2  | 47.6  | 23.0         | 70.6  | 2,635           | 76.7  | 74.9  |
| Higher                    | 7.7                            | 7.1          | 14.8  | 27.8   | 21.4         | 49.1  | 35.5  | 28.4         | 63.9  | 389             | 76.9  | 73.0  |
| <b>Wealth quintile</b>    |                                |              |       |  |              |       |   |              |       |                 |   |   |
| Lowest                    | 15.7                           | 7.3          | 23.0  | 27.5   | 13.2         | 40.8  | 43.3  | 20.5         | 63.8  | 1,553           | 63.9  | 59.5  |
| Second                    | 16.3                           | 6.5          | 22.9  | 27.3   | 18.6         | 45.9  | 43.6  | 25.1         | 68.7  | 1,509           | 66.7  | 63.1  |
| Middle                    | 11.3                           | 6.9          | 18.2  | 30.2   | 22.8         | 53.0  | 41.5  | 29.7         | 71.2  | 1,468           | 74.4  | 71.7  |
| Fourth                    | 8.9                            | 8.5          | 17.4  | 34.1   | 20.5         | 54.6  | 43.1  | 28.9         | 72.0  | 1,620           | 75.8  | 74.5  |
| Highest                   | 8.1                            | 8.7          | 16.9  | 27.8   | 26.1         | 53.8  | 35.9  | 34.8         | 70.7  | 1,499           | 76.2  | 72.6  |
| Total                     | 12.1                           | 7.6          | 19.7  | 29.4   | 20.2         | 49.6  | 41.5  | 27.8         | 69.3  | 7,648           | 71.6  | 68.5  |

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al. 2012.

<sup>1</sup> Total demand is the sum of unmet need and met need.

<sup>2</sup> Percentage of demand satisfied is met need divided by total demand.

<sup>3</sup> Modern methods include female sterilisation, male sterilisation, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods.

**Table 7.13.2 Need and demand for family planning for all women and for sexually active unmarried women**

Percentage of all women and sexually active unmarried women age 15-49 with unmet need for family planning, percentage with met need for family planning, total demand for family planning, and percentage of the demand for family planning that is satisfied, according to background characteristics, Zambia DHS 2018

| Background characteristic                          | Unmet need for family planning |              |        | Met need for family planning (currently using) |              |        | Total demand for family planning <sup>1</sup> |              |        | Number of women | Percentage of demand satisfied <sup>2</sup> | Percentage of demand satisfied by modern methods <sup>3</sup> |  |  |
|--|--------------------------------|--------------|--------|--|--------------|--------|---|--------------|--------|-----------------|---|---|--|--|
|  | For spacing                    | For limiting | Total  | For spacing                                    | For limiting | Total  | For spacing                                   | For limiting | Total  |                 |   |   |  |  |
|  | ALL WOMEN                      |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| <b>Age</b>   |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| 15-19  | 12.5                           | 0.4          | 12.9   | 11.4   | 0.7          | 12.1   | 23.9  | 1.1          | 25.0   | 3,000           | 48.4  | 48.0  |  |  |
| 20-24  | 14.8                           | 1.6          | 16.4   | 32.7   | 3.1          | 35.8   | 47.5  | 4.7          | 52.2   | 2,733           | 68.6  | 67.1  |  |  |
| 25-29  | 13.2                           | 2.2          | 15.4   | 37.4   | 9.2          | 46.7   | 50.6  | 11.5         | 62.1   | 2,237           | 75.2  | 73.3  |  |  |
| 30-34  | 11.4                           | 5.5          | 16.9   | 29.1   | 19.6         | 48.6   | 40.5  | 25.0         | 65.6   | 1,862           | 74.2  | 71.6  |  |  |
| 35-39  | 9.6                            | 11.1         | 20.7   | 16.2   | 30.8         | 47.0   | 25.7  | 41.9         | 67.7   | 1,697           | 69.5  | 66.9  |  |  |
| 40-44  | 5.1                            | 14.8         | 19.9   | 5.2  | 33.7         | 38.9   | 10.2  | 48.5         | 58.8   | 1,253           | 66.2  | 61.6  |  |  |
| 45-49  | 1.3                            | 10.6         | 11.9   | 1.3  | 27.8         | 29.1   | 2.6   | 38.4         | 41.0   | 900             | 71.0  | 63.2  |  |  |
| <b>Residence</b>                                   |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| Urban  | 8.2                            | 5.0          | 13.1   | 21.3   | 13.8         | 35.1   | 29.5  | 18.8         | 48.3   | 6,374           | 72.8  | 70.8  |  |  |
| Rural  | 13.7                           | 5.0          | 18.7   | 22.0   | 13.5         | 35.6   | 35.7  | 18.5         | 54.2   | 7,309           | 65.6  | 62.7  |  |  |
| <b>Province</b>                                    |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| Central  | 10.3                           | 4.4          | 14.7   | 21.9   | 13.4         | 35.3   | 32.2  | 17.8         | 50.0   | 1,165           | 70.6  | 69.2  |  |  |
| Copperbelt   | 8.4                            | 5.6          | 14.0   | 19.0   | 14.6         | 33.6   | 27.4  | 20.2         | 47.6   | 2,201           | 70.6  | 69.5  |  |  |
| Eastern  | 13.7                           | 4.2          | 17.8   | 25.9   | 18.1         | 43.9   | 39.5  | 22.2         | 61.7   | 1,605           | 71.1  | 69.8  |  |  |
| Luapula  | 16.5                           | 4.8          | 21.3   | 17.1   | 11.1         | 28.2   | 33.6  | 15.9         | 49.5   | 1,071           | 57.0  | 56.2  |  |  |
| Lusaka   | 6.3                            | 5.5          | 11.8   | 23.3   | 14.3         | 37.6   | 29.6  | 19.8         | 49.4   | 2,733           | 76.1  | 73.8  |  |  |
| Muchinga   | 7.8                            | 5.1          | 12.9   | 22.8   | 17.6         | 40.4   | 30.6  | 22.7         | 53.2   | 754             | 75.8  | 68.6  |  |  |
| Northern   | 10.9                           | 4.7          | 15.7   | 17.9   | 13.1         | 31.0   | 28.8  | 17.8         | 46.6   | 1,054           | 66.4  | 56.3  |  |  |
| North Western                                      | 13.9                           | 4.5          | 18.4   | 24.8   | 11.0         | 35.7   | 38.6  | 15.5         | 54.1   | 718             | 66.1  | 65.2  |  |  |
| Southern   | 16.7                           | 3.9          | 20.6   | 22.9   | 11.1         | 34.0   | 39.6  | 15.0         | 54.6   | 1,574           | 62.3  | 60.5  |  |  |
| Western  | 14.3                           | 6.5          | 20.9   | 19.9   | 8.8          | 28.7   | 34.2  | 15.3         | 49.5   | 808             | 57.8  | 55.7  |  |  |
| <b>Education</b>                                   |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| No education                                       | 12.6                           | 8.2          | 20.7   | 12.9   | 18.3         | 31.2   | 25.5  | 26.5         | 52.0   | 1,054           | 60.1  | 57.6  |  |  |
| Primary  | 12.1                           | 6.5          | 18.6   | 21.3   | 16.4         | 37.7   | 33.5  | 22.9         | 56.3   | 6,059           | 67.0  | 63.8  |  |  |
| Secondary  | 10.3                           | 3.0          | 13.3   | 23.4   | 10.1         | 33.6   | 33.7  | 13.1         | 46.9   | 5,816           | 71.7  | 70.3  |  |  |
| Higher   | 7.5                            | 3.8          | 11.3   | 23.0   | 12.8         | 35.8   | 30.5  | 16.6         | 47.1   | 755             | 76.1  | 72.2  |  |  |
| <b>Wealth quintile</b>                             |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| Lowest   | 14.2                           | 5.2          | 19.4   | 22.1   | 11.0         | 33.2   | 36.4  | 16.2         | 52.6   | 2,442           | 63.1  | 59.6  |  |  |
| Second   | 15.6                           | 4.9          | 20.6   | 21.3   | 13.9         | 35.3   | 37.0  | 18.9         | 55.8   | 2,387           | 63.2  | 60.3  |  |  |
| Middle   | 12.4                           | 4.9          | 17.3   | 22.8   | 15.9         | 38.7   | 35.2  | 20.8         | 55.9   | 2,477           | 69.1  | 66.9  |  |  |
| Fourth   | 8.5                            | 5.4          | 14.0   | 24.4   | 13.9         | 38.3   | 32.9  | 19.4         | 52.3   | 3,011           | 73.3  | 72.1  |  |  |
| Highest  | 7.1                            | 4.5          | 11.6   | 18.4   | 13.6         | 32.0   | 25.5  | 18.0         | 43.5   | 3,367           | 73.4  | 70.5  |  |  |
| Total  | 11.1                           | 5.0          | 16.1   | 21.7   | 13.7         | 35.4   | 32.8  | 18.6         | 51.5   | 13,683          | 68.7  | 66.2  |  |  |
| <b>SEXUALLY ACTIVE UNMARRIED WOMEN<sup>4</sup></b> |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| <b>Age</b>   |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| 15-19  | 58.3                           | 0.5          | 58.8   | 29.1   | 1.3          | 30.4   | 87.4  | 1.8          | 89.2   | 225             | 34.1  | 33.7  |  |  |
| 20-24  | 34.4                           | 3.9          | 38.3   | 43.3   | 5.6          | 48.9   | 77.7  | 9.5          | 87.3   | 227             | 56.1  | 54.5  |  |  |
| 25-29  | 30.3                           | 4.9          | 35.3   | 45.5   | 7.0          | 52.5   | 75.8  | 11.9         | 87.8   | 150             | 59.8  | 58.0  |  |  |
| 30-34  | 21.0                           | 11.4         | 32.3   | 30.5   | 21.1         | 51.5   | 51.5  | 32.4         | 83.9   | 104             | 61.4  | 60.9  |  |  |
| 35-39  | 16.3                           | 18.9         | 35.3   | 19.0   | 26.9         | 45.9   | 35.3  | 45.8         | 81.1   | 63              | 56.5  | 56.5  |  |  |
| 40-44  | (10.2)                         | (32.1)       | (42.3) | (11.0)   | (31.4)       | (42.4) | (21.2)  | (63.4)       | (84.7) | 45              | (50.1)                                      | (50.1)  |  |  |
| 45-49  | *                              | *            | *      | *  | *            | *      | *   | *            | *      | 21              | *   | *   |  |  |
| <b>Residence</b>                                   |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| Urban  | 33.2                           | 7.8          | 41.0   | 35.6   | 12.0         | 47.6   | 68.8  | 19.8         | 88.7   | 437             | 53.7  | 52.7  |  |  |
| Rural  | 37.0                           | 6.2          | 43.2   | 31.5   | 8.4          | 39.9   | 68.4  | 14.6         | 83.0   | 399             | 48.0  | 47.2  |  |  |
| <b>Province</b>                                    |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| Central  | 40.5                           | 7.1          | 47.7   | 18.9   | 18.4         | 37.3   | 59.4  | 25.5         | 85.0   | 61              | 43.9  | 43.9  |  |  |
| Copperbelt   | 38.9                           | 8.5          | 47.4   | 31.7   | 12.0         | 43.7   | 70.6  | 20.5         | 91.1   | 137             | 48.0  | 45.4  |  |  |
| Eastern  | 38.6                           | 3.8          | 42.4   | 31.5   | 10.9         | 42.4   | 70.1  | 14.7         | 84.8   | 94              | 50.0  | 50.0  |  |  |
| Luapula  | 42.5                           | 4.8          | 47.3   | 26.4   | 5.9          | 32.3   | 68.9  | 10.8         | 79.6   | 52              | 40.6  | 38.6  |  |  |
| Lusaka   | 28.2                           | 9.8          | 38.0   | 36.2   | 12.7         | 48.8   | 64.4  | 22.5         | 86.8   | 161             | 56.2  | 56.2  |  |  |
| Muchinga   | (37.2)                         | (8.6)        | (45.9) | (32.1)   | (9.4)        | (41.5) | (69.3)  | (18.0)       | (87.3) | 25              | (47.5)                                      | (45.0)  |  |  |
| Northern   | (56.0)                         | (0.0)        | (56.0) | (15.6)   | (7.2)        | (22.8) | (71.7)  | (7.2)        | (78.8) | 29              | (29.0)                                      | (29.0)  |  |  |
| North Western                                      | 33.7                           | 6.2          | 39.8   | 47.0   | 6.3          | 53.3   | 80.7  | 12.4         | 93.1   | 72              | 57.3  | 57.3  |  |  |
| Southern   | 35.4                           | 9.5          | 44.9   | 33.8   | 8.9          | 42.7   | 69.2  | 18.4         | 87.6   | 94              | 48.7  | 48.7  |  |  |
| Western  | 25.1                           | 4.8          | 30.0   | 41.8   | 6.6          | 48.4   | 66.9  | 11.5         | 78.4   | 111             | 61.7  | 59.3  |  |  |
| <b>Education</b>                                   |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| No education                                       | (32.5)                         | (20.0)       | (52.5) | (12.3)   | (9.8)        | (22.2) | (44.8)  | (29.9)       | (74.7) | 40              | (29.7)                                      | (29.7)  |  |  |
| Primary  | 30.6                           | 10.8         | 41.5   | 26.2   | 13.0         | 39.2   | 56.8  | 23.9         | 80.7   | 340             | 48.6  | 47.7  |  |  |
| Secondary  | 38.6                           | 3.2          | 41.8   | 39.9   | 9.2          | 49.2   | 78.5  | 12.4         | 91.0   | 390             | 54.1  | 53.8  |  |  |
| Higher   | 38.0                           | 2.1          | 40.1   | 48.0   | 2.4          | 50.4   | 86.0  | 4.5          | 90.5   | 65              | 55.7  | 50.0  |  |  |
| <b>Wealth quintile</b>                             |                                |              |        |  |              |        |   |              |        |                 |   |   |  |  |
| Lowest   | 27.7                           | 4.3          | 32.1   | 34.4   | 10.6         | 45.0   | 62.1  | 14.9         | 77.0   | 138             | 58.4  | 56.8  |  |  |
| Second   | 40.1                           | 8.3          | 48.4   | 28.5   | 6.9          | 35.4   | 68.5  | 15.2         | 83.8   | 141             | 42.2  | 42.2  |  |  |
| Middle   | 37.7                           | 8.2          | 45.9   | 28.5   | 11.1         | 39.6   | 66.2  | 19.3         | 85.5   | 153             | 46.3  | 46.0  |  |  |
| Fourth   | 32.2                           | 9.6          | 41.8   | 31.5   | 13.4         | 44.9   | 63.7  | 23.0         | 86.8   | 202             | 51.8  | 51.2  |  |  |
| Highest  | 37.3                           | 4.4          | 41.7   | 42.7   | 8.7          | 51.4   | 80.0  | 13.1         | 93.2   | 201             | 55.2  | 53.3  |  |  |
| Total  | 35.0                           | 7.0          | 42.0   | 33.6   | 10.3         | 43.9   | 68.6  | 17.3         | 86.0   | 835             | 51.1  | 50.2  |  |  |

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al. 2012. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Total demand is the sum of unmet need and met need.

<sup>2</sup> Percentage of demand satisfied is met need divided by total demand.

<sup>3</sup> Modern methods include female sterilisation, male sterilisation, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods.

<sup>4</sup> Women who have had sexual intercourse within 30 days preceding the survey

**Table 7.14 Decision making about family planning**

Among currently married women age 15-49 who are current users of family planning, percent distribution by who makes the decision to use family planning, and among currently married women who are not currently using family planning, percent distribution by who makes the decision not to use family planning, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Among currently married women who are current users of family planning |                          |                |                          | Among currently married women who are not currently using family planning |                          |                |                          | Total | Number of women |
|----------------------------------|--|--------------------------|----------------|--------------------------|---|--------------------------|----------------|--------------------------|-------|-----------------|
|                                  | Mainly wife  | Wife and husband jointly | Mainly husband | Other/don't know/missing | Mainly wife   | Wife and husband jointly | Mainly husband | Other/don't know/missing |       |                 |
| <b>Age</b>                       |  |                          |                |                          |   |                          |                |                          |       |                 |
| 15-19                            | 12.3   | 73.0                     | 14.6           | 0.0                      | 100.0   | 167                      | 23.7           | 57.4                     | 15.6  | 3.2             |
| 20-24                            | 11.8   | 79.5                     | 8.6            | 0.1                      | 100.0   | 699                      | 24.1           | 57.4                     | 15.6  | 2.8             |
| 25-29                            | 13.2   | 73.2                     | 13.6           | 0.0                      | 100.0   | 837                      | 26.3           | 56.2                     | 15.6  | 1.9             |
| 30-34                            | 18.1   | 71.7                     | 10.0           | 0.3                      | 100.0   | 755                      | 31.2           | 56.3                     | 8.9   | 3.6             |
| 35-39                            | 18.0   | 71.0                     | 10.7           | 0.3                      | 100.0   | 687                      | 36.3           | 49.9                     | 11.9  | 1.8             |
| 40-44                            | 17.4   | 72.0                     | 10.3           | 0.3                      | 100.0   | 419                      | 31.8           | 53.7                     | 11.8  | 2.8             |
| 45-49                            | 11.3   | 78.1                     | 10.0           | 0.6                      | 100.0   | 231                      | 27.2           | 59.1                     | 7.3   | 6.4             |
| <b>Number of living children</b> |  |                          |                |                          |   |                          |                |                          |       |                 |
| 0                                | *  | *                        | *              | *                        | *   | 15                       | 26.7           | 58.6                     | 8.8   | 5.9             |
| 1-2                              | 12.9   | 76.3                     | 10.6           | 0.3                      | 100.0   | 1,284                    | 26.5           | 56.6                     | 14.5  | 2.4             |
| 3-4                              | 16.4   | 71.9                     | 11.4           | 0.2                      | 100.0   | 1,302                    | 28.9           | 55.8                     | 12.1  | 3.3             |
| 5+                               | 16.2   | 73.3                     | 10.4           | 0.1                      | 100.0   | 1,194                    | 32.8           | 53.4                     | 10.7  | 3.1             |
| <b>Residence</b>                 |  |                          |                |                          |   |                          |                |                          |       |                 |
| Urban                            | 18.0   | 70.6                     | 11.4           | 0.0                      | 100.0   | 1,672                    | 28.0           | 55.0                     | 13.9  | 3.1             |
| Rural                            | 12.8   | 76.4                     | 10.5           | 0.3                      | 100.0   | 2,121                    | 30.0           | 55.6                     | 11.3  | 3.1             |
| <b>Province</b>                  |  |                          |                |                          |   |                          |                |                          |       |                 |
| Central                          | 7.8  | 79.4                     | 12.9           | 0.0                      | 100.0   | 333                      | 15.8           | 70.3                     | 12.1  | 1.9             |
| Copperbelt                       | 19.7   | 65.4                     | 14.8           | 0.0                      | 100.0   | 558                      | 25.6           | 53.8                     | 16.1  | 4.5             |
| Eastern                          | 13.5   | 74.4                     | 11.6           | 0.4                      | 100.0   | 591                      | 34.3           | 50.8                     | 13.5  | 1.5             |
| Luapula                          | 13.5   | 83.5                     | 3.0            | 0.0                      | 100.0   | 239                      | 39.2           | 53.9                     | 4.5   | 2.5             |
| Lusaka                           | 21.1   | 67.4                     | 11.3           | 0.3                      | 100.0   | 781                      | 28.9           | 56.0                     | 11.4  | 3.7             |
| Muchinga                         | 11.2   | 75.8                     | 12.9           | 0.1                      | 100.0   | 273                      | 20.5           | 54.7                     | 22.9  | 1.9             |
| Northern                         | 14.7   | 75.7                     | 9.5            | 0.0                      | 100.0   | 294                      | 23.8           | 65.4                     | 9.8   | 1.0             |
| North Western                    | 10.8   | 74.1                     | 14.7           | 0.4                      | 100.0   | 168                      | 15.9           | 67.0                     | 16.0  | 1.1             |
| Southern                         | 11.9   | 81.0                     | 6.7            | 0.4                      | 100.0   | 435                      | 41.1           | 39.8                     | 11.7  | 7.3             |
| Western                          | 12.9   | 81.5                     | 5.7            | 0.0                      | 100.0   | 122                      | 29.5           | 58.9                     | 10.5  | 1.1             |
| <b>Education</b>                 |  |                          |                |                          |   |                          |                |                          |       |                 |
| No education                     | 17.5   | 70.8                     | 11.0           | 0.6                      | 100.0   | 280                      | 33.9           | 53.0                     | 9.2   | 3.9             |
| Primary                          | 15.7   | 73.1                     | 10.9           | 0.2                      | 100.0   | 1,895                    | 31.2           | 54.4                     | 11.5  | 2.9             |
| Secondary                        | 13.7   | 74.7                     | 11.6           | 0.1                      | 100.0   | 1,428                    | 25.8           | 56.3                     | 15.0  | 2.9             |
| Higher                           | 15.8   | 78.9                     | 5.4            | 0.0                      | 100.0   | 191                      | 18.5           | 66.7                     | 10.8  | 4.1             |
| <b>Wealth quintile</b>           |  |                          |                |                          |   |                          |                |                          |       |                 |
| Lowest                           | 13.4   | 75.5                     | 10.6           | 0.5                      | 100.0   | 633                      | 29.5           | 54.6                     | 13.7  | 2.3             |
| Second                           | 13.4   | 75.1                     | 11.0           | 0.4                      | 100.0   | 692                      | 31.2           | 56.2                     | 10.3  | 2.3             |
| Middle                           | 12.5   | 77.6                     | 9.9            | 0.0                      | 100.0   | 778                      | 32.4           | 53.0                     | 9.0   | 5.6             |
| Fourth                           | 19.4   | 69.0                     | 11.6           | 0.0                      | 100.0   | 884                      | 30.9           | 54.6                     | 11.2  | 3.3             |
| Highest                          | 15.5   | 73.1                     | 11.2           | 0.2                      | 100.0   | 807                      | 22.4           | 58.7                     | 16.5  | 2.5             |
| Total                            | 15.1   | 73.8                     | 10.9           | 0.2                      | 100.0   | 3,794                    | 29.3           | 55.4                     | 12.2  | 3.1             |
|                                  |  |                          |                |                          |   |                          |                |                          |       | 2,964           |

Note: Table excludes women who are currently pregnant. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

**Table 7.15 Future use of contraception**

Percent distribution of currently married women age 15-49 who are not using a contraceptive method by intention to use in the future, according to number of living children, Zambia DHS 2018

| Intention to use in the future | Number of living children <sup>1</sup> |       |       |       |       |       |
|--------------------------------|--|-------|-------|-------|-------|-------|
|                                | 0                                      | 1     | 2     | 3     | 4+    | Total |
| Intends to use                 | 47.4                                   | 69.2  | 67.3  | 62.7  | 53.1  | 59.6  |
| Unsure                         | 10.6                                   | 4.7   | 5.4   | 4.2   | 3.8   | 4.7   |
| Does not intend to use         | 41.9                                   | 26.1  | 27.3  | 33.1  | 43.1  | 35.7  |
| Total                          | 100.0                                  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women                | 183                                    | 599   | 777   | 568   | 1,727 | 3,854 |

<sup>1</sup> Includes current pregnancy

**Table 7.16 Exposure to family planning messages**

Percentage of women and men age 15-49 who heard or saw a family planning message on radio, on television, in a newspaper or magazine, or on a mobile phone in the past few months, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women |            |                        |              |  | Men                |       |            |                        |              |  |
|---------------------------|-------|------------|------------------------|--------------|--|--------------------|-------|------------|------------------------|--------------|--|
|                           | Radio | Television | Newspaper/<br>magazine | Mobile phone | None of<br>these four<br>media sources | Number<br>of women | Radio | Television | Newspaper/<br>magazine | Mobile phone | None of<br>these four<br>media sources |
| <b>Age</b>                |       |            |                        |              |  |                    |       |            |                        |              |  |
| 15-19                     | 11.7  | 8.3        | 3.8                    | 1.1          | 83.1                                   | 3,000              | 13.1  | 7.6        | 5.5                    | 3.3          | 80.4                                   |
| 20-24                     | 17.6  | 14.6       | 6.0                    | 3.6          | 75.1                                   | 2,733              | 24.8  | 15.1       | 11.2                   | 7.3          | 65.5                                   |
| 25-29                     | 18.9  | 15.2       | 5.6                    | 3.7          | 74.6                                   | 2,237              | 29.5  | 18.3       | 12.3                   | 8.8          | 60.6                                   |
| 30-34                     | 21.5  | 15.3       | 6.5                    | 3.8          | 72.8                                   | 1,862              | 32.1  | 20.8       | 13.9                   | 7.9          | 57.5                                   |
| 35-39                     | 19.8  | 14.6       | 5.8                    | 4.8          | 74.5                                   | 1,697              | 36.9  | 24.3       | 15.9                   | 9.6          | 54.1                                   |
| 40-44                     | 21.2  | 13.7       | 5.0                    | 2.5          | 74.8                                   | 1,253              | 39.8  | 21.6       | 14.0                   | 12.1         | 53.2                                   |
| 45-49                     | 18.3  | 10.9       | 5.2                    | 2.7          | 76.6                                   | 900                | 38.3  | 21.3       | 16.8                   | 9.8          | 53.6                                   |
| <b>Residence</b>          |       |            |                        |              |  |                    |       |            |                        |              |  |
| Urban                     | 22.0  | 24.3       | 9.0                    | 5.6          | 67.0                                   | 6,374              | 31.4  | 28.9       | 17.5                   | 10.9         | 54.6                                   |
| Rural                     | 13.9  | 3.3        | 2.1                    | 0.9          | 84.7                                   | 7,309              | 24.2  | 6.6        | 6.7                    | 4.8          | 71.7                                   |
| <b>Province</b>           |       |            |                        |              |  |                    |       |            |                        |              |  |
| Central                   | 13.8  | 6.0        | 4.0                    | 1.8          | 82.9                                   | 1,165              | 21.6  | 12.2       | 10.4                   | 10.2         | 72.2                                   |
| Copperbelt                | 21.4  | 22.1       | 7.6                    | 4.7          | 68.6                                   | 2,201              | 32.2  | 26.7       | 20.3                   | 14.2         | 51.5                                   |
| Eastern                   | 23.3  | 5.1        | 4.9                    | 1.7          | 74.2                                   | 1,605              | 21.5  | 6.7        | 9.1                    | 4.8          | 74.1                                   |
| Luapula                   | 26.0  | 8.7        | 3.8                    | 1.9          | 70.9                                   | 1,071              | 43.2  | 15.3       | 14.8                   | 15.7         | 48.9                                   |
| Lusaka                    | 19.4  | 24.6       | 9.4                    | 5.5          | 69.9                                   | 2,733              | 35.0  | 33.1       | 19.3                   | 9.0          | 50.6                                   |
| Muchinga                  | 18.3  | 9.6        | 2.4                    | 1.3          | 78.8                                   | 754                | 31.3  | 8.9        | 3.8                    | 2.5          | 66.3                                   |
| Northern                  | 11.6  | 5.6        | 3.2                    | 1.9          | 85.6                                   | 1,054              | 29.0  | 6.6        | 2.6                    | 2.2          | 69.4                                   |
| North Western             | 9.3   | 8.9        | 2.7                    | 1.6          | 87.1                                   | 718                | 12.2  | 11.1       | 2.0                    | 0.6          | 82.3                                   |
| Southern                  | 11.0  | 9.6        | 2.9                    | 2.7          | 84.3                                   | 1,574              | 19.5  | 9.1        | 4.1                    | 2.4          | 75.0                                   |
| Western                   | 13.3  | 5.1        | 2.8                    | 1.7          | 84.0                                   | 808                | 14.0  | 5.5        | 7.6                    | 4.8          | 79.5                                   |
| <b>Education</b>          |       |            |                        |              |  |                    |       |            |                        |              |  |
| No education              | 9.2   | 2.0        | 0.6                    | 0.4          | 89.7                                   | 1,054              | 20.1  | 7.5        | 1.3                    | 1.8          | 77.5                                   |
| Primary                   | 13.2  | 4.9        | 0.9                    | 0.7          | 84.6                                   | 6,059              | 20.6  | 6.1        | 3.3                    | 3.6          | 76.0                                   |
| Secondary                 | 21.5  | 18.9       | 7.9                    | 4.7          | 70.4                                   | 5,816              | 30.3  | 20.0       | 14.6                   | 9.4          | 58.8                                   |
| Higher                    | 36.3  | 49.6       | 28.0                   | 13.0         | 39.4                                   | 755                | 44.9  | 48.8       | 35.2                   | 16.7         | 33.9                                   |
| <b>Wealth quintile</b>    |       |            |                        |              |  |                    |       |            |                        |              |  |
| Lowest                    | 9.9   | 0.7        | 1.0                    | 0.2          | 89.8                                   | 2,442              | 18.2  | 1.8        | 2.8                    | 2.1          | 79.8                                   |
| Second                    | 13.9  | 1.2        | 1.3                    | 0.7          | 85.4                                   | 2,387              | 25.0  | 3.2        | 6.3                    | 5.3          | 71.5                                   |
| Middle                    | 15.1  | 3.3        | 1.9                    | 1.5          | 83.2                                   | 2,477              | 25.9  | 6.9        | 7.9                    | 5.6          | 70.1                                   |
| Fourth                    | 19.5  | 17.2       | 5.6                    | 3.5          | 73.3                                   | 3,011              | 29.3  | 23.6       | 13.5                   | 9.3          | 59.5                                   |
| Highest                   | 26.4  | 34.0       | 13.7                   | 7.6          | 58.3                                   | 3,367              | 35.3  | 38.4       | 22.6                   | 12.9         | 46.7                                   |
| Total 15-49               | 17.7  | 13.1       | 5.4                    | 3.1          | 76.5                                   | 13,683             | 27.4  | 16.6       | 11.5                   | 7.5          | 64.0                                   |
| 50-59                     | na    | na         | na                     | na           | na                                     | na                 | 37.9  | 19.1       | 16.2                   | 9.9          | 55.4                                   |
| Total 15-59               | na    | na         | na                     | na           | na                                     | na                 | 28.3  | 16.8       | 11.9                   | 7.7          | 63.3                                   |
| na = Not applicable       |       |            |                        |              |  |                    |       |            |                        |              |  |

**Table 7.17 Contact of nonusers with family planning providers**

Among women age 15-49 who are not using contraception, percentage who during the past 12 months were visited by a fieldworker who discussed family planning, percentage who visited a health facility and discussed family planning, percentage who visited a health facility but did not discuss family planning, and percentage who did not discuss family planning either with a fieldworker or at a health facility, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of women who were visited by a fieldworker who discussed family planning | Percentage of women who visited a health facility in the past 12 months and who: |                                 | Percentage of women who did not discuss family planning either with a fieldworker or at a health facility | Number of women |
|---------------------------|---|--|---------------------------------|---|-----------------|
|                           |   | Discussed family planning  | Did not discuss family planning |   |                 |
| <b>Age</b>                |   |  |                                 |   |                 |
| 15-19                     | 1.8   | 8.9  | 33.0                            | 89.9  | 2,637           |
| 20-24                     | 5.7   | 27.6   | 35.3                            | 70.1  | 1,754           |
| 25-29                     | 6.3   | 31.7   | 36.3                            | 66.7  | 1,193           |
| 30-34                     | 5.9   | 29.5   | 35.7                            | 68.9  | 956             |
| 35-39                     | 7.1   | 29.2   | 35.9                            | 68.7  | 899             |
| 40-44                     | 6.0   | 20.2   | 37.6                            | 77.5  | 766             |
| 45-49                     | 4.1   | 18.0   | 40.9                            | 79.9  | 638             |
| <b>Residence</b>          |   |  |                                 |   |                 |
| Urban                     | 4.4   | 16.5   | 34.3                            | 81.8  | 4,135           |
| Rural                     | 4.9   | 26.1   | 36.5                            | 72.1  | 4,709           |
| <b>Province</b>           |   |  |                                 |   |                 |
| Central                   | 2.8   | 15.1   | 28.9                            | 84.0  | 754             |
| Copperbelt                | 4.2   | 13.1   | 34.2                            | 85.1  | 1,462           |
| Eastern                   | 7.9   | 33.4   | 42.8                            | 64.3  | 900             |
| Luapula                   | 2.2   | 26.5   | 34.2                            | 72.2  | 769             |
| Lusaka                    | 5.1   | 16.8   | 31.5                            | 81.1  | 1,706           |
| Muchinga                  | 6.8   | 16.8   | 41.0                            | 80.7  | 450             |
| Northern                  | 3.5   | 19.3   | 30.4                            | 79.5  | 727             |
| North Western             | 2.0   | 26.6   | 38.6                            | 72.4  | 461             |
| Southern                  | 4.8   | 29.7   | 40.1                            | 69.0  | 1,039           |
| Western                   | 7.1   | 29.4   | 40.6                            | 67.8  | 576             |
| <b>Education</b>          |   |  |                                 |   |                 |
| No education              | 4.1   | 22.0   | 33.7                            | 76.5  | 725             |
| Primary                   | 4.7   | 25.2   | 34.4                            | 73.3  | 3,772           |
| Secondary                 | 5.0   | 17.8   | 36.0                            | 80.1  | 3,862           |
| Higher                    | 3.0   | 23.5   | 41.8                            | 75.5  | 485             |
| <b>Wealth quintile</b>    |   |  |                                 |   |                 |
| Lowest                    | 5.3   | 27.4   | 36.1                            | 70.6  | 1,631           |
| Second                    | 5.0   | 27.6   | 36.1                            | 70.9  | 1,545           |
| Middle                    | 3.8   | 22.5   | 36.7                            | 76.0  | 1,519           |
| Fourth                    | 5.7   | 19.5   | 31.7                            | 78.5  | 1,858           |
| Highest                   | 3.7   | 14.7   | 36.8                            | 83.7  | 2,291           |
| Total                     | 4.7   | 21.6   | 35.5                            | 76.6  | 8,844           |

**Table 7.18 Exposure to specific radio and television programmes**

Percentage of women age 15-49 who heard or saw specific radio or television programmes in the past 6 months, according to background characteristics, Zambia DHS 2018

| Background characteristic | Radio                 |                  | TV                    |                  | Number of women |
|---------------------------|-----------------------|------------------|-----------------------|------------------|-----------------|
|                           | "Your Health Matters" | Other programmes | "Your Health Matters" | Other programmes |                 |
| <b>Age</b>                |                       |                  |                       |                  |                 |
| 15-19                     | 10.4                  | 7.9              | 10.5                  | 5.3              | 3,000           |
| 20-24                     | 14.1                  | 10.0             | 13.6                  | 6.3              | 2,733           |
| 25-29                     | 16.2                  | 11.0             | 16.6                  | 7.6              | 2,237           |
| 30-34                     | 18.3                  | 11.6             | 17.1                  | 8.2              | 1,862           |
| 35-39                     | 16.1                  | 13.0             | 15.6                  | 8.6              | 1,697           |
| 40-44                     | 16.0                  | 11.7             | 13.9                  | 7.5              | 1,253           |
| 45-49                     | 15.7                  | 14.2             | 12.3                  | 8.0              | 900             |
| <b>Residence</b>          |                       |                  |                       |                  |                 |
| Urban                     | 21.2                  | 12.9             | 26.7                  | 13.1             | 6,374           |
| Rural                     | 9.1                   | 8.8              | 3.1                   | 1.8              | 7,309           |
| <b>Province</b>           |                       |                  |                       |                  |                 |
| Central                   | 10.2                  | 5.1              | 5.1                   | 3.3              | 1,165           |
| Copperbelt                | 20.5                  | 9.3              | 27.2                  | 10.2             | 2,201           |
| Eastern                   | 17.2                  | 14.0             | 5.1                   | 3.2              | 1,605           |
| Luapula                   | 22.7                  | 27.8             | 9.3                   | 8.3              | 1,071           |
| Lusaka                    | 19.1                  | 11.4             | 25.7                  | 14.2             | 2,733           |
| Muchinga                  | 12.6                  | 10.4             | 10.4                  | 6.0              | 754             |
| Northern                  | 8.6                   | 7.3              | 5.7                   | 3.9              | 1,054           |
| North Western             | 6.2                   | 3.2              | 8.4                   | 4.7              | 718             |
| Southern                  | 6.2                   | 5.8              | 9.2                   | 2.5              | 1,574           |
| Western                   | 9.0                   | 12.5             | 5.0                   | 2.4              | 808             |
| <b>Education</b>          |                       |                  |                       |                  |                 |
| No education              | 6.0                   | 4.7              | 2.2                   | 1.0              | 1,054           |
| Primary                   | 8.8                   | 7.3              | 4.2                   | 2.1              | 6,059           |
| Secondary                 | 19.3                  | 13.4             | 21.6                  | 10.4             | 5,816           |
| Higher                    | 39.1                  | 25.9             | 51.7                  | 29.9             | 755             |
| <b>Wealth quintile</b>    |                       |                  |                       |                  |                 |
| Lowest                    | 5.6                   | 6.0              | 0.4                   | 0.2              | 2,442           |
| Second                    | 8.4                   | 9.3              | 0.7                   | 0.5              | 2,387           |
| Middle                    | 10.1                  | 9.1              | 2.8                   | 1.5              | 2,477           |
| Fourth                    | 16.6                  | 10.7             | 17.8                  | 8.8              | 3,011           |
| Highest                   | 27.5                  | 16.4             | 38.5                  | 19.2             | 3,367           |
| Total                     | 14.7                  | 10.7             | 14.1                  | 7.1              | 13,683          |

## INFANT AND CHILD MORTALITY

### Key Findings

- **Current levels:** In the 5 years before the survey, neonatal, infant, and under-5 mortality rates were 27, 42, and 61 deaths per 1,000 live births, respectively.
- **Trends:** Neonatal mortality increased from 24 deaths per 1,000 live births in 2013–14 to 27 deaths per 1,000 live births in 2018. Under-5 mortality declined from 75 deaths per 1,000 live births to 61 deaths per 1,000 live births over the same period.
- **Perinatal mortality:** The perinatal mortality rate for the 5 years before the survey was 33 deaths per 1,000 pregnancies.

Information on infant and child mortality is relevant to a demographic assessment of a country's population and is an important indicator of the country's socioeconomic development and quality of life. It can also help identify children who may be at higher risk of death and lead to strategies to reduce this risk, such as promoting birth spacing.

This chapter presents information on levels, trends, and differentials in perinatal, neonatal, infant, and under-5 mortality rates. It also examines biodemographic factors and fertility behaviours that increase mortality risks for infants and children. The information was collected as part of a retrospective birth history in which female respondents listed all of the children to whom they had given birth, along with each child's date of birth, survivorship status, and current age or age at death.

The quality of mortality estimates calculated from birth histories depends on the mother's ability to recall all of the children she has given birth to, as well as their birth dates and ages at death. Potential data quality problems include:

- The selective omission from birth histories of those births that did not survive, which can result in underestimation of childhood mortality.
- The displacement of birth dates, which may distort mortality trends. This can occur if an interviewer knowingly records a birth as occurring in a different year than the one in which it occurred. This may happen if an interviewer is trying to cut down on his or her overall workload, because live births occurring during the 5 years before the interview are the subject of a lengthy set of additional questions.
- The quality of reporting of age at death. Misreporting the child's age at death may distort the age pattern of mortality, especially if the net effect of the age misreporting is to transfer deaths from one age bracket to another.
- Any method of measuring childhood mortality that relies on mothers' reports (e.g., birth histories) assumes that female adult mortality is not high or, if it is high, that there is little or no correlation between the mortality risks of mothers and those of their children.

Selected indicators of the quality of the mortality data on which the estimates of mortality in this chapter are based are presented in Appendix C, Tables C.3-C.6.

## 8.1 INFANT AND CHILD MORTALITY

### Neonatal mortality

The probability of dying within the first month of life

### Postneonatal mortality

The probability of dying between the first month of life and the first birthday (computed as the difference between infant and neonatal mortality)

### Infant mortality

The probability of dying between birth and the first birthday

### Child mortality

The probability of dying between the first and fifth birthday

### Under-5 mortality

The probability of dying between birth and the fifth birthday

Childhood mortality is represented primarily by three indicators, namely neonatal, infant, and under-5 mortality. The 2018 ZDHS results show that, in the 5-year period prior to the survey, the neonatal mortality rate was 27 deaths per 1,000 live births. The infant mortality rate in the same period was 42 deaths per 1,000 live births, while the under-5 mortality rate was 61 deaths per 1,000 live births. It is important to note that these results indicate that over two-thirds of the deaths (69%) that occurred during the first 5 years of life took place between birth and the first birthday (**Table 8.1**).

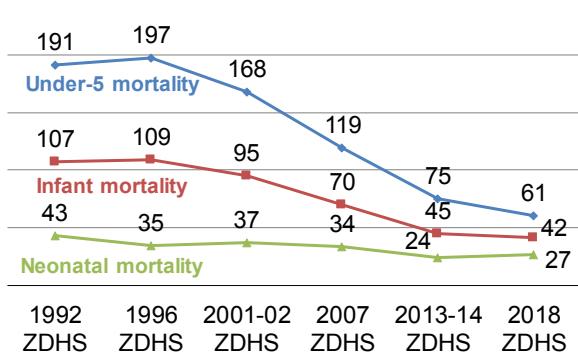
**Trends:** Neonatal mortality increased from 24 deaths per 1,000 live births in 2013-14 to 27 deaths per 1,000 live births in 2018. Over the same period, infant mortality decreased from 45 to 42 deaths per 1,000 live births, while under-5 mortality decreased from 75 to 61 deaths per 1,000 live births (**Figure 8.1**).

### Patterns by background characteristics

- Infant mortality is slightly higher in urban areas (44 deaths per 1,000 live births) than in rural areas (41 deaths per 1,000 live births). A similar pattern is observed for under-5 mortality (64 deaths per 1,000 live births in urban areas and 58 deaths per 1,000 live births in rural areas) (**Table 8.2**).
- By province, under-5 mortality is highest in Luapula (110 deaths per 1,000 live births) and lowest in North Western (26 deaths per 1,000 live births) (**Table 8.3** and **Figure 8.2**).

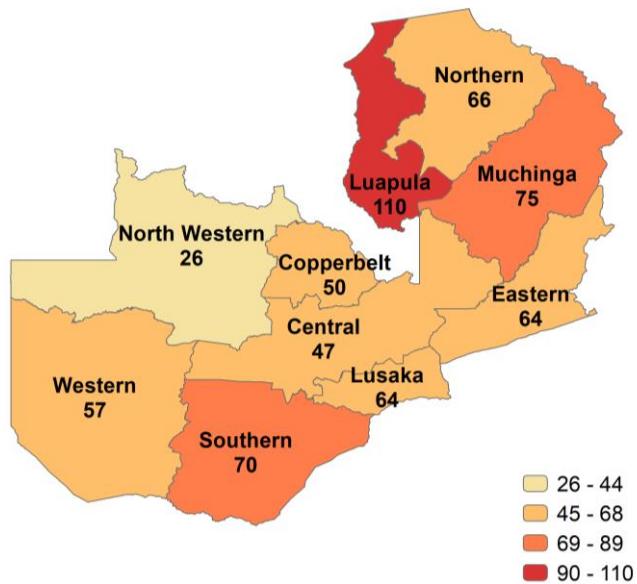
**Figure 8.1 Trends in early childhood mortality rates**

*Deaths per 1,000 live births in the 5-year period before the survey*



**Figure 8.2 Under-5 mortality by province**

*Deaths per 1,000 live births for the 10-year period before the survey*



- Under-5 mortality is higher among children born to women with no education (69 deaths per 1,000 live births) or a primary education (66 deaths per 1,000 live births) than among children born to women with a secondary (62 deaths per 1,000 live births) or higher (47 deaths per 1,000 live births) education (**Figure 8.3**).

## 8.2 BIODEMOGRAPHIC RISK FACTORS

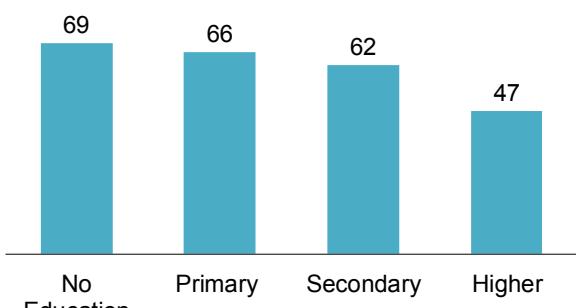
The risk of childhood death is influenced by specific biodemographic factors related to inherent congenital characteristics of children themselves or their mothers. The sex of the child, the age of the mother at birth, and other factors such as birth order, previous birth interval, and birth size all have implications for a child's survivability (Maniruzzaman et al. 2018).

### Patterns by background characteristics

- The 2018 ZDHS results show that mortality rates are lower among female children than among their male counterparts, with differences of at least 10 deaths per 1,000 live births for all three indicators (neonatal mortality: 22 versus 33; infant mortality: 36 versus 48; under-5 mortality: 53 versus 67) (**Table 8.2**).
- The infant mortality rate is higher (58 deaths per 1,000 live births) among infants born to women under age 20 than among infants born to women in other age groups (**Table 8.3**).
- Both infant and under-5 mortality rates are higher when the reported previous birth interval is less than 2 years (86 and 116 deaths per 1,000 live births, respectively).
- Under-5 mortality is highest among first-order births (73 deaths per 1,000 live births) and births of order 7 or higher (70 deaths per 1,000 live births) (**Table 8.3**).

**Figure 8.3 Under-5 mortality by mother's education**

*Deaths per 1,000 live births for the 10-year period before the survey*



## 8.3 PERINATAL MORTALITY

### Perinatal mortality rate

Perinatal deaths comprise stillbirths (pregnancy loss that occurs after 7 months of gestation) and early neonatal deaths (deaths of live births within the first 7 days of life). The perinatal mortality rate is calculated as the number of perinatal deaths per 1,000 pregnancies of 7 or more months' duration.

**Sample:** Number of pregnancies of 7 or more months' duration to women age 15-49 in the 5 years before the survey.

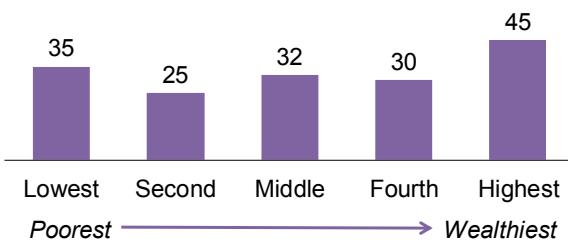
The causes of stillbirths and early neonatal deaths are closely linked, and it can be difficult to determine whether a death is attributable to one cause or the other. The perinatal mortality rate encompasses both stillbirths and early neonatal deaths and offers a better measure of the level of mortality and quality of service at delivery. During the 5-year period preceding the 2018 ZDHS, the perinatal mortality rate was 33 deaths per 1,000 pregnancies (**Table 8.4**).

### Patterns by background characteristics

- Perinatal mortality is highest among children whose mothers were less than age 20 (47 deaths per 1,000 pregnancies) or age 40-49 (41 deaths per 1,000 pregnancies) at the time of the birth.
- The perinatal mortality rate is high for first pregnancies (44 deaths per 1,000 pregnancies) and among women with a pregnancy interval of less than 15 months (51 deaths per 1,000 pregnancies).
- Perinatal mortality is slightly higher in urban areas (37 deaths per 1,000 pregnancies) than in rural areas (31 deaths per 1,000 pregnancies).
- Perinatal mortality is highest among children born to women with a secondary education (42 deaths per 1,000 pregnancies) and lowest among children born to women with a primary education (27 deaths per 1,000 pregnancies) (**Table 8.4**).
- Perinatal mortality is higher among children from the highest wealth quintile (45 deaths per 1,000 pregnancies) than among children from the second quintile (25 deaths per 1,000 pregnancies) or the lowest quintile (35 deaths per 1,000 pregnancies) (**Figure 8.4**).

**Figure 8.4 Perinatal mortality by household wealth**

*Deaths per 1,000 pregnancies of 7 or more months' duration in the 5-year period before the survey*



## 8.4 HIGH-RISK FERTILITY BEHAVIOUR

Findings from scientific studies have confirmed a strong relationship between a child's chance of dying and specific fertility behaviours, meaning that the survival of infants and children depends in part on the demographic and biological characteristics of their mothers. The probability of dying in infancy is much greater among children born to mothers who are too young (under age 18) or too old (over age 34), children born after a short birth interval (less than 24 months after the preceding birth), and children born to mothers of high parity (more than three children). The risk is elevated when a child is born to a mother who has a combination of these risk characteristics.

The risk ratio (RR) shows the relationship between risk factors and actual child mortality. A risk ratio greater than one means that exposure to a certain factor increases risk, while a risk ratio less than one means that exposure decreases that risk.

- The 2018 ZDHS results show that 29% of births in the 5 years preceding the survey were not in any high-risk fertility behaviour category; however, over half (55%) of births were in an avoidable high-risk category (with an associated risk ratio of 1.12) (**Table 8.5**).
- Thirty-six percent of births were in a single high-risk category. However, the risk ratio of 0.95 suggests that births in this category were comparatively more protected.
- Eighteen percent of births occurred in a multiple high-risk category, with a corresponding elevated risk ratio of 1.45.
- In general, and based on the avoidable high-risk category, the 2018 ZDHS findings show that childhood mortality risk is elevated in the case of birth intervals below 24 months (RR: 2.17) and mother's age below 18 years (RR: 1.52) (**Table 8.5**).

## LIST OF TABLES

For more information on infant and child mortality, see the following tables:

- **Table 8.1 Early childhood mortality rates**
- **Table 8.2 Five-year early childhood mortality rates according to background characteristics**
- **Table 8.3 Ten-year early childhood mortality rates according to additional characteristics**
- **Table 8.4 Perinatal mortality**
- **Table 8.5 High-risk fertility behaviour**

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**Table 8.1 Early childhood mortality rates**

Neonatal, postneonatal, infant, child, and under-5 mortality rates for 5-year periods preceding the survey, Zambia DHS 2018

| Years preceding the survey | Approximate time period of estimated rates | Neonatal mortality (NN) | Postneonatal mortality (PNN) <sup>1</sup> | Infant mortality ( ${}_1q_0$ ) | Child mortality ( ${}_4q_1$ ) | Under-5 mortality ( ${}_5q_0$ ) |
|----------------------------|--|-------------------------|---|--------------------------------|-------------------------------|---------------------------------|
| 0-4                        | 2014-2018                                  | 27                      | 14  | 42                             | 19                            | 61                              |
| 5-9                        | 2009-2013                                  | 22                      | 20  | 43                             | 27                            | 68                              |
| 10-14                      | 2004-2008                                  | 21                      | 27  | 48                             | 42                            | 88                              |

<sup>1</sup> Computed as the difference between the infant and neonatal mortality rates

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**Table 8.2 Five-year early childhood mortality rates according to background characteristics**

Neonatal, postneonatal, infant, child, and under-5 mortality rates for the 5-year period preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic | Neonatal mortality (NN) | Postneonatal mortality (PNN) <sup>1</sup> | Infant mortality ( ${}_1q_0$ ) | Child mortality ( ${}_4q_1$ ) | Under-5 mortality ( ${}_5q_0$ ) |
|---------------------------|-------------------------|---|--------------------------------|-------------------------------|---------------------------------|
| <b>Child's sex</b>        |                         |   |                                |                               |                                 |
| Male                      | 33                      | 14  | 48                             | 21                            | 67                              |
| Female                    | 22                      | 14  | 36                             | 18                            | 53                              |
| <b>Residence</b>          |                         |   |                                |                               |                                 |
| Urban                     | 30                      | 14  | 44                             | 22                            | 64                              |
| Rural                     | 26                      | 15  | 41                             | 18                            | 58                              |
| Total                     | 27                      | 14  | 42                             | 19                            | 61                              |

<sup>1</sup> Computed as the difference between the infant and neonatal mortality rates

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**Table 8.3 Ten-year early childhood mortality rates according to additional characteristics**

Neonatal, postneonatal, infant, child, and under-5 mortality rates for the 10-year period preceding the survey, according to additional characteristics, Zambia DHS 2018

| Background characteristic                  | Neonatal mortality (NN) | Postneonatal mortality (PNN) <sup>1</sup> | Infant mortality ( $i_{q_0}$ ) | Child mortality ( $4q_1$ ) | Under-5 mortality ( $5q_0$ ) |
|--|-------------------------|---|--------------------------------|----------------------------|------------------------------|
| <b>Mother's age at birth</b>               |                         |   |                                |                            |                              |
| <20  | 34                      | 24  | 58                             | 23                         | 80                           |
| 20-29                                      | 22                      | 16  | 38                             | 23                         | 60                           |
| 30-39                                      | 24                      | 14  | 38                             | 22                         | 60                           |
| 40-49                                      | 15                      | 26  | 41                             | (28)                       | (68)                         |
| <b>Birth order</b>                         |                         |   |                                |                            |                              |
| 1  | 30                      | 21  | 51                             | 23                         | 73                           |
| 2-3  | 24                      | 17  | 41                             | 24                         | 64                           |
| 4-6  | 22                      | 13  | 36                             | 20                         | 55                           |
| 7+   | 25                      | 19  | 45                             | 26                         | 70                           |
| <b>Previous birth interval<sup>2</sup></b> |                         |   |                                |                            |                              |
| <2 years                                   | 52                      | 34  | 86                             | 33                         | 116                          |
| 2 years                                    | 16                      | 11  | 27                             | 22                         | 49                           |
| 3 years                                    | 14                      | 15  | 29                             | 23                         | 52                           |
| 4+ years                                   | 22                      | 12  | 34                             | 15                         | 49                           |
| <b>Birth size<sup>3</sup></b>              |                         |   |                                |                            |                              |
| Small/very small                           | 52                      | 21  | 74                             | na                         | na                           |
| Average or larger                          | 24                      | 13  | 37                             | na                         | na                           |
| Don't know/missing                         | (52)                    | *   | *                              | na                         | na                           |
| <b>Province</b>                            |                         |   |                                |                            |                              |
| Central                                    | 16                      | 14  | 30                             | 18                         | 47                           |
| Copperbelt                                 | 19                      | 14  | 33                             | 17                         | 50                           |
| Eastern                                    | 25                      | 15  | 40                             | 25                         | 64                           |
| Luapula                                    | 32                      | 35  | 67                             | 46                         | 110                          |
| Lusaka                                     | 27                      | 20  | 47                             | 18                         | 64                           |
| Muchinga                                   | 33                      | 18  | 51                             | 25                         | 75                           |
| Northern                                   | 22                      | 16  | 39                             | 28                         | 66                           |
| North Western                              | 9                       | 10  | 19                             | 7                          | 26                           |
| Southern                                   | 33                      | 13  | 46                             | 25                         | 70                           |
| Western                                    | 25                      | 17  | 42                             | 16                         | 57                           |
| <b>Mother's education</b>                  |                         |   |                                |                            |                              |
| No education                               | 21                      | 21  | 42                             | 29                         | 69                           |
| Primary                                    | 24                      | 18  | 42                             | 25                         | 66                           |
| Secondary                                  | 28                      | 16  | 44                             | 19                         | 62                           |
| Higher                                     | 31                      | 8   | 39                             | 7                          | 47                           |
| <b>Wealth quintile</b>                     |                         |   |                                |                            |                              |
| Lowest                                     | 26                      | 18  | 44                             | 23                         | 67                           |
| Second                                     | 20                      | 19  | 39                             | 29                         | 67                           |
| Middle                                     | 22                      | 14  | 35                             | 18                         | 53                           |
| Fourth                                     | 33                      | 19  | 52                             | 25                         | 76                           |
| Highest                                    | 26                      | 16  | 41                             | 17                         | 57                           |

Note: Figures in parentheses are based on 250-499 unweighted person-years of exposure to the risk of death. An asterisk indicates that a rate is based fewer than 250 unweighted person-years of exposure to the risk of death and has been suppressed.

na = Not available

<sup>1</sup> Computed as the difference between the infant and neonatal mortality rates

<sup>2</sup> Excludes first-order births

<sup>3</sup> Rates for the 5-year period before the survey

**Table 8.4 Perinatal mortality**

Number of stillbirths and early neonatal deaths, and the perinatal mortality rate for the 5-year period preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic                                | Number of stillbirths <sup>1</sup> | Number of early neonatal deaths <sup>2</sup> | Perinatal mortality rate <sup>3</sup> | Number of pregnancies of 7+ months' duration |
|--|------------------------------------|--|---------------------------------------|--|
| <b>Mother's age at birth</b>                             |                                    |  |                                       |  |
| <20  | 38                                 | 58   | 47                                    | 2,039  |
| 20-29  | 46                                 | 93   | 29                                    | 4,738  |
| 30-39  | 24                                 | 49   | 27                                    | 2,683  |
| 40-49  | 11                                 | 6  | 41                                    | 409  |
| <b>Previous pregnancy interval in months<sup>4</sup></b> |                                    |  |                                       |  |
| First pregnancy  | 36                                 | 72   | 44                                    | 2,438  |
| <15  | 16                                 | 31   | 51                                    | 922  |
| 15-26  | 15                                 | 34   | 27                                    | 1,831  |
| 27-38  | 12                                 | 25   | 22                                    | 1,658  |
| 39+  | 40                                 | 45   | 28                                    | 3,019  |
| <b>Residence</b>   |                                    |  |                                       |  |
| Urban  | 42                                 | 88   | 37                                    | 3,495  |
| Rural  | 76                                 | 119  | 31                                    | 6,373  |
| <b>Province</b>  |                                    |  |                                       |  |
| Central  | 10                                 | 18   | 32                                    | 858  |
| Copperbelt   | 12                                 | 19   | 26                                    | 1,203  |
| Eastern  | 18                                 | 23   | 31                                    | 1,325  |
| Luapula  | 18                                 | 19   | 38                                    | 959  |
| Lusaka   | 18                                 | 52   | 45                                    | 1,536  |
| Muchinga   | 5                                  | 19   | 40                                    | 606  |
| Northern   | 11                                 | 21   | 36                                    | 895  |
| North Western  | 7                                  | 3  | 18                                    | 530  |
| Southern   | 11                                 | 21   | 24                                    | 1,312  |
| Western  | 10                                 | 12   | 34                                    | 645  |
| <b>Mother's education</b>                                |                                    |  |                                       |  |
| No education   | 11                                 | 19   | 30                                    | 993  |
| Primary  | 56                                 | 78   | 27                                    | 5,016  |
| Secondary  | 48                                 | 97   | 42                                    | 3,471  |
| Higher   | 4                                  | 11   | 40                                    | 389  |
| <b>Wealth quintile</b>                                   |                                    |  |                                       |  |
| Lowest   | 36                                 | 51   | 35                                    | 2,476  |
| Second   | 24                                 | 30   | 25                                    | 2,168  |
| Middle   | 20                                 | 39   | 32                                    | 1,833  |
| Fourth   | 15                                 | 40   | 30                                    | 1,838  |
| Highest  | 24                                 | 46   | 45                                    | 1,553  |
| Total  | 119                                | 206  | 33                                    | 9,869  |

<sup>1</sup> Stillbirths are foetal deaths in pregnancies lasting 7 or more months.

<sup>2</sup> Early neonatal deaths are deaths at age 0-6 days among live-born children.

<sup>3</sup> The sum of the number of stillbirths and early neonatal deaths divided by the number of pregnancies of 7 or more months' duration, expressed per 1,000

<sup>4</sup> Category cutoffs correspond to birth intervals of <24 months, 24-35 months, 36-47 months, and 48+ months assuming a pregnancy duration of 9 months.

**Table 8.5 High-risk fertility behaviour**

Percent distribution of children born in the 5 years preceding the survey by category of elevated risk of mortality and the risk ratio, and percent distribution of currently married women by category of risk if they were to conceive a child at the time of the survey, Zambia DHS 2018

| Risk category   | Births in the 5 years preceding<br>the survey |             | Percentage of<br>currently married<br>women <sup>1</sup> |
|---|---|-------------|--|
|   | Percentage of<br>births                       | Risk ratio  |  |
| <b>Not in any high-risk category</b>                        | <b>28.7</b>                                   | <b>1.00</b> | <b>21.5<sup>a</sup></b>                                  |
| <b>Unavoidable risk category</b>                            |   |             |  |
| First-order births between age 18 and age 34                | 16.8  | 1.14        | 3.0  |
| <b>In any avoidable high-risk category</b>                  | <b>54.5</b>                                   | <b>1.12</b> | <b>75.5</b>  |
| <b>Single high-risk category</b>                            |   |             |  |
| Mother's age <18 only                                       | 9.1   | 1.33        | 0.4  |
| Mother's age >34 only                                       | 0.7   | 2.00        | 3.2  |
| Birth interval <24 months only                              | 4.1   | 1.38        | 8.9  |
| Birth order >3 only   | 22.4  | 0.67        | 17.7   |
| Subtotal  | 36.4  | 0.95        | 30.2   |
| <b>Multiple high-risk category</b>                          |   |             |  |
| Age <18 and birth interval <24 months <sup>2</sup>          | 0.4   | (5.82)      | 0.3  |
| Age >34 and birth interval <24 months                       | 0.1   | *           | 0.2  |
| Age >34 and birth order >3                                  | 11.8  | 0.79        | 29.6   |
| Age >34 and birth interval <24 months and birth order >3    | 1.5   | 2.02        | 5.1  |
| Birth interval <24 months and birth order >3                | 4.3   | 2.65        | 10.0   |
| Subtotal  | 18.1  | 1.45        | 45.3   |
| Total   | 100.0   | na          | 100.0  |
| <b>Subtotals by individual avoidable high-risk category</b> |   |             |  |
| Mother's age <18  | 9.5   | 1.52        | 0.6  |
| Mother's age >34  | 14.1  | 1.00        | 38.2   |
| Birth interval <24 months                                   | 10.4  | 2.17        | 24.5   |
| Birth order >3  | 40.0  | 0.97        | 62.5   |
| Number of births/women                                      | 9,841   | na          | 7,648  |

Note: Risk ratio is the ratio of the proportion dead among births in a specific high-risk category to the proportion dead among births not in any high-risk category. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = Not applicable

<sup>1</sup> Women are assigned to risk categories according to the status they would have at the birth of a child if they were to conceive at the time of the survey: current age less than 17 years and 3 months or older than 34 years and 2 months, latest birth less than 15 months ago, or latest birth being of order 3 or higher.

<sup>2</sup> Includes the category age <18 and birth order >3

<sup>a</sup> Includes sterilised women



### Key Findings

- **Antenatal care:** The majority of women (97%) age 15-49 who had a live birth in the 5 years preceding the survey received antenatal care (ANC) from a skilled provider during their most recent birth. Sixty-four percent had at least four ANC visits.
- **Components of antenatal care:** Most women who received antenatal care for their most recent pregnancy had a blood sample taken (96%), had their blood pressure measured (95%), and had a urine sample taken (65%).
- **Delivery services:** More than 8 in 10 live births in the past 5 years were delivered in a health facility (84%).
- **Postnatal care:** Seventy percent of mothers and 72% of newborns had a postnatal check during the first 2 days after delivery.

**H**ealth care services during pregnancy and childbirth and after delivery are important for the survival and well-being of both the mother and the infant. Implementation of proven interventions along the continuum of care, inclusive of skilled care during pregnancy, childbirth, and the postpartum period, remains a priority with respect to reducing maternal and neonatal morbidity and mortality. To this end, the Government of the Republic of Zambia has developed the Seventh National Development Plan to increase access to quality health care and scale up provision of maternal and newborn services (MNDP 2017). Furthermore, maternal and newborn health is one of the public health priorities of the Ministry of Health (MOH 2017), which continues to implement programmes aimed at reducing maternal and neonatal morbidity and mortality.

This chapter presents information on providers of antenatal care (ANC), number and timing of ANC visits, and different components of maternal health care during and after ANC and birth, including places of delivery, assistance during delivery, types of delivery, postnatal care for mothers and newborns, and problems women report in accessing maternal health care.

## 9.1 ANTENATAL CARE COVERAGE AND CONTENT

### 9.1.1 Skilled Providers

#### Antenatal care (ANC) from a skilled provider

Pregnancy care received from skilled providers, such as doctors, nurses/midwives, and clinical officers.

**Sample:** Women age 15-49 who had a live birth in the 5 years before the survey

The majority of women (97%) age 15-49 who had a live birth in the 5 years preceding the survey received ANC from a skilled provider at least once for their most recent birth (**Table 9.1**). Most women (93%) received ANC from a nurse/midwife, while 3% received care from a doctor.

**Trends:** The percentage of women in Zambia receiving ANC from a skilled provider at least once for the most recent birth in the 5 years preceding the survey has shown steady progress over the past 26 years, although there was a slight drop between 1996 and 2001-02 (from 92% to 88%). The percentage increased from 94% in 2007 to 97% in 2018 (**Figure 9.1**).

#### Patterns by background characteristics

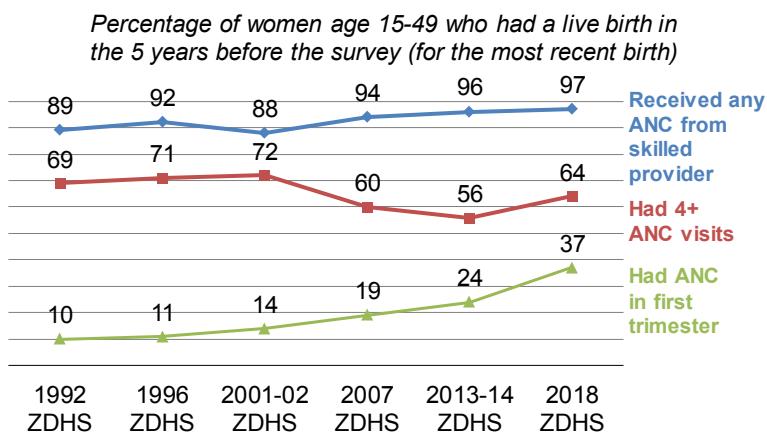
- Slightly more women in urban areas (99%) reported receiving antenatal care from a skilled provider than women in rural areas (96%) (**Table 9.1**).
- Women in urban areas are more likely than women in rural areas to receive ANC from a doctor (5% and 1%, respectively).
- Across the provinces, the percentage of women receiving ANC from a skilled provider ranges from 91% in Luapula to 99% in Copperbelt and Lusaka.
- The higher a woman's educational level, the more likely she is to receive ANC from a doctor. Seventeen percent of women with a higher education received ANC from a doctor, as compared with 1% of women with no education or a primary education.
- Women from households in the highest wealth quintile are more likely (9%) to receive ANC from a doctor than those in the lowest quintile (1%).

#### 9.1.2 Timing and Number of ANC Visits

In the 5 years preceding the survey, 64% of women age 15-49 had at least four ANC visits during their last pregnancy resulting in a live birth, while 33% of women had two to three ANC visits and 1% had one visit (**Table 9.2**). Another 1% of women had no ANC visit during their last pregnancy. Rural women were more likely to have at least four antenatal care visits (65%) than urban women (61%). Over 3 in 10 women (37%) had their first ANC visit during the first trimester of their pregnancy; 48% had their first visit during the fourth or fifth month of their pregnancy, while 13% received ANC during their sixth and seventh month of pregnancy. Only 1% of women had their first ANC visit in the eighth month or later. The median gestational age at which women made their first ANC visit was 4.4 months.

**Trends:** The percentage of women who had at least four ANC visits has fluctuated over the years. The percentage increased from 69% in 1992 to 71% in 1996 and 72% in 2001-02 and then decreased markedly to 60% in 2007. The percentage decreased again to 56% in 2013-14 before increasing to 64% in 2018 (**Figure 9.1**). The percentage of women who had ANC in the first trimester increased from 10% in 1992 to 37% in 2018.

**Figure 9.1 Trends in antenatal care coverage**



## 9.2 COMPONENTS OF ANC VISITS

During ANC, women are more likely to have a blood sample taken (96%) and their blood pressure measured (95%) than to have a urine sample taken (65%) (**Figure 9.2**).

**Trends:** The percentage of pregnant women who had a blood sample taken has increased over time, from 44% in 2001-02 and 59% in 2007 to 94% in 2013-14 and 96% in 2018. The percentage of women whose blood pressure was measured declined from 87% in 2001-02 to 80% in 2007 before increasing to 89% in 2013-14 and 95% in 2018. The percentage of women who had a urine sample taken increased from 25% in 2001-02 to 65% in 2018.

Women with a live birth in the 5 years preceding the survey were asked if they took iron tablets or syrup and intestinal parasite drugs for their most recent live birth. Overall, 97% of women took iron tablets or syrup during the pregnancy of their most recent live birth, and nearly 8 in 10 (77%) took intestinal parasite medication at least once (**Table 9.3**).

## 9.3 PROTECTION AGAINST NEONATAL TETANUS

### Protection against neonatal tetanus

The number of tetanus toxoid injections needed to protect a baby from neonatal tetanus depends on the mother's vaccinations. A birth is protected against neonatal tetanus if the mother has received any of the following:

- Two tetanus toxoid injections during the pregnancy
- Two or more injections, the last one within 3 years of the birth
- Three or more injections, the last one within 5 years of the birth
- Four or more injections, the last one within 10 years of the birth
- Five or more injections at any time prior to the birth

**Sample:** Last live births in the 5 years before the survey to women age 15-49

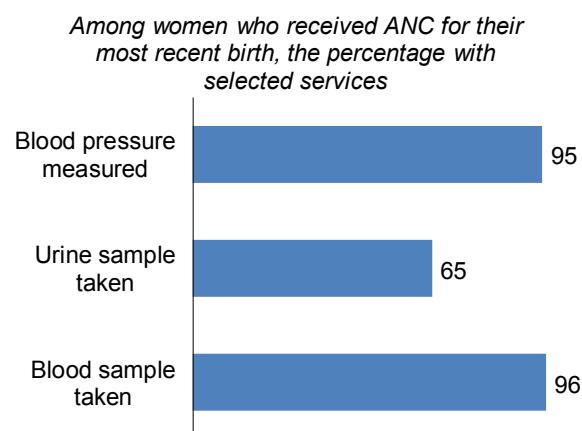
Neonatal tetanus is a serious problem in areas where home deliveries without sterile procedures are common. It can also be a serious problem in areas with poor immunisation coverage and unsafe childbirth and cord care practices. Tetanus injections are given to the mother to prevent neonatal tetanus. Overall, 79% of women received sufficient doses of tetanus toxoid to protect their most recent live birth against neonatal tetanus; however, only 28% of mothers received two or more injections during the pregnancy for their last live birth (**Table 9.4**).

**Trends:** The percentage of births protected against neonatal tetanus increased from 79% in 2007 to 82% in 2013-14 before declining again to 79% in 2018.

### Patterns by background characteristics

- The percentage of women whose last birth was protected from tetanus increases with mother's age at birth, from 65% among women less than age 20, to 82% among those age 20-34, to 83% among those age 35-39 (**Table 9.4**).
- First-order births (67%) are less likely to be protected against neonatal tetanus than second- and higher-order births (82% to 83%).

**Figure 9.2 Components of antenatal care**



- By province, the percentage of women whose last birth was protected from tetanus ranges from 66% in Western to 88% in Copperbelt.
- The percentage of women whose last birth was protected from tetanus increases with increasing mother's education, from 68% among with no education to 89% among those with a higher education. A similar pattern is observed with increasing wealth.

## 9.4 DELIVERY SERVICES

### 9.4.1 Institutional Deliveries

#### Institutional deliveries

Deliveries that occur in a health facility.

**Sample:** All live births in the 5 years before the survey

Institutional deliveries increase the chances of skilled birth attendance as well as increasing mothers' access to essential equipment and supplies. Overall, 84% of live births in the 5 years preceding the survey were delivered in a health facility (**Table 9.5**).

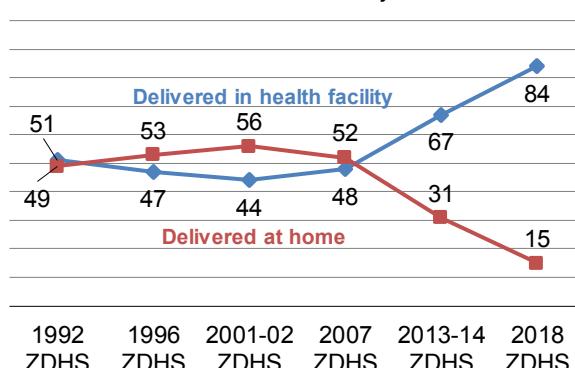
**Trends:** Health facility deliveries declined from 51% in 1992 to 44% in 2001-02 before increasing to 48% in 2007 and 84% in 2018 (**Figure 9.3**).

#### Patterns by background characteristics

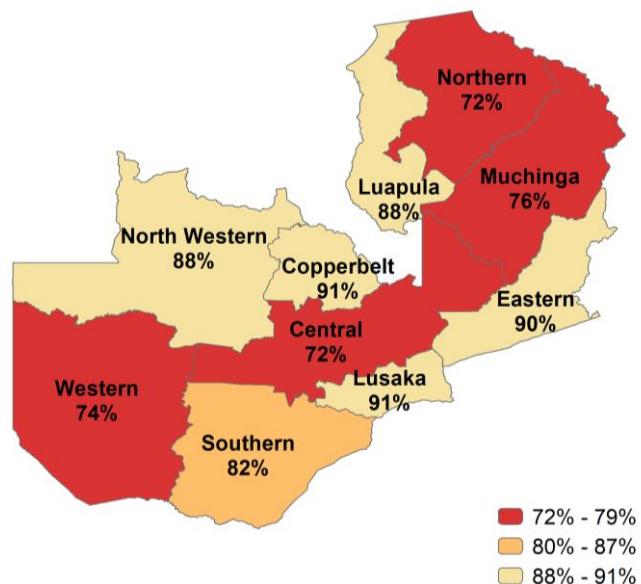
- The percentage of births delivered in a health facility decreases with increasing mother's age at birth (**Table 9.5**).
- The higher the birth order, the less likely a woman will deliver at a health facility: 92% of first-order births are delivered in a health facility, as compared with 75% of sixth- or higher-order births.
- Women in urban areas are more likely to deliver in a health facility (93%) than women in rural areas (79%).
- The percentage of health facility deliveries by province ranges from 72% in Central and Northern to 91% in Lusaka and Copperbelt (**Figure 9.4**).

**Figure 9.3 Trends in place of birth**

Percentage of live births in the 5 years before the survey



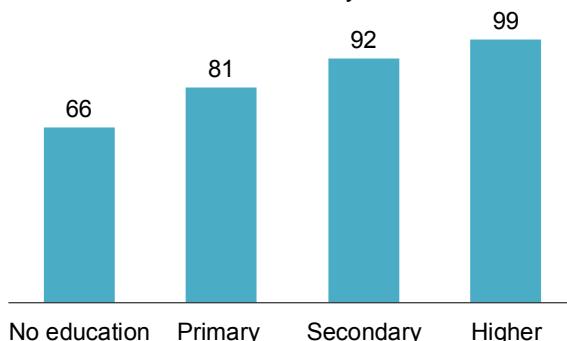
**Figure 9.4 Health facility births by province**



- The percentage of births that take place in a health facility increases with increasing mother's education, from 66% among births to mothers with no education to 99% among births to mothers with a higher education (**Figure 9.5**).
- Similarly, the percentage of health facility deliveries increases with increasing household wealth, from 73% in the lowest wealth quintile to 96% in the highest quintile (**Table 9.5**).

**Figure 9.5 Health facility births by education**

*Percentage of live births in the 5 years before the survey that were delivered in a health facility*



#### 9.4.2 Skilled Assistance during Delivery

##### Skilled assistance during delivery

Births delivered with the assistance of doctors, nurses/midwives, and clinical officers.

**Sample:** All live births in the 5 years before the survey

Obstetric care from a health professional during delivery is recognised as a critical element in managing complications that may arise during childbirth and reducing maternal and neonatal mortality. Women who deliver at home are usually more likely to do so without assistance from a trained provider, whereas women who deliver at a health facility are more likely to be assisted by a trained health professional. In the 5 years preceding the survey, 80% of births were delivered by a skilled provider. Among the births assisted at delivery, 71% were delivered by a nurse/midwife, whereas 9% were delivered by a relative/friend and 8% by a doctor (**Table 9.6** and **Figure 9.6**).

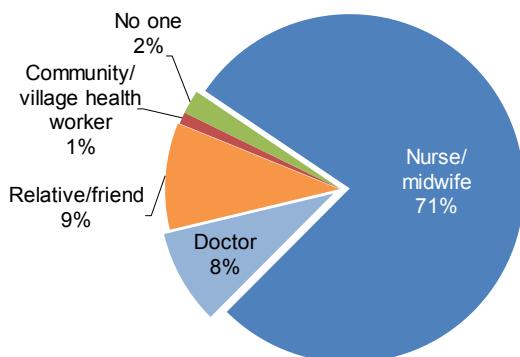
**Trends:** The percentage of births with skilled assistance during delivery declined from 50% in 1992 to 42% in 2001-02. Thereafter, the percentage has increased steadily, from 47% in 2007 to 80% in 2018.

##### Patterns by background characteristics

- The percentage of births attended by a skilled provider decreases with increasing mother's age at birth, from 84% among births to women less than age 20 to 76% among births to women age 35-49.
- The percentage of deliveries attended by a skilled provider decreases with increasing birth order; 89% of first-order births are delivered by a skilled provider, as compared with 71% of sixth- or higher-order births (**Table 9.6**).
- Women with no ANC visits are less likely to be assisted by a skilled provider than women with one or more visits.

**Figure 9.6 Assistance during delivery**

*Percent distribution of births in the 5 years before the survey*



- Births delivered somewhere other than a health facility are less likely (4%) to be attended by a skilled provider than births delivered in a health facility (95%).
- Women in urban areas are more likely to be assisted by a skilled provider (93%) than women in rural areas (73%).
- By province, the percentage of births delivered by a skilled provider ranges from 70% in Northern to 91% in Copperbelt and Lusaka. Women in Luapula and North Western are more likely to be assisted by a traditional birth attendant (18% and 17%, respectively) than women in other provinces.
- The more highly educated a woman is, the more likely she will be assisted by a skilled provider during delivery.
- Women in the highest wealth quintile are more likely (96%) to be assisted by a skilled provider during delivery than those in the lowest quintile (67%).

#### **9.4.3 Delivery by Caesarean**

Caesarean section (C-section) deliveries can reduce maternal and neonatal mortality. Caesarean section is a surgical intervention to prevent or treat life-threatening maternal or perinatal complications. While most C-sections are performed in light of medical or obstetrical indications, some women may request them in the absence of such signs. Five percent of the live births in the 5 years preceding the survey were delivered by C-section (**Table 9.7**). Of these births, 1% were planned before the onset of labour, while 4% were decided on after the onset of labour.

**Trends:** The C-section rate declined from 3% in 1992 to 2% in 1996, where it remained stagnant through 2001-02. Thereafter, the rate increased to 3% in 2007, 4% in 2013-14, and 5% in 2018.

#### **Patterns by background characteristics**

- C-section deliveries are more common among first-order births (7%) than among fourth- or higher-order births (3%).
- C-sections are more common in private facilities (14%) than public facilities (5%).
- Among the provinces, caesarean rates range from a low of 2% in Western to a high of 8% in Lusaka.
- The probability of undergoing a caesarean section increases with increasing education. The caesarean rate for births to women with a higher education is 22%, as compared with 4% for births to women with no education.
- The caesarean rate in the highest wealth quintile is seven times higher (14%) than the rate in the lowest quintile (2%).

### **9.5 POSTNATAL CARE**

#### **9.5.1 Postnatal Health Check for Mothers**

The postpartum period is particularly important for women, as during this period they may develop serious, life-threatening complications such as postpartum haemorrhage. A postnatal care visit is an ideal time to educate a new mother on how to care for herself and her newborn and can help reduce mortality and morbidity among mothers and their babies.

In Zambia, 70% of mothers received a postnatal check within the first 2 days after birth (**Table 9.9**). A majority of mothers had their first postnatal check within 4 hours (55%), and a further 13% had a check between 4 and 23 hours. Twenty-two percent of mothers did not have any postnatal health check.

**Trends:** The percentage of mothers who received a postnatal check during the first 2 days after their most recent birth has increased markedly over time, from 32% in 2007 to 63% in 2013-14 and 70% in 2018.

#### **Patterns by background characteristics**

- Women who deliver in a health facility have a higher likelihood of receiving their first postnatal check within 2 days of delivery (77%) than those who deliver elsewhere (21%).
- Urban women are more likely to receive a postnatal check within 2 days of delivery (82%) than rural women (64%).
- By province, the percentage of women receiving a postnatal check within 2 days of delivery is highest in Lusaka (84%) and lowest in Northern (54%).
- The percentage of women receiving a postnatal check within 2 days increases with increasing education, from 50% among those with no education to 84% among those with a higher education.
- Similarly, the percentage of women who receive a postnatal check within 2 days after birth increases with increasing wealth, from 57% among those in the lowest quintile to 84% among those in the highest quintile.

#### *Type of Provider*

The skill level of the provider who performs the first postnatal checkup also has important implications for maternal and neonatal health. Sixty-eight percent of women received their first postnatal health check during the first 2 days after delivery from a doctor, nurse/midwife, or clinical officer. One percent received their first postnatal check from a traditional birth attendant, and less than 1% received a postnatal checkup from a community/village health assistant (**Table 9.10**).

#### **9.5.2 Postnatal Health Check for Newborns**

The probability of neonatal death is particularly high during the first 48 hours from birth, making postnatal checks in this period particularly important. A majority of newborns in Zambia (72%) received a postnatal check within 2 days after birth. Twenty-one percent received a postnatal check less than 1 hour after delivery, and 38% received a check within 1-3 hours after delivery. Twenty-one percent of newborns did not receive a postnatal health check (**Table 9.11**).

#### **Patterns by background characteristics**

- Newborns delivered in a health facility were much more likely to receive a postnatal health check during the first 2 days after birth than those delivered elsewhere (80% versus 20%).
- Newborns delivered in urban areas were more likely to receive postnatal checks within 2 days of delivery (82%) than those delivered in rural areas (67%).
- The percentage of newborns who received a postnatal check within 2 days increases with increasing mother's education, from 55% among those born to women with no education to 81% among those born to women with a secondary or higher education.
- The percentage of newborns who received a postnatal check within 2 days also increases with increasing household wealth, from 61% in the lowest wealth quintile to 84% in the highest wealth quintile.

### Type of Provider and Care

Seven in 10 newborns (71%) received a postnatal check from a doctor, nurse/midwife, or clinical officer. One percent received a postnatal check from a traditional birth attendant, and less than 1% received postnatal care from a community/village health assistant. Twenty-eight percent of newborns did not receive any postnatal check during the 2 days after birth (**Table 9.12**).

### Components of Newborn Postnatal Care

**Table 9.13** presents information on components of postnatal care such as signal functions performed within 2 days after birth and whether the mother was informed of danger signs in newborns. Two-thirds (66%) of newborns had at least two signal functions performed within 2 days after birth. Eighty-three percent of newborns were weighed at birth, 60% had their cord examined, and 59% of mothers received counselling on breastfeeding. The signal function least often performed was that of mothers receiving counselling on danger signs (54%).

### Patterns by background characteristics

- The percentage of newborns with at least two signal functions performed within 2 days of birth increases with increasing mother's education, from 50% among those born to women with no education to 83% among those born to women with a higher education. The same pattern exists for wealth.

## 9.6 PROBLEMS IN ACCESSING HEALTH CARE

### Problems in accessing health care

Women were asked whether each of the following factors is a big problem in seeking medical advice or treatment for themselves when they are sick:

- Getting permission to go to the doctor
- Getting money for advice or treatment
- Distance to a health facility
- Not wanting to go alone
- Having to take transport
- Concern that there may not be any health provider
- Concern that there may not be a female health provider
- Rude attitude of health provider

**Sample:** Women age 15-49

Five in 10 (51%) women age 15-49 reported at least one problem in accessing health care for themselves (**Table 9.14**). Women in rural areas had a higher likelihood of reporting at least one problem in accessing health care for themselves (62%) than women in urban areas (39%). The most mentioned problem in accessing health care was distance to a health facility (29%), and the least mentioned problem was getting permission to go for treatment (4%).

### Patterns by background characteristics

- By province, the percentage of women who mentioned at least one problem is highest in Northern (72%) and lowest in Copperbelt (34%).
- The percentage of women who mentioned at least one problem decreases with increasing household wealth, from 68% among those in the lowest wealth quintile to 38% among those in the highest quintile.

## **9.7 OBSTETRIC FISTULA**

Obstetric fistula is a hole between the vagina and rectum or bladder that causes urinary or faecal incontinence. Fistula typically results from problems during labour, surgical error, or trauma. In Zambia, only 3 in 10 women age 15-49 (31%) have heard of the symptoms of obstetric fistula. Less than 1% of women reported that they have ever experienced symptoms of fistula (**Table 9.15**).

### **LIST OF TABLES**

For more information on maternal health care, see the following tables:

- **Table 9.1** Antenatal care
- **Table 9.2** Number of antenatal care visits and timing of first visit
- **Table 9.3** Components of antenatal care
- **Table 9.4** Tetanus toxoid injections
- **Table 9.5** Place of delivery
- **Table 9.6** Assistance during delivery
- **Table 9.7** Caesarean section
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- **Table 9.9** Timing of first postnatal check for the mother
- **Table 9.10** Type of provider of first postnatal check for the mother
- **Table 9.11** Timing of first postnatal check for the newborn
- **Table 9.12** Type of provider of first postnatal check for the newborn
- **Table 9.13** Content of postnatal care for newborns
- **Table 9.14** Problems in accessing health care
- **Table 9.15** Knowledge of fistula and experience of fistula-like symptoms

**Table 9.1 Antenatal care**

Percent distribution of women age 15-49 who had a live birth in the 5 years preceding the survey by antenatal care (ANC) provider during the pregnancy for the most recent birth and percentage receiving antenatal care from a skilled provider for the most recent birth, according to background characteristics, Zambia DHS 2018

| Background characteristic    | Antenatal care provider |               |                  |                          |                             |                                 |       | No ANC | Total | Percentage receiving antenatal care from a skilled provider <sup>1</sup> | Number of women |
|------------------------------|-------------------------|---------------|------------------|--------------------------|-----------------------------|---------------------------------|-------|--------|-------|--|-----------------|
|                              | Doctor                  | Nurse/midwife | Clinical officer | Village health assistant | Traditional birth attendant | Community/village health worker | Other |        |       |  |                 |
| <b>Mother's age at birth</b> |                         |               |                  |                          |                             |                                 |       |        |       |  |                 |
| <20                          | 1.9                     | 94.0          | 1.7              | 0.6                      | 0.5                         | 0.2                             | 0.3   | 0.8    | 100.0 | 97.6   | 1,417           |
| 20-34                        | 3.0                     | 93.2          | 0.7              | 0.9                      | 1.0                         | 0.1                             | 0.1   | 1.0    | 100.0 | 96.9   | 4,747           |
| 35-49                        | 2.5                     | 92.2          | 1.3              | 1.0                      | 0.8                         | 0.2                             | 0.1   | 1.9    | 100.0 | 96.0   | 1,160           |
| <b>Birth order</b>           |                         |               |                  |                          |                             |                                 |       |        |       |  |                 |
| 1                            | 3.2                     | 93.0          | 1.3              | 0.5                      | 0.6                         | 0.1                             | 0.2   | 1.0    | 100.0 | 97.6   | 1,836           |
| 2-3                          | 3.3                     | 93.2          | 0.7              | 0.9                      | 0.8                         | 0.1                             | 0.2   | 0.8    | 100.0 | 97.2   | 2,499           |
| 4-5                          | 2.5                     | 93.5          | 0.9              | 0.9                      | 1.0                         | 0.0                             | 0.2   | 1.1    | 100.0 | 96.9   | 1,577           |
| 6+                           | 1.4                     | 93.0          | 1.1              | 1.1                      | 1.1                         | 0.5                             | 0.1   | 1.7    | 100.0 | 95.5   | 1,412           |
| <b>Residence</b>             |                         |               |                  |                          |                             |                                 |       |        |       |  |                 |
| Urban                        | 5.2                     | 93.9          | 0.1              | 0.1                      | 0.0                         | 0.0                             | 0.0   | 0.7    | 100.0 | 99.2   | 2,811           |
| Rural                        | 1.2                     | 92.8          | 1.5              | 1.3                      | 1.4                         | 0.3                             | 0.3   | 1.3    | 100.0 | 95.5   | 4,513           |
| <b>Province</b>              |                         |               |                  |                          |                             |                                 |       |        |       |  |                 |
| Central                      | 3.6                     | 92.0          | 1.6              | 0.5                      | 0.3                         | 0.1                             | 0.0   | 2.0    | 100.0 | 97.2   | 640             |
| Copperbelt                   | 4.4                     | 94.9          | 0.1              | 0.1                      | 0.2                         | 0.0                             | 0.0   | 0.3    | 100.0 | 99.4   | 969             |
| Eastern                      | 1.9                     | 94.3          | 0.2              | 1.5                      | 1.3                         | 0.4                             | 0.2   | 0.2    | 100.0 | 96.4   | 983             |
| Luapula                      | 1.0                     | 88.8          | 1.7              | 3.5                      | 4.1                         | 0.0                             | 0.4   | 0.7    | 100.0 | 91.4   | 640             |
| Lusaka                       | 5.5                     | 92.9          | 0.2              | 0.0                      | 0.0                         | 0.0                             | 0.0   | 1.3    | 100.0 | 98.6   | 1,219           |
| Muchinga                     | 0.2                     | 92.0          | 0.9              | 0.1                      | 3.6                         | 0.8                             | 0.6   | 2.0    | 100.0 | 93.0   | 433             |
| Northern                     | 0.6                     | 96.3          | 1.4              | 0.2                      | 0.0                         | 0.0                             | 0.2   | 1.2    | 100.0 | 98.4   | 615             |
| North Western                | 1.6                     | 95.7          | 0.0              | 0.5                      | 0.5                         | 0.0                             | 0.0   | 1.7    | 100.0 | 97.2   | 404             |
| Southern                     | 2.7                     | 93.5          | 1.9              | 0.7                      | 0.2                         | 0.1                             | 0.1   | 0.8    | 100.0 | 98.1   | 946             |
| Western                      | 1.0                     | 90.2          | 3.2              | 2.3                      | 0.0                         | 0.6                             | 0.6   | 2.2    | 100.0 | 94.4   | 477             |
| <b>Education</b>             |                         |               |                  |                          |                             |                                 |       |        |       |  |                 |
| No education                 | 1.1                     | 88.7          | 1.3              | 1.8                      | 2.6                         | 0.7                             | 0.0   | 3.8    | 100.0 | 91.1   | 689             |
| Primary                      | 1.4                     | 94.1          | 1.1              | 1.0                      | 0.9                         | 0.2                             | 0.3   | 1.1    | 100.0 | 96.6   | 3,595           |
| Secondary                    | 3.3                     | 94.4          | 0.8              | 0.5                      | 0.5                         | 0.0                             | 0.1   | 0.5    | 100.0 | 98.4   | 2,726           |
| Higher                       | 16.6                    | 82.7          | 0.5              | 0.0                      | 0.0                         | 0.0                             | 0.0   | 0.2    | 100.0 | 99.8   | 316             |
| <b>Wealth quintile</b>       |                         |               |                  |                          |                             |                                 |       |        |       |  |                 |
| Lowest                       | 1.0                     | 90.9          | 1.8              | 1.9                      | 1.7                         | 0.3                             | 0.3   | 2.1    | 100.0 | 93.7   | 1,676           |
| Second                       | 1.3                     | 93.3          | 1.4              | 1.2                      | 1.1                         | 0.2                             | 0.3   | 1.2    | 100.0 | 96.1   | 1,527           |
| Middle                       | 2.0                     | 94.4          | 0.8              | 0.7                      | 1.2                         | 0.2                             | 0.1   | 0.7    | 100.0 | 97.2   | 1,390           |
| Fourth                       | 2.1                     | 96.3          | 0.5              | 0.1                      | 0.2                         | 0.0                             | 0.0   | 0.8    | 100.0 | 98.9   | 1,471           |
| Highest                      | 8.5                     | 91.1          | 0.1              | 0.0                      | 0.0                         | 0.0                             | 0.0   | 0.3    | 100.0 | 99.6   | 1,262           |
| Total                        | 2.7                     | 93.2          | 1.0              | 0.8                      | 0.9                         | 0.2                             | 0.2   | 1.1    | 100.0 | 96.9   | 7,325           |

Note: If more than one source of ANC was mentioned, only the provider with the highest qualifications is considered in this tabulation.

<sup>1</sup> Skilled provider includes doctor, nurse, midwife, and clinical officer.

**Table 9.2 Number of antenatal care visits and timing of first visit**

Percent distribution of women age 15-49 who had a live birth in the 5 years preceding the survey by number of antenatal care (ANC) visits for the most recent live birth and by the timing of the first visit, and among women with ANC, median months pregnant at first visit, according to residence, Zambia DHS 2018

| Number of ANC visits<br>and timing of first visit           | Residence |       |       |
|---|-----------|-------|-------|
|   | Urban     | Rural | Total |
| <b>Number of ANC visits</b>                                 |           |       |       |
| None  | 0.7       | 1.3   | 1.1   |
| 1   | 1.2       | 1.5   | 1.4   |
| 2-3   | 37.0      | 30.8  | 33.2  |
| 4+  | 60.7      | 65.3  | 63.5  |
| Don't know/missing  | 0.4       | 1.1   | 0.9   |
| Total   | 100.0     | 100.0 | 100.0 |
| <b>Number of months pregnant at time of first ANC visit</b> |           |       |       |
| No antenatal care   | 0.7       | 1.3   | 1.1   |
| <4  | 30.3      | 40.8  | 36.7  |
| 4-5   | 51.2      | 45.7  | 47.8  |
| 6-7   | 16.3      | 11.3  | 13.2  |
| 8+  | 1.4       | 0.7   | 1.0   |
| Don't know/missing  | 0.2       | 0.2   | 0.2   |
| Total   | 100.0     | 100.0 | 100.0 |
| Number of women   | 2,811     | 4,513 | 7,325 |
| Median months pregnant at first visit (for those with ANC)  | 4.7       | 4.3   | 4.4   |
| Number of women with ANC                                    | 2,792     | 4,453 | 7,245 |

**Table 9.3 Components of antenatal care**

Among women age 15-49 with a live birth in the 5 years preceding the survey, percentage who took iron tablets or syrup and drugs for intestinal parasites during the pregnancy of the most recent live birth, and among women receiving antenatal care (ANC) for the most recent live birth in the 5 years preceding the survey, percentage receiving specific antenatal services, according to background characteristics, Zambia DHS 2018

| Background characteristic    | Among women with a live birth in the past 5 years, percentage who during the pregnancy of their most recent live birth: |                                |   | Among women who received antenatal care for their most recent birth in the past 5 years, percentage with selected services: |                    |                    | Number of women with ANC for their most recent birth |
|------------------------------|---|--------------------------------|---|---|--------------------|--------------------|--|
|                              | Took iron tablets or syrup  | Took intestinal parasite drugs | Number of women with a live birth in the past 5 years | Blood pressure measured   | Urine sample taken | Blood sample taken |  |
| <b>Mother's age at birth</b> |   |                                |   |   |                    |                    |  |
| <20                          | 97.4  | 74.7                           | 1,417   | 94.2  | 62.8               | 95.1               | 1,406  |
| 20-34                        | 97.5  | 78.8                           | 4,747   | 95.3  | 65.6               | 96.2               | 4,701  |
| 35-49                        | 96.3  | 74.7                           | 1,160   | 95.8  | 65.6               | 96.4               | 1,138  |
| <b>Birth order</b>           |   |                                |   |   |                    |                    |  |
| 1                            | 97.2  | 77.5                           | 1,836   | 95.7  | 66.3               | 95.9               | 1,818  |
| 2-3                          | 97.6  | 78.7                           | 2,499   | 95.5  | 68.3               | 96.9               | 2,479  |
| 4-5                          | 97.6  | 78.4                           | 1,577   | 94.3  | 62.9               | 95.9               | 1,560  |
| 6+                           | 96.7  | 73.7                           | 1,412   | 95.1  | 60.1               | 94.6               | 1,388  |
| <b>Residence</b>             |   |                                |   |   |                    |                    |  |
| Urban                        | 98.3  | 81.7                           | 2,811   | 99.1  | 76.2               | 98.3               | 2,792  |
| Rural                        | 96.7  | 74.6                           | 4,513   | 92.7  | 58.1               | 94.5               | 4,453  |
| <b>Province</b>              |   |                                |   |   |                    |                    |  |
| Central                      | 96.6  | 80.2                           | 640   | 96.9  | 71.7               | 98.3               | 627  |
| Copperbelt                   | 99.1  | 82.6                           | 969   | 99.6  | 73.9               | 98.8               | 965  |
| Eastern                      | 98.5  | 82.6                           | 983   | 95.5  | 72.2               | 97.1               | 981  |
| Luapula                      | 94.9  | 73.7                           | 640   | 93.8  | 41.6               | 96.0               | 635  |
| Lusaka                       | 97.9  | 85.0                           | 1,219   | 99.1  | 78.1               | 97.7               | 1,203  |
| Muchinga                     | 93.5  | 64.0                           | 433   | 85.6  | 49.3               | 90.0               | 425  |
| Northern                     | 97.2  | 74.6                           | 615   | 90.6  | 46.9               | 85.0               | 607  |
| North Western                | 96.6  | 78.8                           | 404   | 96.8  | 50.3               | 97.4               | 397  |
| Southern                     | 98.4  | 72.6                           | 946   | 97.3  | 75.6               | 98.5               | 938  |
| Western                      | 96.2  | 61.3                           | 477   | 84.2  | 51.0               | 93.8               | 466  |
| <b>Education</b>             |   |                                |   |   |                    |                    |  |
| No education                 | 91.8  | 70.9                           | 689   | 88.5  | 54.7               | 89.0               | 662  |
| Primary                      | 97.5  | 75.7                           | 3,595   | 94.3  | 60.9               | 95.6               | 3,556  |
| Secondary                    | 98.4  | 80.4                           | 2,726   | 97.5  | 71.1               | 98.1               | 2,711  |
| Higher                       | 98.7  | 83.3                           | 316   | 99.7  | 81.7               | 97.3               | 315  |
| <b>Wealth quintile</b>       |   |                                |   |   |                    |                    |  |
| Lowest                       | 95.3  | 71.9                           | 1,676   | 89.0  | 50.6               | 92.3               | 1,640  |
| Second                       | 96.8  | 73.8                           | 1,527   | 93.2  | 56.9               | 94.8               | 1,509  |
| Middle                       | 97.8  | 78.4                           | 1,390   | 97.3  | 69.1               | 97.0               | 1,379  |
| Fourth                       | 98.3  | 80.7                           | 1,471   | 99.0  | 73.0               | 98.6               | 1,459  |
| Highest                      | 98.8  | 83.8                           | 1,262   | 98.9  | 80.3               | 98.2               | 1,258  |
| Total                        | 97.3  | 77.4                           | 7,325   | 95.2  | 65.1               | 96.0               | 7,245  |

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**Table 9.4 Tetanus toxoid injections**

Among mothers age 15-49 with a live birth in the 5 years preceding the survey, percentage receiving two or more tetanus toxoid injections during the pregnancy for the most recent live birth and percentage whose most recent live birth was protected against neonatal tetanus, according to background characteristics, Zambia DHS 2018

| Background characteristic    | Percentage receiving two or more injections during the pregnancy for the last live birth | Percentage whose most recent live birth was protected against neonatal tetanus <sup>1</sup> | Number of mothers |
|------------------------------|--|---|-------------------|
| <b>Mother's age at birth</b> |  |   |                   |
| <20                          | 33.2   | 65.3  | 1,417             |
| 20-34                        | 27.8   | 81.5  | 4,747             |
| 35-49                        | 19.0   | 82.6  | 1,160             |
| <b>Birth order</b>           |  |   |                   |
| 1                            | 33.8   | 67.2  | 1,836             |
| 2-3                          | 29.2   | 82.2  | 2,499             |
| 4-5                          | 24.0   | 82.3  | 1,577             |
| 6+                           | 19.9   | 82.8  | 1,412             |
| <b>Residence</b>             |  |   |                   |
| Urban                        | 25.4   | 84.4  | 2,811             |
| Rural                        | 28.7   | 75.0  | 4,513             |
| <b>Province</b>              |  |   |                   |
| Central                      | 18.5   | 73.0  | 640               |
| Copperbelt                   | 21.0   | 88.2  | 969               |
| Eastern                      | 35.4   | 69.8  | 983               |
| Luapula                      | 41.9   | 73.3  | 640               |
| Lusaka                       | 25.8   | 86.1  | 1,219             |
| Muchinga                     | 31.1   | 78.2  | 433               |
| Northern                     | 34.1   | 77.4  | 615               |
| North Western                | 34.4   | 85.2  | 404               |
| Southern                     | 17.2   | 79.9  | 946               |
| Western                      | 23.4   | 66.2  | 477               |
| <b>Education</b>             |  |   |                   |
| No education                 | 25.6   | 67.8  | 689               |
| Primary                      | 27.8   | 76.7  | 3,595             |
| Secondary                    | 27.3   | 82.5  | 2,726             |
| Higher                       | 28.9   | 88.9  | 316               |
| <b>Wealth quintile</b>       |  |   |                   |
| Lowest                       | 32.2   | 72.0  | 1,676             |
| Second                       | 28.9   | 75.0  | 1,527             |
| Middle                       | 29.1   | 78.1  | 1,390             |
| Fourth                       | 21.7   | 81.8  | 1,471             |
| Highest                      | 24.3   | 88.4  | 1,262             |
| Total                        | 27.5   | 78.6  | 7,325             |

<sup>1</sup> Includes mothers with two injections during the pregnancy of her most recent live birth, or two or more injections (the last within 3 years of the most recent live birth), or three or more injections (the last within 5 years of the most recent live birth), or four or more injections (the last within 10 years of the most recent live birth), or five or more injections at any time prior to the most recent birth

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**Table 9.5 Place of delivery**

Percent distribution of live births in the 5 years preceding the survey by place of delivery and percentage delivered in a health facility, according to background characteristics, Zambia DHS 2018

| Background characteristic                | Health facility |                |      | Total | Percentage delivered in a health facility | Number of births |
|--|-----------------|----------------|------|-------|---|------------------|
|  | Public sector   | Private sector | Home |       |   |                  |
| <b>Mother's age at birth</b>             |                 |                |      |       |   |                  |
| <20                                      | 81.6            | 5.7            | 11.4 | 1.2   | 100.0                                     | 87.4             |
| 20-34                                    | 78.2            | 5.5            | 15.3 | 1.0   | 100.0                                     | 83.7             |
| 35-49                                    | 73.1            | 6.2            | 19.4 | 1.4   | 100.0                                     | 79.3             |
| <b>Birth order</b>                       |                 |                |      |       |   |                  |
| 1  | 85.3            | 6.5            | 7.4  | 0.9   | 100.0                                     | 91.8             |
| 2-3                                      | 79.1            | 5.9            | 14.1 | 0.9   | 100.0                                     | 85.0             |
| 4-5                                      | 76.2            | 4.0            | 18.7 | 1.2   | 100.0                                     | 80.2             |
| 6+                                       | 69.2            | 5.8            | 23.3 | 1.7   | 100.0                                     | 75.0             |
| <b>Antenatal care visits<sup>1</sup></b> |                 |                |      |       |   |                  |
| None                                     | 21.1            | 0.0            | 75.9 | 3.1   | 100.0                                     | 21.1             |
| 1-3                                      | 77.6            | 4.3            | 17.0 | 1.1   | 100.0                                     | 81.9             |
| 4+                                       | 82.4            | 6.6            | 9.7  | 1.2   | 100.0                                     | 89.1             |
| Don't know/missing                       | 77.9            | 11.1           | 11.0 | 0.0   | 100.0                                     | 89.0             |
| <b>Residence</b>                         |                 |                |      |       |   |                  |
| Urban                                    | 88.6            | 4.6            | 6.4  | 0.4   | 100.0                                     | 93.2             |
| Rural                                    | 72.5            | 6.2            | 19.8 | 1.5   | 100.0                                     | 78.7             |
| <b>Province</b>                          |                 |                |      |       |   |                  |
| Central                                  | 70.5            | 1.5            | 26.7 | 1.3   | 100.0                                     | 72.0             |
| Copperbelt                               | 88.0            | 2.5            | 8.6  | 0.9   | 100.0                                     | 90.5             |
| Eastern                                  | 77.7            | 12.6           | 7.4  | 2.4   | 100.0                                     | 90.3             |
| Luapula                                  | 82.6            | 5.4            | 11.4 | 0.5   | 100.0                                     | 88.1             |
| Lusaka                                   | 87.3            | 3.9            | 8.6  | 0.2   | 100.0                                     | 91.2             |
| Muchinga                                 | 70.8            | 5.3            | 22.1 | 1.9   | 100.0                                     | 76.0             |
| Northern                                 | 71.2            | 1.0            | 27.2 | 0.6   | 100.0                                     | 72.2             |
| North Western                            | 74.0            | 13.8           | 11.7 | 0.5   | 100.0                                     | 87.8             |
| Southern                                 | 75.2            | 6.9            | 16.8 | 1.2   | 100.0                                     | 82.1             |
| Western                                  | 69.2            | 4.5            | 24.2 | 2.1   | 100.0                                     | 73.7             |
| <b>Mother's education</b>                |                 |                |      |       |   |                  |
| No education                             | 61.7            | 4.7            | 31.6 | 2.0   | 100.0                                     | 66.4             |
| Primary                                  | 75.2            | 5.4            | 18.1 | 1.4   | 100.0                                     | 80.5             |
| Secondary                                | 87.0            | 5.0            | 7.5  | 0.5   | 100.0                                     | 92.0             |
| Higher                                   | 82.0            | 17.0           | 0.9  | 0.2   | 100.0                                     | 98.9             |
| <b>Wealth quintile</b>                   |                 |                |      |       |   |                  |
| Lowest                                   | 66.2            | 6.3            | 25.7 | 1.8   | 100.0                                     | 72.5             |
| Second                                   | 73.7            | 6.5            | 18.4 | 1.4   | 100.0                                     | 80.2             |
| Middle                                   | 79.6            | 5.4            | 13.8 | 1.2   | 100.0                                     | 85.0             |
| Fourth                                   | 88.8            | 3.2            | 7.7  | 0.3   | 100.0                                     | 92.0             |
| Highest                                  | 89.4            | 6.5            | 3.7  | 0.4   | 100.0                                     | 95.9             |
| Total                                    | 78.2            | 5.6            | 15.1 | 1.1   | 100.0                                     | 83.8             |
|  |                 |                |      |       |   | 9,841            |

<sup>1</sup> Includes only the most recent birth in the 5 years preceding the survey

**Table 9.6 Assistance during delivery**

Percent distribution of live births in the 5 years preceding the survey by person providing assistance during delivery, percentage of births assisted by a skilled provider, and percentage with skin-to-skin contact immediately after birth, according to background characteristics, Zambia DHS 2018

| Background characteristic                | Person providing assistance during delivery |               |                  |                                    |                             |                                 |                 |       | Percent-age delivered by a skilled provider <sup>1</sup> | Percent-age with skin-to-skin contact immediately after birth | Number of births |
|--|---|---------------|------------------|------------------------------------|-----------------------------|---------------------------------|-----------------|-------|--|---|------------------|
|  | Doctor                                      | Nurse/midwife | Clinical officer | Community/village health assistant | Traditional birth attendant | Community/village health worker | Relative/friend | Other | No one   | Total   |                  |
| <b>Mother's age at birth</b>             |   |               |                  |                                    |                             |                                 |                 |       |  |   |                  |
| <20                                      | 7.7   | 74.6          | 1.7              | 1.1                                | 4.8                         | 1.1                             | 8.3             | 0.4   | 0.4  | 100.0   | 84.0             |
| 20-34                                    | 7.8   | 71.1          | 1.3              | 1.0                                | 6.5                         | 0.8                             | 9.0             | 0.3   | 2.1  | 100.0   | 80.3             |
| 35-49                                    | 7.4   | 67.6          | 0.7              | 0.6                                | 7.8                         | 0.7                             | 9.5             | 0.1   | 5.7  | 100.0   | 75.7             |
| <b>Birth order</b>                       |   |               |                  |                                    |                             |                                 |                 |       |  |   |                  |
| 1  | 10.3  | 77.0          | 1.5              | 0.8                                | 4.0                         | 0.6                             | 5.3             | 0.3   | 0.2  | 100.0   | 88.8             |
| 2-3                                      | 8.4   | 71.3          | 1.5              | 0.9                                | 6.1                         | 1.1                             | 8.5             | 0.4   | 1.8  | 100.0   | 81.2             |
| 4-5                                      | 5.9   | 69.8          | 1.3              | 1.4                                | 7.4                         | 1.1                             | 11.4            | 0.1   | 1.7  | 100.0   | 77.0             |
| 6+                                       | 5.2   | 65.3          | 0.7              | 0.9                                | 8.7                         | 0.7                             | 11.9            | 0.2   | 6.4  | 100.0   | 71.3             |
| <b>Antenatal care visits<sup>1</sup></b> |   |               |                  |                                    |                             |                                 |                 |       |  |   |                  |
| None                                     | 1.8   | 18.3          | 0.0              | 0.0                                | 16.9                        | 0.0                             | 47.4            | 0.9   | 14.7   | 100.0   | 20.1             |
| 1-3                                      | 7.6   | 70.9          | 1.2              | 0.7                                | 5.6                         | 0.6                             | 10.4            | 0.3   | 2.7  | 100.0   | 79.8             |
| 4+                                       | 9.1   | 74.7          | 1.4              | 1.1                                | 5.1                         | 0.9                             | 5.8             | 0.2   | 1.6  | 100.0   | 85.2             |
| Don't know/missing                       | 9.1   | 70.2          | 1.6              | 0.0                                | 12.2                        | 0.0                             | 6.9             | 0.0   | 0.0  | 100.0   | 80.9             |
| <b>Place of delivery</b>                 |   |               |                  |                                    |                             |                                 |                 |       |  |   |                  |
| Health facility                          | 9.2   | 84.4          | 1.6              | 0.8                                | 3.0                         | 0.3                             | 0.1             | 0.3   | 0.2  | 100.0   | 95.2             |
| Public facility                          | 8.3   | 85.1          | 1.7              | 0.8                                | 3.2                         | 0.3                             | 0.1             | 0.3   | 0.2  | 100.0   | 95.0             |
| Private facility                         | 22.6  | 75.5          | 0.0              | 0.9                                | 0.8                         | 0.2                             | 0.0             | 0.0   | 0.0  | 100.0   | 98.1             |
| Elsewhere                                | 0.1   | 3.5           | 0.1              | 1.9                                | 23.2                        | 3.7                             | 54.6            | 0.1   | 12.9   | 100.0   | 3.7              |
| <b>Residence</b>                         |   |               |                  |                                    |                             |                                 |                 |       |  |   |                  |
| Urban                                    | 13.3  | 79.6          | 0.3              | 0.2                                | 1.4                         | 0.3                             | 3.5             | 0.3   | 1.2  | 100.0   | 93.1             |
| Rural                                    | 4.7   | 66.8          | 1.9              | 1.4                                | 9.0                         | 1.2                             | 11.9            | 0.3   | 2.8  | 100.0   | 73.4             |
| <b>Province</b>                          |   |               |                  |                                    |                             |                                 |                 |       |  |   |                  |
| Central                                  | 5.9   | 64.5          | 0.9              | 0.8                                | 5.7                         | 1.1                             | 17.1            | 0.2   | 3.8  | 100.0   | 71.3             |
| Copperbelt                               | 11.6  | 79.0          | 0.0              | 0.2                                | 2.1                         | 0.8                             | 4.1             | 0.4   | 1.8  | 100.0   | 90.7             |
| Eastern                                  | 7.8   | 76.3          | 0.1              | 2.5                                | 7.1                         | 1.5                             | 3.4             | 0.1   | 1.1  | 100.0   | 84.2             |
| Luapula                                  | 5.0   | 64.9          | 2.5              | 1.7                                | 17.9                        | 0.6                             | 5.1             | 0.1   | 2.1  | 100.0   | 72.4             |
| Lusaka                                   | 12.5  | 77.9          | 0.5              | 0.5                                | 2.1                         | 0.3                             | 4.4             | 0.3   | 1.7  | 100.0   | 90.8             |
| Muchinga                                 | 5.0   | 69.8          | 0.1              | 0.2                                | 5.7                         | 0.4                             | 12.8            | 0.6   | 5.4  | 100.0   | 74.9             |
| Northern                                 | 3.5   | 65.4          | 1.1              | 0.4                                | 10.5                        | 0.8                             | 15.9            | 0.6   | 1.8  | 100.0   | 70.0             |
| North Western                            | 5.1   | 73.9          | 0.0              | 0.6                                | 16.5                        | 0.9                             | 2.3             | 0.0   | 0.7  | 100.0   | 79.0             |
| Southern                                 | 9.3   | 67.6          | 4.3              | 1.0                                | 1.6                         | 0.6                             | 12.2            | 0.0   | 3.2  | 100.0   | 81.3             |
| Western                                  | 2.9   | 64.9          | 3.4              | 1.4                                | 2.0                         | 2.2                             | 20.7            | 1.0   | 1.6  | 100.0   | 41.0             |
| <b>Mother's education</b>                |   |               |                  |                                    |                             |                                 |                 |       |  |   |                  |
| No education                             | 6.1   | 54.2          | 1.9              | 1.0                                | 11.7                        | 1.4                             | 17.1            | 0.2   | 6.4  | 100.0   | 62.2             |
| Primary                                  | 4.9   | 70.0          | 1.3              | 1.3                                | 7.8                         | 1.1                             | 10.8            | 0.3   | 2.4  | 100.0   | 76.2             |
| Secondary                                | 10.5  | 77.9          | 1.3              | 0.6                                | 3.2                         | 0.4                             | 4.8             | 0.3   | 1.0  | 100.0   | 89.8             |
| Higher                                   | 24.7  | 73.2          | 0.6              | 0.0                                | 0.3                         | 0.1                             | 0.3             | 0.1   | 0.6  | 100.0   | 98.6             |
| <b>Wealth quintile</b>                   |   |               |                  |                                    |                             |                                 |                 |       |  |   |                  |
| Lowest                                   | 3.2   | 62.9          | 1.3              | 1.5                                | 10.5                        | 1.6                             | 15.3            | 0.3   | 3.5  | 100.0   | 67.4             |
| Second                                   | 5.3   | 65.6          | 2.8              | 1.5                                | 9.5                         | 0.6                             | 11.5            | 0.4   | 2.9  | 100.0   | 73.7             |
| Middle                                   | 6.2   | 74.8          | 1.0              | 0.9                                | 6.0                         | 1.3                             | 8.0             | 0.2   | 1.6  | 100.0   | 82.0             |
| Fourth                                   | 9.3   | 81.2          | 0.7              | 0.4                                | 2.1                         | 0.3                             | 4.5             | 0.3   | 1.1  | 100.0   | 91.2             |
| Highest                                  | 18.5  | 77.0          | 0.4              | 0.1                                | 0.7                         | 0.2                             | 1.6             | 0.2   | 1.3  | 100.0   | 95.9             |
| Total                                    | 7.8   | 71.3          | 1.3              | 1.0                                | 6.3                         | 0.9                             | 8.9             | 0.3   | 2.2  | 100.0   | 55.3             |
|  |   |               |                  |                                    |                             |                                 |                 |       |  |   | 9,841            |

Note: If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this tabulation.

<sup>1</sup> Skilled provider includes doctor, nurse/midwife, and clinical officer.

<sup>2</sup> Includes only the most recent birth in the 5 years preceding the survey

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**Table 9.7 Caesarean section**

Percentage of live births in the 5 years preceding the survey delivered by caesarean section (C-section), percentage delivered by C-section planned before the onset of labour pains, and percentage delivered by C-section decided on after the onset of labour pains, according to background characteristics, Zambia DHS 2018

| Background characteristic                | Percentage delivered by C-section | Timing of decision to conduct C-section |                                     | Number of births |
|--|-----------------------------------|---|-------------------------------------|------------------|
|  |                                   | Planned before onset of labour pains    | Decided after onset of labour pains |                  |
| <b>Mother's age at birth</b>             |                                   |   |                                     |                  |
| <20                                      | 4.9                               | 1.3                                     | 3.6                                 | 2,022            |
| 20-34                                    | 4.9                               | 1.4                                     | 3.5                                 | 6,430            |
| 35-49                                    | 5.4                               | 1.7                                     | 3.7                                 | 1,389            |
| <b>Birth order</b>                       |                                   |   |                                     |                  |
| 1  | 7.2                               | 1.9                                     | 5.3                                 | 2,520            |
| 2-3                                      | 5.3                               | 1.7                                     | 3.6                                 | 3,382            |
| 4-5                                      | 3.3                               | 0.8                                     | 2.5                                 | 2,112            |
| 6+                                       | 3.4                               | 1.1                                     | 2.4                                 | 1,827            |
| <b>Antenatal care visits<sup>1</sup></b> |                                   |   |                                     |                  |
| None                                     | 0.0                               | 0.0                                     | 0.0                                 | 80               |
| 1-3                                      | 4.7                               | 1.7                                     | 3.0                                 | 2,531            |
| 4+                                       | 6.0                               | 1.6                                     | 4.4                                 | 4,651            |
| Don't know/missing                       | 6.1                               | 6.1                                     | 0.0                                 | 63               |
| <b>Place of delivery</b>                 |                                   |   |                                     |                  |
| Health facility                          | 5.9                               | 1.7                                     | 4.2                                 | 8,250            |
| Public facility                          | 5.3                               | 1.4                                     | 3.9                                 | 7,696            |
| Private facility                         | 14.4                              | 5.6                                     | 8.7                                 | 554              |
| Elsewhere                                | 0.0                               | 0.0                                     | 0.0                                 | 1,591            |
| <b>Residence</b>                         |                                   |   |                                     |                  |
| Urban                                    | 8.8                               | 2.9                                     | 5.9                                 | 3,489            |
| Rural                                    | 2.9                               | 0.6                                     | 2.3                                 | 6,352            |
| <b>Province</b>                          |                                   |   |                                     |                  |
| Central                                  | 4.0                               | 2.3                                     | 1.7                                 | 855              |
| Copperbelt                               | 6.9                               | 1.9                                     | 5.1                                 | 1,209            |
| Eastern                                  | 5.1                               | 1.1                                     | 4.0                                 | 1,321            |
| Luapula                                  | 3.8                               | 0.5                                     | 3.3                                 | 950              |
| Lusaka                                   | 7.6                               | 3.0                                     | 4.6                                 | 1,532            |
| Muchinga                                 | 3.6                               | 0.5                                     | 3.2                                 | 605              |
| Northern                                 | 2.6                               | 0.3                                     | 2.4                                 | 890              |
| North Western                            | 4.5                               | 1.0                                     | 3.5                                 | 531              |
| Southern                                 | 5.6                               | 1.6                                     | 4.0                                 | 1,308            |
| Western                                  | 1.8                               | 0.2                                     | 1.5                                 | 641              |
| <b>Mother's education</b>                |                                   |   |                                     |                  |
| No education                             | 3.9                               | 0.9                                     | 3.0                                 | 996              |
| Primary                                  | 2.8                               | 0.6                                     | 2.2                                 | 5,008            |
| Secondary                                | 6.5                               | 1.9                                     | 4.6                                 | 3,448            |
| Higher                                   | 21.9                              | 8.4                                     | 13.4                                | 389              |
| <b>Wealth quintile</b>                   |                                   |   |                                     |                  |
| Lowest                                   | 2.2                               | 0.5                                     | 1.8                                 | 2,466            |
| Second                                   | 2.7                               | 0.5                                     | 2.2                                 | 2,168            |
| Middle                                   | 3.3                               | 0.7                                     | 2.6                                 | 1,823            |
| Fourth                                   | 5.6                               | 1.4                                     | 4.2                                 | 1,840            |
| Highest                                  | 13.8                              | 5.1                                     | 8.7                                 | 1,545            |
| Total                                    | 5.0                               | 1.4                                     | 3.6                                 | 9,841            |

Note: The question on C-section was asked only of women who delivered in a health facility. In this table, it is assumed that women who did not give birth in a health facility did not receive a C-section.

<sup>1</sup> Includes only the most recent birth in the 5 years preceding the survey

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**Table 9.8 Duration of stay in health facility after birth**

Among women with a birth in the 5 years preceding the survey who delivered their most recent live birth in a health facility, percent distribution by duration of stay in the health facility following their most recent live birth, according to type of delivery, Zambia DHS 2018

| Type of delivery  | <6 hours | 6-11 hours | 12-23 hours | 1-2 days | 3+ days | Missing | Total | Number of women |
|-------------------|----------|------------|-------------|----------|---------|---------|-------|-----------------|
| Vaginal birth     | 14.4     | 32.7       | 12.0        | 33.3     | 6.6     | 1.0     | 100.0 | 5,887           |
| Caesarean section | 0.8      | 1.2        | 0.3         | 14.5     | 82.6    | 0.5     | 100.0 | 401             |

**Table 9.9 Timing of first postnatal check for the mother**

Among women age 15-49 giving birth in the 2 years preceding the survey, percent distribution of the mother's first postnatal check for the most recent live birth by time after delivery, and percentage of women with a live birth during the 2 years preceding the survey who received a postnatal check in the first 2 days after giving birth, according to background characteristics, Zambia DHS 2018

| Background characteristic    | Time after delivery of mother's first postnatal check <sup>1</sup> |            |          |          |           |       | Don't know/missing | No postnatal check <sup>2</sup> | Percent-age of women with a postnatal check during the first 2 days after birth <sup>1</sup> | Number of women |
|------------------------------|--|------------|----------|----------|-----------|-------|--------------------|---------------------------------|--|-----------------|
|                              | Less than 4 hours  | 4-23 hours | 1-2 days | 3-6 days | 7-41 days | Total |                    |                                 |  |                 |
| <b>Mother's age at birth</b> |  |            |          |          |           |       |                    |                                 |  |                 |
| <20                          | 50.6   | 13.5       | 1.5      | 7.1      | 1.6       | 2.7   | 22.9               | 100.0                           | 65.7   | 828             |
| 20-34                        | 56.9   | 13.2       | 1.2      | 3.3      | 1.4       | 2.8   | 21.2               | 100.0                           | 71.3   | 2,476           |
| 35-49                        | 55.1   | 10.3       | 3.6      | 2.1      | 0.7       | 1.9   | 26.3               | 100.0                           | 68.9   | 602             |
| <b>Birth order</b>           |  |            |          |          |           |       |                    |                                 |  |                 |
| 1                            | 55.8   | 14.8       | 1.3      | 5.9      | 1.2       | 3.2   | 17.7               | 100.0                           | 71.9   | 1,020           |
| 2-3                          | 59.1   | 13.1       | 1.2      | 3.0      | 1.4       | 2.7   | 19.6               | 100.0                           | 73.3   | 1,332           |
| 4-5                          | 53.5   | 13.2       | 1.8      | 3.6      | 1.8       | 2.5   | 23.6               | 100.0                           | 68.5   | 825             |
| 6+                           | 49.6   | 9.2        | 2.6      | 3.4      | 0.8       | 1.9   | 32.5               | 100.0                           | 61.4   | 726             |
| <b>Place of delivery</b>     |  |            |          |          |           |       |                    |                                 |  |                 |
| Health facility              | 61.7   | 14.3       | 1.4      | 4.2      | 1.2       | 3.0   | 14.2               | 100.0                           | 77.4   | 3,370           |
| Elsewhere                    | 14.6   | 3.8        | 2.9      | 2.3      | 2.1       | 0.5   | 73.9               | 100.0                           | 21.3   | 535             |
| <b>Residence</b>             |  |            |          |          |           |       |                    |                                 |  |                 |
| Urban                        | 64.0   | 15.4       | 2.0      | 3.0      | 1.3       | 3.4   | 10.8               | 100.0                           | 81.5   | 1,340           |
| Rural                        | 50.7   | 11.5       | 1.4      | 4.5      | 1.4       | 2.2   | 28.4               | 100.0                           | 63.6   | 2,564           |
| <b>Province</b>              |  |            |          |          |           |       |                    |                                 |  |                 |
| Central                      | 47.2   | 13.6       | 0.5      | 3.6      | 1.6       | 1.3   | 32.3               | 100.0                           | 61.2   | 343             |
| Copperbelt                   | 64.0   | 17.0       | 2.1      | 0.8      | 1.7       | 5.6   | 8.9                | 100.0                           | 83.1   | 473             |
| Eastern                      | 52.8   | 15.2       | 1.5      | 6.5      | 1.6       | 4.7   | 17.6               | 100.0                           | 69.6   | 569             |
| Luapula                      | 60.2   | 8.7        | 0.6      | 3.9      | 1.8       | 2.7   | 22.1               | 100.0                           | 69.4   | 375             |
| Lusaka                       | 72.3   | 10.2       | 1.1      | 2.3      | 1.8       | 2.6   | 9.8                | 100.0                           | 83.6   | 558             |
| Muchinga                     | 57.3   | 9.2        | 2.6      | 3.8      | 1.5       | 0.5   | 24.9               | 100.0                           | 69.2   | 227             |
| Northern                     | 38.4   | 15.2       | 0.8      | 2.9      | 0.2       | 1.1   | 41.4               | 100.0                           | 54.4   | 347             |
| North Western                | 42.9   | 26.5       | 1.3      | 2.5      | 1.1       | 2.9   | 22.8               | 100.0                           | 70.7   | 219             |
| Southern                     | 48.6   | 12.3       | 4.1      | 8.3      | 0.8       | 0.7   | 25.1               | 100.0                           | 65.0   | 525             |
| Western                      | 56.4   | 0.7        | 0.5      | 2.0      | 1.1       | 2.0   | 37.3               | 100.0                           | 57.6   | 269             |
| <b>Education</b>             |  |            |          |          |           |       |                    |                                 |  |                 |
| No education                 | 39.2   | 9.1        | 2.0      | 3.6      | 1.4       | 4.4   | 40.3               | 100.0                           | 50.3   | 371             |
| Primary                      | 53.9   | 10.8       | 1.4      | 3.9      | 1.6       | 2.2   | 26.2               | 100.0                           | 66.1   | 1,970           |
| Secondary                    | 60.5   | 16.1       | 1.8      | 4.4      | 1.0       | 2.2   | 13.9               | 100.0                           | 78.5   | 1,410           |
| Higher                       | 63.9   | 17.7       | 1.8      | 0.7      | 1.2       | 7.1   | 7.5                | 100.0                           | 83.5   | 153             |
| <b>Wealth quintile</b>       |  |            |          |          |           |       |                    |                                 |  |                 |
| Lowest                       | 45.7   | 10.1       | 1.2      | 3.4      | 2.0       | 2.5   | 35.1               | 100.0                           | 57.1   | 1,002           |
| Second                       | 53.1   | 11.3       | 1.6      | 4.6      | 0.9       | 1.9   | 26.7               | 100.0                           | 66.0   | 873             |
| Middle                       | 54.2   | 12.8       | 1.4      | 6.4      | 1.1       | 2.1   | 22.1               | 100.0                           | 68.4   | 738             |
| Fourth                       | 62.8   | 16.4       | 2.5      | 3.7      | 0.8       | 2.8   | 10.9               | 100.0                           | 81.7   | 672             |
| Highest                      | 66.8   | 15.6       | 1.6      | 1.3      | 1.9       | 4.4   | 8.4                | 100.0                           | 84.0   | 620             |
| Total                        | 55.3   | 12.8       | 1.6      | 3.9      | 1.4       | 2.6   | 22.4               | 100.0                           | 69.7   | 3,905           |

<sup>1</sup> Includes women who received a check from a doctor, midwife, nurse, community village health assistant, community village health worker, or traditional birth attendant

<sup>2</sup> Includes women who received a check after 41 days

**Table 9.10 Type of provider of first postnatal check for the mother**

Among women age 15-49 giving birth in the 2 years preceding the survey, percent distribution by type of provider of the mother's first postnatal health check during the 2 days after the most recent live birth, according to background characteristics, Zambia DHS 2018

| Background characteristic    | Type of health provider of mother's first postnatal check |               |                  |                                    |                                 | Traditional birth attendant | No postnatal check during the first 2 days after birth | Total | Number of women |
|------------------------------|---|---------------|------------------|------------------------------------|---------------------------------|-----------------------------|--|-------|-----------------|
|                              | Doctor  | Nurse/midwife | Clinical officer | Community/village health assistant | Community/village health worker |                             |  |       |                 |
| <b>Mother's age at birth</b> |   |               |                  |                                    |                                 |                             |  |       |                 |
| <20                          | 6.1   | 56.8          | 1.3              | 0.2                                | 0.2                             | 1.0                         | 34.3   | 100.0 | 828             |
| 20-34                        | 4.7   | 64.5          | 0.9              | 0.2                                | 0.2                             | 0.8                         | 28.7   | 100.0 | 2,476           |
| 35-49                        | 8.0   | 58.4          | 0.3              | 0.8                                | 0.4                             | 1.1                         | 31.1   | 100.0 | 602             |
| <b>Birth order</b>           |   |               |                  |                                    |                                 |                             |  |       |                 |
| 1                            | 7.7   | 62.3          | 1.0              | 0.2                                | 0.1                             | 0.5                         | 28.1   | 100.0 | 1,020           |
| 2-3                          | 4.8   | 66.2          | 1.2              | 0.2                                | 0.3                             | 0.6                         | 26.7   | 100.0 | 1,332           |
| 4-5                          | 4.3   | 61.0          | 0.7              | 0.5                                | 0.4                             | 1.6                         | 31.5   | 100.0 | 825             |
| 6+                           | 5.1   | 54.6          | 0.2              | 0.4                                | 0.0                             | 1.1                         | 38.6   | 100.0 | 726             |
| <b>Place of delivery</b>     |   |               |                  |                                    |                                 |                             |  |       |                 |
| Health facility              | 6.3   | 69.2          | 1.0              | 0.3                                | 0.2                             | 0.5                         | 22.6   | 100.0 | 3,370           |
| Elsewhere                    | 0.4   | 16.6          | 0.0              | 0.5                                | 0.5                             | 3.4                         | 78.7   | 100.0 | 535             |
| <b>Residence</b>             |   |               |                  |                                    |                                 |                             |  |       |                 |
| Urban                        | 10.1  | 70.5          | 0.7              | 0.1                                | 0.0                             | 0.1                         | 18.5   | 100.0 | 1,340           |
| Rural                        | 3.1   | 57.5          | 1.0              | 0.4                                | 0.3                             | 1.3                         | 36.4   | 100.0 | 2,564           |
| <b>Province</b>              |   |               |                  |                                    |                                 |                             |  |       |                 |
| Central                      | 2.9   | 56.7          | 0.5              | 0.0                                | 0.3                             | 0.8                         | 38.8   | 100.0 | 343             |
| Copperbelt                   | 13.8  | 68.3          | 0.3              | 0.1                                | 0.0                             | 0.6                         | 16.9   | 100.0 | 473             |
| Eastern                      | 4.6   | 63.4          | 0.0              | 0.5                                | 0.4                             | 0.5                         | 30.4   | 100.0 | 569             |
| Luapula                      | 4.4   | 59.6          | 2.3              | 0.2                                | 0.1                             | 2.8                         | 30.6   | 100.0 | 375             |
| Lusaka                       | 7.1   | 74.5          | 1.5              | 0.3                                | 0.0                             | 0.3                         | 16.4   | 100.0 | 558             |
| Muchinga                     | 3.2   | 64.7          | 0.0              | 0.0                                | 0.0                             | 1.3                         | 30.8   | 100.0 | 227             |
| Northern                     | 1.4   | 52.3          | 0.5              | 0.0                                | 0.0                             | 0.2                         | 45.6   | 100.0 | 347             |
| North Western                | 4.5   | 63.2          | 0.7              | 0.5                                | 0.2                             | 1.6                         | 29.3   | 100.0 | 219             |
| Southern                     | 5.5   | 57.1          | 1.3              | 0.0                                | 0.4                             | 0.8                         | 35.0   | 100.0 | 525             |
| Western                      | 2.7   | 50.3          | 1.5              | 1.6                                | 0.7                             | 0.9                         | 42.4   | 100.0 | 269             |
| <b>Education</b>             |   |               |                  |                                    |                                 |                             |  |       |                 |
| No education                 | 4.3   | 44.4          | 0.2              | 0.0                                | 0.1                             | 1.4                         | 49.7   | 100.0 | 371             |
| Primary                      | 3.4   | 59.4          | 1.1              | 0.5                                | 0.3                             | 1.2                         | 33.9   | 100.0 | 1,970           |
| Secondary                    | 6.8   | 70.5          | 0.7              | 0.0                                | 0.1                             | 0.3                         | 21.5   | 100.0 | 1,410           |
| Higher                       | 23.7  | 58.7          | 1.0              | 0.0                                | 0.0                             | 0.0                         | 16.5   | 100.0 | 153             |
| <b>Wealth quintile</b>       |   |               |                  |                                    |                                 |                             |  |       |                 |
| Lowest                       | 2.4   | 51.2          | 1.1              | 0.4                                | 0.6                             | 1.4                         | 42.9   | 100.0 | 1,002           |
| Second                       | 2.5   | 60.6          | 1.1              | 0.4                                | 0.0                             | 1.4                         | 34.0   | 100.0 | 873             |
| Middle                       | 5.2   | 60.9          | 0.8              | 0.3                                | 0.3                             | 0.9                         | 31.6   | 100.0 | 738             |
| Fourth                       | 6.7   | 74.3          | 0.2              | 0.3                                | 0.0                             | 0.2                         | 18.3   | 100.0 | 672             |
| Highest                      | 13.9  | 69.0          | 1.1              | 0.0                                | 0.0                             | 0.0                         | 16.0   | 100.0 | 620             |
| Total                        | 5.5   | 61.9          | 0.9              | 0.3                                | 0.2                             | 0.9                         | 30.3   | 100.0 | 3,905           |

**Table 9.11 Timing of first postnatal check for the newborn**

Percent distribution of most recent live births in the 2 years preceding the survey by time after birth of first postnatal check, and percentage of births with a postnatal check during the first 2 days after birth, according to background characteristics, Zambia DHS 2018

| Background characteristic    | Time after delivery of newborn's first postnatal check <sup>1</sup> |           |            |          |          |            | No postnatal check <sup>2</sup> | Total | Percent-age of births with a postnatal check during the first 2 days after birth <sup>1</sup> | Number of births |
|------------------------------|---|-----------|------------|----------|----------|------------|---------------------------------|-------|---|------------------|
|                              | Less than 1 hour  | 1-3 hours | 4-23 hours | 1-2 days | 3-6 days | Don't know |                                 |       |   |                  |
| <b>Mother's age at birth</b> |   |           |            |          |          |            |                                 |       |   |                  |
| <20                          | 19.8  | 36.8      | 13.6       | 1.3      | 5.3      | 2.1        | 21.1                            | 100.0 | 71.5  | 828              |
| 20-34                        | 20.4  | 38.7      | 12.0       | 1.5      | 4.4      | 2.4        | 20.6                            | 100.0 | 72.6  | 2,476            |
| 35-49                        | 21.9  | 34.5      | 10.4       | 3.8      | 5.4      | 1.7        | 22.2                            | 100.0 | 70.6  | 602              |
| <b>Birth order</b>           |   |           |            |          |          |            |                                 |       |   |                  |
| 1                            | 22.7  | 38.8      | 14.3       | 1.3      | 4.1      | 2.5        | 16.3                            | 100.0 | 77.1  | 1,020            |
| 2-3                          | 19.7  | 39.7      | 12.0       | 2.0      | 3.9      | 2.6        | 20.1                            | 100.0 | 73.4  | 1,332            |
| 4-5                          | 19.5  | 37.1      | 12.4       | 1.0      | 6.5      | 2.0        | 21.6                            | 100.0 | 70.0  | 825              |
| 6+                           | 19.8  | 32.8      | 8.9        | 3.2      | 5.3      | 1.6        | 28.3                            | 100.0 | 64.8  | 726              |
| <b>Place of delivery</b>     |   |           |            |          |          |            |                                 |       |   |                  |
| Health facility              | 23.4  | 41.9      | 13.5       | 1.6      | 4.3      | 2.6        | 12.7                            | 100.0 | 80.4  | 3,370            |
| Elsewhere                    | 2.2   | 10.7      | 3.3        | 3.6      | 7.6      | 0.0        | 72.7                            | 100.0 | 19.7  | 535              |
| <b>Residence</b>             |   |           |            |          |          |            |                                 |       |   |                  |
| Urban                        | 19.4  | 45.7      | 14.8       | 1.9      | 2.7      | 3.3        | 12.1                            | 100.0 | 81.9  | 1,340            |
| Rural                        | 21.0  | 33.4      | 10.7       | 1.8      | 5.8      | 1.7        | 25.6                            | 100.0 | 66.9  | 2,564            |
| <b>Province</b>              |   |           |            |          |          |            |                                 |       |   |                  |
| Central                      | 30.7  | 19.8      | 12.4       | 2.3      | 8.9      | 1.6        | 24.4                            | 100.0 | 65.2  | 343              |
| Copperbelt                   | 24.4  | 35.8      | 19.3       | 2.4      | 1.0      | 5.4        | 11.7                            | 100.0 | 82.0  | 473              |
| Eastern                      | 32.6  | 28.5      | 10.5       | 1.3      | 4.8      | 3.6        | 18.6                            | 100.0 | 73.0  | 569              |
| Luapula                      | 6.0   | 62.1      | 8.5        | 0.8      | 5.2      | 3.0        | 14.4                            | 100.0 | 77.4  | 375              |
| Lusaka                       | 14.2  | 56.8      | 9.6        | 0.8      | 2.7      | 2.0        | 13.9                            | 100.0 | 81.4  | 558              |
| Muchinga                     | 23.2  | 37.0      | 9.4        | 2.6      | 3.7      | 0.2        | 23.9                            | 100.0 | 72.2  | 227              |
| Northern                     | 19.1  | 21.4      | 15.7       | 2.7      | 9.0      | 0.7        | 31.3                            | 100.0 | 58.9  | 347              |
| North Western                | 6.3   | 35.5      | 24.2       | 0.5      | 3.0      | 2.7        | 27.8                            | 100.0 | 66.5  | 219              |
| Southern                     | 11.4  | 42.0      | 11.7       | 3.4      | 6.5      | 0.5        | 24.4                            | 100.0 | 68.6  | 525              |
| Western                      | 36.7  | 23.5      | 1.2        | 1.1      | 2.9      | 1.3        | 33.4                            | 100.0 | 62.4  | 269              |
| <b>Mother's education</b>    |   |           |            |          |          |            |                                 |       |   |                  |
| No education                 | 16.5  | 29.3      | 8.0        | 1.3      | 5.5      | 3.2        | 36.2                            | 100.0 | 55.1  | 371              |
| Primary                      | 19.7  | 37.1      | 10.1       | 1.6      | 5.4      | 1.7        | 24.4                            | 100.0 | 68.5  | 1,970            |
| Secondary                    | 22.0  | 40.5      | 15.8       | 2.2      | 3.8      | 2.2        | 13.5                            | 100.0 | 80.5  | 1,410            |
| Higher                       | 26.0  | 38.1      | 13.8       | 2.9      | 3.4      | 7.8        | 7.9                             | 100.0 | 80.9  | 153              |
| <b>Wealth quintile</b>       |   |           |            |          |          |            |                                 |       |   |                  |
| Lowest                       | 19.4  | 29.6      | 9.9        | 1.6      | 5.4      | 1.8        | 32.3                            | 100.0 | 60.5  | 1,002            |
| Second                       | 21.9  | 36.8      | 10.0       | 1.6      | 5.5      | 1.4        | 22.7                            | 100.0 | 70.4  | 873              |
| Middle                       | 19.9  | 37.8      | 11.5       | 2.0      | 7.4      | 1.9        | 19.4                            | 100.0 | 71.3  | 738              |
| Fourth                       | 21.4  | 40.6      | 17.1       | 2.5      | 2.6      | 2.6        | 13.2                            | 100.0 | 81.6  | 672              |
| Highest                      | 19.8  | 48.5      | 13.8       | 1.6      | 1.9      | 4.2        | 10.2                            | 100.0 | 83.6  | 620              |
| Total                        | 20.5  | 37.6      | 12.1       | 1.8      | 4.7      | 2.3        | 20.9                            | 100.0 | 72.0  | 3,905            |

<sup>1</sup> Includes newborns who received a check from a doctor, midwife, nurse, community village health assistant, community village health worker, or traditional birth attendant

<sup>2</sup> Includes newborns who received a check after the first week of life

**Table 9.12 Type of provider of first postnatal check for the newborn**

Percent distribution of most recent live births in the 2 years preceding the survey by type of provider of the newborn's first postnatal health check during the 2 days after the most recent live birth, according to background characteristics, Zambia DHS 2018

| Background characteristic    | Type of health provider of newborn's first postnatal check |               |                  |                                    |                                 |                             | No postnatal check during the first 2 days after birth | Total | Number of births |
|------------------------------|--|---------------|------------------|------------------------------------|---------------------------------|-----------------------------|--|-------|------------------|
|                              | Doctor   | Nurse/midwife | Clinical officer | Community/village health assistant | Community/village health worker | Traditional birth attendant |  |       |                  |
| <b>Mother's age at birth</b> |  |               |                  |                                    |                                 |                             |  |       |                  |
| <20                          | 4.9  | 63.5          | 1.7              | 0.4                                | 0.1                             | 0.9                         | 28.5   | 100.0 | 828              |
| 20-34                        | 4.4  | 66.0          | 1.0              | 0.2                                | 0.1                             | 1.0                         | 27.4   | 100.0 | 2,476            |
| 35-49                        | 7.9  | 60.3          | 0.2              | 0.7                                | 0.4                             | 1.2                         | 29.4   | 100.0 | 602              |
| <b>Birth order</b>           |  |               |                  |                                    |                                 |                             |  |       |                  |
| 1                            | 7.0  | 67.4          | 1.4              | 0.4                                | 0.1                             | 0.9                         | 22.9   | 100.0 | 1,020            |
| 2-3                          | 4.3  | 67.2          | 1.2              | 0.1                                | 0.2                             | 0.5                         | 26.6   | 100.0 | 1,332            |
| 4-5                          | 3.3  | 63.3          | 0.9              | 0.4                                | 0.3                             | 1.8                         | 30.0   | 100.0 | 825              |
| 6+                           | 5.4  | 57.3          | 0.3              | 0.7                                | 0.0                             | 1.1                         | 35.2   | 100.0 | 726              |
| <b>Place of delivery</b>     |  |               |                  |                                    |                                 |                             |  |       |                  |
| Health facility              | 5.7  | 72.4          | 1.1              | 0.4                                | 0.1                             | 0.6                         | 19.6   | 100.0 | 3,370            |
| Elsewhere                    | 0.4  | 15.5          | 0.2              | 0.2                                | 0.1                             | 3.4                         | 80.3   | 100.0 | 535              |
| <b>Residence</b>             |  |               |                  |                                    |                                 |                             |  |       |                  |
| Urban                        | 9.0  | 71.9          | 0.6              | 0.0                                | 0.0                             | 0.4                         | 18.1   | 100.0 | 1,340            |
| Rural                        | 2.9  | 60.7          | 1.2              | 0.5                                | 0.2                             | 1.3                         | 33.1   | 100.0 | 2,564            |
| <b>Province</b>              |  |               |                  |                                    |                                 |                             |  |       |                  |
| Central                      | 4.3  | 58.6          | 1.3              | 0.0                                | 0.0                             | 1.0                         | 34.8   | 100.0 | 343              |
| Copperbelt                   | 10.6   | 70.9          | 0.0              | 0.0                                | 0.0                             | 0.5                         | 18.0   | 100.0 | 473              |
| Eastern                      | 3.4  | 67.0          | 0.0              | 0.9                                | 0.7                             | 1.0                         | 27.0   | 100.0 | 569              |
| Luapula                      | 3.5  | 67.5          | 2.4              | 0.4                                | 0.1                             | 3.5                         | 22.6   | 100.0 | 375              |
| Lusaka                       | 5.9  | 73.0          | 1.6              | 0.0                                | 0.0                             | 1.0                         | 18.6   | 100.0 | 558              |
| Muchinga                     | 2.2  | 69.8          | 0.0              | 0.0                                | 0.0                             | 0.3                         | 27.8   | 100.0 | 227              |
| Northern                     | 0.8  | 57.7          | 0.5              | 0.0                                | 0.0                             | 0.0                         | 41.1   | 100.0 | 347              |
| North Western                | 3.1  | 62.0          | 0.0              | 0.3                                | 0.2                             | 0.8                         | 33.5   | 100.0 | 219              |
| Southern                     | 8.1  | 57.4          | 1.9              | 0.3                                | 0.0                             | 0.8                         | 31.4   | 100.0 | 525              |
| Western                      | 3.0  | 55.1          | 1.8              | 1.6                                | 0.3                             | 0.6                         | 37.6   | 100.0 | 269              |
| <b>Mother's education</b>    |  |               |                  |                                    |                                 |                             |  |       |                  |
| No education                 | 3.7  | 49.8          | 0.2              | 0.3                                | 0.1                             | 1.1                         | 44.9   | 100.0 | 371              |
| Primary                      | 3.0  | 62.1          | 1.4              | 0.6                                | 0.2                             | 1.2                         | 31.5   | 100.0 | 1,970            |
| Secondary                    | 6.9  | 72.1          | 0.7              | 0.0                                | 0.0                             | 0.8                         | 19.5   | 100.0 | 1,410            |
| Higher                       | 16.6   | 63.2          | 1.0              | 0.0                                | 0.0                             | 0.0                         | 19.1   | 100.0 | 153              |
| <b>Wealth quintile</b>       |  |               |                  |                                    |                                 |                             |  |       |                  |
| Lowest                       | 2.3  | 54.7          | 1.6              | 0.5                                | 0.2                             | 1.3                         | 39.5   | 100.0 | 1,002            |
| Second                       | 2.1  | 65.2          | 1.1              | 0.5                                | 0.2                             | 1.4                         | 29.6   | 100.0 | 873              |
| Middle                       | 5.0  | 63.8          | 0.9              | 0.5                                | 0.3                             | 0.8                         | 28.7   | 100.0 | 738              |
| Fourth                       | 7.4  | 73.6          | 0.1              | 0.0                                | 0.0                             | 0.5                         | 18.4   | 100.0 | 672              |
| Highest                      | 11.1   | 70.9          | 0.9              | 0.0                                | 0.0                             | 0.7                         | 16.4   | 100.0 | 620              |
| Total                        | 5.0  | 64.6          | 1.0              | 0.3                                | 0.1                             | 1.0                         | 28.0   | 100.0 | 3,905            |

**Table 9.13 Content of postnatal care for newborns**

Among most recent live births in the 2 years preceding the survey, percentage for whom selected functions were performed during the first 2 days after birth and percentage with at least two signal functions performed during the first 2 days after birth, according to background characteristics, Zambia DHS 2018

| Background characteristic    | Among most recent live births in the 2 years preceding the survey, percentage for whom the selected function was performed during the first 2 days after birth: |                      |                             |                               |                               |                      | Percentage with at least two signal functions performed during the first 2 days after birth | Number of births |
|------------------------------|---|----------------------|-----------------------------|-------------------------------|-------------------------------|----------------------|---|------------------|
|                              | Cord examined   | Temperature measured | Counselling on danger signs | Counselling on breast-feeding | Observation of breast-feeding | Weighed <sup>1</sup> |   |                  |
| <b>Mother's age at birth</b> |   |                      |                             |                               |                               |                      |   |                  |
| <20                          | 60.6  | 57.3                 | 54.1                        | 60.7                          | 56.3                          | 84.3                 | 68.8  | 828              |
| 20-34                        | 61.3  | 56.4                 | 54.8                        | 59.2                          | 56.8                          | 83.6                 | 66.4  | 2,476            |
| 35-49                        | 54.0  | 51.4                 | 48.1                        | 54.3                          | 49.9                          | 80.8                 | 59.8  | 602              |
| <b>Birth order</b>           |   |                      |                             |                               |                               |                      |   |                  |
| 1                            | 63.3  | 60.3                 | 57.3                        | 63.5                          | 59.6                          | 87.9                 | 71.2  | 1,020            |
| 2-3                          | 63.4  | 58.5                 | 56.4                        | 61.3                          | 58.6                          | 85.3                 | 68.1  | 1,332            |
| 4-5                          | 56.8  | 50.8                 | 50.9                        | 55.4                          | 52.9                          | 80.6                 | 62.4  | 825              |
| 6+                           | 52.9  | 50.3                 | 46.4                        | 51.2                          | 47.8                          | 76.5                 | 58.3  | 726              |
| <b>Place of delivery</b>     |   |                      |                             |                               |                               |                      |   |                  |
| Health facility              | 63.8  | 60.4                 | 57.6                        | 63.0                          | 59.8                          | 93.1                 | 70.8  | 3,370            |
| Elsewhere                    | 36.3  | 27.2                 | 28.2                        | 32.2                          | 29.8                          | 21.7                 | 35.2  | 535              |
| <b>Residence</b>             |   |                      |                             |                               |                               |                      |   |                  |
| Urban                        | 68.4  | 68.2                 | 64.3                        | 70.2                          | 65.9                          | 95.5                 | 74.9  | 1,340            |
| Rural                        | 55.6  | 49.3                 | 48.0                        | 52.7                          | 50.3                          | 77.0                 | 61.2  | 2,564            |
| <b>Province</b>              |   |                      |                             |                               |                               |                      |   |                  |
| Central                      | 56.4  | 55.7                 | 54.9                        | 56.9                          | 58.0                          | 77.1                 | 62.9  | 343              |
| Copperbelt                   | 70.6  | 68.2                 | 66.3                        | 69.7                          | 62.4                          | 93.6                 | 73.6  | 473              |
| Eastern                      | 70.8  | 65.2                 | 59.6                        | 67.5                          | 74.0                          | 86.7                 | 81.7  | 569              |
| Luapula                      | 65.9  | 57.7                 | 53.9                        | 58.1                          | 55.3                          | 85.8                 | 67.7  | 375              |
| Lusaka                       | 74.3  | 76.7                 | 73.5                        | 79.3                          | 76.2                          | 94.6                 | 85.0  | 558              |
| Muchinga                     | 55.0  | 46.4                 | 48.4                        | 58.7                          | 49.8                          | 73.4                 | 62.0  | 227              |
| Northern                     | 43.1  | 35.1                 | 39.8                        | 45.1                          | 42.9                          | 64.4                 | 48.7  | 347              |
| North Western                | 62.6  | 53.4                 | 54.3                        | 53.7                          | 43.9                          | 85.4                 | 64.6  | 219              |
| Southern                     | 48.8  | 43.9                 | 37.0                        | 43.9                          | 34.9                          | 81.8                 | 50.0  | 525              |
| Western                      | 31.1  | 28.3                 | 29.2                        | 32.4                          | 30.8                          | 73.6                 | 37.7  | 269              |
| <b>Mother's education</b>    |   |                      |                             |                               |                               |                      |   |                  |
| No education                 | 45.7  | 40.8                 | 38.2                        | 44.5                          | 41.3                          | 61.7                 | 49.7  | 371              |
| Primary                      | 55.9  | 51.1                 | 49.1                        | 54.0                          | 52.5                          | 79.0                 | 62.4  | 1,970            |
| Secondary                    | 67.8  | 64.1                 | 62.7                        | 67.3                          | 62.2                          | 93.6                 | 73.3  | 1,410            |
| Higher                       | 75.8  | 76.0                 | 64.6                        | 75.4                          | 71.1                          | 98.3                 | 82.5  | 153              |
| <b>Wealth quintile</b>       |   |                      |                             |                               |                               |                      |   |                  |
| Lowest                       | 50.9  | 43.4                 | 42.7                        | 48.4                          | 48.0                          | 68.4                 | 57.0  | 1,002            |
| Second                       | 53.9  | 48.7                 | 46.9                        | 51.7                          | 49.3                          | 80.0                 | 59.6  | 873              |
| Middle                       | 61.1  | 57.2                 | 56.2                        | 59.3                          | 53.9                          | 86.8                 | 66.2  | 738              |
| Fourth                       | 68.9  | 66.8                 | 61.6                        | 69.4                          | 64.2                          | 93.2                 | 74.5  | 672              |
| Highest                      | 72.4  | 72.4                 | 68.9                        | 73.3                          | 69.9                          | 97.5                 | 79.3  | 620              |
| Total                        | 60.0  | 55.8                 | 53.6                        | 58.8                          | 55.6                          | 83.3                 | 65.9  | 3,905            |

<sup>1</sup> Captures newborns who were weighed "at birth." May exclude some newborns who were weighed during the 2 days after birth.

**Table 9.14 Problems in accessing health care**

Percentage of women age 15-49 who reported that they have serious problems in accessing health care for themselves when they are sick, by type of problem, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Problems in accessing health care      |                             |                             |                         |                          |   |  |                                  |  |        | Number of women |
|----------------------------------|--|-----------------------------|-----------------------------|-------------------------|--------------------------|---|--|----------------------------------|--|--------|-----------------|
|                                  | Getting permission to go for treatment | Getting money for treatment | Distance to health facility | Not wanting to go alone | Having to take transport | Concern that there may not be any health provider | Concern that there may not be a female health provider | Rude attitude of health provider | At least one problem accessing health care |        |                 |
| <b>Age</b>                       |  |                             |                             |                         |                          |   |  |                                  |  |        |                 |
| 15-19                            | 3.7                                    | 18.6                        | 27.2                        | 15.5                    | 23.1                     | 16.3  | 11.4   | 21.5                             | 48.3                                       | 3,000  |                 |
| 20-34                            | 3.8                                    | 19.3                        | 27.3                        | 12.4                    | 23.1                     | 16.9  | 10.4   | 26.3                             | 51.2                                       | 6,833  |                 |
| 35-49                            | 4.0                                    | 24.2                        | 32.7                        | 13.5                    | 28.1                     | 17.0  | 10.7   | 24.3                             | 53.6                                       | 3,850  |                 |
| <b>Number of living children</b> |  |                             |                             |                         |                          |   |  |                                  |  |        |                 |
| 0                                | 3.3                                    | 15.4                        | 23.9                        | 14.7                    | 19.9                     | 16.8  | 12.1   | 24.5                             | 47.8                                       | 3,489  |                 |
| 1-2                              | 4.0                                    | 18.7                        | 24.7                        | 11.2                    | 20.3                     | 15.4  | 8.6  | 24.6                             | 48.6                                       | 4,427  |                 |
| 3-4                              | 4.2                                    | 23.6                        | 29.7                        | 12.4                    | 26.3                     | 16.5  | 10.8   | 25.9                             | 52.5                                       | 2,945  |                 |
| 5+                               | 3.9                                    | 26.6                        | 40.3                        | 16.3                    | 34.9                     | 19.3  | 12.1   | 23.8                             | 58.4                                       | 2,821  |                 |
| <b>Marital status</b>            |  |                             |                             |                         |                          |   |  |                                  |  |        |                 |
| Never married                    | 3.5                                    | 16.2                        | 23.0                        | 13.7                    | 19.3                     | 16.3  | 11.4   | 24.8                             | 47.1                                       | 4,272  |                 |
| Married or living together       | 4.1                                    | 21.7                        | 32.2                        | 13.3                    | 27.1                     | 16.9  | 10.5   | 24.4                             | 53.2                                       | 7,648  |                 |
| Divorced/separated/widowed       | 3.8                                    | 26.0                        | 28.0                        | 13.1                    | 25.7                     | 17.5  | 9.8  | 25.8                             | 52.9                                       | 1,762  |                 |
| <b>Employed last 12 months</b>   |  |                             |                             |                         |                          |   |  |                                  |  |        |                 |
| Not employed                     | 4.7                                    | 21.9                        | 29.4                        | 13.9                    | 25.0                     | 18.1  | 11.7   | 25.8                             | 51.7                                       | 6,547  |                 |
| Employed for cash                | 2.7                                    | 18.0                        | 26.6                        | 11.2                    | 22.2                     | 14.8  | 8.7  | 24.3                             | 50.0                                       | 5,696  |                 |
| Employed not for cash            | 4.4                                    | 24.1                        | 34.6                        | 19.8                    | 31.5                     | 18.3  | 13.9   | 21.2                             | 54.4                                       | 1,440  |                 |
| <b>Residence</b>                 |  |                             |                             |                         |                          |   |  |                                  |  |        |                 |
| Urban                            | 2.4                                    | 12.1                        | 12.0                        | 6.7                     | 10.1                     | 12.1  | 7.6  | 23.8                             | 38.9                                       | 6,374  |                 |
| Rural                            | 5.1                                    | 27.9                        | 43.4                        | 19.2                    | 37.0                     | 20.9  | 13.4   | 25.5                             | 62.1                                       | 7,309  |                 |
| <b>Province</b>                  |  |                             |                             |                         |                          |   |  |                                  |  |        |                 |
| Central                          | 1.6                                    | 10.9                        | 19.9                        | 10.1                    | 19.7                     | 20.7  | 4.9  | 22.9                             | 42.1                                       | 1,165  |                 |
| Copperbelt                       | 2.0                                    | 8.5                         | 14.8                        | 8.5                     | 12.2                     | 7.0   | 5.1  | 16.6                             | 33.8                                       | 2,201  |                 |
| Eastern                          | 2.7                                    | 24.9                        | 43.6                        | 9.9                     | 33.6                     | 15.7  | 12.3   | 19.2                             | 61.1                                       | 1,605  |                 |
| Luapula                          | 1.2                                    | 16.8                        | 26.3                        | 10.7                    | 23.6                     | 20.2  | 10.0   | 23.5                             | 50.5                                       | 1,071  |                 |
| Lusaka                           | 3.4                                    | 14.3                        | 16.6                        | 7.5                     | 12.8                     | 15.2  | 9.8  | 27.6                             | 42.3                                       | 2,733  |                 |
| Muchinga                         | 3.6                                    | 19.7                        | 49.0                        | 29.6                    | 42.5                     | 10.3  | 8.9  | 12.5                             | 56.7                                       | 754    |                 |
| Northern                         | 8.2                                    | 24.8                        | 45.9                        | 32.7                    | 44.9                     | 44.6  | 30.0   | 44.8                             | 72.3                                       | 1,054  |                 |
| North Western                    | 3.6                                    | 25.3                        | 25.8                        | 11.3                    | 21.0                     | 11.9  | 12.5   | 37.8                             | 57.3                                       | 718    |                 |
| Southern                         | 5.5                                    | 41.5                        | 38.3                        | 14.5                    | 31.3                     | 13.3  | 7.0  | 27.9                             | 66.9                                       | 1,574  |                 |
| Western                          | 11.1                                   | 34.3                        | 37.7                        | 21.6                    | 33.8                     | 21.6  | 16.8   | 19.4                             | 55.3                                       | 808    |                 |
| <b>Education</b>                 |  |                             |                             |                         |                          |   |  |                                  |  |        |                 |
| No education                     | 5.5                                    | 30.9                        | 43.4                        | 19.6                    | 37.0                     | 21.6  | 15.9   | 22.3                             | 59.6                                       | 1,054  |                 |
| Primary                          | 4.6                                    | 25.4                        | 36.3                        | 16.7                    | 32.4                     | 18.3  | 12.2   | 23.4                             | 56.5                                       | 6,059  |                 |
| Secondary                        | 3.0                                    | 15.4                        | 20.3                        | 9.8                     | 16.2                     | 14.5  | 8.4  | 25.0                             | 44.8                                       | 5,816  |                 |
| Higher                           | 2.7                                    | 6.5                         | 13.0                        | 6.3                     | 7.7                      | 15.4  | 8.5  | 35.9                             | 46.5                                       | 755    |                 |
| <b>Wealth quintile</b>           |  |                             |                             |                         |                          |   |  |                                  |  |        |                 |
| Lowest                           | 6.8                                    | 33.3                        | 51.3                        | 25.8                    | 47.0                     | 25.7  | 18.2   | 25.7                             | 67.6                                       | 2,442  |                 |
| Second                           | 4.4                                    | 26.5                        | 42.2                        | 18.0                    | 36.0                     | 20.4  | 13.0   | 24.3                             | 61.3                                       | 2,387  |                 |
| Middle                           | 4.9                                    | 26.8                        | 34.6                        | 14.1                    | 29.2                     | 16.2  | 9.7  | 24.9                             | 57.0                                       | 2,477  |                 |
| Fourth                           | 2.4                                    | 14.9                        | 15.8                        | 7.5                     | 13.4                     | 12.3  | 7.1  | 22.3                             | 40.7                                       | 3,011  |                 |
| Highest                          | 1.9                                    | 7.5                         | 10.4                        | 5.9                     | 6.5                      | 12.2  | 7.5  | 26.2                             | 37.5                                       | 3,367  |                 |
| Total                            | 3.8                                    | 20.5                        | 28.8                        | 13.4                    | 24.5                     | 16.8  | 10.7   | 24.7                             | 51.3                                       | 13,683 |                 |

**Table 9.15 Knowledge of fistula and experience of fistula-like symptoms**

Percentage of women age 15-49 who have heard of fistula symptoms and percentage who have ever had fistula symptoms, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Percentage of women who:   |                                |                 |
|----------------------------|----------------------------|--------------------------------|-----------------|
|                            | Have ever heard of fistula | Have ever had fistula symptoms | Number of women |
| <b>Age</b>                 |                            |                                |                 |
| 15-19                      | 16.6                       | 0.0                            | 3,000           |
| 20-24                      | 27.3                       | 0.2                            | 2,733           |
| 25-29                      | 31.7                       | 0.2                            | 2,237           |
| 30-34                      | 37.6                       | 0.3                            | 1,862           |
| 35-39                      | 40.0                       | 0.4                            | 1,697           |
| 40-44                      | 42.9                       | 0.2                            | 1,253           |
| 45-49                      | 47.9                       | 0.3                            | 900             |
| <b>Marital status</b>      |                            |                                |                 |
| Never married              | 19.7                       | 0.1                            | 4,272           |
| Married or living together | 36.5                       | 0.2                            | 7,648           |
| Divorced/separated/widowed | 38.1                       | 0.4                            | 1,762           |
| <b>Residence</b>           |                            |                                |                 |
| Urban                      | 30.1                       | 0.2                            | 6,374           |
| Rural                      | 32.6                       | 0.2                            | 7,309           |
| <b>Province</b>            |                            |                                |                 |
| Central                    | 26.2                       | 0.1                            | 1,165           |
| Copperbelt                 | 24.5                       | 0.0                            | 2,201           |
| Eastern                    | 39.9                       | 0.4                            | 1,605           |
| Luapula                    | 43.3                       | 0.6                            | 1,071           |
| Lusaka                     | 28.8                       | 0.2                            | 2,733           |
| Muchinga                   | 46.9                       | 0.4                            | 754             |
| Northern                   | 29.3                       | 0.1                            | 1,054           |
| North Western              | 28.3                       | 0.0                            | 718             |
| Southern                   | 32.8                       | 0.2                            | 1,574           |
| Western                    | 22.8                       | 0.3                            | 808             |
| <b>Education</b>           |                            |                                |                 |
| No education               | 32.9                       | 0.1                            | 1,054           |
| Primary                    | 32.7                       | 0.2                            | 6,059           |
| Secondary                  | 28.1                       | 0.2                            | 5,816           |
| Higher                     | 45.3                       | 0.4                            | 755             |
| <b>Wealth quintile</b>     |                            |                                |                 |
| Lowest                     | 32.8                       | 0.3                            | 2,442           |
| Second                     | 32.0                       | 0.3                            | 2,387           |
| Middle                     | 32.1                       | 0.1                            | 2,477           |
| Fourth                     | 30.1                       | 0.1                            | 3,011           |
| Highest                    | 30.8                       | 0.1                            | 3,367           |
| Total                      | 31.4                       | 0.2                            | 13,683          |



### Key Findings

- **Birth weight:** Information on birth weight was obtained for 80% of the births in the last 5 years. Among births with a reported birth weight, 9% had a low birth weight (less than 2.5 kg).
- **Vaccinations:** Overall, 75% of children age 12-23 months had received all basic vaccinations by the time of the survey, and 46% had received all age-appropriate vaccinations.
- **Symptoms of acute respiratory infection (ARI):** Two percent of children under age 5 had symptoms of ARI in the 2 weeks before the survey. Advice or treatment was sought for 76% of children with ARI symptoms; 40% were taken for advice or treatment the same or next day.
- **Diarrhoea:** Fifteen percent of children under age 5 had diarrhoea in the 2 weeks before the survey, and advice or treatment was sought for 69% of these children. Seventy-eight percent of children with diarrhoea received oral rehydration therapy (ORT), and 34% received a combination of oral rehydration salts (ORS) and zinc. Fifteen percent of children with diarrhoea received no treatment.

**I**nformation on child health and survival can help policymakers and programme managers assess the efficacy of current strategies, formulate appropriate interventions to prevent deaths from childhood illnesses, and improve the health of children in Zambia.

This chapter presents information on birth weight and vaccination status for young children. It also looks at the prevalence of, and treatment practices for, three common childhood illnesses: symptoms of acute respiratory infection (ARI), fever, and diarrhoea. Because appropriate sanitary practices can help prevent and reduce the severity of diarrhoeal disease, information is also provided on the disposal of children's faecal matter.

#### 10.1 BIRTH WEIGHT

##### Low birth weight

Percentage of births with a reported birth weight below <2.5 kilograms regardless of gestational age

**Sample:** Live births in the 5 years before the survey that have a reported birth weight, from either a written record or else a mother's report

Low birth weight is closely associated with infant morbidity and mortality. Infants weighing less than 2.5 kilograms (kg) at birth or who are reported to be very small or smaller than average are at increased risk of early childhood death. For births in the 5 years preceding the survey, birth weight was collected through either a written record or the mother's recall. Because birth weight may not be known for many children,

mothers' estimates of their baby's size at birth were also obtained. Although these estimates are subjective, they can be a useful proxy for birth weight.

Eighty-six percent of births were reported as average or larger than average, 9% as smaller than average, and 2% as very small. Of the 80% of births with a reported birth weight, 9% weighed less than 2.5 kg (**Table 10.1**).

#### Patterns by background characteristics

- Women under age 20 are more likely to give birth to children with a low birth weight (12%) than women age 20-34 and age 35-49 (8% each).
- Mothers who smoke have a higher percentage of babies weighing less than 2.5 kg (15%) than their counterparts who do not smoke (9%).
- By province, the percentage of births weighing less than 2.5 kg is highest in Muchinga (10%) and lowest in Northern (6%).
- Women with no education or a primary education (9% each) are more likely to give birth to children with a low birth weight than women with a higher education (6%) (**Table 10.1**).

## 10.2 VACCINATION OF CHILDREN

Universal immunisation of children against common vaccine-preventable diseases is crucial to reducing infant and child morbidity and mortality. Zambia has conducted routine childhood immunisations since the inception of the Expanded Programme on Immunisation in 1975 and has been actively implementing the Universal Childhood Immunisation Programme since 1984. In scaling up immunisation efforts, the country has developed the Strengthened Expanded Programme on Immunisation Vaccination Manual coupled with integrated management of childhood illnesses (IMCI) (MOH 2017). The IMCI strategy ensures that when children come in contact with a health worker, their immunisation status is checked and they are given any necessary vaccines.

In Zambia, routine childhood vaccines include BCG (tuberculosis), DPT-HepB-Hib or pentavalent (diphtheria, tetanus, pertussis, hepatitis B, and *Haemophilus influenzae* type b), oral polio vaccine or OPV (poliomyelitis), PCV (pneumococcal), rotavirus or RV, and measles and rubella or MR.<sup>1</sup> A second dose of MR was introduced in June 2017 and is given to children at age 18 months.

Historically, an important measure of vaccination coverage has been the proportion of children receiving all "basic" vaccinations. Children are considered to have received all basic vaccinations if they have received the BCG vaccine, three doses each of the DPT and polio vaccines, and a single dose of the measles vaccine. In Zambia, the BCG vaccine is usually given at birth or at first clinic contact, while the DPT vaccine is given in combination with HepB and Hib (DPT-HepB-Hib) at approximately age 6, 10, and 14 weeks. A first measles vaccination (which was given in combination with rubella beginning in June 2017) should be given at or soon after age 9 months.

The 2018 ZDHS collected information on vaccinations for all children born in the 3 years before the survey. For each of these children, mothers were asked whether they had a health card for the child and, if so, whether the interviewer could see it. When a mother was able to show the health card to the interviewer, the dates of vaccinations received were copied from the card to the questionnaire. If a child

<sup>1</sup> Zambia introduced inactivated polio vaccine in mid-2018 immediately prior to the start of data collection. As the age cohorts for tabulation exceed the age of the children who would have received the vaccine, it was excluded from data collection.

never received a health card or if the mother was unable to show the card to the interviewer, the mother was asked specific questions about whether the child had received each vaccine.

### All basic vaccinations coverage

Percentage of children age 12-23 months who received specific vaccines at any time before the survey (according to a vaccination card or the mother's report). To have received all basic vaccinations, a child must receive at least:

- One dose of BCG vaccine, which protects against tuberculosis
- Three doses of DPT vaccine, which protects against diphtheria, pertussis (whooping cough), and tetanus
- Three doses of polio vaccine
- One dose of measles vaccine

**Sample:** Living children age 12-23 months

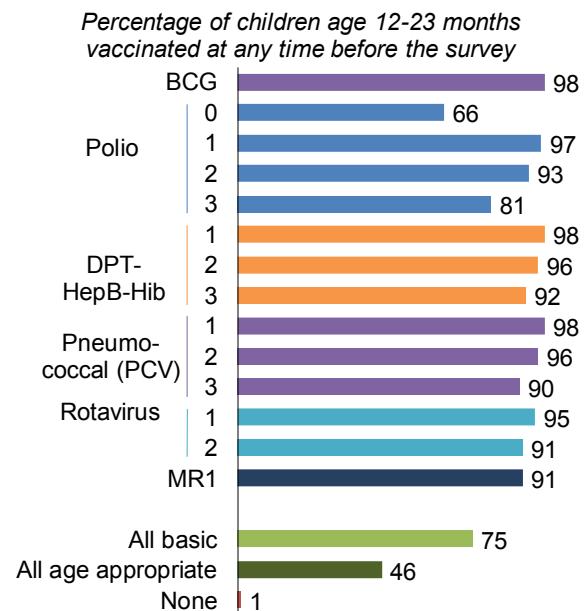
In Zambia, 75% of children age 12-23 months and 72% of children age 24-35 months have received all basic vaccinations. Seventy percent of children age 12-23 months and 63% of those age 24-35 months received all basic vaccines by age 12 months (**Table 10.2**).

Forty-six percent of children age 12-23 months and 33% of children age 24-35 months have received all age-appropriate vaccinations (**Table 10.3**).

Similarly, 43% of children age 12-23 months and 28% of children age 24-35 months were vaccinated by their appropriate age (**Table 10.2**). However, because MR2 was introduced in June 2017 and fieldwork began in July 2018, it is unsurprising that many children age 24-35 months did not receive the vaccination, thus lowering the overall percentage of children in this age group receiving all age-appropriate vaccinations.

**Figure 10.1** shows coverage of all age-appropriate vaccinations among children age 12-23 months. Coverage is highest for the BCG vaccine and the first dose of the DPT-HepB-Hib and PCV vaccines (98% each). In the case of multi-dose vaccines, coverage is highest for the first dose and falls in subsequent doses. Although coverage rates among children age 12-23 months for the first doses of DPT-HepB-Hib, PCV, and RV were 98%, 98%, and 95%, respectively, only 92% of children received the third dose of DPT-HepB-Hib, 90% received the third dose of PCV, and 91% received the second dose of RV (**Table 10.2**).

**Figure 10.1 Childhood vaccinations**



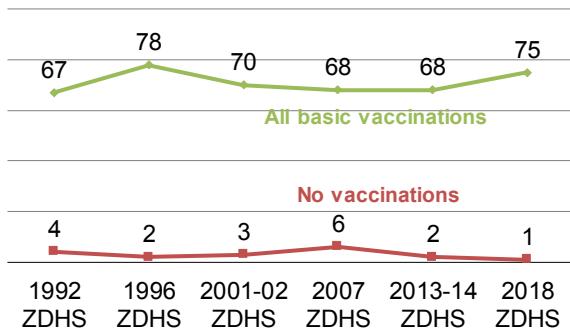
**Trends:** The 2018 ZDHS results show improvements in basic vaccination coverage. The percentage of children age 12-23 months who received all basic vaccination increased from 68% in both 2007 and 2013-14 to 75% in 2018. The percentage of children age 12-23 months with no vaccinations decreased from 6% in 2007 to 2% in 2013-14 and 1% in 2018 (**Figure 10.2**).

#### Patterns by background characteristics

- By province, basic vaccination coverage is highest in Copperbelt (83%) and lowest in Luapula (67%) (**Figure 10.3**).
- Basic vaccination coverage increases with increasing mother's education. Sixty-six percent of children born to mothers with no education received all basic vaccinations, as compared with 88% of those born to mothers with a higher education (**Table 10.3**).

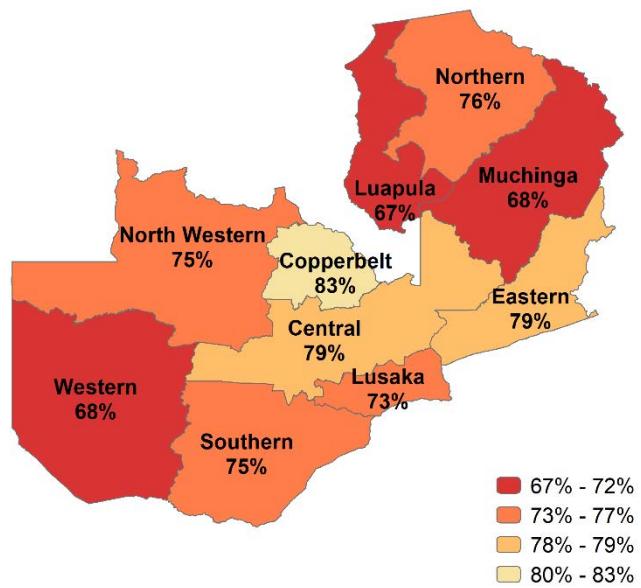
**Figure 10.2 Trends in childhood vaccinations**

*Percentage of children age 12-23 months who received all basic vaccinations at any time before the survey*



**Figure 10.3 Vaccination coverage by province**

*Percentage of children age 12-23 months who received all basic vaccines at any time before the survey*



#### Vaccination Card Ownership and Availability

Vaccination cards are a critical tool in ensuring that a child receives all recommended vaccinations on schedule. Among children age 12-23 months and 24-35 months, 97% were reported to have ever had a vaccination card (**Table 10.4**). However, not all mothers were able to produce their child's vaccination card at the time of the interview. Only 77% of children age 12-23 months and 68% of those age 24-35 months had vaccination cards available at the time of the interview.

### 10.3 SYMPTOMS OF ACUTE RESPIRATORY INFECTION

Acute respiratory infection (ARI), predominantly pneumonia, is a major cause of childhood morbidity and mortality.

#### Treatment of symptoms of acute respiratory infection (ARI)

Children with symptoms of ARI for whom advice or treatment was sought. ARI symptoms consist of short, rapid breathing that is chest-related, and/or difficult breathing that is chest-related.

**Sample:** Children under age 5 with symptoms of ARI in the 2 weeks before the survey

Two percent of children under age 5 had ARI symptoms in the 2 weeks prior to the survey. Advice or treatment was sought for 76% of children with ARI symptoms; however, advice or treatment was sought the same or next day for only 40% of children (**Table 10.5**).

Among children under age 5 with symptoms of ARI for whom advice or treatment was sought, the vast majority (89%) received advice or treatment from the public sector, including 66% who were taken to a government health centre (**Table 10.6**).

## 10.4 FEVER

Fever is a symptom of malaria but is also associated with other childhood illnesses that may contribute to high levels of malnutrition, morbidity, and mortality. Data from the 2018 ZDHS relating to malaria are presented in Chapter 12.

#### Treatment of fever

Children with fever for whom advice or treatment was sought.

**Sample:** Children under age 5 with fever in the 2 weeks before the survey

Sixteen percent of children under age 5 had a fever in the 2 weeks preceding the survey. The prevalence of fever among children is highest in Luapula (30%) and lowest in Lusaka (9%). Patterns of care seeking are similar to those for ARI symptoms: 77% of children were taken for advice or treatment, and 48% were taken for advice or treatment the same or next day. One-third (34%) of children with a fever received antibiotics (**Table 10.7**).

## 10.5 DIARRHOEAL DISEASE

### 10.5.1 Prevalence of Diarrhoea and Treatment-seeking Behaviour

Mothers reported that 15% of children under age 5 had a diarrhoeal episode in the 2 weeks before the survey. Advice or treatment was sought for 69% of these children, and 62% were taken for advice or treatment within 2 days of the onset of the diarrhoea (**Table 10.8**).

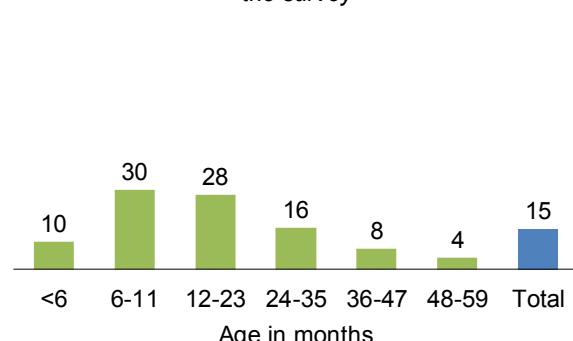
Ninety-three percent of children with diarrhoea are taken to public sector health facilities for advice or treatment, while only 6% are taken to private sector facilities (**Table 10.9**). The most common source of advice or treatment is a government health centre (67%), followed by a government health post (18%).

#### Patterns by background characteristics

- The prevalence of diarrhoea peaks among children age 6-23 months (28%-30%). This corresponds to the time when children start losing protection from maternal antibodies through breastfeeding, begin to walk, and are at increased risk of becoming ill as a result of environmental contaminants (**Table 10.8** and **Figure 10.4**).

**Figure 10.4** Diarrhoea prevalence by age

Percentage of children under age 5 who had diarrhoea in the 2 weeks before the survey



- The prevalence of diarrhoea is slightly higher among children in households with an unimproved drinking water source (17%) than among those in households with an improved drinking water source (14%). The prevalence is also slightly higher among children whose households engage in open defecation (17%) or use an unimproved facility (16%) than among those in households who use improved toilet facilities (14%).
- By province, the prevalence of diarrhoea among children is highest in Western (23%) and lowest in Central (11%). Children with diarrhoea in Luapula are most likely to be taken for treatment (80%); children from Lusaka are least likely to be taken for treatment (61%).
- Children from the highest wealth quintile are least likely to have diarrhoea (13%); however, they are also least likely to be taken for advice or treatment within 2 days of the onset of diarrhoea (55%).

### 10.5.2 Feeding Practices

#### Appropriate feeding practices

Children with diarrhoea are given more liquids than usual, and as much food or more than usual.

**Sample:** Children under age 5 with diarrhoea in the 2 weeks before the survey

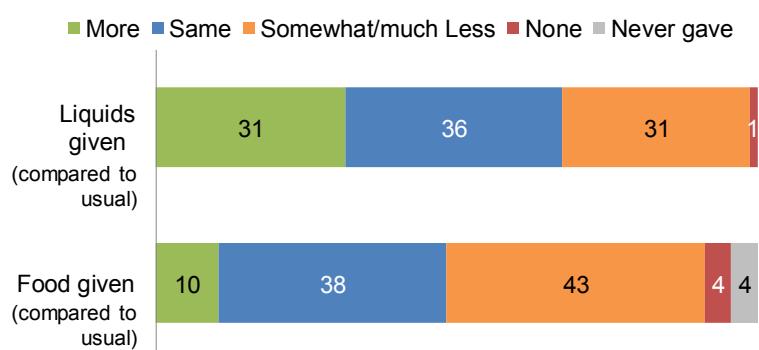
To reduce dehydration and minimise the effects of diarrhoea on nutritional status, mothers are encouraged to continue normal feeding or increase feeding of children with diarrhoea and to increase the amount of fluids given.

Only 31% of children under age 5 with diarrhoea in the 2 weeks before the survey were given more liquids than usual, as recommended. Thirty-six percent received the same amount of liquids. It is of concern that 20% of children were given somewhat less fluid than usual, and 11% were given much less than usual (**Figure 10.5**). Children who were breastfeeding were more likely than nonbreastfeeding children to receive more or the same amount of fluid as usual (71% versus 63%) (**Table 10.10**).

Less than half (48%) of children with diarrhoea were fed according to the recommended practice of giving the same amount of food or more food than usual. Forty-three percent of children were given much less or somewhat less food than usual, while 4% received no food during the diarrhoea episode (**Figure 10.5**).

**Figure 10.5 Feeding practices during diarrhoea**

*Percentage of children under age 5 with diarrhoea in the 2 weeks before the survey*



### 10.5.3 Oral Rehydration Therapy and Other Treatments

Severe dehydration may lead to death if body fluids and salts are not replenished. As noted, all children with diarrhoea should receive increased fluids and continued feeding; they should also be given oral zinc. Oral rehydration therapy (ORT) is the most commonly used and most simple therapy for treating diarrhoea. Depending on the severity, treatment may involve administration of antibiotics, oral rehydration therapy, and intravenous solutions. Zinc supplementation helps reduce the severity, frequency, and duration of diarrhoea episodes. Antimotility drugs are also sometimes given; they are not recommended, however, as they are considered contraindicated in children.

### Oral rehydration therapy

Children with diarrhoea are given increased fluids, or a fluid made from a special packet of oral rehydration salts (ORS), or government-recommended homemade fluids (RHF).

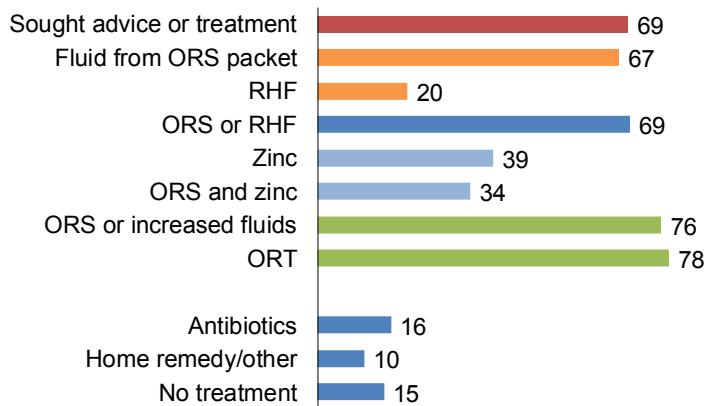
**Sample:** Children under age 5 with diarrhoea in the 2 weeks before the survey

Seventy-eight percent of children under age 5 with diarrhoea in the 2 weeks prior to the survey received some form of ORT. Two in five children (39%) received zinc, one in three (34%) received a combination of ORS and zinc, and 16% were given antibiotics. Ten percent of children received some form of home remedy, while 15% did not receive any treatment at all (**Table 10.11** and **Figure 10.6**).

Mothers' knowledge of ORS packets as a treatment for diarrhoea is universal (98%) (**Table 10.12**).

**Figure 10.6 Treatment of diarrhoea**

Percentage of children under age 5 with diarrhoea in the 2 weeks before the survey



**Trends:** The percentage of children under age 5 with diarrhoea who were given ORT has increased over time, from 67% in 2001-02 to 78% in 2018. The percentage of children not receiving any treatment decreased slightly between 1992 and 2018, from 19% to 15%.

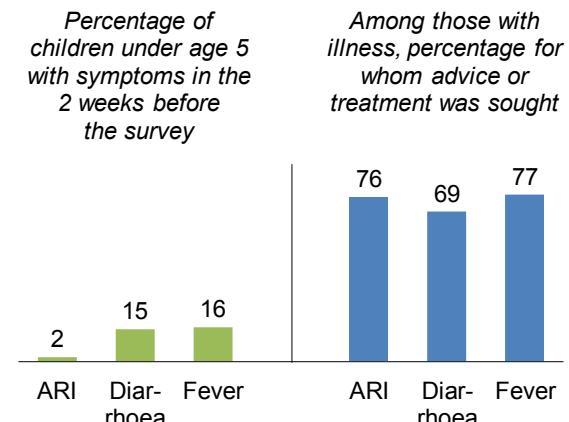
### Patterns by background characteristics

- Urban children are more likely than rural children to be given zinc (42% versus 37%), ORS and zinc (39% versus 31%), and continued feeding and ORT (67% versus 52%) (**Table 10.11**).

## 10.6 TREATMENT OF CHILDHOOD ILLNESS

During the 2 weeks preceding the survey, fever (16%) and diarrhoea (15%) were much more common than ARI symptoms (2%). However, children with ARI symptoms (76%) or a fever (77%) were more likely to be taken for advice or treatment than children with diarrhoea (69%) (**Figure 10.7**).

**Figure 10.7 Prevalence and treatment of childhood illness**



## 10.7 DISPOSAL OF CHILDREN'S STOOLS

### Appropriate disposal of children's stools

The child's last stools were put or rinsed into a toilet or latrine, buried, or the child used a toilet or latrine.

**Sample:** Youngest child under age 2 living with the mother

Proper disposal of children's faeces is important to prevent the spread of disease. Seventy-nine percent of children had their last stool disposed of appropriately (the children used a toilet, their stool was rinsed or put in a toilet or latrine, or the stool was buried) (**Table 10.13**).

### Patterns by background characteristics

- Children's stools are less likely to be disposed of safely in households that engage in open defecation (55%) than in households with either an improved or unimproved sanitation facility (82% each).
- Eighty-six percent of children in urban areas have their stools disposed of appropriately, as compared with 75% of children in rural areas.
- By province, the percentage of children whose last stool was disposed of safely ranges from 70% in Eastern and Western to 90% in North Western (**Table 10.13**).

### LIST OF TABLES

For more information on low birth weight, vaccinations, childhood illness, and disposal of children's stools, see the following tables:

- **Table 10.1** Child's size and weight at birth
- **Table 10.2** Vaccinations by source of information
- **Table 10.3** Vaccinations by background characteristics
- **Table 10.4** Possession and observation of vaccination cards, according to background characteristics
- **Table 10.5** Prevalence and treatment of symptoms of ARI
- **Table 10.6** Source of advice or treatment for children with symptoms of ARI
- **Table 10.7** Prevalence and treatment of fever
- **Table 10.8** Prevalence and treatment of diarrhoea
- **Table 10.9** Source of advice or treatment for children with diarrhoea
- **Table 10.10** Feeding practices during diarrhoea
- **Table 10.11** Oral rehydration therapy, zinc, and other treatments for diarrhoea
- **Table 10.12** Knowledge of ORS packets
- **Table 10.13** Disposal of children's stools

**Table 10.1 Child's size and weight at birth**

Percent distribution of live births in the 5 years preceding the survey by mother's estimate of baby's size at birth, percentage of live births in the 5 years preceding the survey that have a reported birth weight, and among live births in the 5 years preceding the survey with a reported birth weight, percentage less than 2.5 kg, according to background characteristics, Zambia DHS 2018

| Background characteristic      | Percent distribution of births by size of baby at birth |                      |                   |            |       | Percentage of births that have a reported birth weight <sup>1</sup> | Among births with a reported birth weight <sup>1</sup> |                             |                  |
|--------------------------------|---|----------------------|-------------------|------------|-------|---|--|-----------------------------|------------------|
|                                | Very small  | Smaller than average | Average or larger | Don't know | Total |   | Number of births                                       | Percentage less than 2.5 kg | Number of births |
| <b>Mother's age at birth</b>   |   |                      |                   |            |       |   |  |                             |                  |
| <20                            | 2.9   | 12.9                 | 81.5              | 2.7        | 100.0 | 82.8  | 2,022  | 11.6                        | 1,673            |
| 20-34                          | 2.0   | 8.5                  | 87.4              | 2.1        | 100.0 | 80.2  | 6,430  | 7.7                         | 5,159            |
| 35-49                          | 2.1   | 7.3                  | 87.1              | 3.5        | 100.0 | 76.6  | 1,389  | 7.6                         | 1,065            |
| <b>Birth order</b>             |   |                      |                   |            |       |   |  |                             |                  |
| 1                              | 2.7   | 12.9                 | 82.5              | 1.9        | 100.0 | 86.8  | 2,520  | 11.6                        | 2,188            |
| 2-3                            | 2.0   | 8.0                  | 87.7              | 2.2        | 100.0 | 81.7  | 3,382  | 8.3                         | 2,762            |
| 4-5                            | 1.8   | 7.5                  | 88.0              | 2.7        | 100.0 | 76.4  | 2,112  | 5.7                         | 1,614            |
| 6+                             | 2.3   | 8.2                  | 86.1              | 3.4        | 100.0 | 72.9  | 1,827  | 7.4                         | 1,332            |
| <b>Mother's smoking status</b> |   |                      |                   |            |       |   |  |                             |                  |
| Smokes cigarettes/tobacco      | 2.9   | 16.2                 | 81.0              | 0.0        | 100.0 | 65.1  | 76   | 14.7                        | 49               |
| Does not smoke                 | 2.2   | 9.1                  | 86.2              | 2.5        | 100.0 | 80.4  | 9,765  | 8.5                         | 7,847            |
| <b>Residence</b>               |   |                      |                   |            |       |   |  |                             |                  |
| Urban                          | 1.8   | 8.2                  | 89.2              | 0.8        | 100.0 | 94.0  | 3,489  | 8.6                         | 3,278            |
| Rural                          | 2.4   | 9.7                  | 84.5              | 3.4        | 100.0 | 72.7  | 6,352  | 8.5                         | 4,619            |
| <b>Province</b>                |   |                      |                   |            |       |   |  |                             |                  |
| Central                        | 4.1   | 6.5                  | 86.3              | 3.1        | 100.0 | 70.5  | 855  | 9.2                         | 603              |
| Copperbelt                     | 1.2   | 7.7                  | 89.3              | 1.9        | 100.0 | 92.0  | 1,209  | 7.7                         | 1,112            |
| Eastern                        | 1.2   | 12.5                 | 82.0              | 4.3        | 100.0 | 84.0  | 1,321  | 9.1                         | 1,109            |
| Luapula                        | 0.8   | 10.3                 | 82.7              | 6.2        | 100.0 | 80.4  | 950  | 8.8                         | 763              |
| Lusaka                         | 1.6   | 6.9                  | 90.0              | 1.5        | 100.0 | 93.3  | 1,532  | 8.9                         | 1,430            |
| Muchinga                       | 3.5   | 6.7                  | 89.5              | 0.3        | 100.0 | 66.7  | 605  | 10.3                        | 404              |
| Northern                       | 2.7   | 3.7                  | 93.2              | 0.4        | 100.0 | 61.2  | 890  | 5.8                         | 544              |
| North Western                  | 1.2   | 5.8                  | 90.2              | 2.8        | 100.0 | 83.8  | 531  | 7.4                         | 445              |
| Southern                       | 2.0   | 16.0                 | 80.0              | 1.9        | 100.0 | 80.3  | 1,308  | 9.1                         | 1,050            |
| Western                        | 6.5   | 11.5                 | 80.5              | 1.5        | 100.0 | 68.2  | 641  | 8.3                         | 437              |
| <b>Mother's education</b>      |   |                      |                   |            |       |   |  |                             |                  |
| No education                   | 2.3   | 10.6                 | 81.3              | 5.8        | 100.0 | 56.9  | 996  | 9.2                         | 567              |
| Primary                        | 2.2   | 9.4                  | 85.4              | 3.0        | 100.0 | 75.5  | 5,008  | 9.1                         | 3,782            |
| Secondary                      | 2.1   | 9.1                  | 87.8              | 1.0        | 100.0 | 91.8  | 3,448  | 8.0                         | 3,166            |
| Higher                         | 2.8   | 3.8                  | 93.3              | 0.2        | 100.0 | 98.3  | 389  | 6.3                         | 382              |
| <b>Wealth quintile</b>         |   |                      |                   |            |       |   |  |                             |                  |
| Lowest                         | 3.0   | 9.3                  | 83.8              | 3.8        | 100.0 | 63.6  | 2,466  | 9.1                         | 1,569            |
| Second                         | 1.4   | 10.3                 | 84.5              | 3.8        | 100.0 | 74.8  | 2,168  | 8.0                         | 1,622            |
| Middle                         | 2.6   | 10.5                 | 84.7              | 2.2        | 100.0 | 83.5  | 1,823  | 9.6                         | 1,521            |
| Fourth                         | 1.8   | 8.5                  | 88.6              | 1.1        | 100.0 | 91.7  | 1,840  | 8.6                         | 1,688            |
| Highest                        | 2.0   | 6.7                  | 90.9              | 0.4        | 100.0 | 96.9  | 1,545  | 7.3                         | 1,497            |
| Total                          | 2.2   | 9.2                  | 86.2              | 2.5        | 100.0 | 80.2  | 9,841  | 8.5                         | 7,897            |

<sup>1</sup> Based on either a written record or the mother's recall

**Table 10.2 Vaccinations by source of information**

Percentage of children age 12-23 months and children age 24-35 months who received specific vaccines at any time before the survey, by source of information (vaccination card or mother's report), and percentage who received specific vaccines by the appropriate age, Zambia DHS 2018

| Vaccine   | Children age 12-23 months                              |                 |               |  | Children age 24-35 months                              |                 |               |  |
|---|--|-----------------|---------------|--|--|-----------------|---------------|--|
|   | Vaccinated at any time before the survey according to: |                 |               | Vaccinated by appropriate age <sup>2,3</sup> | Vaccinated at any time before the survey according to: |                 |               | Vaccinated by appropriate age <sup>3,4</sup> |
|   | Vaccination card <sup>1</sup>                          | Mother's report | Either source |  | Vaccination card <sup>1</sup>                          | Mother's report | Either source |  |
| <b>BCG</b>  | 75.9   | 21.6            | 97.5          | 97.0   | 66.6   | 30.7            | 97.3          | 96.1   |
| <b>DPT-HepB-Hib</b>                                 |  |                 |               |  |  |                 |               |  |
| 1   | 76.4   | 21.5            | 97.9          | 97.6   | 67.3   | 30.2            | 97.5          | 97.0   |
| 2   | 75.8   | 20.1            | 95.9          | 95.4   | 67.0   | 28.7            | 95.7          | 94.5   |
| 3   | 73.8   | 18.3            | 92.1          | 91.4   | 64.8   | 26.1            | 90.9          | 88.7   |
| <b>Polio</b>  |  |                 |               |  |  |                 |               |  |
| 0 (birth dose)                                      | 49.4   | 17.0            | 66.4          | 66.4   | 42.9   | 24.4            | 67.3          | 67.1   |
| 1   | 76.4   | 20.1            | 96.5          | 96.2   | 67.1   | 28.8            | 95.9          | 95.5   |
| 2   | 75.5   | 17.8            | 93.3          | 92.9   | 66.5   | 25.9            | 92.4          | 91.4   |
| 3   | 72.8   | 8.4             | 81.2          | 80.6   | 63.6   | 13.6            | 77.2          | 75.3   |
| <b>Pneumococcal</b>                                 |  |                 |               |  |  |                 |               |  |
| 1   | 76.3   | 21.3            | 97.6          | 97.4   | 66.8   | 29.7            | 96.5          | 95.8   |
| 2   | 75.6   | 19.9            | 95.5          | 95.0   | 66.2   | 27.9            | 94.2          | 93.1   |
| 3   | 72.0   | 17.8            | 89.8          | 89.2   | 62.8   | 24.9            | 87.7          | 86.1   |
| <b>Rotavirus</b>                                    |  |                 |               |  |  |                 |               |  |
| 1   | 75.4   | 20.1            | 95.4          | 95.2   | 65.5   | 27.8            | 93.3          | 92.3   |
| 2   | 72.7   | 17.9            | 90.6          | 89.6   | 62.9   | 25.8            | 88.7          | 85.8   |
| <b>Measles and rubella</b>                          |  |                 |               |  |  |                 |               |  |
| 1   | 71.7   | 19.2            | 90.9          | 85.6   | 64.2   | 28.9            | 93.1          | 82.6   |
| 2   | na   | na              | na            | na   | 45.4   | 18.4            | 63.8          | 62.0   |
| <b>All basic vaccinations<sup>5</sup></b>           | 68.0   | 7.0             | 75.0          | 70.3   | 60.4   | 11.9            | 72.3          | 62.8   |
| <b>All age-appropriate vaccinations<sup>6</sup></b> | 42.1   | 3.9             | 46.0          | 42.9   | 27.6   | 5.6             | 33.1          | 28.4   |
| <b>No vaccinations</b>                              | 0.1  | 1.3             | 1.3           | na   | 0.1  | 1.4             | 1.5           | na   |
| Number of children                                  | 1,450  | 440             | 1,891         | 1,891  | 1,258  | 604             | 1,862         | 1,862  |

na = Not applicable

BCG = Bacille Calmette-Guérin

DPT = Diphtheria-pertussis-tetanus

HepB = Hepatitis B

Hib = *Haemophilus influenzae* type b

<sup>1</sup> Vaccination card, booklet, or other home-based record

<sup>2</sup> Received by age 12 months

<sup>3</sup> For children whose vaccination information is based on the mother's report, date of vaccination is not collected. The proportions of vaccinations given during the first and second years of life are assumed to be the same as for children with a written record of vaccination.

<sup>4</sup> Received by age 12 months for all vaccines except measles and rubella (MR) 2, which should be received by age 24 months

<sup>5</sup> BCG, three doses of DPT-HepB-Hib, three doses of oral polio vaccine (excluding polio vaccine given at birth), and one dose of MR vaccine

<sup>6</sup> For children age 12-23 months: BCG, three doses of DPT-HepB-Hib, four doses of oral polio vaccine, three doses of pneumococcal vaccine, two doses of rotavirus vaccine, and one dose of MR vaccine. For children age 24-35 months, all of the just-mentioned vaccinations plus a second dose of MR.

**Table 10.3 Vaccinations by background characteristics**

Percentage of children age 12–23 months and children age 24–35 months who received specific vaccines at any time before the survey (according to a vaccination card or the mother's report), percentage with all basic vaccinations, and percentage with all age-appropriate vaccinations, according to background characteristics, Zambia DHS 2018

| Background characteristic           | Children age 12–23 months: |       |       |                    |                |      |              |      |      |           |      |      | Children age 24–35 months: |      |      |   |      |      |                           |       |       |   |       |       |      |      |     |
|-------------------------------------|----------------------------|-------|-------|--------------------|----------------|------|--------------|------|------|-----------|------|------|----------------------------|------|------|---|------|------|---------------------------|-------|-------|---|-------|-------|------|------|-----|
|                                     | DPT-HepB-Hib <sup>1</sup>  |       |       | Polio <sup>2</sup> |                |      | Pneumococcal |      |      | Rotavirus |      |      | Measles and rubella (MR1)  |      |      | All age-appropriate vaccinations <sup>3</sup> |      |      | Measles and rubella (MR2) |       |       | All age-appropriate vaccinations <sup>4</sup> |       |       |      |      |     |
|                                     | BCG                        | 1     | 2     | 3                  | 0 (birth dose) | 1    | 2            | 3    | 1    | 2         | 3    | 1    | 2                          | 3    | 1    | 2   | 3    | 1    | 2                         | 3     | 1     | 2   | 3     | 1     | 2    |      |     |
| <b>Sex</b>                          |                            |       |       |                    |                |      |              |      |      |           |      |      |                            |      |      |   |      |      |                           |       |       |   |       |       |      |      |     |
| Male                                | 97.4                       | 98.2  | 96.5  | 91.6               | 66.1           | 96.5 | 92.6         | 66.8 | 93.1 | 81.7      | 97.8 | 95.5 | 89.7                       | 95.7 | 91.0 | 91.7  | 46.9 | 1.1  | 96.1                      | 66.5  | 34.1  | 907   | 955   |       |      |      |     |
| Female                              | 97.5                       | 97.6  | 95.4  | 92.1               | 72.6           | 95.6 | 92.2         | 70.2 | 95.0 | 80.3      | 97.3 | 95.6 | 90.1                       | 95.3 | 91.4 | 93.4  | 52.0 | 0.9  | 469                       | 68.0  | 37.3  | 450   |       |       |      |      |     |
| <b>Birth order</b>                  |                            |       |       |                    |                |      |              |      |      |           |      |      |                            |      |      |   |      |      |                           |       |       |   |       |       |      |      |     |
| 1                                   | 97.8                       | 98.1  | 95.9  | 92.1               | 72.6           | 95.6 | 92.2         | 70.7 | 95.0 | 82.8      | 98.3 | 96.4 | 92.4                       | 96.4 | 92.8 | 92.7  | 50.4 | 1.1  | 645                       | 62.5  | 32.8  | 653   |       |       |      |      |     |
| 2–3                                 | 98.5                       | 98.5  | 96.6  | 94.1               | 70.2           | 95.7 | 92.3         | 63.2 | 95.7 | 82.4      | 98.1 | 95.6 | 88.3                       | 95.8 | 89.0 | 88.4  | 75.2 | 42.3 | 1.3                       | 405   | 65.8  | 31.8  | 413   |       |      |      |     |
| 4–5                                 | 97.0                       | 98.1  | 96.5  | 92.1               | 63.2           | 95.9 | 92.3         | 55.9 | 96.3 | 82.3      | 96.3 | 93.4 | 86.7                       | 93.6 | 87.7 | 87.4  | 70.4 | 34.8 | 2.4                       | 372   | 58.4  | 29.9  | 345   |       |      |      |     |
| 6+                                  | 95.8                       | 96.3  | 94.1  | 88.7               | 64.4           | 99.5 | 98.4         | 73.2 | 86.5 | 76.4      | 94.9 | 99.5 | 98.5                       | 93.9 | 98.3 | 94.8  | 93.5 | 88.6 | 54.8                      | 0.1   | 1,450 | 67.2  | 40.8  | 1,258 |      |      |     |
| <b>Vaccination card<sup>6</sup></b> |                            |       |       |                    |                |      |              |      |      |           |      |      |                            |      |      |   |      |      |                           |       |       |   |       |       |      |      |     |
| Seen                                | 98.9                       | 99.6  | 98.8  | 96.2               | 94.7           | 85.5 | 96.8         | 92.1 | 90.7 | 80.6      | 97.1 | 94.7 | 88.9                       | 91.5 | 93.9 | 98.3  | 94.8 | 92.6 | 30.2                      | 16.9  | 5.4   | 440   | 56.8  | 17.2  | 604  |      |     |
| Not seen/no card                    | 92.6                       | 92.3  | 86.4  | 78.6               | 73.2           | 86.5 | 86.5         | 76.4 | 36.0 | 91.5      | 85.3 | 76.3 | 91.5                       | 85.3 | 86.2 | 86.2  | 76.7 | 82.6 | 30.2                      | 16.9  | 5.4   | 440   | 56.8  | 17.2  | 604  |      |     |
| <b>Residence</b>                    |                            |       |       |                    |                |      |              |      |      |           |      |      |                            |      |      |   |      |      |                           |       |       |   |       |       |      |      |     |
| Urban                               | 99.6                       | 98.5  | 97.0  | 90.7               | 56.1           | 96.4 | 92.6         | 82.4 | 97.1 | 80.6      | 97.1 | 94.7 | 88.9                       | 91.5 | 97.0 | 91.8  | 77.0 | 60.1 | 0.2                       | 666   | 64.1  | 43.4  | 658   |       |      |      |     |
| Rural                               | 96.3                       | 97.6  | 95.3  | 90.7               | 67.6           | 93.5 | 97.6         | 95.5 | 90.3 | 89.7      | 99.3 | 97.9 | 95.8                       | 98.5 | 99.3 | 98.5  | 97.4 | 92.1 | 91.6                      | 78.8  | 48.3  | 27.5  | 156   |       |      |      |     |
| <b>Province</b>                     |                            |       |       |                    |                |      |              |      |      |           |      |      |                            |      |      |   |      |      |                           |       |       |   |       |       |      |      |     |
| Central                             | 98.9                       | 99.3  | 99.0  | 93.5               | 67.6           | 99.3 | 97.9         | 85.8 | 99.3 | 85.8      | 99.3 | 97.9 | 95.7                       | 91.4 | 98.2 | 95.7  | 93.3 | 92.2 | 82.6                      | 69.1  | 0.0   | 241   | 68.5  | 49.8  | 215  |      |     |
| Copperbelt                          | 98.9                       | 98.2  | 96.6  | 95.6               | 87.9           | 96.8 | 94.3         | 94.3 | 98.3 | 94.6      | 98.7 | 97.1 | 97.1                       | 98.0 | 98.0 | 98.0  | 98.0 | 92.1 | 42.4                      | 1.2   | 274   | 70.7  | 35.5  | 232   |      |      |     |
| Eastern                             | 97.1                       | 98.5  | 97.0  | 94.4               | 55.5           | 95.5 | 95.4         | 70.5 | 98.6 | 95.3      | 97.9 | 96.3 | 96.3                       | 97.9 | 97.9 | 97.9  | 97.9 | 97.9 | 42.5                      | 1.0   | 174   | 66.2  | 30.8  | 176   |      |      |     |
| Luapula                             | 97.3                       | 98.5  | 97.5  | 91.3               | 70.5           | 95.7 | 93.1         | 76.6 | 90.6 | 95.7      | 97.8 | 99.3 | 97.8                       | 98.1 | 98.0 | 98.0  | 98.0 | 97.9 | 58.4                      | 0.3   | 267   | 68.7  | 46.9  | 304   |      |      |     |
| Lusaka                              | 99.7                       | 98.2  | 96.7  | 94.6               | 86.8           | 93.7 | 91.2         | 88.4 | 92.3 | 86.8      | 91.1 | 96.1 | 96.1                       | 96.3 | 96.3 | 96.3  | 96.3 | 88.4 | 85.4                      | 4.3   | 113   | 59.9  | 27.6  | 123   |      |      |     |
| Muchinga                            | 93.4                       | 95.2  | 92.3  | 86.8               | 51.2           | 93.7 | 93.7         | 88.4 | 92.4 | 81.7      | 95.7 | 92.8 | 85.8                       | 94.4 | 94.4 | 94.4  | 94.4 | 94.4 | 76.2                      | 43.0  | 3.0   | 155   | 51.5  | 24.6  | 176  |      |     |
| Northern                            | 96.2                       | 93.2  | 93.2  | 88.7               | 53.8           | 97.0 | 92.4         | 81.7 | 90.6 | 66.0      | 91.7 | 81.3 | 96.3                       | 92.9 | 88.3 | 92.6  | 90.8 | 87.2 | 74.7                      | 43.7  | 1.9   | 109   | 59.2  | 23.8  | 102  |      |     |
| North Western                       | 98.1                       | 98.1  | 94.7  | 90.6               | 66.0           | 95.0 | 93.9         | 79.0 | 98.8 | 96.8      | 90.9 | 97.4 | 91.4                       | 94.5 | 94.5 | 94.5  | 94.5 | 94.5 | 74.9                      | 29.4  | 0.8   | 257   | 57.6  | 26.7  | 263  |      |     |
| Southern                            | 98.0                       | 98.9  | 98.1  | 93.0               | 51.8           | 93.0 | 88.1         | 82.6 | 50.5 | 92.3      | 84.5 | 73.4 | 91.3                       | 87.9 | 82.2 | 83.4  | 83.4 | 78.1 | 86.8                      | 68.1  | 35.8  | 3.6   | 130   | 51.3  | 14.0 | 116  |     |
| Western                             | 92.4                       | 95.1  | 88.1  | 82.6               | 50.5           | 92.3 | 84.5         | 84.5 | 73.4 | 80.6      | 91.3 | 87.9 | 87.9                       | 91.3 | 91.3 | 91.3  | 91.3 | 82.2 | 82.2                      | 82.2  | 82.2  | 73  | 7.3   | 182   | 48.9 | 18.5 | 196 |
| <b>Mother's education</b>           |                            |       |       |                    |                |      |              |      |      |           |      |      |                            |      |      |   |      |      |                           |       |       |   |       |       |      |      |     |
| No education                        | 89.7                       | 92.1  | 89.2  | 83.2               | 47.6           | 90.7 | 87.9         | 75.2 | 91.3 | 80.7      | 97.7 | 94.5 | 88.8                       | 95.3 | 88.8 | 90.1  | 73.3 | 40.0 | 1.0                       | 966   | 60.7  | 29.3  | 952   |       |      |      |     |
| Primary                             | 97.4                       | 98.1  | 95.2  | 90.7               | 60.6           | 96.1 | 92.3         | 80.7 | 92.6 | 82.8      | 99.0 | 98.1 | 97.4                       | 97.2 | 94.4 | 94.4  | 94.4 | 94.4 | 55.5                      | 0.3   | 670   | 70.7  | 39.7  | 658   |      |      |     |
| Secondary                           | 99.4                       | 99.0  | 98.3  | 95.7               | 77.4           | 98.4 | 95.7         | 95.7 | 98.1 | 98.1      | 99.3 | 97.4 | 95.3                       | 98.5 | 98.5 | 98.5  | 98.5 | 98.5 | 74.5                      | 0.0   | 73    | 87.9  | 72.2  | 55    |      |      |     |
| Higher                              | 100.0                      | 100.0 | 100.0 | 99.1               | 90.6           | 99.1 | 99.1         | 99.1 | 99.1 | 99.1      | 99.1 | 99.1 | 99.1                       | 99.1 | 99.1 | 99.1  | 99.1 | 99.1 | 99.1                      | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |      |      |     |
| <b>Wealth quintile</b>              |                            |       |       |                    |                |      |              |      |      |           |      |      |                            |      |      |   |      |      |                           |       |       |   |       |       |      |      |     |
| Lowest                              | 94.7                       | 96.9  | 94.1  | 88.4               | 51.5           | 95.7 | 90.7         | 78.3 | 95.4 | 93.6      | 87.7 | 93.9 | 88.5                       | 88.5 | 88.5 | 88.5  | 71.6 | 35.5 | 2.5                       | 483   | 53.2  | 19.7  | 479   |       |      |      |     |
| Second                              | 97.3                       | 97.5  | 95.3  | 90.6               | 54.8           | 96.4 | 94.2         | 81.2 | 97.4 | 95.0      | 89.0 | 94.7 | 90.5                       | 91.0 | 91.0 | 91.0  | 74.7 | 35.7 | 2.1                       | 414   | 67.6  | 34.2  | 369   |       |      |      |     |
| Middle                              | 97.2                       | 98.2  | 96.4  | 93.0               | 65.0           | 96.8 | 93.3         | 84.5 | 98.4 | 95.5      | 88.8 | 94.6 | 87.7                       | 90.7 | 90.7 | 90.7  | 77.5 | 46.4 | 1.1                       | 342   | 65.3  | 28.7  | 355   |       |      |      |     |
| Fourth                              | 99.8                       | 98.4  | 98.4  | 94.6               | 81.4           | 98.1 | 95.6         | 83.9 | 98.4 | 97.7      | 94.3 | 97.7 | 94.3                       | 90.5 | 90.5 | 90.5  | 76.3 | 57.6 | 0.0                       | 348   | 64.5  | 38.7  | 375   |       |      |      |     |
| Highest                             | 99.6                       | 99.0  | 96.4  | 96.0               | 90.5           | 95.8 | 93.7         | 79.2 | 99.5 | 96.5      | 90.4 | 97.4 | 93.2                       | 95.6 | 95.6 | 95.6  | 77.3 | 62.9 | 0.1                       | 304   | 74.1  | 52.6  | 284   |       |      |      |     |
| Total                               | 97.5                       | 97.9  | 95.9  | 92.1               | 66.4           | 96.5 | 93.3         | 81.2 | 97.6 | 95.5      | 99.8 | 95.4 | 90.6                       | 90.9 | 90.9 | 90.9  | 75.0 | 46.0 | 1.3                       | 1,891 | 63.8  | 33.1  | 1,862 |       |      |      |     |

Note: Children are considered to have received the vaccine if it was either written on the child's vaccination card or reported by the mother. For children whose vaccination information is based on the mother's report, date of vaccination is not collected. The proportions of vaccinations given during the first and second years of life are assumed to be the same as for children with a written record of vaccination.

BCG = Bacille Calmette-Guérin

DPT = Diphtheria-pertussis-tetanus

HepB = Hepatitis B

Hib = *Haemophilus influenzae* type b

<sup>1</sup> DPT-HepB-Hib is sometimes referred to as pentavalent.

<sup>2</sup> Polio 0 is the polio vaccine given at birth.

<sup>3</sup> Basic vaccinations are defined as BCG, three doses of oral polio vaccine, two doses of pneumococcal vaccine, and one dose of MR vaccine.

<sup>4</sup> BCG, three doses of DPT-HepB-Hib, four doses of oral polio vaccine, three doses of pneumococcal vaccine, and one dose of MR vaccine.

<sup>5</sup> BCG, three doses of DPT-HepB-Hib, four doses of oral polio vaccine, three doses of pneumococcal vaccine, two doses of MR vaccine.

<sup>6</sup> Vaccination card, booklet, or other home-based record

**Table 10.4 Possession and observation of vaccination cards, according to background characteristics**

Percentage of children age 12-23 months and children age 24-35 months who ever had a vaccination card, and percentage with a vaccination card seen, according to background characteristics, Zambia DHS 2018

| Background characteristic | Children age 12-23 months                               |  |                    | Children age 24-35 months                               |  |                    |
|---------------------------|---|--|--------------------|---|--|--------------------|
|                           | Percentage who ever had a vaccination card <sup>1</sup> | Percentage with a vaccination card seen <sup>1</sup> | Number of children | Percentage who ever had a vaccination card <sup>1</sup> | Percentage with a vaccination card seen <sup>1</sup> | Number of children |
| <b>Sex</b>                |   |  |                    |   |  |                    |
| Male                      | 97.7  | 78.5   | 961                | 97.1  | 68.7   | 907                |
| Female                    | 97.2  | 74.9   | 930                | 97.2  | 66.5   | 955                |
| <b>Birth order</b>        |   |  |                    |   |  |                    |
| 1                         | 98.2  | 74.2   | 469                | 98.2  | 66.6   | 450                |
| 2-3                       | 97.4  | 79.6   | 645                | 98.3  | 67.4   | 653                |
| 4-5                       | 98.2  | 77.8   | 405                | 97.2  | 71.7   | 413                |
| 6+                        | 95.8  | 73.7   | 372                | 93.6  | 64.3   | 345                |
| <b>Residence</b>          |   |  |                    |   |  |                    |
| Urban                     | 98.6  | 79.2   | 666                | 98.6  | 68.2   | 658                |
| Rural                     | 96.7  | 75.4   | 1,225              | 96.3  | 67.2   | 1,204              |
| <b>Province</b>           |   |  |                    |   |  |                    |
| Central                   | 98.1  | 83.8   | 171                | 97.1  | 61.1   | 156                |
| Copperbelt                | 99.1  | 80.0   | 241                | 97.8  | 72.1   | 215                |
| Eastern                   | 98.4  | 78.1   | 274                | 99.0  | 71.2   | 232                |
| Luapula                   | 93.2  | 67.9   | 174                | 89.4  | 61.5   | 176                |
| Lusaka                    | 97.8  | 75.6   | 267                | 99.3  | 73.7   | 304                |
| Muchinga                  | 95.7  | 76.3   | 113                | 92.2  | 60.1   | 123                |
| Northern                  | 97.0  | 75.4   | 155                | 98.6  | 65.1   | 176                |
| North Western             | 94.5  | 76.8   | 109                | 98.1  | 72.8   | 102                |
| Southern                  | 99.7  | 79.1   | 257                | 98.8  | 64.5   | 263                |
| Western                   | 96.2  | 69.2   | 130                | 96.4  | 67.8   | 116                |
| <b>Mother's education</b> |   |  |                    |   |  |                    |
| No education              | 89.4  | 65.9   | 182                | 89.4  | 61.0   | 196                |
| Primary                   | 97.8  | 75.4   | 966                | 97.2  | 67.1   | 952                |
| Secondary                 | 98.7  | 81.7   | 670                | 99.2  | 69.6   | 658                |
| Higher                    | 100.0   | 74.9   | 73                 | 98.9  | 74.8   | 55                 |
| <b>Wealth quintile</b>    |   |  |                    |   |  |                    |
| Lowest                    | 95.5  | 74.2   | 483                | 93.8  | 62.4   | 479                |
| Second                    | 97.1  | 74.2   | 414                | 98.1  | 69.5   | 369                |
| Middle                    | 97.9  | 79.2   | 342                | 97.7  | 70.7   | 355                |
| Fourth                    | 98.7  | 78.9   | 348                | 97.9  | 68.2   | 375                |
| Highest                   | 98.7  | 78.9   | 304                | 99.8  | 69.0   | 284                |
| Total                     | 97.4  | 76.7   | 1,891              | 97.1  | 67.6   | 1,862              |

<sup>1</sup> Vaccination card, booklet, or other home-based record

**Table 10.5 Prevalence and treatment of symptoms of ARI**

Among children under age 5, percentage who had symptoms of acute respiratory infection (ARI) in the 2 weeks preceding the survey, and among children with symptoms of ARI in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, according to background characteristics, Zambia DHS 2018

| Background characteristic      | Among children under age 5:                  |                    | Among children under age 5 with symptoms of ARI:                |   |                    |
|--------------------------------|--|--------------------|---|---|--------------------|
|                                | Percentage with symptoms of ARI <sup>1</sup> | Number of children | Percentage for whom advice or treatment was sought <sup>2</sup> | Percentage for whom treatment was sought same or next day | Number of children |
| <b>Age in months</b>           |  |                    |   |   |                    |
| <6                             | 1.1  | 1,036              | *   | *   | 11                 |
| 6-11                           | 2.3  | 924                | *   | *   | 21                 |
| 12-23                          | 2.8  | 1,891              | (78.4)  | (39.8)  | 52                 |
| 24-35                          | 2.0  | 1,862              | (83.0)  | (57.1)  | 38                 |
| 36-47                          | 1.3  | 1,866              | (74.9)  | (47.5)  | 23                 |
| 48-59                          | 0.9  | 1,782              | *   | *   | 15                 |
| <b>Sex</b>                     |  |                    |   |   |                    |
| Male                           | 1.6  | 4,666              | 81.1  | 38.8  | 75                 |
| Female                         | 1.8  | 4,695              | 71.6  | 41.8  | 86                 |
| <b>Mother's smoking status</b> |  |                    |   |   |                    |
| Smokes cigarettes/tobacco      | 9.1  | 70                 | *   | *   | 6                  |
| Does not smoke                 | 1.7  | 9,291              | 76.2  | 40.7  | 155                |
| <b>Cooking fuel</b>            |  |                    |   |   |                    |
| Electricity                    | 0.8  | 646                | *   | *   | 5                  |
| Solar power                    | (0.0)  | 26                 | *   | *   | 0                  |
| Kerosene                       | *  | 0                  | *   | *   | 0                  |
| Coal/lignite                   | *  | 2                  | *   | *   | 0                  |
| Charcoal                       | 1.2  | 3,516              | (91.4)  | (47.5)  | 43                 |
| Wood                           | 2.2  | 5,169              | 69.1  | 36.9  | 113                |
| Animal dung                    | *  | 0                  | *   | *   | 0                  |
| Other                          | *  | 1                  | *   | *   | 0                  |
| <b>Residence</b>               |  |                    |   |   |                    |
| Urban                          | 1.2  | 3,307              | (88.9)  | (53.7)  | 39                 |
| Rural                          | 2.0  | 6,054              | 71.9  | 36.1  | 122                |
| <b>Province</b>                |  |                    |   |   |                    |
| Central                        | 1.5  | 819                | *   | *   | 12                 |
| Copperbelt                     | 0.9  | 1,166              | *   | *   | 10                 |
| Eastern                        | 1.4  | 1,266              | *   | *   | 17                 |
| Luapula                        | 2.3  | 877                | *   | *   | 21                 |
| Lusaka                         | 0.3  | 1,446              | *   | *   | 5                  |
| Muchinga                       | 0.8  | 569                | *   | *   | 5                  |
| Northern                       | 3.8  | 846                | (56.9)  | (27.8)  | 32                 |
| North Western                  | 0.0  | 517                | *   | *   | 0                  |
| Southern                       | 3.2  | 1,242              | *   | *   | 39                 |
| Western                        | 3.3  | 613                | (84.2)  | (33.9)  | 20                 |
| <b>Mother's education</b>      |  |                    |   |   |                    |
| No education                   | 2.1  | 951                | *   | *   | 20                 |
| Primary                        | 1.6  | 4,763              | 64.4  | 26.5  | 78                 |
| Secondary                      | 1.8  | 3,276              | (87.7)  | (52.7)  | 59                 |
| Higher                         | 1.2  | 371                | *   | *   | 5                  |
| <b>Wealth quintile</b>         |  |                    |   |   |                    |
| Lowest                         | 2.4  | 2,343              | 69.4  | 35.5  | 57                 |
| Second                         | 1.9  | 2,079              | (79.7)  | (41.0)  | 40                 |
| Middle                         | 1.2  | 1,735              | (59.7)  | (28.9)  | 21                 |
| Fourth                         | 1.4  | 1,733              | *   | *   | 25                 |
| Highest                        | 1.2  | 1,469              | *   | *   | 18                 |
| Total                          | 1.7  | 9,361              | 76.0  | 40.4  | 161                |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.

<sup>2</sup> Includes advice or treatment from the public and private health sectors, pharmacies, shops, markets, and itinerant drug sellers. Excludes advice or treatment from a traditional practitioner.

**Table 10.6 Source of advice or treatment for children with symptoms of ARI**

Percentage of children under age 5 with symptoms of ARI in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources, and among children under age 5 with symptoms of ARI in the 2 weeks preceding the survey for whom advice or treatment was sought, percentage for whom advice or treatment was sought from specific sources, Zambia DHS 2018

| Source                       | Percentage for whom advice or treatment was sought from each source: |  |
|------------------------------|--|--|
|                              | Among children with symptoms of ARI <sup>1</sup>                     | Among children with symptoms of ARI for whom advice or treatment was sought <sup>1</sup> |
| <b>Public sector</b>         | <b>67.3</b>  | <b>88.5</b>  |
| Government hospital          | 5.7  | 7.5  |
| Government health centre     | 50.1   | 65.9   |
| Government health post       | 10.4   | 13.7   |
| Fieldworker/CHW              | 1.1  | 1.4  |
| <b>Private sector</b>        | <b>8.4</b>   | <b>11.0</b>  |
| Private hospital/clinic      | 1.4  | 1.8  |
| Mission hospital/clinic      | 0.4  | 0.5  |
| Other private medical sector | 6.6  | 8.7  |
| <b>Other private sector</b>  | <b>0.8</b>   | <b>1.1</b>   |
| Shop                         | 0.8  | 1.1  |
| Number of children           | 161  | 122  |

CHW = Community health worker

<sup>1</sup> Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.

**Table 10.7 Prevalence and treatment of fever**

Among children under age 5, percentage who had a fever in the 2 weeks preceding the survey, and among children with a fever in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought and percentage who received antibiotics as treatment, according to background characteristics, Zambia DHS 2018

| Background characteristic | Among children under age 5: |                    | Among children under age 5 with fever:                          |   |                                      |                               |
|---------------------------|-----------------------------|--------------------|---|---|--------------------------------------|-------------------------------|
|                           | Percentage with fever       | Number of children | Percentage for whom advice or treatment was sought <sup>1</sup> | Percentage for whom treatment was sought same or next day | Percentage who took antibiotic drugs | Number of children with fever |
| <b>Age in months</b>      |                             |                    |   |   |                                      |                               |
| <6                        | 10.3                        | 1,036              | 76.7  | 49.2  | 36.0                                 | 106                           |
| 6-11                      | 24.9                        | 924                | 80.5  | 48.3  | 42.8                                 | 230                           |
| 12-23                     | 20.4                        | 1,891              | 74.5  | 40.0  | 36.4                                 | 385                           |
| 24-35                     | 17.9                        | 1,862              | 80.6  | 51.8  | 30.2                                 | 333                           |
| 36-47                     | 12.9                        | 1,866              | 76.4  | 53.4  | 38.6                                 | 240                           |
| 48-59                     | 10.3                        | 1,782              | 73.8  | 46.2  | 18.1                                 | 184                           |
| <b>Sex</b>                |                             |                    |   |   |                                      |                               |
| Male                      | 16.4                        | 4,666              | 79.4  | 51.1  | 35.7                                 | 766                           |
| Female                    | 15.2                        | 4,695              | 74.9  | 43.8  | 32.2                                 | 712                           |
| <b>Residence</b>          |                             |                    |   |   |                                      |                               |
| Urban                     | 12.9                        | 3,307              | 75.9  | 44.6  | 50.0                                 | 426                           |
| Rural                     | 17.4                        | 6,054              | 77.7  | 48.8  | 27.6                                 | 1,052                         |
| <b>Province</b>           |                             |                    |   |   |                                      |                               |
| Central                   | 11.0                        | 819                | 77.6  | 44.7  | 40.5                                 | 90                            |
| Copperbelt                | 15.1                        | 1,166              | 72.0  | 37.4  | 41.9                                 | 177                           |
| Eastern                   | 20.2                        | 1,266              | 84.9  | 59.6  | 44.9                                 | 256                           |
| Luapula                   | 30.1                        | 877                | 85.5  | 46.3  | 15.1                                 | 264                           |
| Lusaka                    | 9.0                         | 1,446              | 71.8  | 46.7  | 42.4                                 | 130                           |
| Muchinga                  | 14.2                        | 569                | 79.3  | 59.7  | 33.2                                 | 81                            |
| Northern                  | 17.8                        | 846                | 66.9  | 45.8  | 23.8                                 | 150                           |
| North Western             | 14.6                        | 517                | 83.4  | 59.4  | 24.3                                 | 76                            |
| Southern                  | 10.0                        | 1,242              | 71.3  | 37.2  | 36.8                                 | 124                           |
| Western                   | 21.3                        | 613                | 70.0  | 40.9  | 43.0                                 | 131                           |
| <b>Mother's education</b> |                             |                    |   |   |                                      |                               |
| No education              | 17.2                        | 951                | 77.5  | 50.7  | 25.1                                 | 164                           |
| Primary                   | 16.9                        | 4,763              | 75.0  | 45.7  | 29.6                                 | 806                           |
| Secondary                 | 13.9                        | 3,276              | 81.3  | 48.5  | 42.8                                 | 456                           |
| Higher                    | 14.2                        | 371                | 74.2  | 59.3  | 54.4                                 | 53                            |
| <b>Wealth quintile</b>    |                             |                    |   |   |                                      |                               |
| Lowest                    | 20.3                        | 2,343              | 73.6  | 45.5  | 27.7                                 | 476                           |
| Second                    | 17.9                        | 2,079              | 79.4  | 52.1  | 25.2                                 | 372                           |
| Middle                    | 12.8                        | 1,735              | 84.2  | 49.9  | 36.3                                 | 222                           |
| Fourth                    | 13.6                        | 1,733              | 75.4  | 41.8  | 48.8                                 | 236                           |
| Highest                   | 11.7                        | 1,469              | 75.7  | 48.5  | 47.4                                 | 172                           |
| Total                     | 15.8                        | 9,361              | 77.2  | 47.6  | 34.0                                 | 1,478                         |

<sup>1</sup> Includes advice or treatment from the public and private health sectors, pharmacies, shops, markets, and itinerant drug sellers. Excludes advice or treatment from a traditional practitioner.

**Table 10.8 Prevalence and treatment of diarrhoea**

Percentage of children under age 5 who had diarrhoea in the 2 weeks preceding the survey, and among children with diarrhoea in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought and percentage for whom advice or treatment was sought within 2 days, according to background characteristics, Zambia DHS 2018

| Background characteristic                   | Percentage with diarrhoea | Number of children | Among children under age 5 with diarrhoea:                      |  |                                   |
|---|---------------------------|--------------------|---|--|-----------------------------------|
|   |                           |                    | Percentage for whom advice or treatment was sought <sup>1</sup> | Percentage for whom advice or treatment was sought within 2 days | Number of children with diarrhoea |
| <b>Age in months</b>                        |                           |                    |   |  |                                   |
| <6  | 10.4                      | 1,036              | 50.9  | 37.6   | 108                               |
| 6-11  | 29.7                      | 924                | 73.7  | 65.9   | 275                               |
| 12-23                                       | 27.9                      | 1,891              | 76.5  | 67.6   | 528                               |
| 24-35                                       | 15.6                      | 1,862              | 62.9  | 57.0   | 291                               |
| 36-47                                       | 7.7                       | 1,866              | 64.2  | 59.1   | 144                               |
| 48-59                                       | 4.3                       | 1,782              | 64.0  | 59.7   | 77                                |
| <b>Sex</b>                                  |                           |                    |   |  |                                   |
| Male  | 15.4                      | 4,666              | 68.5  | 61.8   | 719                               |
| Female                                      | 15.0                      | 4,695              | 70.1  | 61.2   | 703                               |
| <b>Source of drinking water<sup>2</sup></b> |                           |                    |   |  |                                   |
| Improved                                    | 14.1                      | 6,352              | 68.0  | 61.7   | 898                               |
| Unimproved                                  | 17.4                      | 3,008              | 71.6  | 61.3   | 524                               |
| <b>Type of toilet facility<sup>3</sup></b>  |                           |                    |   |  |                                   |
| Improved sanitation facility                | 14.2                      | 4,728              | 66.4  | 59.7   | 673                               |
| Unimproved facility                         | 15.9                      | 3,564              | 71.4  | 63.9   | 568                               |
| Open defecation                             | 16.9                      | 1,070              | 73.8  | 61.1   | 181                               |
| <b>Residence</b>                            |                           |                    |   |  |                                   |
| Urban                                       | 14.9                      | 3,307              | 60.9  | 54.5   | 493                               |
| Rural                                       | 15.3                      | 6,054              | 73.8  | 65.3   | 929                               |
| <b>Province</b>                             |                           |                    |   |  |                                   |
| Central                                     | 10.7                      | 819                | 78.5  | 65.4   | 88                                |
| Copperbelt                                  | 14.0                      | 1,166              | 66.9  | 60.6   | 164                               |
| Eastern                                     | 14.7                      | 1,266              | 78.5  | 73.3   | 186                               |
| Luapula                                     | 17.3                      | 877                | 80.0  | 70.3   | 152                               |
| Lusaka                                      | 13.8                      | 1,446              | 61.3  | 55.8   | 200                               |
| Muchinga                                    | 18.4                      | 569                | 61.6  | 54.1   | 105                               |
| Northern                                    | 14.0                      | 846                | 69.3  | 61.1   | 118                               |
| North Western                               | 15.2                      | 517                | 75.2  | 69.3   | 78                                |
| Southern                                    | 15.5                      | 1,242              | 56.6  | 48.6   | 192                               |
| Western                                     | 22.7                      | 613                | 74.0  | 62.9   | 139                               |
| <b>Mother's education</b>                   |                           |                    |   |  |                                   |
| No education                                | 17.2                      | 951                | 60.3  | 50.9   | 163                               |
| Primary                                     | 14.8                      | 4,763              | 72.9  | 65.6   | 703                               |
| Secondary                                   | 15.9                      | 3,276              | 66.9  | 58.6   | 521                               |
| Higher                                      | 9.3                       | 371                | (75.0)  | (73.7)   | 34                                |
| <b>Wealth quintile</b>                      |                           |                    |   |  |                                   |
| Lowest                                      | 17.2                      | 2,343              | 73.5  | 65.8   | 403                               |
| Second                                      | 15.0                      | 2,079              | 74.6  | 64.0   | 311                               |
| Middle                                      | 15.1                      | 1,735              | 68.3  | 60.8   | 262                               |
| Fourth                                      | 14.8                      | 1,733              | 61.8  | 57.3   | 256                               |
| Highest                                     | 13.0                      | 1,469              | 63.3  | 55.3   | 190                               |
| Total                                       | 15.2                      | 9,361              | 69.3  | 61.5   | 1,422                             |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes advice or treatment from the public and private health sectors, pharmacies, shops, markets, and itinerant drug sellers. Excludes advice or treatment from a traditional practitioner.

<sup>2</sup> See Table 2.1.1 for definition of categories.

<sup>3</sup> See Table 2.3.1 for definition of categories.

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**Table 10.9 Source of advice or treatment for children with diarrhoea**

Percentage of children under age 5 with diarrhoea in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources; among children under age 5 with diarrhoea in the 2 weeks preceding the survey for whom advice or treatment was sought, percentage for whom advice or treatment was sought from specific sources; and among children with diarrhoea who received ORS, percentage for whom advice or treatment was sought from specific sources, Zambia DHS 2018

| Source                      | Percentage for whom advice or treatment was sought from each source: |   |   |
|-----------------------------|--|---|---|
|                             | Among children with diarrhoea  | Among children with diarrhoea for whom advice or treatment was sought | Among children with diarrhoea who received ORS <sup>1</sup> |
| <b>Public sector</b>        | <b>64.9</b>  | <b>93.2</b>   | <b>83.2</b>   |
| Government hospital         | 4.1  | 6.0   | 5.4   |
| Government health centre    | 46.2   | 66.5  | 59.8  |
| Government health post      | 12.7   | 18.2  | 16.2  |
| Mobile hospital/clinic      | 0.3  | 0.4   | 0.4   |
| Fieldworker/CHW             | 1.8  | 2.5   | 1.8   |
| Other public sector         | 0.2  | 0.3   | 0.3   |
| <b>Private sector</b>       | <b>3.9</b>   | <b>5.6</b>  | <b>4.4</b>  |
| Private hospital/clinic     | 0.8  | 1.1   | 0.7   |
| Mission hospital/clinic     | 1.4  | 2.1   | 2.1   |
| Pharmacy                    | 1.1  | 1.5   | 1.1   |
| Private doctor              | 0.1  | 0.2   | 0.2   |
| Fieldworker/CHW             | 0.5  | 0.7   | 0.4   |
| <b>Other private sector</b> | <b>0.7</b>   | <b>1.1</b>  | <b>0.3</b>  |
| Shop                        | 0.3  | 0.5   | 0.0   |
| Traditional practitioner    | 0.3  | 0.5   | 0.2   |
| Market                      | 0.1  | 0.1   | 0.1   |
| Other                       | 0.2  | 0.3   | 0.0   |
| Number of children          | 1,422  | 989   | 950   |

ORS = Oral rehydration salts

CHW = Community health worker

<sup>1</sup> Fluids from ORS packet

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**Table 10.10 Feeding practices during diarrhoea**

Percent distribution of children under age 5 who had diarrhoea in the 2 weeks preceding the survey by amount of liquids and food offered compared with normal practice, according to background characteristics, Zambia DHS 2018

| Background characteristic   | Amount of liquids given |               |                |           |       |            |       | Amount of food given |               |                |           |       |                 |            | Number of children with diarrhoea |       |
|-----------------------------|-------------------------|---------------|----------------|-----------|-------|------------|-------|----------------------|---------------|----------------|-----------|-------|-----------------|------------|-----------------------------------|-------|
|                             | More                    | Same as usual | Some-what less | Much less | None  | Don't know | Total | More                 | Same as usual | Some-what less | Much less | None  | Never gave food | Don't know | Total                             |       |
| <b>Age in months</b>        |                         |               |                |           |       |            |       |                      |               |                |           |       |                 |            |                                   |       |
| <6                          | 34.9                    | 48.1          | 7.4            | 4.1       | 5.1   | 0.4        | 100.0 | 18.4                 | 25.5          | 3.9            | 4.3       | 1.3   | 46.5            | 0.0        | 100.0                             | 108   |
| 6-11                        | 31.4                    | 38.9          | 17.6           | 9.1       | 3.0   | 0.0        | 100.0 | 9.1                  | 43.1          | 21.2           | 16.9      | 6.9   | 2.9             | 0.0        | 100.0                             | 275   |
| 12-23                       | 30.2                    | 35.6          | 21.4           | 12.2      | 0.5   | 0.1        | 100.0 | 12.2                 | 34.1          | 29.4           | 17.9      | 5.7   | 0.7             | 0.0        | 100.0                             | 528   |
| 24-35                       | 33.4                    | 27.8          | 24.9           | 11.5      | 0.3   | 2.1        | 100.0 | 6.5                  | 37.4          | 32.4           | 19.5      | 2.5   | 0.0             | 1.7        | 100.0                             | 291   |
| 36-47                       | 28.4                    | 38.4          | 17.3           | 12.5      | 0.8   | 2.5        | 100.0 | 9.7                  | 41.8          | 23.9           | 19.9      | 2.4   | 0.8             | 1.4        | 100.0                             | 144   |
| 48-59                       | 29.8                    | 34.0          | 20.2           | 15.6      | 0.0   | 0.4        | 100.0 | 6.5                  | 54.0          | 21.3           | 16.1      | 2.1   | 0.0             | 0.0        | 100.0                             | 77    |
| <b>Sex</b>                  |                         |               |                |           |       |            |       |                      |               |                |           |       |                 |            |                                   |       |
| Male                        | 29.1                    | 37.8          | 21.1           | 10.0      | 0.8   | 1.2        | 100.0 | 10.5                 | 37.9          | 26.2           | 15.4      | 4.6   | 4.6             | 0.6        | 100.0                             | 719   |
| Female                      | 33.4                    | 33.7          | 18.6           | 12.2      | 1.8   | 0.4        | 100.0 | 10.2                 | 37.5          | 24.7           | 18.8      | 4.2   | 4.2             | 0.4        | 100.0                             | 703   |
| <b>Breastfeeding status</b> |                         |               |                |           |       |            |       |                      |               |                |           |       |                 |            |                                   |       |
| Breastfeeding               | 30.3                    | 40.3          | 18.0           | 9.2       | 2.0   | 0.3        | 100.0 | 10.9                 | 36.4          | 23.5           | 14.7      | 6.2   | 8.3             | 0.0        | 100.0                             | 724   |
| Not breastfeeding           | 32.2                    | 31.1          | 21.8           | 13.1      | 0.6   | 1.3        | 100.0 | 9.7                  | 39.2          | 27.6           | 19.5      | 2.6   | 0.4             | 1.0        | 100.0                             | 698   |
| <b>Residence</b>            |                         |               |                |           |       |            |       |                      |               |                |           |       |                 |            |                                   |       |
| Urban                       | 32.4                    | 41.3          | 17.2           | 7.2       | 0.2   | 1.6        | 100.0 | 15.0                 | 42.2          | 24.1           | 11.5      | 1.4   | 5.0             | 0.9        | 100.0                             | 493   |
| Rural                       | 30.6                    | 32.8          | 21.2           | 13.1      | 1.9   | 0.3        | 100.0 | 7.9                  | 35.4          | 26.2           | 20.1      | 6.0   | 4.1             | 0.3        | 100.0                             | 929   |
| <b>Province</b>             |                         |               |                |           |       |            |       |                      |               |                |           |       |                 |            |                                   |       |
| Central                     | 19.2                    | 32.9          | 32.8           | 13.0      | 2.2   | 0.0        | 100.0 | 4.7                  | 27.6          | 33.1           | 17.0      | 16.6  | 1.0             | 0.0        | 100.0                             | 88    |
| Copperbelt                  | 31.4                    | 46.9          | 14.5           | 7.2       | 0.0   | 0.0        | 100.0 | 11.9                 | 54.7          | 23.1           | 9.9       | 0.0   | 0.2             | 0.0        | 100.0                             | 164   |
| Eastern                     | 44.3                    | 18.9          | 20.3           | 16.5      | 0.0   | 0.0        | 100.0 | 8.7                  | 30.2          | 28.6           | 23.1      | 8.6   | 0.8             | 0.0        | 100.0                             | 186   |
| Luapula                     | 25.7                    | 44.2          | 20.3           | 9.5       | 0.0   | 0.3        | 100.0 | 1.7                  | 40.0          | 24.6           | 20.1      | 5.9   | 7.7             | 0.0        | 100.0                             | 152   |
| Lusaka                      | 38.7                    | 33.3          | 19.1           | 6.2       | 0.0   | 2.6        | 100.0 | 19.0                 | 35.0          | 27.4           | 11.9      | 0.2   | 4.6             | 1.8        | 100.0                             | 200   |
| Muchinga                    | 62.9                    | 23.7          | 7.1            | 3.3       | 3.0   | 0.0        | 100.0 | 19.1                 | 28.6          | 22.7           | 23.7      | 2.8   | 3.2             | 0.0        | 100.0                             | 105   |
| Northern                    | 33.7                    | 36.8          | 22.0           | 7.2       | 0.0   | 0.3        | 100.0 | 9.0                  | 50.4          | 25.9           | 4.9       | 4.8   | 4.9             | 0.0        | 100.0                             | 118   |
| North Western               | 27.7                    | 40.5          | 13.4           | 18.3      | 0.0   | 0.0        | 100.0 | 15.8                 | 45.1          | 13.4           | 23.8      | 0.7   | 1.2             | 0.0        | 100.0                             | 78    |
| Southern                    | 22.6                    | 34.5          | 25.9           | 11.5      | 4.5   | 1.0        | 100.0 | 11.7                 | 34.2          | 28.5           | 12.0      | 2.1   | 10.6            | 1.0        | 100.0                             | 192   |
| Western                     | 4.3                     | 48.7          | 21.1           | 20.3      | 3.4   | 2.2        | 100.0 | 0.7                  | 32.5          | 22.0           | 30.4      | 6.8   | 6.5             | 1.2        | 100.0                             | 139   |
| <b>Mother's education</b>   |                         |               |                |           |       |            |       |                      |               |                |           |       |                 |            |                                   |       |
| No education                | 30.7                    | 39.6          | 17.6           | 11.3      | 0.5   | 0.3        | 100.0 | 4.6                  | 37.9          | 17.4           | 24.9      | 5.2   | 10.1            | 0.0        | 100.0                             | 163   |
| Primary                     | 29.0                    | 36.7          | 19.8           | 12.7      | 1.4   | 0.4        | 100.0 | 8.5                  | 38.6          | 25.0           | 18.5      | 6.2   | 3.1             | 0.1        | 100.0                             | 703   |
| Secondary                   | 33.4                    | 33.5          | 21.2           | 9.0       | 1.4   | 1.5        | 100.0 | 12.9                 | 36.5          | 29.2           | 13.4      | 2.1   | 4.7             | 1.2        | 100.0                             | 521   |
| Higher                      | (46.8)                  | (32.7)        | (12.3)         | (8.2)     | (0.0) | (0.0)      | 100.0 | (37.7)               | (38.3)        | (18.2)         | (5.7)     | (0.0) | (0.0)           | (0.0)      | 100.0                             | 34    |
| <b>Wealth quintile</b>      |                         |               |                |           |       |            |       |                      |               |                |           |       |                 |            |                                   |       |
| Lowest                      | 31.2                    | 36.5          | 19.0           | 12.1      | 1.2   | 0.0        | 100.0 | 6.1                  | 38.2          | 25.6           | 19.3      | 7.7   | 3.1             | 0.0        | 100.0                             | 403   |
| Second                      | 30.6                    | 35.3          | 19.5           | 11.8      | 2.0   | 0.7        | 100.0 | 10.3                 | 35.5          | 24.0           | 20.5      | 4.5   | 4.6             | 0.6        | 100.0                             | 311   |
| Middle                      | 29.3                    | 35.1          | 18.4           | 13.3      | 1.7   | 2.1        | 100.0 | 10.4                 | 34.7          | 23.7           | 17.3      | 3.2   | 8.9             | 1.8        | 100.0                             | 262   |
| Fourth                      | 36.1                    | 32.5          | 22.3           | 7.5       | 1.2   | 0.4        | 100.0 | 14.3                 | 41.5          | 24.6           | 14.7      | 2.6   | 2.3             | 0.0        | 100.0                             | 256   |
| Highest                     | 28.4                    | 40.2          | 20.8           | 9.4       | 0.0   | 1.2        | 100.0 | 14.1                 | 39.4          | 31.1           | 9.9       | 1.4   | 3.8             | 0.3        | 100.0                             | 190   |
| Total                       | 31.2                    | 35.8          | 19.9           | 11.1      | 1.3   | 0.8        | 100.0 | 10.3                 | 37.7          | 25.5           | 17.1      | 4.4   | 4.4             | 0.5        | 100.0                             | 1,422 |

Note: It is recommended that children be given more liquids to drink during diarrhoea and that food not be reduced. Figures in parentheses are based on 25-49 unweighted cases.

**Table 10.11 Oral rehydration therapy, zinc, and other treatments for diarrhoea**

Among children under age 5 who had diarrhoea in the 2 weeks preceding the survey, percentage given fluid from an ORS packet, recommended homemade fluids (RHF), ORS or RHF, zinc, ORS and zinc, ORS or increased fluids, oral rehydration therapy (ORT), continued feeding and ORT, and other treatments, and percentage given no treatment, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of children with diarrhoea who were given: |                                 |                   |        |              |                                     |                   |   |                   |                     |                       |                   |            | Number of children with diarrhoea |       |
|---------------------------|---|---------------------------------|-------------------|--------|--------------|-------------------------------------|-------------------|---|-------------------|---------------------|-----------------------|-------------------|------------|-----------------------------------|-------|
|                           | Fluid from ORS packets                                | Recom-mend-ed home fluids (RHF) | Either ORS or RHF | Zinc   | ORS and zinc | ORT (ORS, RHF, or increased fluids) |                   | Contin-ued feeding and ORT <sup>1</sup> | Other treatments  |                     |                       |                   |            |                                   |       |
|                           |   |                                 |                   |        |              | ORS or increased fluids             | in-creased fluids |   | Anti-biotic drugs | Anti-motility drugs | Intra-venous solution | Home remedy/other | Don't know |                                   |       |
| <b>Age in months</b>      |   |                                 |                   |        |              |                                     |                   |   |                   |                     |                       |                   |            |                                   |       |
| <6                        | 38.2  | 7.5                             | 39.3              | 21.7   | 16.5         | 62.0                                | 63.1              | 34.1                                    | 7.2               | 0.9                 | 0.0                   | 9.0               | 0.0        | 29.6                              | 108   |
| 6-11                      | 65.7  | 17.0                            | 67.8              | 40.1   | 35.4         | 72.6                                | 74.2              | 52.0                                    | 15.1              | 6.7                 | 0.5                   | 9.5               | 0.0        | 18.4                              | 275   |
| 12-23                     | 72.4  | 24.1                            | 75.9              | 41.0   | 35.9         | 79.1                                | 81.1              | 60.1                                    | 15.7              | 7.2                 | 0.2                   | 11.5              | 0.2        | 12.2                              | 528   |
| 24-35                     | 69.8  | 21.3                            | 73.7              | 42.8   | 36.8         | 82.8                                | 85.8              | 65.6                                    | 17.9              | 6.3                 | 0.3                   | 10.0              | 0.6        | 7.5                               | 291   |
| 36-47                     | 63.6  | 14.5                            | 63.6              | 35.8   | 31.3         | 70.6                                | 70.6              | 51.4                                    | 21.2              | 3.0                 | 0.0                   | 10.6              | 0.0        | 19.8                              | 144   |
| 48-59                     | 66.9  | 19.5                            | 67.9              | 28.4   | 26.5         | 77.5                                | 77.5              | 64.7                                    | 19.8              | 10.4                | 0.0                   | 9.1               | 0.0        | 15.3                              | 77    |
| <b>Sex</b>                |   |                                 |                   |        |              |                                     |                   |   |                   |                     |                       |                   |            |                                   |       |
| Male                      | 67.7  | 19.5                            | 70.0              | 39.0   | 34.6         | 75.4                                | 76.7              | 56.6                                    | 18.0              | 5.4                 | 0.2                   | 10.9              | 0.0        | 16.2                              | 719   |
| Female                    | 65.8  | 19.8                            | 68.9              | 38.0   | 32.4         | 77.3                                | 79.5              | 57.5                                    | 14.3              | 7.0                 | 0.3                   | 9.9               | 0.4        | 13.1                              | 703   |
| <b>Residence</b>          |   |                                 |                   |        |              |                                     |                   |   |                   |                     |                       |                   |            |                                   |       |
| Urban                     | 69.8  | 21.5                            | 72.4              | 41.5   | 38.5         | 79.0                                | 80.9              | 66.7                                    | 17.1              | 4.2                 | 0.6                   | 7.0               | 0.0        | 13.6                              | 493   |
| Rural                     | 65.2  | 18.7                            | 67.9              | 36.9   | 30.9         | 75.0                                | 76.6              | 52.0                                    | 15.7              | 7.2                 | 0.1                   | 12.2              | 0.3        | 15.2                              | 929   |
| <b>Province</b>           |   |                                 |                   |        |              |                                     |                   |   |                   |                     |                       |                   |            |                                   |       |
| Central                   | 68.8  | 36.8                            | 71.1              | 52.4   | 44.1         | 75.8                                | 77.5              | 48.9                                    | 16.9              | 8.3                 | 0.7                   | 14.2              | 0.0        | 7.7                               | 88    |
| Copperbelt                | 66.9  | 27.5                            | 68.9              | 37.9   | 35.1         | 74.4                                | 76.3              | 68.0                                    | 19.6              | 0.0                 | 0.0                   | 1.9               | 0.0        | 16.4                              | 164   |
| Eastern                   | 66.4  | 18.6                            | 72.9              | 39.5   | 32.9         | 80.4                                | 84.8              | 55.9                                    | 28.8              | 2.6                 | 0.0                   | 14.5              | 0.6        | 9.8                               | 186   |
| Luapula                   | 71.3  | 16.3                            | 74.4              | 49.1   | 43.3         | 75.8                                | 77.1              | 46.4                                    | 4.7               | 6.3                 | 0.4                   | 9.3               | 0.0        | 15.7                              | 152   |
| Lusaka                    | 80.7  | 23.7                            | 83.7              | 49.7   | 46.8         | 88.4                                | 90.7              | 72.2                                    | 15.9              | 4.8                 | 0.0                   | 9.8               | 0.0        | 8.9                               | 200   |
| Muchinga                  | 54.4  | 6.3                             | 57.5              | 31.3   | 25.6         | 83.4                                | 84.1              | 58.1                                    | 19.4              | 5.1                 | 0.5                   | 11.5              | 0.0        | 11.0                              | 105   |
| Northern                  | 66.7  | 14.9                            | 68.0              | 25.8   | 23.1         | 71.8                                | 73.1              | 63.2                                    | 7.9               | 16.7                | 0.0                   | 7.0               | 0.0        | 17.0                              | 118   |
| North Western             | 62.3  | 20.3                            | 62.7              | 35.4   | 30.9         | 74.7                                | 75.0              | 59.9                                    | 14.8              | 0.7                 | 0.4                   | 17.9              | 0.0        | 13.2                              | 78    |
| Southern                  | 55.0  | 15.7                            | 56.3              | 29.3   | 22.7         | 66.6                                | 67.2              | 53.3                                    | 11.0              | 8.3                 | 0.3                   | 13.7              | 1.0        | 25.0                              | 192   |
| Western                   | 69.1  | 18.3                            | 70.7              | 32.3   | 27.4         | 69.8                                | 71.4              | 38.7                                    | 20.1              | 10.7                | 0.7                   | 8.0               | 0.0        | 18.0                              | 139   |
| <b>Mother's education</b> |   |                                 |                   |        |              |                                     |                   |   |                   |                     |                       |                   |            |                                   |       |
| No education              | 60.0  | 20.0                            | 62.1              | 32.2   | 28.9         | 70.2                                | 71.4              | 43.9                                    | 14.5              | 4.5                 | 0.0                   | 8.8               | 0.0        | 23.4                              | 163   |
| Primary                   | 65.9  | 17.7                            | 69.5              | 36.2   | 30.1         | 75.3                                | 77.7              | 55.1                                    | 17.2              | 7.1                 | 0.4                   | 10.8              | 0.2        | 13.7                              | 703   |
| Secondary                 | 70.2  | 22.2                            | 71.9              | 42.1   | 38.0         | 79.5                                | 80.7              | 62.9                                    | 13.3              | 5.6                 | 0.1                   | 10.8              | 0.4        | 13.7                              | 521   |
| Higher                    | (64.9)  | (19.4)                          | (64.9)            | (61.8) | (57.9)       | (79.6)                              | (79.6)            | (73.9)                                  | (46.0)            | (4.3)               | (0.0)                 | (3.4)             | (0.0)      | (8.1)                             | 34    |
| <b>Wealth quintile</b>    |   |                                 |                   |        |              |                                     |                   |   |                   |                     |                       |                   |            |                                   |       |
| Lowest                    | 64.1  | 16.5                            | 66.7              | 39.4   | 30.7         | 73.3                                | 75.3              | 49.8                                    | 15.0              | 6.5                 | 0.0                   | 8.0               | 0.3        | 15.1                              | 403   |
| Second                    | 67.8  | 15.5                            | 69.9              | 32.3   | 30.0         | 78.0                                | 78.8              | 55.8                                    | 16.4              | 9.4                 | 0.3                   | 18.3              | 0.6        | 14.3                              | 311   |
| Middle                    | 62.1  | 21.3                            | 65.0              | 34.6   | 30.6         | 73.1                                | 74.7              | 53.3                                    | 16.8              | 5.2                 | 0.8                   | 9.4               | 0.0        | 16.8                              | 262   |
| Fourth                    | 67.6  | 25.6                            | 71.9              | 38.2   | 32.9         | 78.6                                | 82.2              | 65.1                                    | 15.9              | 2.5                 | 0.0                   | 7.5               | 0.0        | 13.7                              | 256   |
| Highest                   | 76.2  | 23.2                            | 77.2              | 52.5   | 50.2         | 81.6                                | 82.2              | 69.0                                    | 17.8              | 6.4                 | 0.3                   | 7.9               | 0.0        | 13.0                              | 190   |
| Total                     | 66.8  | 19.7                            | 69.4              | 38.5   | 33.5         | 76.4                                | 78.1              | 57.1                                    | 16.2              | 6.2                 | 0.2                   | 10.4              | 0.2        | 14.7                              | 1,422 |

Note: Figures in parentheses are based on 25-49 unweighted cases.

ORS = Oral rehydration salts

<sup>1</sup> Continued feeding includes children who were given more, the same as usual, or somewhat less food during the diarrhoea episode.

**Table 10.12 Knowledge of ORS packets**

Percentage of women age 15-49 with a live birth in the 5 years preceding the survey who know about ORS packets for treatment of diarrhoea, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of women who know about ORS packets | Number of women |
|---------------------------|--|-----------------|
| <b>Age</b>                |  |                 |
| 15-19                     | 95.9   | 719             |
| 20-24                     | 97.9   | 1,887           |
| 25-34                     | 98.6   | 3,020           |
| 35-49                     | 98.0   | 1,699           |
| <b>Residence</b>          |  |                 |
| Urban                     | 99.1   | 2,811           |
| Rural                     | 97.4   | 4,513           |
| <b>Province</b>           |  |                 |
| Central                   | 98.4   | 640             |
| Copperbelt                | 98.8   | 969             |
| Eastern                   | 98.9   | 983             |
| Luapula                   | 96.3   | 640             |
| Lusaka                    | 99.2   | 1,219           |
| Muchinga                  | 91.6   | 433             |
| Northern                  | 97.1   | 615             |
| North Western             | 99.1   | 404             |
| Southern                  | 99.5   | 946             |
| Western                   | 96.7   | 477             |
| <b>Education</b>          |  |                 |
| No education              | 95.5   | 689             |
| Primary                   | 97.7   | 3,595           |
| Secondary                 | 99.0   | 2,726           |
| Higher                    | 99.2   | 316             |
| <b>Wealth quintile</b>    |  |                 |
| Lowest                    | 96.2   | 1,676           |
| Second                    | 97.7   | 1,527           |
| Middle                    | 98.0   | 1,390           |
| Fourth                    | 99.3   | 1,471           |
| Highest                   | 99.3   | 1,262           |
| Total                     | 98.0   | 7,325           |

ORS = Oral rehydration salts

**Table 10.13 Disposal of children's stools**

Percent distribution of youngest children under age 2 living with their mother by the manner of disposal of the child's last faecal matter, and percentage of children whose stools are disposed of appropriately, according to background characteristics, Zambia DHS 2018

| Background characteristic                  | Manner of disposal of children's stools |                                   |        |                                |                     |                  | Percentage of children whose stools are disposed of appropriately <sup>1</sup> | Number of children |
|--|---|-----------------------------------|--------|--------------------------------|---------------------|------------------|--|--------------------|
|  | Child used toilet or latrine            | Put/rinsed into toilet or latrine | Buried | Put/rinsed into drain or ditch | Thrown into garbage | Left in the open |  |                    |
| <b>Age of child in months</b>              |   |                                   |        |                                |                     |                  |  |                    |
| 0-1  | 1.0                                     | 63.6                              | 2.6    | 17.1                           | 8.4                 | 1.3              | 6.1  | 100.0              |
| 2-3  | 0.4                                     | 56.8                              | 1.9    | 20.2                           | 13.7                | 1.0              | 6.1  | 100.0              |
| 4-5  | 0.8                                     | 74.1                              | 1.7    | 10.4                           | 8.6                 | 1.3              | 3.2  | 100.0              |
| 6-8  | 0.7                                     | 70.3                              | 4.7    | 7.8                            | 12.5                | 0.7              | 3.2  | 100.0              |
| 9-11                                       | 0.9                                     | 74.6                              | 5.0    | 9.7                            | 6.4                 | 0.9              | 2.5  | 100.0              |
| 12-17                                      | 1.4                                     | 75.0                              | 6.9    | 5.5                            | 8.7                 | 0.8              | 1.7  | 100.0              |
| 18-23                                      | 2.7                                     | 77.6                              | 6.3    | 4.2                            | 7.3                 | 0.9              | 1.1  | 100.0              |
| 6-23                                       | 1.6                                     | 75.0                              | 6.0    | 6.2                            | 8.5                 | 0.8              | 1.9  | 100.0              |
|  |   |                                   |        |                                |                     |                  |  | 82.7               |
| <b>Type of toilet facility<sup>2</sup></b> |   |                                   |        |                                |                     |                  |  |                    |
| Improved sanitation facility               | 1.6                                     | 79.3                              | 0.8    | 5.2                            | 9.7                 | 0.4              | 3.1  | 100.0              |
| Unimproved facility                        | 1.4                                     | 77.7                              | 2.9    | 9.3                            | 5.8                 | 0.9              | 1.9  | 100.0              |
| Open defecation                            | 0.5                                     | 25.3                              | 29.2   | 22.4                           | 15.6                | 3.3              | 3.8  | 100.0              |
|  |   |                                   |        |                                |                     |                  |  | 55.0               |
| <b>Residence</b>                           |   |                                   |        |                                |                     |                  |  |                    |
| Urban                                      | 2.4                                     | 82.2                              | 0.9    | 5.4                            | 7.7                 | 0.0              | 1.3  | 100.0              |
| Rural                                      | 0.9                                     | 67.1                              | 7.0    | 10.5                           | 9.6                 | 1.4              | 3.5  | 100.0              |
|  |   |                                   |        |                                |                     |                  |  | 75.0               |
| <b>Province</b>                            |   |                                   |        |                                |                     |                  |  |                    |
| Central                                    | 1.7                                     | 71.5                              | 1.2    | 7.9                            | 15.2                | 0.7              | 1.7  | 100.0              |
| Copperbelt                                 | 2.0                                     | 84.8                              | 0.5    | 5.1                            | 6.2                 | 0.0              | 1.4  | 100.0              |
| Eastern                                    | 1.3                                     | 66.3                              | 2.6    | 14.0                           | 12.5                | 1.9              | 1.3  | 100.0              |
| Luapula                                    | 0.0                                     | 82.5                              | 0.8    | 8.1                            | 1.5                 | 0.0              | 7.1  | 100.0              |
| Lusaka                                     | 3.3                                     | 76.3                              | 0.7    | 7.3                            | 10.8                | 0.0              | 1.6  | 100.0              |
| Muchinga                                   | 3.7                                     | 69.0                              | 4.3    | 4.5                            | 15.1                | 2.6              | 0.7  | 100.0              |
| Northern                                   | 0.6                                     | 78.8                              | 0.2    | 7.0                            | 5.1                 | 1.2              | 7.3  | 100.0              |
| North Western                              | 0.6                                     | 87.5                              | 1.7    | 3.5                            | 2.3                 | 0.6              | 3.8  | 100.0              |
| Southern                                   | 0.2                                     | 70.1                              | 7.1    | 10.5                           | 9.4                 | 1.9              | 0.7  | 100.0              |
| Western                                    | 0.0                                     | 28.2                              | 41.9   | 16.0                           | 8.8                 | 0.4              | 4.8  | 100.0              |
|  |   |                                   |        |                                |                     |                  |  | 70.1               |
| <b>Mother's education</b>                  |   |                                   |        |                                |                     |                  |  |                    |
| No education                               | 2.3                                     | 60.0                              | 10.3   | 11.1                           | 10.6                | 0.8              | 4.9  | 100.0              |
| Primary                                    | 1.1                                     | 70.2                              | 5.5    | 10.4                           | 8.3                 | 1.2              | 3.3  | 100.0              |
| Secondary                                  | 1.3                                     | 78.9                              | 3.1    | 6.5                            | 8.1                 | 0.7              | 1.4  | 100.0              |
| Higher                                     | 2.9                                     | 68.2                              | 1.3    | 3.1                            | 21.5                | 0.0              | 3.0  | 100.0              |
|  |   |                                   |        |                                |                     |                  |  | 72.4               |
| <b>Wealth quintile</b>                     |   |                                   |        |                                |                     |                  |  |                    |
| Lowest                                     | 0.9                                     | 58.8                              | 9.8    | 13.7                           | 11.1                | 1.7              | 3.9  | 100.0              |
| Second                                     | 1.2                                     | 71.4                              | 5.7    | 7.7                            | 8.3                 | 1.7              | 4.0  | 100.0              |
| Middle                                     | 0.6                                     | 75.6                              | 5.1    | 10.0                           | 6.5                 | 0.6              | 1.6  | 100.0              |
| Fourth                                     | 1.1                                     | 85.1                              | 0.9    | 5.3                            | 5.5                 | 0.0              | 2.1  | 100.0              |
| Highest                                    | 3.7                                     | 77.7                              | 0.2    | 4.6                            | 12.7                | 0.0              | 1.1  | 100.0              |
| Total                                      | 1.4                                     | 72.3                              | 4.9    | 8.8                            | 8.9                 | 0.9              | 2.8  | 100.0              |
|  |   |                                   |        |                                |                     |                  |  | 78.6               |
|  |   |                                   |        |                                |                     |                  |  | 3,749              |

<sup>1</sup> Children's stools are considered to be disposed of appropriately if the child used a toilet or latrine, if the faecal matter was put/rinsed into a toilet or latrine, or if it was buried.

<sup>2</sup> See Table 2.3.1 for definition of categories.



### Key Findings

- **Nutritional status of children:** Thirty-five percent of children under age 5 are stunted (short for their age), 4% are wasted (thin for their height), 12% are underweight (thin for their age), and 5% are overweight (heavy for their height).
- **Breastfeeding:** Almost all children (98%) born in the 2 years before the survey were breastfed at some point. Seven in 10 children age 0-5 months are exclusively breastfed.
- **Minimum acceptable diet:** Overall, 13% of children age 6-23 months were fed a minimum acceptable diet in the 24 hours before the survey.
- **Anaemia:** The prevalence of anaemia in children age 6-59 months is 58%. One-third (31%) of women age 15-49 are anaemic.

To accelerate the reduction of malnutrition, the Government of the Republic of Zambia has prioritised nutrition in national development policies and plans such as the National Food and Nutrition Policy (2006), the National Food and Nutrition Strategic Plan 2017-2021 and the National Health and Strategic Plan 2017-2021. At the programmatic level, several programmes and strategies have been put in place. One measure to improve nutrition in the country was the launch of the first 1,000 Most Critical Days Programme. This programme is aimed at operationalising the first strategic direction of the National Food and Nutrition Strategy, whose efforts prioritise the strengthening and expansion of interventions aimed at preventing stunting in children under age 2. In order to efficiently address nutritional problems, the government encourages investment in well-tested, low-cost, and effective nutrition interventions as the best strategy to save lives and enhance human development.

This chapter reports on nutritional status and anaemia among children and women. It also reports on infant and young child feeding practices, including breastfeeding and complementary feeding, as well as micronutrient supplementation and deworming for children and pregnant women. Anthropometry measurements for adults were not included in the survey.

#### 11.1 NUTRITIONAL STATUS OF CHILDREN

The distribution of height and weight among children under age 5 was compared against the WHO Child Growth Standards reference population (WHO 2006). A well-nourished population will be similar to the reference population, while a poorly nourished population will differ from the reference population. Three indices—height-for-age, weight-for-height, and weight-for-age—can be expressed in standard deviation units (Z-scores) from the median of the reference population, with values greater than two standard deviations from the median of the WHO Child Growth Standards used to define malnutrition.

Stunting, or low height-for-age, is a sign of chronic undernutrition that reflects failure to receive adequate nutrition over a long period of time. The most direct causes of stunting are inadequate nutrition (not eating

enough or eating foods that lack growth-promoting nutrients) and recurrent infections or chronic diseases that lead to poor nutrient intake, absorption, and utilisation.

Wasting, or low weight-for-height, is a measure of acute undernutrition and represents the failure to receive adequate nutrition in the period immediately before the survey. Wasting may result from inadequate food intake or from a recent episode of illness or infection causing weight loss.

Overweight, or high weight-for-height, is a measure of overnutrition and results from an imbalance between energy consumed (too much) and energy expended (too little).

Underweight, or low weight-for-age, is a composite index of weight-for-height and height-for-age reflecting both acute (wasting) and chronic (stunting) undernutrition.

#### **Stunting (assessed via height-for-age)**

Height-for-age is a measure of linear growth retardation and cumulative growth deficits. Children whose height-for-age Z-score is below minus two standard deviations (-2 SD) from the median of the reference population are considered short for their age (stunted), or chronically undernourished. Children who are below minus three standard deviations (-3 SD) are considered severely stunted.

**Sample:** Children under age 5

#### **Wasting (assessed via weight-for-height)**

The weight-for-height index measures body mass in relation to body height or length and describes acute nutritional status. Children whose Z-score is below minus two standard deviations (-2 SD) from the median of the reference population are considered thin (wasted), or acutely undernourished. Children whose weight-for-height Z-score is below minus three standard deviations (-3 SD) from the median of the reference population are considered severely wasted.

**Sample:** Children under age 5

#### **Underweight (assessed via weight-for-age)**

Weight-for-age is a composite index of height-for-age and weight-for-height. It takes into account both acute and chronic undernutrition. Children whose weight-for-age Z-score is below minus two standard deviations (-2 SD) from the median of the reference population are classified as underweight. Children whose weight-for-age Z-score is below minus three standard deviations (-3 SD) from the median are considered severely underweight.

**Sample:** Children under age 5

#### **Overweight (assessed via weight-for-height)**

Children whose weight-for-height Z-score is more than 2 standard deviations (+2 SD) above the median of the reference population are considered overweight.

**Sample:** Children under age 5

The means of the Z-scores for height-for-age, weight-for-height, and weight-for-age are also calculated as summary statistics representing the nutritional status of children in a population. These mean scores describe the nutritional status of the entire population of children without the use of a cutoff point. A mean Z-score of less than 0 (i.e., a negative mean value for stunting, wasting, or underweight) suggests a downward shift in the entire sample population's nutritional status relative to the reference population. The farther away mean Z-scores are from 0, the higher the prevalence of malnutrition.

### 11.1.1 Anthropometry Training and Data Collection

Health technicians were trained to measure the height and weight of children. Training on child height measurement included practice standardisation exercises. Children younger than age 24 months were measured lying down (recumbent length); older children were measured standing up (height). Weight measurements were taken using SECA 878U scales designed for mobile use with a digital display. Height and length were measured with a ShorrBoard® measuring board.

The survey identified a total of 10,094 (unweighted) children under age 5 who were eligible for height and weight measurements. Valid height-for-age measurements were obtained for 95% of eligible children. Similarly, valid weight-for-height measurements were obtained for 95% of eligible children. Valid weight-for-age measurements were obtained for 96% of eligible children. Table C.9 provides additional information on the completeness and quality of anthropometry data for children.

### 11.1.2 Levels of Child Malnutrition

**Table 11.1** shows that 35% of children under age 5 are stunted (too short for their age). Four percent are wasted (too thin for their height), another 12% are underweight (they weigh less than would be expected for their age), and 5% are overweight (they weigh more than would be expected for their height).

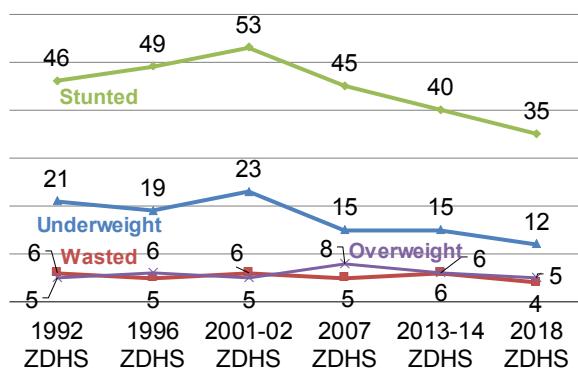
**Trends:** Stunting and underweight among children under age 5 decreased considerably between 1992 and 2018, from 46% to 35% and from 21% to 12%, respectively. Over the same period, changes in wasting and overweight were minimal (**Figure 11.1**).

#### Patterns by background characteristics

- The prevalence of stunting increases from 19% among children age 0-6 months to a peak of 46% among children age 18-23 months. This highlights the importance of optimal nutrition in the first 1,000 days of life. Conversely, the prevalence of wasting peaks at 7% among children age 9-11 months (**Table 11.1**).
- The prevalence of stunting is higher among children in rural areas (36%) than among children in urban areas (32%).
- Stunting is higher in boys (38%) than in girls (31%).

**Figure 11.1 Trends in nutritional status of children**

Percentage of children under age 5 who are malnourished



- There is provincial variation in the percentage of children who are stunted. The percentage is highest in Northern (46%) and Luapula (45%) and lowest in Western and Southern (29% each) (**Figure 11.2**).
- Wasting among children under age 5 is highest in Muchinga (8%) and lowest in Eastern, North Western, and Southern (2% each).
- Children who are born small or very small have a higher prevalence of stunting, wasting, and underweight than children average or larger at birth. For example, the prevalence of stunting among children reported to be very small at birth is 50%, as compared with 33% among children reported to be average or larger at birth.
- Children whose mothers have no education have a higher prevalence of stunting (38%) than those whose mothers have a higher education (15%) (**Figure 11.3**). The opposite is true for overweight. Five percent of children whose mothers have no education are overweight, compared with 7% of those whose mothers have a higher education.
- Patterns of stunting, wasting, and overweight vary according to household wealth.

## 11.2 INFANT AND YOUNG CHILD FEEDING PRACTICES

Appropriate infant and young child feeding (IYCF) practices include early initiation of breastfeeding (within the first hour of life), exclusively breastfeeding for the first 6 months of life, continued breastfeeding for 2 years or more, and introduction of safe, appropriate, and adequate complementary foods at age 6 months (WHO 2008).

### 11.2.1 Early Initiation of Breastfeeding

Initiation of breastfeeding within the first hour of life is important for both the mother and the child. The first breast milk contains colostrum, which is highly nutritious and has antibodies that protect the newborn from diseases. Early initiation of breastfeeding also encourages bonding between the mother and her newborn, facilitating the production of regular breast milk.

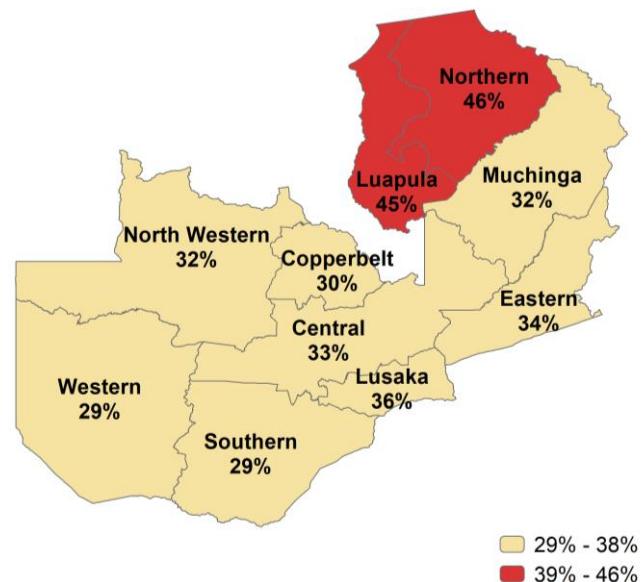
#### Early initiation of breastfeeding

Initiation of breastfeeding within 1 hour of birth.

**Sample:** Last-born children who were born in the 2 years before the survey

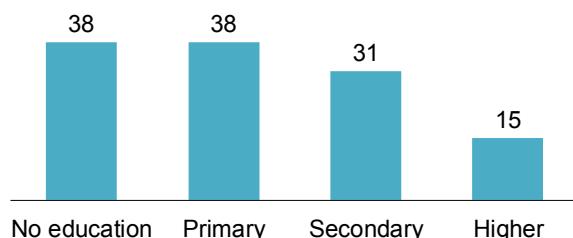
**Figure 11.2 Stunting in children by province**

*Percentage of children under age 5 who are stunted*



**Figure 11.3 Stunting in children by mother's education**

*Percentage of children under age 5 who are stunted*



**Table 11.2** shows that 98% of last-born children who were born in the 2 years preceding the survey were breastfed at some point. Seventy-six percent were breastfed within 1 hour after birth, while 96% were breastfed within 24 hours after delivery. Only 7% of infants received a prelacteal feed.

**Trends:** The percentage of children ever breastfed remained at 98% from 1992 to 2018. The percentage of children who started breastfeeding within 1 hour of birth has increased by 10% since 2013-14. Prelacteal feeding declined steadily from 26% in 2001 to 4% in 2013-14 before increasing slightly to 7% in 2018.

#### Patterns by background characteristics

- Seventy-seven percent of children born at a health facility start breastfeeding within 1 hour of birth, as compared with 65% of those delivered at home or any other place.
- The percentage of infants who are breastfed within 1 hour of birth varies across the provinces, ranging from a low of 65% in Northern to a high of 86% in North Western.
- Early initiation of breastfeeding is lowest among mothers with a higher education.
- The percentage of children given a prelacteal food is twice as high in urban areas (11%) as in rural areas (5%) and twice as high among children born in locations other than health facilities (14%) as among those born in health facilities (7%).
- The percentage of children given a prelacteal food is almost three times as high among children whose mothers have a higher education (20%) as among those whose mothers have no education (7%) and is higher among children from the highest wealth quintile (14%) than among those from the lower quintiles (between 4% and 7%).

#### 11.2.2 Exclusive Breastfeeding

Breast milk contains all of the nutrients needed by children during their first 6 months of life. It is recommended that children be exclusively breastfed in the first 6 months of their life; that is, they should be given nothing but breast milk. Exclusive breastfeeding for 6 months prevents infections such as diarrhoea and respiratory illnesses and provides all of the nutrients and liquid an infant requires for optimal growth and development. Feeding complementary foods within the first 6 months will have the adverse effect of reducing breast milk output, because the production and release of breast milk are modulated by the frequency and intensity of suckling.

##### Exclusive breastfeeding

Proportion of children age 0-5 months who are fed exclusively with breast milk.

**Sample:** Last-born children who were born in the 2 years before the survey

**Table 11.3** and **Figure 11.4** show breastfeeding status by child's age. Seven in 10 children age 0-5 months are exclusively breastfed. Exclusive breastfeeding declines with increasing age, from 91% among children age 0-1 months to 76% among those age 2-3 months and 42% among those age 4-5 months. Seventeen percent of children under age 6 months receive complementary foods in addition to breast milk, a practice that tends to reduce the exclusive breastfeeding rate.

Among children under age 24 months, 70% are receiving age-appropriate breastfeeding. Ninety-four percent are introduced to solid, semisolid, or soft foods at age 6-8 months (**Table 11.4**). Continued breastfeeding at 1 year is high at 90%, while 30% of children continue breastfeeding until their second birthday. Six percent of children under age 2 are bottle-fed (**Figure 11.5**).

**Trends:** Exclusive breastfeeding among children under age 6 months increased from 10% in 1992 to 73% in 2013-14 before declining slightly to 70% in 2018.

### 11.2.3 Median Duration of Breastfeeding

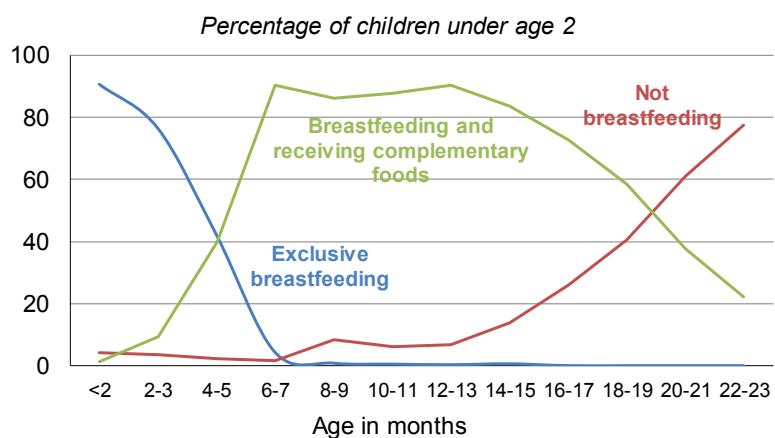
**Table 11.5** shows that the median duration of any breastfeeding among children born in the 3 years preceding the survey is 19.4 months. Overall, the median duration of exclusive breastfeeding is 4.3 months, while the median duration of predominant breastfeeding (either exclusively breastfed or breastfed and receiving plain water and/or non-milk liquids) is 4.9 months.

**Trends:** The median duration of any breastfeeding declined from 20.1 months in 2013-14 to 19.4 months in 2018. Conversely, there were slight increases in the same period in the median durations of exclusive breastfeeding (from 4.1 months to 4.3 months) and predominant breastfeeding (from 4.8 months to 4.9 months).

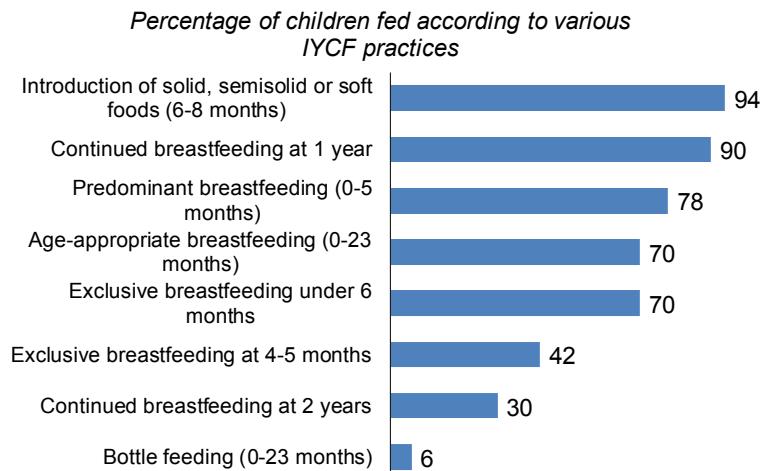
### Patterns by background characteristics

- The median duration of any breastfeeding is longer in rural areas (20.0 months) than in urban areas (18.0 months).
- By province, the median duration of any breastfeeding is highest in Northern (21.4 months) and Western (21.3 months) and lowest in Lusaka and Copperbelt (17.6 and 18.0 months, respectively).

**Figure 11.4 Breastfeeding practices by age**



**Figure 11.5 Infant and young child feeding (IYCF) indicators on breastfeeding status**



- The median duration of any breastfeeding decreases with increasing household wealth, from 20.9 months in the lowest quintile to 17.1 months in the highest quintile.

#### 11.2.4 Bottle Feeding

The nipple on a feeding bottle is susceptible to contamination and increases the risk of disease among children. Thus, bottle feeding is not recommended for children under age 2 (WHO 2005a).

##### Bottle feeding

Proportion of children age 0-23 months who are fed from a bottle with a nipple.

**Sample:** Last-born children who were born in the 2 years before the survey

Four percent of children age 0-1 months are fed using a bottle with a nipple. The proportion of children under age 2 using a bottle with a nipple peaks at age 4-5 months (12%). Overall, 6% of children age 0-23 months are fed from a bottle with a nipple (**Tables 11.3 and 11.4**).

#### 11.2.5 Introduction of Complementary Foods

After the first 6 months, breast milk alone is no longer enough to meet the nutritional needs of infants; thus, appropriate complementary foods should be introduced while continuing with breastfeeding until age 2 or older. The transition from exclusive breastfeeding to feeding complementary and additional foods is a risk period for children because they can easily become undernourished; it is therefore important that they receive solid, semisolid, or soft foods.

Appropriate complementary feeding should include feeding children a variety of foods to ensure that nutrient requirements are met. Fruits and vegetables rich in vitamin A should be consumed daily. Eating a range of fruits and vegetables, in addition to those rich in vitamin A, is also important. Studies have shown that plant-based complementary foods by themselves are insufficient to meet the needs for certain micronutrients. Therefore, it has been recommended that meat, poultry, fish, or eggs be part of the daily diet or eaten as often as possible (WHO 2003).

**Table 11.6** shows the types of foods and liquids consumed by children under age 2 living with their mother during the day and night preceding the interview, according to breastfeeding status and age. Generally, in each age group, consumption of all types of foods is higher among nonbreastfeeding children than among breastfeeding children.

Overall, the most common foods given to children age 6 to 23 months are foods made from grains (84% among breastfeeding children and 88% among nonbreastfeeding children), followed by fruits and vegetables rich in vitamin A (60% among breastfeeding children and 77% among nonbreastfeeding children) and meat, fish, and poultry (40% among breastfeeding children and 47% among nonbreastfeeding children). Eggs are less commonly given to children age 6 to 23 months (21% among breastfeeding children and 31% among nonbreastfeeding children). Consumption of infant formula is very low among both breastfeeding and nonbreastfeeding children (2% each).

#### 11.2.6 Minimum Dietary Diversity, Minimum Meal Frequency, and Minimum Acceptable Diet

Infants and young children should be fed a minimum acceptable diet to ensure appropriate growth and development. Without adequate diversity and meal frequency, infants and young children are vulnerable to undernutrition, especially stunting and micronutrient deficiencies, and to increased morbidity and mortality. The WHO minimum acceptable diet recommendation is a combination of minimum dietary diversity and minimum meal frequency. The three indicators are defined in the box below.

Minimum dietary diversity is a proxy for adequate micronutrient density of foods. Consumption of food from at least five food groups means that the child has a high likelihood of consuming at least one animal source of food and at least one fruit or vegetable in addition to a staple food such as grains, roots, or tubers (WHO 2008). The five food groups should come from a list of eight food groups: breast milk; grains, roots, and tubers; legumes and nuts; dairy products (milk, yogurt, and cheese); flesh foods (meat, fish, poultry, and liver/organ meat); eggs; vitamin A-rich fruits and vegetables; and other fruits and vegetables.

Minimum meal frequency is a proxy for meeting energy requirements. Breastfed children age 6–8 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods at least twice a day. Breastfed children age 6–23 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods at least three times a day. Nonbreastfed children age 6–23 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods or milk feeds at least four times a day and if at least one of the feeds is a solid, semisolid, or soft food.

#### **Minimum dietary diversity**

Proportion of children age 6–23 months who receive a minimum of 5 out of 8 food groups during the previous day.

#### **Minimum meal frequency**

Proportion of children age 6–23 months who received solid, semi-solid, or soft food (including milk feeds for nonbreastfed children) the minimum number of times or more during the previous day.

#### **Minimum acceptable diet**

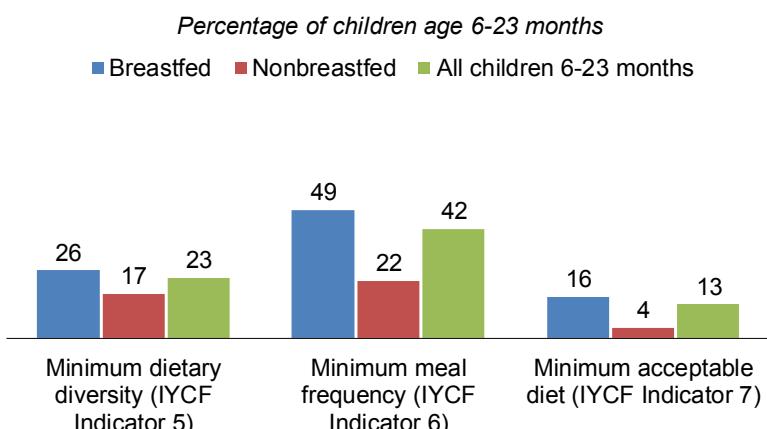
Proportion of children age 6–23 months who receive a minimum acceptable diet. This indicator is a composite of children that have met minimum dietary diversity and minimum meal frequency.

**Sample:** Youngest children age 6–23 months living with their mother

Minimum dietary diversity, minimum meal frequency, and appropriate milk feeds together constitute a child's minimum acceptable diet. **Table 11.7** and **Figure 11.6** show the percentage of children age 6–23 months who are fed according to minimum recommended standards by breastfeeding status. Overall, 13% of children were fed a minimum acceptable diet in the 24 hours preceding the interview. Four in 10 (42%) children were fed the minimum number of times

appropriate for their age, and about 2 in 10 (23%) received an adequately diverse diet in which they had been given foods from at least five food groups.

**Figure 11.6 IYCF indicators on minimum acceptable diet**



#### **Patterns by background characteristics**

- The percentage of children age 6–23 months who are fed a minimum acceptable diet is higher among breastfed children (16%) than among nonbreastfed children (4%).
- Children in urban areas (18%) are more likely to be fed a minimum acceptable diet than those in rural areas (9%).

- There are remarkable differences by province in the percentage of children who are fed a minimum acceptable diet. Lusaka (19%) has the highest percentage of children receiving a minimum acceptable diet, while Western (5%) has the lowest.
- The percentage of children who are fed a minimum acceptable diet rises with increasing mother's education, from 6% among children whose mothers have no education to 31% among children whose mothers have a higher education. Similarly, the percentage rises with increasing household wealth, from 6% to 25%.

### 11.3 ANAEMIA PREVALENCE IN CHILDREN

#### Anaemia in children

| Anaemia status     | Haemoglobin level in grams/decilitre* |
|--------------------|---------------------------------------|
| Anaemic            | <11.0                                 |
| Mildly anaemic     | 10.0-10.9                             |
| Moderately anaemic | 7.0-9.9                               |
| Severely anaemic   | <7.0                                  |
| Not anaemic        | 11.0 or higher                        |

\*Haemoglobin levels are adjusted for altitude in enumeration areas that are above 1,000 metres.

**Sample:** Children age 6-59 months

Anaemia is a condition that is marked by low levels of haemoglobin in the blood. Iron deficiency is a common cause of anaemia and is estimated to be responsible for half of all anaemia cases in women and children globally. Causes of iron deficiency include malaria, hookworm, other helminths, and other nutritional deficiencies that have a bearing on haemoglobin production. Anaemia has other causes such as chronic infections and genetic conditions such as thalassemia. This report concentrates on anaemia caused by iron deficiency. Anaemia is a serious concern for children because it can impair cognitive development and is associated with long-term health and economic consequences (Balarajan et al. 2011). Severe anaemia leads to increased mortality. In the 2018 ZDHS, the HemoCue® Hb 201+ device was used to measure haemoglobin levels from a finger-stick blood sample, which was then used to determine anaemia levels in the population. All children age 6-59 months were eligible for testing. A weighted total of 8,623 children had blood tested for haemoglobin levels.

**Table 11.8** shows that the prevalence of anaemia in children age 6-59 months is 58%, with 29% mildly anaemic, 28% moderately anaemic, and 2% severely anaemic.

### Patterns by background characteristics

- The prevalence of anaemia is higher among younger (age 6-23 months) than older (age 24-59 months) children, with a peak prevalence of 77% among children age 9-11 and 12-17 months.
- Anaemia prevalence is the same in urban and rural areas (58%).
- By province, Luapula has the highest percentage of anaemia cases (71%), while Central has the lowest (50%) (**Figure 11.7**).
- The prevalence of anaemia generally decreases with increasing mother's education and household wealth.

### 11.4 MICRONUTRIENT INTAKE AND SUPPLEMENTATION AMONG CHILDREN

Micronutrient deficiencies are a major contributor to childhood morbidity and mortality. Micronutrients are available in foods and can also be provided through direct supplementation. Breastfeeding children benefit from supplements given to their mother.

The information collected on food consumption among children age 6-23 months is useful in assessing the extent to which children are consuming food groups rich in two key micronutrients—iron and vitamin A—in their daily diet. Iron plays an important role in numerous biological systems and iron deficiency is one of the primary causes of anaemia, which has serious health consequences for children. Vitamin A supports the immune system and plays an important role in maintaining the epithelial tissue in the body. Severe vitamin A deficiency (VAD) can cause eye damage and is the leading cause of childhood blindness. VAD also increases the severity of infections such as measles and diarrhoeal disease and slows recovery from illness. VAD is commonly found in dry places where fresh fruits and vegetables are rare.

The Ministry of Health implements biannual child health weeks. Vitamin A supplementation and providing deworming medication to children are the main interventions aimed at preventing iron and vitamin A deficiencies.

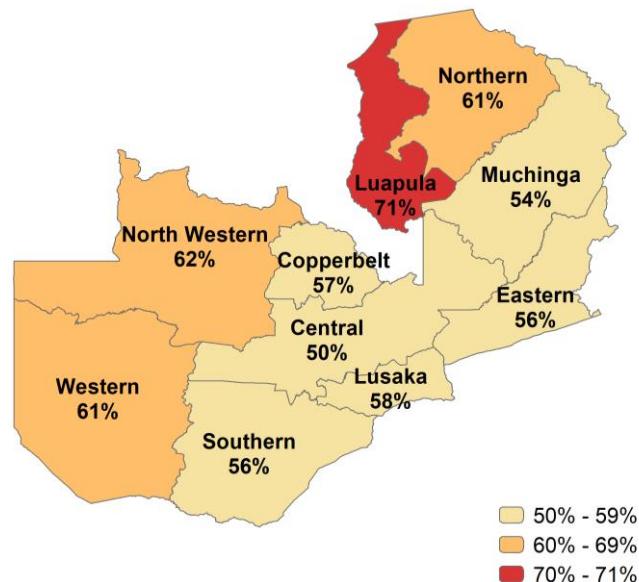
**Table 11.9** presents information on consumption of foods rich in vitamin A and iron in the 24 hours preceding the survey among last-born children age 6-23 months who are living with their mother. It also provides information on micronutrient supplementation and deworming among children age 6-59 months. Overall, 79% of children age 6-23 months consumed foods rich in vitamin A in the 24 hours before the survey, and more than half (54%) consumed foods rich in iron. Seventy-three percent of children age 6-59 months received vitamin A supplementation and 64% were given deworming medication in the past 6 months.

Clinical treatment for severely wasted children (with no medical complications) involves ready-to-use therapeutic foods alongside other interventions (WHO 2013). In Zambia, 2% of children age 6-35 months received Plumpy'nut (a ready-to-use therapeutic food) in the 7 days prior to the survey (**Table 11.10**).

**Trends:** The percentage of children age 6-23 months who consumed foods rich in vitamin A decreased from 84% in 2007 to 79% in 2018. Over the same period, the percentage of children consuming foods rich

**Figure 11.7 Anaemia in children by province**

Percentage of children age 6-59 months with any anaemia



in iron decreased from 63% to 54%. There were increases from 2007 to 2018 in the percentages of children age 6-59 months who received vitamin A supplements (from 63% to 73%) and deworming medication (from 60% to 64%). The percentage of children receiving iron supplements increased from 7% in 2013-14 to 11% in 2018.

### **Patterns by background characteristics**

- Rural children are less likely to receive deworming medication (63%) than urban children (66%) (**Table 11.9**).
- Supplementation is higher among nonbreastfeeding children than among breastfeeding children. Twelve percent of nonbreastfeeding children age 6-59 months are given iron supplements, as compared with 9% of breastfeeding children. Similarly, 74% of nonbreastfeeding children are given vitamin A supplements, compared with 70% of breastfeeding children.
- The percentage of children 6-59 months given deworming medication is notably higher (71%) among those who are not breastfed than among those who are breastfed (43%).
- There is provincial variation in provision of vitamin A and iron supplements. The percentages of children given vitamin A supplementation are highest in Copperbelt and Northern (81%) and lowest in Western (57%), while the percentages given iron supplementation are highest in Luapula (30%) and lowest in Northern and Muchinga (6% each).
- Consumption of foods rich in vitamin A is highest in Copperbelt (86%) and Lusaka (84%) and lowest in Muchinga (60%). Similarly, consumption of iron-rich foods is highest in Lusaka (74%) and Copperbelt (63%) and lowest in Muchinga (31%).
- Consumption of foods rich in vitamin A and iron, vitamin A supplements, and deworming medication tends to increase with increasing mother's education and household wealth.
- The majority of children receiving Plumpy'nut are severely wasted (10%) (**Table 11.10**).
- Four percent of children age 6-35 months in urban areas received Plumpy'nut, as compared with 1% of children in rural areas.
- The percentage of children receiving Plumpy'nut is highest in Lusaka (8%), followed by Southern (4%), and is low in the remaining provinces (0%-1%).
- In general, the percentage of children given Plumpy'nut increases with increasing mother's education (from 2% to 6%) and household wealth (from 1% to 5%).

## **11.5 ANAEMIA PREVALENCE IN WOMEN**

### **Haemoglobin levels below which women are considered anaemic**

| <b>Respondents</b>           | <b>Haemoglobin level in grams/decilitre*</b> |
|------------------------------|--|
| Non-pregnant women age 15-49 | Less than 12.0                               |
| Pregnant women age 15-49     | Less than 11.0                               |

\*Haemoglobin levels are adjusted for cigarette smoking and for altitude in enumeration areas that are above 1,000 metres.

In the 2018 ZDHS, all women age 15-49 were eligible to be tested for anaemia. The testing followed similar procedures used for children age 6-59 months, except that capillary blood was collected exclusively from a finger prick.

Anaemia is a major concern among women, leading to increased maternal mortality and poor birth outcomes as well as reductions in work productivity. **Table 11.11** shows that 31% of women age 15-49 are anaemic, with 16% being mildly anaemic, 14% being moderately anaemic, and 1% being severely anaemic.

#### Patterns by background characteristics

- Anaemia prevalence is higher in urban areas (32%) than in rural areas (30%).
- There is provincial variation in the prevalence of anaemia, from a low of 24% in Central to a high of 38% in Western.
- The prevalence of anaemia is lower among breastfeeding women (28%) than among pregnant women (41%) and women who are neither pregnant nor breastfeeding (31%).
- Women with a higher education (35%) have a higher prevalence of anaemia than those with less education (31%). Similarly, the prevalence of anaemia is slightly higher among women in the highest wealth quintile (33%) than among those in the lower wealth quintiles (30%-31%).

### 11.6 MICRONUTRIENT SUPPLEMENTATION AND DEWORMING DURING PREGNANCY

During pregnancy, women are at a higher risk of anaemia due to an increase in blood volume. Severe anaemia can place both the mother and the baby in danger through increased risk of blood loss during labour, preterm delivery, low birth weight, and perinatal mortality. To prevent anaemia, pregnant women are advised to take iron folate supplements, eat iron-rich foods, and prevent intestinal worms.

The 2018 ZDHS asked women age 15-49 who gave birth in the 5 years before the survey whether they took iron supplements and/or deworming medication during their most recent pregnancy. The results show that, overall, 73% of pregnant women took iron supplementation for 90 days or more, while 77% took deworming medication. Only 3% of women did not take any iron supplements (**Table 11.12**).

**Trends:** Both micronutrient supplementation and deworming during pregnancy have improved substantially over the past decade. The percentage of women taking iron supplementation for 90 days or more increased from 44% in 2007 to 59% in 2013-14 and 73% in 2018. The percentage of women who did not take any iron supplementation decreased over the same period (from 10% in 2007 to 5% in 2013-14 and 3% in 2018). Finally, the percentage of women taking deworming medication during pregnancy increased from 36% in 2007 to 64% in 2013-14 and 77% in 2018.

#### Patterns by background characteristics

- Women in urban areas were more likely than those in rural areas to have taken iron supplements for at least 90 days (75% versus 71%) and to have taken deworming tablets (82% versus 75%).
- The percentage of women using deworming medication increases with increasing education, from 71% among those with no education to 83% among those with a higher education. Wealth follows a similar pattern, rising from 72% to 84%.
- The percentage of women taking iron tablets for 90 days or more during the pregnancy of their last birth increases with rising education, from 64% among those with no education to 86% among those with a higher education. Again, wealth follows a similar pattern, rising from 69% to 78%.
- By province, North Western (84%) has the highest percentage of women taking iron supplementation for at least 90 days, whereas Luapula (51%) has the lowest percentage.

## **LIST OF TABLES**

For more information on nutrition of children and women, see the following tables:

- **Table 11.1** Nutritional status of children
- **Table 11.2** Initial breastfeeding
- **Table 11.3** Breastfeeding status by age
- **Table 11.4** Infant and young child feeding (IYCF) indicators on breastfeeding status
- **Table 11.5** Median duration of breastfeeding
- **Table 11.6** Foods and liquids consumed by children in the day or night preceding the interview
- **Table 11.7** Minimum acceptable diet
- **Table 11.8** Prevalence of anaemia in children
- **Table 11.9** Micronutrient intake among children
- **Table 11.10** Therapeutic foods
- **Table 11.11** Prevalence of anaemia in women
- **Table 11.12** Micronutrient intake among mothers

**Table 11.1 Nutritional status of children**

Percentage of children under age 5 classified as malnourished according to three anthropometric indices of nutritional status: height-for-age, weight-for-height, and weight-for-age, according to background characteristics, Zambia DHS 2018

| Background characteristic                             | Height-for-age <sup>1</sup> |                                      |                   |                    | Weight-for-height       |                                      |                         |                   | Weight-for-age     |                         |                                      |                         |                   |                    |
|---|-----------------------------|--------------------------------------|-------------------|--------------------|-------------------------|--------------------------------------|-------------------------|-------------------|--------------------|-------------------------|--------------------------------------|-------------------------|-------------------|--------------------|
|   | Percent-age below -3 SD     | Percent-age below -2 SD <sup>2</sup> | Mean Z-score (SD) | Number of children | Percent-age below -3 SD | Percent-age below -2 SD <sup>2</sup> | Percent-age above +2 SD | Mean Z-score (SD) | Number of children | Percent-age below -3 SD | Percent-age below -2 SD <sup>2</sup> | Percent-age above +2 SD | Mean Z-score (SD) | Number of children |
| <b>Age in months</b>                                  |                             |                                      |                   |                    |                         |                                      |                         |                   |                    |                         |                                      |                         |                   |                    |
| <6  | 6.7                         | 18.7                                 | -0.8              | 997                | 2.4                     | 5.1                                  | 15.0                    | 0.5               | 968                | 2.1                     | 7.6                                  | 3.3                     | -0.3              | 1,015              |
| 6-8   | 7.1                         | 22.5                                 | -1.0              | 459                | 0.8                     | 3.7                                  | 5.9                     | 0.1               | 454                | 2.4                     | 10.1                                 | 2.0                     | -0.6              | 467                |
| 9-11  | 9.8                         | 28.5                                 | -1.2              | 476                | 1.2                     | 6.6                                  | 5.6                     | -0.1              | 476                | 2.1                     | 12.7                                 | 0.8                     | -0.8              | 482                |
| 12-17   | 13.6                        | 36.2                                 | -1.5              | 962                | 2.3                     | 6.0                                  | 5.2                     | -0.1              | 964                | 3.2                     | 13.4                                 | 0.6                     | -0.8              | 969                |
| 18-23   | 20.0                        | 46.3                                 | -1.8              | 946                | 1.2                     | 4.6                                  | 5.2                     | -0.0              | 949                | 2.8                     | 15.8                                 | 0.8                     | -0.9              | 953                |
| 24-35   | 14.6                        | 42.7                                 | -1.7              | 1,959              | 1.7                     | 4.2                                  | 4.3                     | 0.2               | 1,959              | 2.4                     | 12.1                                 | 0.5                     | -0.8              | 1,980              |
| 36-47   | 11.6                        | 38.0                                 | -1.6              | 1,983              | 1.1                     | 2.8                                  | 3.7                     | 0.1               | 1,988              | 2.7                     | 12.4                                 | 0.4                     | -0.8              | 1,991              |
| 48-59   | 8.3                         | 28.5                                 | -1.4              | 1,827              | 1.3                     | 3.7                                  | 2.5                     | -0.0              | 1,835              | 1.4                     | 10.5                                 | 0.1                     | -0.9              | 1,832              |
| <b>Sex</b>  |                             |                                      |                   |                    |                         |                                      |                         |                   |                    |                         |                                      |                         |                   |                    |
| Male  | 13.6                        | 38.3                                 | -1.6              | 4,750              | 1.6                     | 4.8                                  | 5.4                     | 0.1               | 4,743              | 2.7                     | 13.5                                 | 0.8                     | -0.8              | 4,801              |
| Female  | 10.1                        | 31.0                                 | -1.3              | 4,860              | 1.4                     | 3.7                                  | 5.0                     | 0.1               | 4,850              | 2.0                     | 10.2                                 | 0.8                     | -0.7              | 4,889              |
| <b>Birth interval in months<sup>3</sup></b>           |                             |                                      |                   |                    |                         |                                      |                         |                   |                    |                         |                                      |                         |                   |                    |
| First birth <sup>4</sup>                              | 11.2                        | 35.0                                 | -1.5              | 2,132              | 1.8                     | 4.6                                  | 5.1                     | 0.1               | 2,114              | 3.2                     | 13.2                                 | 0.7                     | -0.8              | 2,155              |
| <24   | 14.8                        | 42.1                                 | -1.7              | 877                | 0.9                     | 4.1                                  | 4.9                     | 0.1               | 877                | 3.8                     | 17.0                                 | 0.6                     | -0.9              | 886                |
| 24-47   | 11.8                        | 35.1                                 | -1.5              | 3,599              | 1.3                     | 3.5                                  | 4.8                     | 0.1               | 3,585              | 1.8                     | 10.7                                 | 0.7                     | -0.8              | 3,619              |
| 48+   | 10.6                        | 30.5                                 | -1.3              | 2,155              | 1.8                     | 5.3                                  | 6.5                     | 0.1               | 2,146              | 2.0                     | 10.5                                 | 1.3                     | -0.7              | 2,173              |
| <b>Size at birth<sup>3</sup></b>                      |                             |                                      |                   |                    |                         |                                      |                         |                   |                    |                         |                                      |                         |                   |                    |
| Very small  | 14.9                        | 49.9                                 | -1.9              | 166                | 1.8                     | 6.4                                  | 3.5                     | -0.3              | 167                | 6.7                     | 24.6                                 | 1.0                     | -1.3              | 168                |
| Small   | 16.3                        | 46.5                                 | -1.8              | 788                | 1.6                     | 6.1                                  | 3.9                     | -0.2              | 785                | 4.8                     | 21.6                                 | 0.5                     | -1.2              | 794                |
| Average or larger                                     | 11.0                        | 33.0                                 | -1.4              | 7,598              | 1.5                     | 4.0                                  | 5.6                     | 0.1               | 7,563              | 2.0                     | 10.4                                 | 0.9                     | -0.7              | 7,663              |
| Missing   | 13.3                        | 37.7                                 | -1.6              | 207                | 2.4                     | 6.4                                  | 3.1                     | -0.1              | 206                | 4.0                     | 19.8                                 | 0.0                     | -1.0              | 207                |
| <b>Mother's interview status</b>                      |                             |                                      |                   |                    |                         |                                      |                         |                   |                    |                         |                                      |                         |                   |                    |
| Interviewed   | 11.7                        | 34.6                                 | -1.5              | 8,762              | 1.5                     | 4.3                                  | 5.3                     | 0.1               | 8,723              | 2.4                     | 11.9                                 | 0.9                     | -0.8              | 8,833              |
| Not interviewed but in household                      | 12.4                        | 34.6                                 | -1.3              | 205                | 1.7                     | 2.8                                  | 5.1                     | 0.2               | 207                | 2.8                     | 11.9                                 | 0.0                     | -0.6              | 205                |
| Not interviewed and not in the household <sup>5</sup> | 13.9                        | 33.8                                 | -1.4              | 642                | 1.7                     | 4.2                                  | 4.2                     | 0.1               | 663                | 1.4                     | 10.6                                 | 0.9                     | -0.7              | 651                |
| <b>Residence</b>                                      |                             |                                      |                   |                    |                         |                                      |                         |                   |                    |                         |                                      |                         |                   |                    |
| Urban   | 10.3                        | 32.1                                 | -1.3              | 3,320              | 2.1                     | 5.0                                  | 5.7                     | 0.1               | 3,307              | 2.2                     | 10.8                                 | 0.7                     | -0.7              | 3,341              |
| Rural   | 12.6                        | 35.9                                 | -1.5              | 6,289              | 1.2                     | 3.8                                  | 5.0                     | 0.1               | 6,287              | 2.4                     | 12.4                                 | 0.9                     | -0.8              | 6,348              |
| <b>Province</b>                                       |                             |                                      |                   |                    |                         |                                      |                         |                   |                    |                         |                                      |                         |                   |                    |
| Central   | 13.5                        | 33.4                                 | -1.3              | 866                | 2.2                     | 4.6                                  | 3.9                     | -0.0              | 860                | 2.4                     | 11.4                                 | 1.2                     | -0.8              | 875                |
| Copperbelt  | 8.9                         | 29.7                                 | -1.2              | 1,230              | 2.3                     | 5.4                                  | 5.0                     | 0.0               | 1,226              | 3.0                     | 12.1                                 | 0.5                     | -0.7              | 1,236              |
| Eastern   | 11.1                        | 34.2                                 | -1.5              | 1,266              | 0.7                     | 2.2                                  | 5.0                     | 0.2               | 1,262              | 1.9                     | 9.2                                  | 1.0                     | -0.7              | 1,269              |
| Luapula   | 16.9                        | 44.9                                 | -1.8              | 892                | 2.2                     | 6.2                                  | 5.2                     | 0.1               | 895                | 2.9                     | 15.2                                 | 0.7                     | -0.9              | 904                |
| Lusaka  | 12.3                        | 35.6                                 | -1.4              | 1,476              | 2.2                     | 5.5                                  | 8.1                     | 0.2               | 1,463              | 1.6                     | 10.6                                 | 1.0                     | -0.6              | 1,485              |
| Muchinga  | 10.2                        | 32.1                                 | -1.4              | 595                | 3.7                     | 8.2                                  | 3.5                     | -0.2              | 597                | 3.4                     | 15.3                                 | 0.8                     | -0.9              | 604                |
| Northern  | 19.4                        | 45.8                                 | -1.9              | 860                | 0.3                     | 3.1                                  | 8.3                     | 0.3               | 860                | 2.9                     | 14.1                                 | 1.3                     | -0.9              | 876                |
| North Western   | 10.5                        | 31.9                                 | -1.5              | 536                | 1.2                     | 2.4                                  | 3.3                     | 0.1               | 536                | 2.5                     | 10.4                                 | 0.5                     | -0.7              | 545                |
| Southern  | 7.9                         | 29.4                                 | -1.4              | 1,274              | 0.3                     | 2.3                                  | 3.8                     | 0.1               | 1,278              | 1.1                     | 9.7                                  | 0.6                     | -0.7              | 1,279              |
| Western   | 8.3                         | 29.0                                 | -1.4              | 615                | 0.3                     | 3.0                                  | 3.0                     | -0.1              | 615                | 3.2                     | 14.1                                 | 0.8                     | -0.9              | 616                |
| <b>Mother's education<sup>6</sup></b>                 |                             |                                      |                   |                    |                         |                                      |                         |                   |                    |                         |                                      |                         |                   |                    |
| No education  | 14.6                        | 38.2                                 | -1.6              | 907                | 1.0                     | 4.7                                  | 5.3                     | 0.1               | 911                | 4.0                     | 15.7                                 | 0.8                     | -0.9              | 921                |
| Primary   | 12.8                        | 37.6                                 | -1.6              | 4,599              | 1.3                     | 3.6                                  | 5.2                     | 0.1               | 4,572              | 2.4                     | 12.5                                 | 0.7                     | -0.8              | 4,625              |
| Secondary   | 9.8                         | 31.3                                 | -1.3              | 3,098              | 1.8                     | 4.9                                  | 5.3                     | 0.1               | 3,082              | 2.1                     | 10.3                                 | 0.9                     | -0.7              | 3,125              |
| Higher  | 5.1                         | 15.4                                 | -0.8              | 359                | 2.1                     | 5.0                                  | 6.9                     | 0.2               | 360                | 1.3                     | 8.6                                  | 1.9                     | -0.3              | 364                |
| Missing   | *                           | *                                    | *                 | 4                  | *                       | *                                    | *                       | *                 | 4                  | *                       | *                                    | *                       | *                 | 4                  |
| <b>Wealth quintile</b>                                |                             |                                      |                   |                    |                         |                                      |                         |                   |                    |                         |                                      |                         |                   |                    |
| Lowest  | 15.2                        | 40.1                                 | -1.7              | 2,352              | 1.3                     | 4.3                                  | 5.8                     | 0.0               | 2,352              | 3.3                     | 15.0                                 | 0.7                     | -0.9              | 2,370              |
| Second  | 12.5                        | 36.6                                 | -1.6              | 2,162              | 1.3                     | 3.9                                  | 4.4                     | 0.1               | 2,156              | 2.8                     | 13.2                                 | 0.9                     | -0.8              | 2,180              |
| Middle  | 10.1                        | 32.9                                 | -1.4              | 1,831              | 1.1                     | 3.0                                  | 4.5                     | 0.1               | 1,831              | 1.4                     | 9.3                                  | 0.7                     | -0.7              | 1,851              |
| Fourth  | 12.0                        | 35.3                                 | -1.4              | 1,792              | 2.1                     | 4.8                                  | 5.6                     | 0.1               | 1,788              | 2.1                     | 10.8                                 | 0.7                     | -0.7              | 1,801              |
| Highest   | 7.2                         | 23.9                                 | -1.1              | 1,472              | 1.9                     | 5.6                                  | 6.1                     | 0.1               | 1,466              | 1.6                     | 9.1                                  | 1.3                     | -0.5              | 1,487              |
| Total   | 11.8                        | 34.6                                 | -1.5              | 9,609              | 1.5                     | 4.2                                  | 5.2                     | 0.1               | 9,593              | 2.3                     | 11.8                                 | 0.8                     | -0.8              | 9,689              |

Notes: Each of the indices is expressed in standard deviation units (SD) from the median of the WHO Child Growth Standards. Total includes four children (five unweighted) for whom information on mother's education is missing. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Recumbent length is measured for children under age 2; standing height is measured for all other children.

<sup>2</sup> Includes children who are below -3 standard deviations (SD) from the WHO Child Growth standards population median

<sup>3</sup> Excludes children whose mothers were not interviewed

<sup>4</sup> First-born twins (triplets, etc.) are counted as first births because they do not have a previous birth interval.

<sup>5</sup> Includes children whose mothers are deceased

<sup>6</sup> For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire

**Table 11.2 Initial breastfeeding**

Among last-born children who were born in the 2 years preceding the survey, percentage who were ever breastfed and percentages who started breastfeeding within 1 hour and within 1 day of birth, and among last-born children born in the 2 years preceding the survey who were ever breastfed, percentage who received a prelacteal feed, according to background characteristics, Zambia DHS 2018

| Background characteristic          | Among last-born children born in the past 2 years: |   |   |                              | Among last-born children born in the past 2 years who were ever breastfed: |   |
|------------------------------------|--|---|---|------------------------------|--|---|
|                                    | Percentage ever breastfed                          | Percentage who started breastfeeding within 1 hour of birth | Percentage who started breastfeeding within 1 day of birth <sup>1</sup> | Number of last-born children | Percentage who received a prelacteal feed <sup>2</sup>                     | Number of last-born children ever breastfed |
| <b>Sex</b>                         |  |   |   |                              |  |   |
| Male                               | 97.8   | 76.2  | 95.3  | 1,983                        | 6.7  | 1,940                                       |
| Female                             | 98.0   | 74.8  | 95.9  | 1,922                        | 6.8  | 1,883                                       |
| <b>Assistance at delivery</b>      |  |   |   |                              |  |   |
| Health personnel <sup>3</sup>      | 98.0   | 77.3  | 95.7  | 3,262                        | 7.0  | 3,195                                       |
| Traditional birth attendant        | 96.7   | 68.6  | 95.1  | 183                          | 3.9  | 177   |
| Community/village health assistant | (95.3)   | (84.2)  | (95.3)  | 30                           | (1.8)  | 29  |
| Community/village health worker    | 98.5   | 67.4  | 94.9  | 304                          | 6.9  | 300   |
| Friend/relative                    | (100.0)  | (75.9)  | (100.0)   | 25                           | (9.9)  | 25  |
| Other                              | *  | *   | *   | 9                            | *  | 9   |
| No one                             | 97.1   | 49.0  | 94.7  | 92                           | 5.6  | 89  |
| <b>Place of delivery</b>           |  |   |   |                              |  |   |
| Health facility                    | 98.0   | 77.2  | 95.8  | 3,370                        | 6.9  | 3,303                                       |
| At home                            | 97.3   | 64.7  | 94.6  | 484                          | 5.4  | 471   |
| Other                              | 97.2   | 64.7  | 92.2  | 51                           | 13.6   | 49  |
| <b>Residence</b>                   |  |   |   |                              |  |   |
| Urban                              | 97.6   | 74.1  | 95.0  | 1,340                        | 10.8   | 1,308                                       |
| Rural                              | 98.1   | 76.2  | 95.9  | 2,564                        | 4.7  | 2,515                                       |
| <b>Province</b>                    |  |   |   |                              |  |   |
| Central                            | 97.9   | 79.2  | 95.1  | 343                          | 2.7  | 335   |
| Copperbelt                         | 98.2   | 76.0  | 94.4  | 473                          | 10.7   | 464   |
| Eastern                            | 99.0   | 75.7  | 97.9  | 569                          | 7.5  | 563   |
| Luapula                            | 98.5   | 73.2  | 96.3  | 375                          | 1.4  | 369   |
| Lusaka                             | 96.5   | 74.0  | 94.0  | 558                          | 13.7   | 539   |
| Muchinga                           | 97.6   | 70.4  | 93.7  | 227                          | 4.6  | 222   |
| Northern                           | 99.0   | 65.2  | 96.8  | 347                          | 2.8  | 343   |
| North Western                      | 97.2   | 86.3  | 97.1  | 219                          | 6.9  | 213   |
| Southern                           | 96.8   | 76.1  | 94.2  | 525                          | 4.8  | 508   |
| Western                            | 99.0   | 83.5  | 97.2  | 269                          | 7.8  | 266   |
| <b>Mother's education</b>          |  |   |   |                              |  |   |
| No education                       | 98.9   | 73.8  | 96.0  | 371                          | 6.7  | 368   |
| Primary                            | 98.4   | 77.0  | 96.2  | 1,970                        | 5.4  | 1,938                                       |
| Secondary                          | 96.9   | 75.1  | 95.1  | 1,410                        | 7.4  | 1,367                                       |
| Higher                             | 98.8   | 63.6  | 90.3  | 153                          | 19.9   | 151   |
| <b>Wealth quintile</b>             |  |   |   |                              |  |   |
| Lowest                             | 98.5   | 74.9  | 96.2  | 1,002                        | 4.6  | 986   |
| Second                             | 98.5   | 76.8  | 97.1  | 873                          | 4.4  | 860   |
| Middle                             | 97.9   | 78.9  | 96.0  | 738                          | 6.7  | 722   |
| Fourth                             | 97.6   | 73.4  | 94.4  | 672                          | 6.9  | 655   |
| Highest                            | 96.7   | 72.9  | 93.1  | 620                          | 13.9   | 600   |
| Total                              | 97.9   | 75.5  | 95.6  | 3,905                        | 6.8  | 3,823                                       |

Notes: Table is based on last-born children born in the 2 years preceding the survey regardless of whether the children are living or dead at the time of the interview. Figures in parentheses are based on 25–49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Includes children who started breastfeeding within 1 hour of birth

<sup>2</sup> Children given something other than breast milk during the first 3 days of life

<sup>3</sup> Doctor, nurse/midwife, or clinical officer

**Table 11.3 Breastfeeding status by age**

Percent distribution of youngest children under age 2 who are living with their mother by breastfeeding status and percentage currently breastfeeding, and percentage of all children under age 2 using a bottle with a nipple, according to age in months, Zambia DHS 2018

| Age in months | Breastfeeding status |                       |   |  |   |  | Percentage currently breast-feeding | Number of youngest children under age 2 living with their mother | Percentage using a bottle with a nipple | Number of all children under age 2 |       |
|---------------|----------------------|-----------------------|---|--|---|--|-------------------------------------|--|---|------------------------------------|-------|
|               | Not breast-feeding   | Exclusively breastfed | Breast-feeding and consuming plain water only | Breast-feeding and consuming non-milk liquids <sup>1</sup> | Breast-feeding and consuming other milk | Breast-feeding and consuming complementary foods |                                     |  |   |                                    |       |
| 0-1           | 4.3                  | 90.6                  | 1.8   | 0.9  | 1.2                                     | 1.2  | 100.0                               | 95.7   | 366                                     | 4.1                                | 373   |
| 2-3           | 3.5                  | 76.4                  | 7.9   | 1.2  | 1.8                                     | 9.2  | 100.0                               | 96.5   | 308                                     | 4.9                                | 313   |
| 4-5           | 2.2                  | 42.1                  | 8.6   | 5.6  | 1.5                                     | 40.0   | 100.0                               | 97.8   | 345                                     | 11.8                               | 350   |
| 6-8           | 2.9                  | 3.0                   | 2.3   | 0.7  | 0.2                                     | 90.9   | 100.0                               | 97.1   | 445                                     | 7.0                                | 452   |
| 9-11          | 7.7                  | 0.8                   | 5.2   | 0.8  | 0.0                                     | 85.5   | 100.0                               | 92.3   | 468                                     | 4.8                                | 472   |
| 12-17         | 15.2                 | 0.3                   | 1.4   | 0.5  | 0.1                                     | 82.4   | 100.0                               | 84.8   | 931                                     | 6.2                                | 957   |
| 18-23         | 59.8                 | 0.0                   | 0.9   | 0.0  | 0.0                                     | 39.3   | 100.0                               | 40.2   | 886                                     | 4.5                                | 934   |
| 0-3           | 3.9                  | 84.1                  | 4.6   | 1.0  | 1.5                                     | 4.9  | 100.0                               | 96.1   | 674                                     | 4.5                                | 686   |
| 0-5           | 3.4                  | 69.9                  | 6.0   | 2.6  | 1.5                                     | 16.8   | 100.0                               | 96.6   | 1,020                                   | 6.9                                | 1,036 |
| 6-9           | 5.0                  | 2.5                   | 3.2   | 0.8  | 0.2                                     | 88.3   | 100.0                               | 95.0   | 615                                     | 7.1                                | 625   |
| 12-15         | 10.2                 | 0.5                   | 1.8   | 0.3  | 0.2                                     | 87.1   | 100.0                               | 89.8   | 633                                     | 5.6                                | 649   |
| 12-23         | 37.0                 | 0.2                   | 1.1   | 0.3  | 0.1                                     | 61.4   | 100.0                               | 63.0   | 1,817                                   | 5.4                                | 1,891 |
| 20-23         | 69.6                 | 0.0                   | 0.8   | 0.0  | 0.0                                     | 29.6   | 100.0                               | 30.4   | 588                                     | 4.5                                | 629   |

Note: Breastfeeding status refers to a “24-hour” period (yesterday and last night). Children who are classified as breastfeeding and consuming plain water only consumed no liquid or solid supplements. The categories of not breastfeeding, exclusively breastfed, breastfeeding and consuming plain water, non-milk liquids, other milk, and complementary foods (solids and semisolids) are hierarchical and mutually exclusive, and their percentages add to 100%. Thus, children who receive breast milk and non-milk liquids and who do not receive other milk and who do not receive complementary foods are classified in the non-milk liquid category even though they may also get plain water. Any children who get complementary food are classified in that category as long as they are breastfeeding as well.

<sup>1</sup> Non-milk liquids include juice, juice drinks, clear broth, or other liquids.

**Table 11.4 Infant and young child feeding (IYCF) indicators on breastfeeding status**

Percentage of children fed according to various IYCF practices, Zambia DHS 2018

| Indicator  | Percentage | Number |
|--|------------|--------|
| Exclusive breastfeeding under 6 months                       | 69.9       | 1,020  |
| Exclusive breastfeeding at 4-5 months                        | 42.1       | 345    |
| Continued breastfeeding at 1 year (12-15 months)             | 89.8       | 633    |
| Introduction of solid, semisolid, or soft foods (6-8 months) | 93.6       | 445    |
| Continued breastfeeding at 2 years                           | 30.4       | 588    |
| Age-appropriate breastfeeding (0-23 months)                  | 70.2       | 3,749  |
| Predominant breastfeeding (0-5 months)                       | 78.4       | 1,020  |
| Mixed breast and non-breast milk feeding (0-5 months)        | 3.0        | 1,020  |
| Bottle feeding (0-23 months)                                 | 5.9        | 3,850  |

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**Table 11.5 Median duration of breastfeeding**

Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among children born in the 3 years preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic | Median duration (months) of breastfeeding among children born in the past 3 years <sup>1</sup> |                         |  |
|---------------------------|--|-------------------------|--|
|                           | Any breastfeeding  | Exclusive breastfeeding | Predominant breastfeeding <sup>2</sup> |
| <b>Sex</b>                |  |                         |  |
| Male                      | 19.2   | 4.4                     | 5.0                                    |
| Female                    | 19.5   | 4.1                     | 4.8                                    |
| <b>Residence</b>          |  |                         |  |
| Urban                     | 18.0   | 4.2                     | 4.8                                    |
| Rural                     | 20.0   | 4.3                     | 4.9                                    |
| <b>Province</b>           |  |                         |  |
| Central                   | 19.5   | 4.8                     | 5.4                                    |
| Copperbelt                | 18.0   | 4.4                     | 5.2                                    |
| Eastern                   | 20.0   | 3.7                     | 4.3                                    |
| Luapula                   | 19.4   | 4.2                     | 4.6                                    |
| Lusaka                    | 17.6   | 3.9                     | 4.4                                    |
| Muchinga                  | 21.1   | 4.3                     | 4.7                                    |
| Northern                  | 21.4   | 4.1                     | 4.8                                    |
| North Western             | 18.9   | *                       | 3.5                                    |
| Southern                  | 19.1   | 5.0                     | 5.7                                    |
| Western                   | 21.3   | 5.2                     | 5.9                                    |
| <b>Mother's education</b> |  |                         |  |
| No education              | 20.8   | 4.8                     | 5.3                                    |
| Primary                   | 19.9   | 4.3                     | 4.8                                    |
| Secondary                 | 18.3   | 4.2                     | 5.0                                    |
| Higher                    | (15.8)   | *                       | (3.7)                                  |
| <b>Wealth quintile</b>    |  |                         |  |
| Lowest                    | 20.9   | 4.2                     | 4.9                                    |
| Second                    | 19.9   | 4.3                     | 4.9                                    |
| Middle                    | 19.0   | 4.4                     | 5.4                                    |
| Fourth                    | 18.9   | 4.5                     | 4.8                                    |
| Highest                   | 17.1   | 4.0                     | 4.5                                    |
| Total                     | 19.4   | 4.3                     | 4.9                                    |
| Mean for all children     | 19.3   | 5.2                     | 6.1                                    |

Notes: Median and mean durations are based on breastfeeding status of the child at the time of the survey (current status). Includes living and deceased children. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed

<sup>1</sup> For last-born children under age 24 months who live with their mother and are breastfeeding, information to determine exclusive and predominant breastfeeding comes from a 24-hour dietary recall. Tabulations assume that last-born children age 24 months or older who live with their mother and are breastfeeding are neither exclusively nor predominantly breastfed. It is assumed that last-born children not currently living with their mother and all non-last-born children are not currently breastfeeding.

<sup>2</sup> Either exclusively breastfed or received breast milk and plain water and/or non-milk liquids only

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**Table 11.6 Foods and liquids consumed by children in the day or night preceding the interview**

Percentage of youngest children under age 2 who are living with their mother by type of foods consumed in the day or night preceding the interview, according to breastfeeding status and age, Zambia DHS 2018

| Age in months                    | Liquids        |                         |                            |                      | Solid or semisolid foods           |  |                             |                                 |                                 |                     |        |                                     |             |                              | Number of children under age 2 |
|----------------------------------|----------------|-------------------------|----------------------------|----------------------|------------------------------------|--|-----------------------------|---------------------------------|---------------------------------|---------------------|--------|-------------------------------------|-------------|------------------------------|--------------------------------|
|                                  | Infant formula | Other milk <sup>1</sup> | Other liquids <sup>2</sup> | Fortified baby foods | Food made from grains <sup>3</sup> | Fruits and vegetables rich in vitamin A <sup>4</sup> | Other fruits and vegetables | Food made from roots and tubers | Food made from legumes and nuts | Meat, fish, poultry | Eggs   | Cheese, yogurt, other milk products | Caterpillar | Any solid or semi-solid food |                                |
|                                  |                |                         |                            |                      |                                    |  |                             |                                 |                                 |                     |        |                                     |             |                              |                                |
| <b>BREASTFEEDING CHILDREN</b>    |                |                         |                            |                      |                                    |  |                             |                                 |                                 |                     |        |                                     |             |                              |                                |
| 0-1                              | 1.1            | 0.8                     | 1.4                        | 0.5                  | 1.2                                | 0.1  | 0.0                         | 0.0                             | 0.0                             | 0.0                 | 0.0    | 0.0                                 | 0.0         | 1.2                          | 351                            |
| 2-3                              | 1.5            | 1.0                     | 3.5                        | 3.1                  | 7.4                                | 0.0  | 1.8                         | 0.0                             | 0.0                             | 0.0                 | 0.0    | 0.2                                 | 0.0         | 9.6                          | 297                            |
| 4-5                              | 3.6            | 2.6                     | 15.8                       | 14.5                 | 37.2                               | 4.1  | 2.2                         | 0.4                             | 3.7                             | 3.1                 | 1.8    | 3.8                                 | 0.0         | 40.9                         | 338                            |
| 6-8                              | 2.1            | 3.8                     | 42.7                       | 21.6                 | 84.0                               | 36.4   | 16.4                        | 5.6                             | 14.9                            | 24.9                | 17.0   | 6.0                                 | 2.6         | 92.8                         | 432                            |
| 9-11                             | 1.7            | 3.2                     | 45.4                       | 16.1                 | 82.5                               | 60.7   | 22.5                        | 7.5                             | 22.6                            | 34.6                | 22.9   | 5.5                                 | 2.2         | 92.2                         | 432                            |
| 12-17                            | 1.4            | 4.0                     | 51.2                       | 13.7                 | 85.0                               | 67.4   | 30.0                        | 11.6                            | 22.2                            | 45.3                | 21.5   | 6.2                                 | 2.4         | 96.2                         | 789                            |
| 18-23                            | 1.2            | 5.7                     | 44.7                       | 15.9                 | 84.5                               | 69.1   | 25.6                        | 15.6                            | 30.9                            | 50.1                | 22.9   | 8.2                                 | 4.1         | 96.6                         | 356                            |
| 6-23                             | 1.6            | 4.1                     | 47.0                       | 16.3                 | 84.2                               | 59.6   | 24.7                        | 10.1                            | 22.3                            | 39.5                | 21.0   | 6.4                                 | 2.7         | 94.7                         | 2,009                          |
| Total                            | 1.7            | 3.2                     | 33.8                       | 12.9                 | 61.5                               | 40.5   | 17.0                        | 6.9                             | 15.3                            | 26.8                | 14.3   | 4.7                                 | 1.8         | 69.2                         | 2,995                          |
| <b>NONBREASTFEEDING CHILDREN</b> |                |                         |                            |                      |                                    |  |                             |                                 |                                 |                     |        |                                     |             |                              |                                |
| 0-1                              | *              | *                       | *                          | *                    | *                                  | *  | *                           | *                               | *                               | *                   | *      | *                                   | *           | *                            | 16                             |
| 2-3                              | *              | *                       | *                          | *                    | *                                  | *  | *                           | *                               | *                               | *                   | *      | *                                   | *           | *                            | 11                             |
| 4-5                              | *              | *                       | *                          | *                    | *                                  | *  | *                           | *                               | *                               | *                   | *      | *                                   | *           | *                            | 8                              |
| 6-8                              | *              | *                       | *                          | *                    | *                                  | *  | *                           | *                               | *                               | *                   | *      | *                                   | *           | *                            | 13                             |
| 9-11                             | (7.3)          | (12.7)                  | (60.0)                     | (23.7)               | (88.1)                             | (70.2)   | (43.1)                      | (2.8)                           | (16.0)                          | (40.7)              | (50.8) | (21.8)                              | (4.1)       | (97.9)                       | 36                             |
| 12-17                            | 5.2            | 10.7                    | 55.3                       | 14.2                 | 90.4                               | 71.4   | 43.5                        | 15.2                            | 29.8                            | 42.0                | 34.8   | 16.0                                | 5.4         | 98.9                         | 142                            |
| 18-23                            | 0.3            | 7.4                     | 61.5                       | 16.0                 | 87.9                               | 80.0   | 32.8                        | 15.4                            | 25.5                            | 48.4                | 28.4   | 8.1                                 | 3.7         | 97.4                         | 529                            |
| 6-23                             | 2.1            | 8.4                     | 60.1                       | 16.6                 | 88.2                               | 76.9   | 35.1                        | 14.7                            | 25.5                            | 46.5                | 30.7   | 10.5                                | 3.9         | 97.7                         | 720                            |
| Total                            | 2.4            | 8.2                     | 57.4                       | 16.3                 | 84.7                               | 73.4   | 33.7                        | 14.0                            | 24.3                            | 44.4                | 29.3   | 10.2                                | 3.8         | 93.8                         | 755                            |

Notes: Breastfeeding status and food consumed refer to a "24-hour" period (yesterday and last night). Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Other milk includes fresh, tinned, and powdered cow or other animal milk.

<sup>2</sup> Does not include plain water. Includes juice, juice drinks, clear broth, or other non-milk liquids.

<sup>3</sup> Includes fortified baby food

<sup>4</sup> Includes pumpkin, carrots, squash, sweet potatoes that are yellow or orange inside, dark green leafy vegetables, cassava leaves, ripe mangoes, ripe papayas, apricot, watermelon, and other locally grown fruits and vegetables that are rich in vitamin A

**Table 11.7 Minimum acceptable diet**

Percentage of youngest children age 6-23 months living with their mother who are fed a minimum acceptable diet based on breastfeeding status, number of food groups, and times they are fed during the day or night preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Among breastfed children age 6-23 months, percentage fed: |                                     |  |   | Among nonbreastfed children age 6-23 months, percentage fed: |                                     |   |   | Among all children age 6-23 months, percentage fed: |                                     |                                      |  |      |
|--|---|-------------------------------------|--|---|--|-------------------------------------|---|---|---|-------------------------------------|--------------------------------------|--|------|
|  | Minimum dietary diversity <sup>1</sup>                    | Minimum meal frequency <sup>2</sup> | Number of breastfed children age 6-23 months | Minimum milk feeding frequency <sup>4</sup> | Minimum dietary diversity <sup>1</sup>                       | Minimum meal frequency <sup>5</sup> | Number of nonbreastfed children age 6-23 months | Breastmilk, milk, or milk products <sup>7</sup> | Minimum dietary diversity <sup>1</sup>              | Minimum meal frequency <sup>8</sup> | Minimum acceptable diet <sup>9</sup> | Number of all children age 6-23 months |      |
|  |   |                                     |  |   |  |                                     |   |   |   |                                     |                                      |  |      |
| <b>Age in months</b>   |   |                                     |  |   |  |                                     |   |   |   |                                     |                                      |  |      |
| 6-11   | 19.2  | 55.9                                | 13.2   | 864   | (24.4) <sup>*</sup>  | (13.4) <sup>*</sup>                 | (26.4) <sup>*</sup>                             | (8.7) <sup>*</sup>                              | 49  | 95.9                                | 18.9                                 | 54.4                                   | 12.9 |
| 6-8  | 14.8  | 70.6                                | 12.0   | 432   |  |                                     |   |   | 13  | 97.9                                | 14.4                                 | 69.4                                   | 11.6 |
| 9-11   | 23.6  | 41.3                                | 14.4   | 432   | (23.2)   | (18.1)                              | (25.8)  | (11.7)  | 36  | 94.1                                | 23.1                                 | 40.1                                   | 14.2 |
| 12-17  | 29.3  | 44.8                                | 18.3   | 789   | 11.3   | 20.2                                | 25.2  | 5.6   | 142   | 86.5                                | 27.9                                 | 41.8                                   | 16.4 |
| 18-23  | 33.3  | 40.9                                | 15.2   | 356   | 6.0  | 15.7                                | 20.3  | 2.8   | 529   | 43.8                                | 22.8                                 | 28.6                                   | 7.8  |
| <b>Sex</b>   |   |                                     |  |   |  |                                     |   |   |   |                                     |                                      |  |      |
| Male   | 25.4  | 49.4                                | 15.5   | 1,000                                       | 9.5  | 18.6                                | 24.1  | 4.6   | 375   | 75.3                                | 23.6                                 | 42.5                                   | 12.6 |
| Female   | 25.9  | 48.4                                | 15.6   | 1,010                                       | 7.0  | 14.1                                | 19.1  | 2.8   | 345   | 76.3                                | 22.9                                 | 40.9                                   | 12.4 |
| <b>Residence</b>   |   |                                     |  |   |  |                                     |   |   |   |                                     |                                      |  |      |
| Urban  | 41.7  | 54.5                                | 24.6   | 618   | 13.8   | 27.2                                | 31.0  | 6.5   | 321   | 70.5                                | 36.7                                 | 46.5                                   | 18.4 |
| Rural  | 18.5  | 46.4                                | 11.6   | 1,392                                       | 3.8  | 7.8                                 | 14.2  | 1.5   | 399   | 78.6                                | 16.1                                 | 39.2                                   | 9.3  |
| <b>Province</b>  |   |                                     |  |   |  |                                     |   |   |   |                                     |                                      |  |      |
| Central  | 29.9  | 50.9                                | 20.4   | 169   | 6.7  | 12.0                                | 22.4  | 1.1   | 67  | 73.6                                | 24.8                                 | 42.8                                   | 14.9 |
| Copperbelt   | 38.8  | 55.5                                | 26.4   | 205   | 12.5   | 19.2                                | 26.8  | 5.4   | 128   | 66.4                                | 31.3                                 | 44.5                                   | 18.3 |
| Eastern  | 20.7  | 68.4                                | 16.4   | 321   | 4.6  | 11.3                                | 18.4  | 2.1   | 89  | 79.3                                | 18.7                                 | 57.5                                   | 13.3 |
| Luapula  | 22.5  | 27.1                                | 9.4  | 195   | 2.0  | 12.5                                | 2.7   | 2.0   | 57  | 77.7                                | 20.2                                 | 21.5                                   | 7.7  |
| Lusaka   | 44.3  | 64.0                                | 25.4   | 257   | 14.6   | 31.2                                | 32.0  | 7.1   | 137   | 70.3                                | 39.8                                 | 52.9                                   | 19.1 |
| Muchinga   | 14.7  | 39.5                                | 7.3  | 120   | (3.2)  | (6.5)                               | (9.3)   | (1.6)   | 31  | 79.9                                | 13.0                                 | 33.2                                   | 6.1  |
| Northern   | 18.5  | 37.2                                | 12.1   | 200   | (2.5)  | (5.6)                               | (13.7)  | (0.0)   | 41  | 83.5                                | 16.3                                 | 33.2                                   | 10.1 |
| North Western  | 10.6  | 51.9                                | 8.8  | 115   | 2.8  | 4.0                                 | 17.8  | 1.5   | 48  | 71.5                                | 8.7                                  | 41.9                                   | 6.6  |
| Southern   | 27.7  | 46.6                                | 13.3   | 272   | 9.4  | 19.7                                | 24.2  | 6.0   | 91  | 77.3                                | 25.7                                 | 41.0                                   | 11.4 |
| Western  | 12.2  | 23.9                                | 5.7  | 155   | (6.3)  | (6.0)                               | (20.2)  | (0.0)   | 31  | 84.1                                | 11.2                                 | 23.3                                   | 4.8  |
| <b>Mother's education</b>  |   |                                     |  |   |  |                                     |   |   |   |                                     |                                      |  |      |
| No education   | 15.8  | 40.1                                | 7.2  | 202   | 6.5  | 14.7                                | 15.5  | 2.5   | 51  | 81.2                                | 15.5                                 | 35.2                                   | 6.2  |
| Primary  | 21.2  | 43.6                                | 12.3   | 1,054                                       | 2.3  | 8.7                                 | 11.2  | 0.8   | 342   | 76.1                                | 18.1                                 | 35.7                                   | 9.5  |
| Secondary  | 32.4  | 58.1                                | 21.1   | 684   | 11.9   | 20.3                                | 28.4  | 4.9   | 291   | 73.7                                | 28.8                                 | 49.2                                   | 16.2 |
| Higher   | 54.9  | 62.8                                | 34.6   | 70  | (37.3)   | (61.5)                              | (75.2)  | (24.2)  | 36  | 78.5                                | 57.2                                 | 67.0                                   | 31.1 |
| <b>Wealth quintile</b>   |   |                                     |  |   |  |                                     |   |   |   |                                     |                                      |  |      |
| Lowest   | 13.0  | 38.2                                | 7.5  | 566   | 1.8  | 3.3                                 | 4.9   | 0.0   | 130   | 81.7                                | 11.2                                 | 31.9                                   | 6.1  |
| Second   | 22.6  | 46.5                                | 13.7   | 481   | 0.6  | 4.4                                 | 12.7  | 0.0   | 138   | 77.9                                | 18.5                                 | 39.0                                   | 10.7 |
| Middle   | 22.4  | 52.3                                | 13.2   | 372   | 6.3  | 12.5                                | 16.9  | 3.3   | 132   | 75.5                                | 19.8                                 | 43.1                                   | 10.6 |
| Fourth   | 35.2  | 54.9                                | 20.4   | 318   | 7.6  | 22.9                                | 25.5  | 3.8   | 162   | 68.8                                | 31.1                                 | 45.0                                   | 14.8 |
| Highest  | 50.6  | 63.6                                | 33.3   | 273   | 22.5   | 34.3                                | 43.2  | 10.4  | 159   | 71.4                                | 44.6                                 | 56.1                                   | 24.9 |
| Total  | 25.6  | 48.9                                | 15.6   | 2,009                                       | 8.3  | 16.5                                | 21.7  | 3.8   | 720   | 75.8                                | 23.2                                 | 41.7                                   | 12.5 |
| Notes: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. |   |                                     |  |   |  |                                     |   |   |   |                                     |                                      |  |      |

<sup>1</sup> Children receive foods from five or more of the following eight food groups: a. breast milk; b. infant formula, milk other than breast milk, cheese or yogurt or other milk products; c. foods made from grains, roots, and tubers, including porridge and fortified baby food from grains; d. vitamin A-rich fruits and vegetables; e. other fruits and vegetables; f. eggs; g. meat, poultry, fish, and shellfish (and organ meats); h. legumes and nuts

<sup>2</sup> For breastfed children, minimum meal frequency is receiving solid, semisolid, or soft food at least twice a day for infants age 6-8 months and at least three times a day for children age 9-23 months.

<sup>3</sup> Breastfed children age 6-23 months are considered to be fed a minimum acceptable diet if they are fed the minimum dietary diversity as described in footnote 1 and the minimum meal frequency as defined in footnote 2.

<sup>4</sup> Includes two or more feedings of commercial infant formula; fresh, tinned, and powdered animal milk; and yogurt

<sup>5</sup> For nonbreastfed children age 6-23 months, minimum meal frequency is receiving solid, semisolid, or soft food or milk feeds at least four times a day. At least one of the feeds must be a solid, semisolid, or soft feed.

<sup>6</sup> Nonbreastfed children age 6-23 months are considered to be fed a minimum acceptable diet if they receive other milk or milk products at least twice a day, receive the minimum meal frequency as defined in footnote 5, and receive solid, semisolid, or soft foods from at least four food groups not including the milk or milk products food group.

<sup>7</sup> Breastfeeding, or not breastfeeding and receiving two or more feedings of commercial infant formula; fresh, tinned, and powdered animal milk; and yogurt

<sup>8</sup> Children are fed the minimum recommended number of times per day according to their age and breastfeeding status as described in footnotes 2 and 5.

<sup>9</sup> Children age 6-23 months are considered to be fed a minimum acceptable diet if they receive breast milk, receive other milk or milk products as described in footnote 7, are fed the minimum dietary diversity as described in footnote 1, and are fed the minimum meal frequency as described in footnotes 2 and 5.

**Table 11.8 Prevalence of anaemia in children**

Percentage of children age 6-59 months classified as having anaemia, according to background characteristics, Zambia DHS 2018

| Background characteristic                             | Anaemia status by haemoglobin level |                               |                                 |                            |                                    |
|---|-------------------------------------|-------------------------------|---------------------------------|----------------------------|------------------------------------|
|   | Any anaemia (<11.0 g/dl)            | Mild anaemia (10.0-10.9 g/dl) | Moderate anaemia (7.0-9.9 g/dl) | Severe anaemia (<7.0 g/dl) | Number of children age 6-59 months |
| <b>Age in months</b>                                  |                                     |                               |                                 |                            |                                    |
| 6-8   | 73.1                                | 28.8                          | 42.2                            | 2.2                        | 451                                |
| 9-11  | 77.1                                | 25.4                          | 48.8                            | 3.0                        | 479                                |
| 12-17   | 76.6                                | 30.9                          | 43.1                            | 2.6                        | 960                                |
| 18-23   | 71.8                                | 33.8                          | 36.8                            | 1.2                        | 944                                |
| 24-35   | 59.1                                | 30.3                          | 27.3                            | 1.5                        | 1,968                              |
| 36-47   | 49.5                                | 28.6                          | 19.4                            | 1.5                        | 1,988                              |
| 48-59   | 41.1                                | 24.0                          | 16.8                            | 0.3                        | 1,834                              |
| <b>Sex</b>  |                                     |                               |                                 |                            |                                    |
| Male  | 59.7                                | 28.4                          | 29.5                            | 1.8                        | 4,268                              |
| Female  | 56.6                                | 28.9                          | 26.5                            | 1.2                        | 4,355                              |
| <b>Mother's interview status</b>                      |                                     |                               |                                 |                            |                                    |
| Interviewed   | 59.0                                | 28.9                          | 28.7                            | 1.5                        | 7,756                              |
| Not interviewed but in household                      | 48.4                                | 23.2                          | 22.6                            | 2.6                        | 199                                |
| Not interviewed and not in the household <sup>1</sup> | 50.6                                | 27.4                          | 21.9                            | 1.3                        | 667                                |
| <b>Residence</b>                                      |                                     |                               |                                 |                            |                                    |
| Urban   | 58.1                                | 27.8                          | 28.7                            | 1.6                        | 2,982                              |
| Rural   | 58.2                                | 29.1                          | 27.6                            | 1.4                        | 5,641                              |
| <b>Province</b>                                       |                                     |                               |                                 |                            |                                    |
| Central   | 50.0                                | 28.4                          | 21.2                            | 0.3                        | 773                                |
| Copperbelt  | 57.2                                | 26.1                          | 29.7                            | 1.4                        | 1,104                              |
| Eastern   | 55.9                                | 28.9                          | 25.8                            | 1.2                        | 1,134                              |
| Luapula   | 70.7                                | 29.7                          | 38.2                            | 2.8                        | 796                                |
| Lusaka  | 57.9                                | 28.7                          | 27.7                            | 1.5                        | 1,334                              |
| Muchinga  | 53.5                                | 27.4                          | 25.1                            | 0.9                        | 535                                |
| Northern  | 61.3                                | 29.0                          | 29.5                            | 2.7                        | 773                                |
| North Western   | 61.6                                | 31.7                          | 28.8                            | 1.1                        | 492                                |
| Southern  | 55.7                                | 28.6                          | 25.9                            | 1.1                        | 1,145                              |
| Western   | 60.9                                | 30.2                          | 29.1                            | 1.6                        | 537                                |
| <b>Mother's education<sup>2</sup></b>                 |                                     |                               |                                 |                            |                                    |
| No education  | 63.9                                | 27.7                          | 32.9                            | 3.3                        | 815                                |
| Primary   | 57.5                                | 29.3                          | 26.8                            | 1.4                        | 4,081                              |
| Secondary   | 59.9                                | 27.9                          | 30.9                            | 1.1                        | 2,742                              |
| Higher  | 52.8                                | 32.3                          | 19.2                            | 1.3                        | 314                                |
| Missing   | *                                   | *                             | *                               | *                          | 4                                  |
| <b>Wealth quintile</b>                                |                                     |                               |                                 |                            |                                    |
| Lowest  | 61.0                                | 30.0                          | 29.2                            | 1.9                        | 2,088                              |
| Second  | 57.4                                | 27.0                          | 28.9                            | 1.4                        | 1,933                              |
| Middle  | 57.8                                | 30.7                          | 25.8                            | 1.3                        | 1,646                              |
| Fourth  | 56.8                                | 26.5                          | 29.1                            | 1.2                        | 1,628                              |
| Highest   | 56.8                                | 29.0                          | 26.4                            | 1.5                        | 1,327                              |
| Total   | 58.1                                | 28.7                          | 28.0                            | 1.5                        | 8,623                              |

Notes: Table is based on children who stayed in the household on the night before the interview and who were tested for anaemia. Prevalence of anaemia, based on haemoglobin levels, is adjusted for altitude using formulas in CDC 1998. Haemoglobin is in grams per decilitre (g/dl). An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed

<sup>1</sup> Includes children whose mothers are deceased

<sup>2</sup> For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

**Table 11.9 Micronutrient intake among children**

Among youngest children age 6-23 months who are living with their mother, percentages who consumed vitamin A-rich and iron-rich foods in the 24 hours preceding the survey, and among all children age 6-59 months, percentages who were given vitamin A supplements in the 6 months preceding the survey, who were given iron supplements in the 7 days preceding the survey, and who were given deworming medication in the 6 months preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic   | Among youngest children age 6-23 months living with their mother:             |  |                    | Among all children age 6-59 months:                           |  |   |                    |
|-----------------------------|---|--|--------------------|---|--|---|--------------------|
|                             | Percentage who consumed foods rich in vitamin A in last 24 hours <sup>1</sup> | Percentage who consumed foods rich in iron in last 24 hours <sup>2</sup> | Number of children | Percentage given iron supplements in past 7 days <sup>3</sup> | Percentage given vitamin A supplements in past 6 months <sup>4</sup> | Percentage given deworming medication in past 6 months <sup>3,5</sup> | Number of children |
| <b>Age in months</b>        |   |  |                    |   |  |   |                    |
| 6-8                         | 54.6  | 36.5   | 445                | 5.4   | 44.2   | 11.9  | 452                |
| 9-11                        | 74.7  | 48.3   | 468                | 7.2   | 72.0   | 22.5  | 472                |
| 12-17                       | 84.1  | 57.5   | 931                | 10.1  | 80.8   | 58.5  | 957                |
| 18-23                       | 89.2  | 61.2   | 886                | 10.9  | 78.3   | 71.5  | 934                |
| 24-35                       | na  | na   | na                 | 12.8  | 77.1   | 73.0  | 1,862              |
| 36-47                       | na  | na   | na                 | 11.6  | 70.5   | 70.8  | 1,866              |
| 48-59                       | na  | na   | na                 | 12.4  | 72.9   | 69.9  | 1,782              |
| <b>Sex</b>                  |   |  |                    |   |  |   |                    |
| Male                        | 79.8  | 54.1   | 1,374              | 10.6  | 74.0   | 64.7  | 4,150              |
| Female                      | 78.8  | 53.3   | 1,355              | 11.8  | 72.4   | 62.9  | 4,175              |
| <b>Breastfeeding status</b> |   |  |                    |   |  |   |                    |
| Breastfeeding               | 75.5  | 50.6   | 2,009              | 9.3   | 70.3   | 43.4  | 2,114              |
| Not breastfeeding           | 90.1  | 62.3   | 720                | 11.8  | 74.2   | 70.8  | 6,211              |
| <b>Mother's age</b>         |   |  |                    |   |  |   |                    |
| 15-19                       | 76.8  | 53.3   | 352                | 14.1  | 70.7   | 48.6  | 553                |
| 20-29                       | 79.4  | 53.0   | 1,352              | 11.1  | 73.4   | 64.3  | 4,221              |
| 30-39                       | 79.6  | 55.3   | 852                | 10.4  | 73.6   | 65.2  | 2,848              |
| 40-49                       | 82.4  | 51.6   | 174                | 12.4  | 72.2   | 67.2  | 704                |
| <b>Residence</b>            |   |  |                    |   |  |   |                    |
| Urban                       | 84.7  | 67.8   | 939                | 10.6  | 73.3   | 65.5  | 2,951              |
| Rural                       | 76.5  | 46.3   | 1,790              | 11.5  | 73.1   | 62.9  | 5,374              |
| <b>Province</b>             |   |  |                    |   |  |   |                    |
| Central                     | 81.7  | 54.2   | 236                | 15.9  | 69.3   | 62.3  | 724                |
| Copperbelt                  | 86.0  | 62.9   | 333                | 9.1   | 80.6   | 75.0  | 1,039              |
| Eastern                     | 82.6  | 39.4   | 410                | 9.1   | 79.3   | 65.4  | 1,132              |
| Luapula                     | 82.6  | 58.7   | 252                | 29.6  | 77.1   | 68.8  | 772                |
| Lusaka                      | 84.4  | 74.2   | 393                | 7.6   | 67.0   | 58.3  | 1,303              |
| Muchinga                    | 60.2  | 30.6   | 152                | 5.7   | 76.7   | 68.4  | 502                |
| Northern                    | 77.4  | 52.6   | 241                | 5.8   | 81.4   | 71.0  | 749                |
| North Western               | 73.9  | 50.3   | 163                | 9.0   | 69.5   | 56.4  | 470                |
| Southern                    | 80.5  | 52.8   | 363                | 8.1   | 69.2   | 61.8  | 1,095              |
| Western                     | 62.4  | 43.2   | 186                | 16.3  | 57.2   | 43.8  | 539                |
| <b>Mother's education</b>   |   |  |                    |   |  |   |                    |
| No education                | 72.4  | 40.2   | 252                | 9.3   | 64.7   | 57.3  | 846                |
| Primary                     | 78.7  | 49.4   | 1,396              | 11.5  | 73.2   | 63.8  | 4,251              |
| Secondary                   | 81.9  | 61.3   | 975                | 11.3  | 74.7   | 65.0  | 2,896              |
| Higher                      | 80.2  | 71.9   | 107                | 11.4  | 81.3   | 71.5  | 332                |
| <b>Wealth quintile</b>      |   |  |                    |   |  |   |                    |
| Lowest                      | 72.2  | 39.0   | 695                | 9.7   | 70.6   | 58.4  | 2,074              |
| Second                      | 80.2  | 48.5   | 619                | 14.9  | 74.3   | 64.8  | 1,844              |
| Middle                      | 79.5  | 54.4   | 504                | 11.1  | 73.5   | 64.6  | 1,536              |
| Fourth                      | 82.1  | 61.1   | 479                | 9.5   | 72.9   | 66.3  | 1,567              |
| Highest                     | 86.3  | 75.9   | 432                | 10.5  | 75.7   | 67.2  | 1,305              |
| Total                       | 79.3  | 53.7   | 2,730              | 11.2  | 73.2   | 63.8  | 8,325              |

na = Not applicable

<sup>1</sup> Includes pumpkin, carrots, squash, sweet potatoes that are yellow or orange inside, dark green leafy vegetables, cassava leaves, ripe mangoes, ripe papayas, apricot, watermelon, and other locally grown fruits and vegetables that are rich in vitamin A

<sup>2</sup> Includes meat (and organ meat), fish, poultry, and eggs

<sup>3</sup> Based on mother's recall

<sup>4</sup> Based on both mother's recall and the vaccination card (where available)

<sup>5</sup> Deworming for intestinal parasites is commonly done for helminthes and for schistosomiasis.

**Table 11.10 Therapeutic foods**

Among children age 6-35 months, percentage who received Plumpy'nut in the 7 days preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic                | Percentage who received Plumpy'nut in the past 7 days | Number of children |
|--|---|--------------------|
| <b>Age in months</b>                     |   |                    |
| 6-8                                      | 2.1   | 452                |
| 9-11                                     | 1.5   | 472                |
| 12-17                                    | 2.9   | 957                |
| 18-23                                    | 2.9   | 934                |
| 24-35                                    | 1.5   | 1,862              |
| <b>Sex</b>                               |   |                    |
| Male                                     | 2.1   | 2,322              |
| Female                                   | 2.2   | 2,354              |
| <b>Breastfeeding status</b>              |   |                    |
| Breastfeeding                            | 2.2   | 2,086              |
| Not breastfeeding                        | 2.1   | 2,591              |
| <b>Wasting status<sup>1</sup></b>        |   |                    |
| Severe acute malnutrition <sup>2</sup>   | 9.8   | 65                 |
| Moderate acute malnutrition <sup>3</sup> | 2.2   | 146                |
| Not wasted <sup>4</sup>                  | 2.0   | 4,214              |
| <b>Mother's age</b>                      |   |                    |
| 15-19                                    | 2.4   | 482                |
| 20-29                                    | 2.0   | 2,360              |
| 30-39                                    | 2.2   | 1,516              |
| 40-49                                    | 2.4   | 319                |
| <b>Residence</b>                         |   |                    |
| Urban                                    | 4.1   | 1,628              |
| Rural                                    | 1.1   | 3,049              |
| <b>Province</b>                          |   |                    |
| Central                                  | 0.6   | 398                |
| Copperbelt                               | 0.8   | 555                |
| Eastern                                  | 0.4   | 654                |
| Luapula                                  | 0.5   | 434                |
| Lusaka                                   | 8.1   | 711                |
| Muchinga                                 | 0.6   | 282                |
| Northern                                 | 0.0   | 421                |
| North Western                            | 0.4   | 274                |
| Southern                                 | 3.8   | 640                |
| Western                                  | 1.0   | 307                |
| <b>Mother's education</b>                |   |                    |
| No education                             | 1.6   | 459                |
| Primary                                  | 1.7   | 2,386              |
| Secondary                                | 2.5   | 1,660              |
| Higher                                   | 6.0   | 171                |
| <b>Wealth quintile</b>                   |   |                    |
| Lowest                                   | 0.5   | 1,196              |
| Second                                   | 1.7   | 1,004              |
| Middle                                   | 1.5   | 874                |
| Fourth                                   | 3.0   | 870                |
| Highest                                  | 5.3   | 733                |
| Total                                    | 2.1   | 4,677              |

<sup>1</sup> Restricted to children with valid data for weight and height

<sup>2</sup> Children with severe acute malnutrition are those whose weight-for-height Z-score is below -3 standard deviations (SD) from the WHO Growth Standards population median.

<sup>3</sup> Children with moderate acute malnutrition are those whose weight-for-height Z-score is between -3 standard deviations and -2 standard deviations (SD) from the WHO Growth Standards population median.

<sup>4</sup> Children whose weight-for-height Z-score is  $\geq -2$  standard deviations (SD) from the WHO Growth Standards population median

**Table 11.11 Prevalence of anaemia in women**

Percentage of women age 15-49 with anaemia, according to background characteristics, Zambia DHS 2018

| Background characteristic           | Anaemia status by haemoglobin level     |  |   |  |  | Number of women |
|-------------------------------------|---|--|---|--|--|-----------------|
|                                     | Any<br>(NP <12.0 g/dl/<br>P <11.0 g/dl) | Mild<br>(NP 11.0-11.9 g/dl/<br>P 10.0-10.9 g/dl) | Moderate<br>(NP 8.0-10.9 g/dl/<br>P 7.0-9.9 g/dl) | Severe<br>(NP <8.0 g/dl/<br>P <7.0 g/dl) |  |                 |
| <b>Age</b>                          |   |  |   |  |  |                 |
| 15-19                               | 33.4                                    | 19.0   | 13.1  | 1.3                                      |  | 2,903           |
| 20-29                               | 28.6                                    | 15.6   | 11.7  | 1.3                                      |  | 4,815           |
| 30-39                               | 31.3                                    | 15.6   | 14.2  | 1.5                                      |  | 3,435           |
| 40-49                               | 33.1                                    | 14.5   | 17.0  | 1.7                                      |  | 2,082           |
| <b>Number of children ever born</b> |   |  |   |  |  |                 |
| 0                                   | 34.7                                    | 18.8   | 13.8  | 2.1                                      |  | 3,233           |
| 1                                   | 32.9                                    | 16.2   | 15.1  | 1.6                                      |  | 2,236           |
| 2-3                                 | 28.8                                    | 14.7   | 13.0  | 1.0                                      |  | 3,324           |
| 4-5                                 | 30.2                                    | 15.9   | 13.5  | 0.8                                      |  | 2,254           |
| 6+                                  | 28.1                                    | 14.6   | 12.1  | 1.4                                      |  | 2,187           |
| <b>Maternity status</b>             |   |  |   |  |  |                 |
| Pregnant                            | 41.2                                    | 21.3   | 19.1  | 0.8                                      |  | 1,083           |
| Breastfeeding                       | 27.6                                    | 16.5   | 10.3  | 0.8                                      |  | 2,985           |
| Neither                             | 31.0                                    | 15.4   | 13.9  | 1.7                                      |  | 9,166           |
| <b>Using IUD</b>                    |   |  |   |  |  |                 |
| Yes                                 | (35.7)                                  | (3.5)  | (29.7)  | (2.6)                                    |  | 64              |
| No                                  | 31.0                                    | 16.2   | 13.4  | 1.4                                      |  | 13,171          |
| <b>Cigarette use<sup>1</sup></b>    |   |  |   |  |  |                 |
| Smokes cigarettes                   | 25.0                                    | 13.3   | 11.4  | 0.3                                      |  | 115             |
| Does not smoke cigarettes           | 31.1                                    | 16.2   | 13.5  | 1.4                                      |  | 13,119          |
| <b>Residence</b>                    |   |  |   |  |  |                 |
| Urban                               | 32.1                                    | 15.4   | 15.0  | 1.8                                      |  | 6,131           |
| Rural                               | 30.2                                    | 16.8   | 12.2  | 1.1                                      |  | 7,104           |
| <b>Province</b>                     |   |  |   |  |  |                 |
| Central                             | 23.8                                    | 12.6   | 10.5  | 0.7                                      |  | 1,145           |
| Copperbelt                          | 29.2                                    | 15.6   | 12.0  | 1.5                                      |  | 2,114           |
| Eastern                             | 27.6                                    | 16.0   | 11.0  | 0.6                                      |  | 1,555           |
| Luapula                             | 29.8                                    | 17.5   | 11.3  | 1.0                                      |  | 978             |
| Lusaka                              | 35.6                                    | 15.7   | 17.7  | 2.2                                      |  | 2,686           |
| Muchinga                            | 27.6                                    | 15.5   | 11.6  | 0.5                                      |  | 745             |
| Northern                            | 28.0                                    | 17.0   | 10.4  | 0.6                                      |  | 1,048           |
| North Western                       | 32.2                                    | 17.1   | 13.7  | 1.5                                      |  | 696             |
| Southern                            | 35.3                                    | 18.3   | 14.7  | 2.3                                      |  | 1,501           |
| Western                             | 37.9                                    | 17.2   | 18.8  | 1.9                                      |  | 767             |
| <b>Education</b>                    |   |  |   |  |  |                 |
| No education                        | 30.7                                    | 15.8   | 13.9  | 0.9                                      |  | 1,004           |
| Primary                             | 30.6                                    | 16.7   | 12.6  | 1.3                                      |  | 5,895           |
| Secondary                           | 31.1                                    | 15.5   | 14.1  | 1.6                                      |  | 5,622           |
| Higher                              | 35.1                                    | 17.4   | 16.1  | 1.5                                      |  | 713             |
| <b>Wealth quintile</b>              |   |  |   |  |  |                 |
| Lowest                              | 30.2                                    | 16.4   | 13.2  | 0.7                                      |  | 2,358           |
| Second                              | 30.6                                    | 18.1   | 11.3  | 1.2                                      |  | 2,320           |
| Middle                              | 30.5                                    | 16.2   | 12.9  | 1.4                                      |  | 2,406           |
| Fourth                              | 30.6                                    | 14.4   | 14.2  | 1.9                                      |  | 2,945           |
| Highest                             | 32.8                                    | 16.1   | 15.0  | 1.7                                      |  | 3,205           |
| Total                               | 31.1                                    | 16.2   | 13.5  | 1.4                                      |  | 13,235          |

Notes: Prevalence is adjusted for altitude and for smoking status if known using formulas in CDC 1998. Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes manufactured cigarettes and hand-rolled cigarettes

**Table 11.12 Micronutrient intake among mothers**

Among women age 15-49 with a child born in the 5 years preceding the survey, percent distribution by number of days they took iron tablets or syrup during the pregnancy of the last child, and percentage who took deworming medication during the pregnancy of the last child, according to background characteristics, Zambia DHS 2018

| Background characteristic | Number of days women took iron tablets or syrup during pregnancy of last birth |      |       |      |                    | Total | Percentage of women who took deworming medication during pregnancy of last birth | Number of women |
|---------------------------|--|------|-------|------|--------------------|-------|--|-----------------|
|                           | None   | <60  | 60-89 | 90+  | Don't know/missing |       |  |                 |
| <b>Age</b>                |  |      |       |      |                    |       |  |                 |
| 15-19                     | 2.4  | 6.5  | 8.9   | 72.9 | 9.3                | 100.0 | 75.3   | 719             |
| 20-29                     | 2.6  | 7.0  | 9.0   | 72.6 | 8.7                | 100.0 | 77.5   | 3,564           |
| 30-39                     | 2.2  | 8.6  | 7.3   | 73.2 | 8.8                | 100.0 | 78.7   | 2,397           |
| 40-49                     | 4.2  | 7.0  | 8.5   | 69.0 | 11.3               | 100.0 | 73.8   | 645             |
| <b>Residence</b>          |  |      |       |      |                    |       |  |                 |
| Urban                     | 1.7  | 7.2  | 9.3   | 74.6 | 7.2                | 100.0 | 81.7   | 2,811           |
| Rural                     | 3.2  | 7.6  | 7.8   | 71.2 | 10.2               | 100.0 | 74.6   | 4,513           |
| <b>Province</b>           |  |      |       |      |                    |       |  |                 |
| Central                   | 3.0  | 8.6  | 11.6  | 72.7 | 4.2                | 100.0 | 80.2   | 640             |
| Copperbelt                | 0.9  | 6.9  | 9.8   | 76.3 | 6.1                | 100.0 | 82.6   | 969             |
| Eastern                   | 1.3  | 6.1  | 6.3   | 75.7 | 10.7               | 100.0 | 82.6   | 983             |
| Luapula                   | 5.1  | 12.4 | 5.7   | 51.2 | 25.6               | 100.0 | 73.7   | 640             |
| Lusaka                    | 2.1  | 5.6  | 11.8  | 76.9 | 3.6                | 100.0 | 85.0   | 1,219           |
| Muchinga                  | 6.5  | 7.8  | 8.2   | 77.5 | 0.0                | 100.0 | 64.0   | 433             |
| Northern                  | 2.8  | 11.9 | 7.0   | 77.6 | 0.6                | 100.0 | 74.6   | 615             |
| North Western             | 3.4  | 3.8  | 7.4   | 83.9 | 1.5                | 100.0 | 78.8   | 404             |
| Southern                  | 1.6  | 7.1  | 6.5   | 70.8 | 14.0               | 100.0 | 72.6   | 946             |
| Western                   | 3.8  | 5.9  | 7.1   | 57.4 | 25.8               | 100.0 | 61.3   | 477             |
| <b>Education</b>          |  |      |       |      |                    |       |  |                 |
| No education              | 8.2  | 9.8  | 7.5   | 64.3 | 10.2               | 100.0 | 70.9   | 689             |
| Primary                   | 2.5  | 7.9  | 8.8   | 71.0 | 9.8                | 100.0 | 75.7   | 3,595           |
| Secondary                 | 1.5  | 6.5  | 8.8   | 75.0 | 8.1                | 100.0 | 80.4   | 2,726           |
| Higher                    | 1.0  | 5.3  | 1.6   | 85.5 | 6.6                | 100.0 | 83.3   | 316             |
| <b>Wealth quintile</b>    |  |      |       |      |                    |       |  |                 |
| Lowest                    | 4.6  | 8.9  | 8.4   | 68.8 | 9.3                | 100.0 | 71.9   | 1,676           |
| Second                    | 3.0  | 7.1  | 7.4   | 70.9 | 11.6               | 100.0 | 73.8   | 1,527           |
| Middle                    | 2.2  | 7.1  | 8.1   | 72.9 | 9.6                | 100.0 | 78.4   | 1,390           |
| Fourth                    | 1.6  | 7.1  | 10.5  | 73.5 | 7.3                | 100.0 | 80.7   | 1,471           |
| Highest                   | 1.0  | 6.8  | 7.5   | 77.6 | 7.1                | 100.0 | 83.8   | 1,262           |
| Total                     | 2.6  | 7.5  | 8.4   | 72.5 | 9.1                | 100.0 | 77.4   | 7,325           |

### Key Findings

- **Household possession of mosquito nets:** Although the percentage of households with at least one insecticide-treated net (ITN) increased from 12% in 2001-02 to 78% in 2018, there remains a gap with respect to the availability of sufficient nets to cover all household members, with only 41% of households reporting having at least one ITN for every two residents.
- **Use of mosquito nets by children:** Sixty-four percent of children under age 5 in households with at least one ITN slept under an ITN the night prior to the survey.
- **Indoor residual spraying (IRS) against mosquitoes:** Sixty-one percent of households had at least one ITN for every two persons and/or IRS in the past 12 months.
- **Use of intermittent preventive treatment (IPTp) by women during pregnancy:** Ninety-four percent of pregnant women received one or more doses of SP/Fansidar, 81% received two or more doses, and only 59% received three or more doses.
- **Prevalence, diagnosis, and prompt treatment of children with fever:** Sixteen percent of children under age 5 had a fever in the 2 weeks prior to the survey.
- **Type of antimalarial drugs used:** Ninety-seven percent of children with fever who took an antimalarial took artemisinin-based combination therapy (ACT).
- **Haemoglobin <8.0 g/dl in children:** Four percent of children age 6-59 months have haemoglobin levels below 8.0 g/dl.

In Zambia, malaria remains a major public health concern, and its elimination has been prioritised in the national universal health coverage agenda through deployment of cost-effective preventive and curative interventions (NMEC 2017). The key preventive interventions deployed include insecticide-treated bed nets, indoor residual spraying, and use of intermittent preventive treatment among pregnant women. The curative interventions include prompt parasitological diagnosis and treatment with efficacious antimalarial medicines.

This chapter presents data that are useful for assessing how well malaria control strategies are being implemented, including indoor residual spraying of dwellings with insecticides, availability and use of mosquito nets, prophylactic and therapeutic use of antimalarial drugs, diagnostic testing of children with fever, and prevalence of anaemia among children under age 5.

## 12.1 OWNERSHIP OF INSECTICIDE-TREATED NETS

### Ownership of insecticide-treated nets

Households that have at least 1 insecticide-treated net (ITN). An ITN is defined as a factory-treated net that does not require any further treatment.

**Sample:** Households

### Full household ITN coverage

Percentage of households with at least one ITN for every 2 people.

**Sample:** Households

Insecticide-treated nets (ITNs) have been the backbone of vector control in Zambia. In order to achieve and maintain required coverage levels, ITNs are primarily distributed through mass distribution campaigns and routine means such as antenatal care (ANC) and under-5 clinic visits. For the 2018 ZDHS the current ITN was previously known as a LLIN in surveys conducted prior to 2018.

Eighty percent of households have at least one mosquito net, while 78% have at least one ITN. The average number of ITNs per household is 1.7. Only 41% of households have achieved full household ITN coverage, meaning that there is at least one net for every two people who stayed in the household the night before the survey (**Table 12.1**).

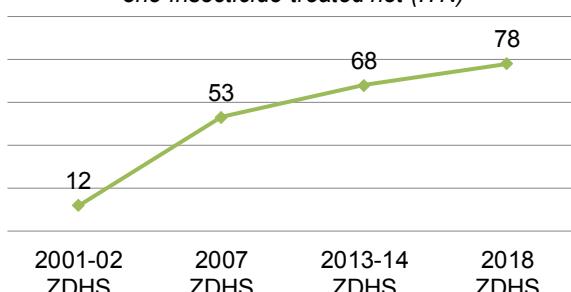
**Trends:** In Zambia, ITN ownership increased from 12% in 2001-02 to 78% in 2018 (**Figure 12.1**). Over the same period, full household ITN coverage increased from 2% to 41%.

### Patterns by background characteristics

- A higher percentage of households in rural areas have at least one ITN (82%) than households in urban areas (73%).
- The percentage of households with at least one ITN is lowest in Lusaka (64%) and highest in Muchinga (87%) (**Figure 12.2**).

**Figure 12.1 Trends in household ownership of ITNs**

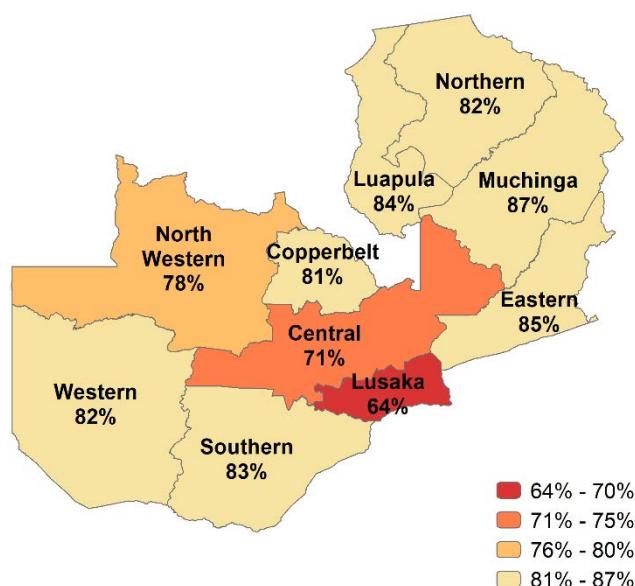
Percentage of households owning at least one insecticide-treated net (ITN)



Note: The definition of an ITN in surveys conducted prior to 2018 included nets that had been soaked with insecticides within the past 12 months.

**Figure 12.2 ITN ownership by province**

Percentage of households with at least one ITN

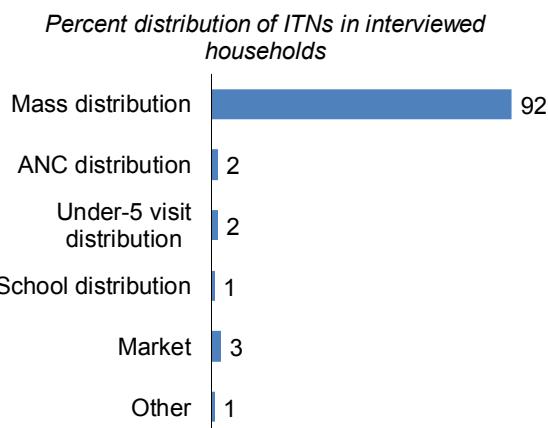


- The percentage of households with at least one ITN for every two persons increases with increasing household wealth, from 36% in the lowest wealth quintile to 47% in the highest wealth quintile (**Figure 12.3**).

#### Source of Nets

Ninety-two percent of ITNs are obtained through mass distribution campaigns, while 3% are obtained from a shop or market and 2% are obtained during ANC or under-5 clinic visits. One percent or less of ITNs are obtained from other sources (**Table 12.2** and **Figure 12.4**).

**Figure 12.4 Source of ITNs**



## 12.2 HOUSEHOLD ACCESS TO AND USE OF ITNs

### Access to an ITN

Percentage of the population that could sleep under an ITN if each ITN in the household were used by up to 2 people.

**Sample:** De facto household population

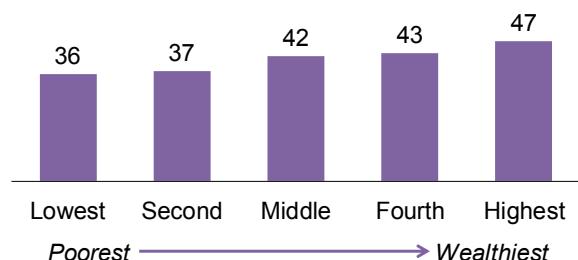
### Use of ITNs

Percentage of population that slept under an ITN the night before the survey.

**Sample:** De facto household population

**Figure 12.3 Full household ITN coverage by household wealth**

*Percentage of households with at least one ITN for every two persons*



**Table 12.4** shows that 60% of the de facto population has access to ITNs, although a smaller percentage (46%) slept under an ITN the night before the survey (**Table 12.5**). In households with at least one ITN, 58% of the de facto population slept under an ITN the night before the survey. Sixty-four percent of existing ITNs were used the night prior to the survey (**Table 12.6**).

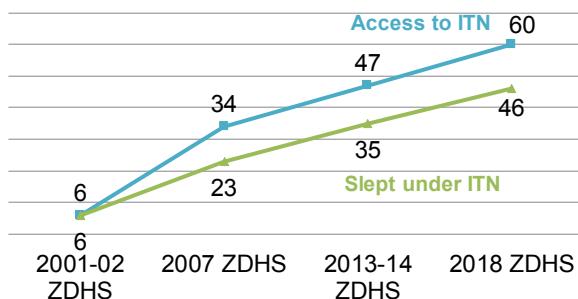
**Trends:** The proportion of the de facto population with access to an ITN increased from 6% in 2001-02 to 60% in 2018 (Figure 12.5). During the same period, the proportion of the de facto population that slept under an ITN the night before the survey increased from 6% to 46%.

#### Patterns by background characteristics

- Access to an ITN is higher in rural areas (61%) than in urban areas (59%) (Figure 12.6).
- Across the provinces, the percentage of the population with access to an ITN ranges from 51% in Lusaka to 66% in Muchinga (Figure 12.7).
- Generally, the percentage of the population that slept under an ITN the previous night decreases with increasing wealth, from 50% in the lowest wealth quintile to 42% in the highest wealth quintile.

**Figure 12.5 Trends in ITN access and use**

*Percentage of the household population with access to an ITN and percentage of the population that slept under an ITN the night before the survey*

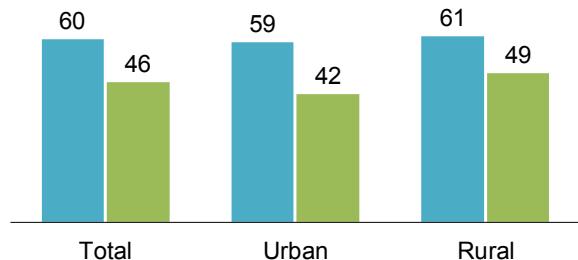


Note: The definition of an ITN in surveys conducted prior to 2018 included nets that had been soaked with insecticides within the past 12 months.

**Figure 12.6 Access to and use of ITNs by residence**

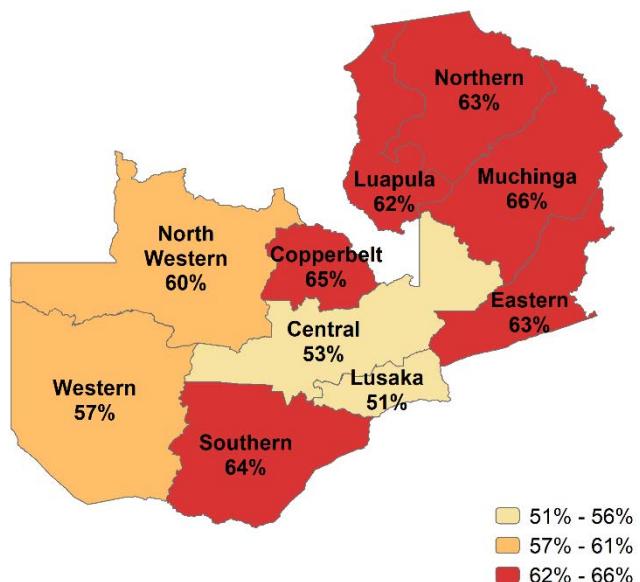
*Percentage of the household population with access to an ITN and who slept under an ITN the night before the survey*

■ Access to an ITN ■ Slept under an ITN



**Figure 12.7 ITN access by province**

*Percent of the household population that could sleep under an ITN if each ITN in the household were used by up to 2 people*



### 12.3 USE OF ITNs BY CHILDREN AND PREGNANT WOMEN

Children and pregnant women are particularly vulnerable to malaria. Fifty-two percent of children under age 5 slept under an ITN the night prior to the survey (**Table 12.7**). Similarly, 49% of pregnant women age 15-49 slept under an ITN the night before the survey (**Table 12.8** and **Figure 12.8**).

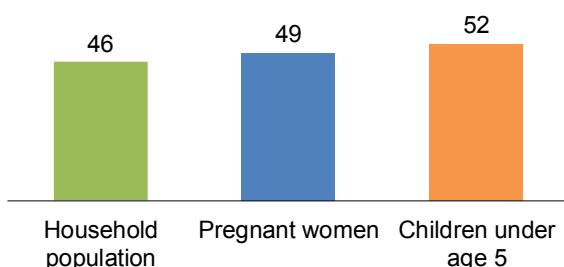
**Trends:** The percentage of children under age 5 who slept under an ITN the night before the survey increased from 7% in 2001-02 to 52% in 2018. There was a similar trend among pregnant women, with an increase from 9% in 2001-02 to 49% in 2018.

#### Patterns by background characteristics

- ITN use by children under age 5 in households with at least one ITN is highest in Luapula (75%) and lowest in Lusaka (49%).
- The percentage of children who slept under an ITN the night preceding the survey generally decreases with age, from 55% among those less than age 12 months to 46% among those age 36-47 months.
- ITN use by pregnant women age 15-49 in households with at least one ITN is highest in Luapula (85%) and lowest in Southern (45%).

**Figure 12.8 ITN use**

*Percentage who slept under an ITN the night before the survey*



## 12.4 INDOOR RESIDUAL SPRAYING

### Indoor residual spraying

Application of a long-lasting, residual insecticide to potential malaria vector resting surfaces such as internal walls, eaves, and ceilings in all houses or structures where such vectors might come into contact with the insecticide.

**Sample:** Households

Indoor residual spraying (IRS) is another key vector control intervention in Zambia conducted in all districts meeting the deployment criteria. IRS is conducted through annual campaigns that take place prior to the onset of the rains. The choice of insecticides used in IRS is guided by the National Insecticide Resistance Management Plan (NMEC 2018).

Thirty-five percent of households received IRS in the 12 months prior to the survey. Eighty-three percent of households had at least one vector control intervention (i.e., at least one ITN and/or IRS in the 12 months prior to the survey). Sixty-one percent of households had full household ITN coverage and/or IRS in the 12 months prior to the survey (**Table 12.9**).

**Trends:** The percentage of households that received IRS increased from 28% in 2013-14 to 35% in 2018. Similarly, the percentage of households with at least one ITN and/or IRS in the past 12 months increased from 12% in 2001-02 to 83% in 2018, while the percentage with at least one ITN for every two persons and/or IRS in the past 12 months, increased from 2% to 61% over the same period.

### Patterns by background characteristics

- Rural areas have a greater percentage (62%) of households with full household ITN coverage and/or IRS in the 12 months prior to the survey than urban areas (59%).
- The percentage of households with at least one ITN for every two persons and/or IRS in the past 12 months is lowest in Lusaka (42%) and highest in Luapula (74%).
- IRS coverage is lowest in Lusaka (14%) and highest in Luapula (58%).

## 12.5 MALARIA IN PREGNANCY

### Intermittent preventive treatment (IPTp) during pregnancy

Percentage of women who took at least 3 doses of SP/Fansidar during their last pregnancy.

**Sample:** Women age 15-49 with a live birth in the 2 years before the survey

Malaria infection during pregnancy is a major public health problem in Zambia, with substantial risks for the mother, her foetus, and the neonate. Intermittent preventive treatment of malaria in pregnancy (IPTp) is a full therapeutic course of antimalarial medicine given to pregnant women at routine antenatal care visits to prevent malaria. IPTp helps prevent maternal malaria episodes, maternal and foetal anaemia, placental parasitaemia, low birth weight, and neonatal mortality.

The World Health Organization (WHO) recommends a three-pronged approach for reducing the negative health effects associated with malaria in pregnancy: prompt diagnosis and treatment of confirmed infection, use of long-lasting insecticidal nets (LLINs), and IPTp (WHO 2004).

Sulfadoxine-pyrimethamine (SP), also known as Fansidar, is the recommended drug for IPTp in Zambia. The Ministry of Health defines IPTp as the provision of three or more doses of sulfadoxine-pyrimethamine (SP)/Fansidar, with at least 1 month between doses, to protect the mother and her child from malaria

during routine antenatal care visits in the second and third trimesters of pregnancy (IPTp3+) until delivery (NMEC 2014). The indicator used to measure coverage of this intervention is the percentage of women with a live birth in the 2 years preceding the survey who received three or more doses of SP/Fansidar to prevent malaria during their most recent pregnancy (IPTp3+).

The percentage of IPTp uptake decreases with the number of doses. Ninety-four percent of pregnant women received one or more doses, while 81% received two or more doses and only 59% received three or more doses (**Table 12.10**).

**Trends:** IPTp coverage for all doses has increased over the years. The percentage of women receiving at least one dose increased from 87% in 2007 to 94% in 2018, while the percentage receiving at least two doses increased from 66% to 81% and the percentage receiving at least three doses increased from 43% to 59% over the same period (**Figure 12.9**).

#### Patterns by background characteristics

- The percentage of pregnant women who received three or more doses of SP/Fansidar is higher in urban areas (65%) than in rural areas (56%) (**Table 12.9**).
- By province, IPTp coverage of three or more doses is lowest in Southern (42%) and highest in Copperbelt (70%).
- The percentage of women who received three or more doses of SP/Fansidar during pregnancy increases with increasing education, from 52% among those with no education to 76% among those with a higher education.

## 12.6 CASE MANAGEMENT OF MALARIA IN CHILDREN

### Care seeking for children under 5 with fever

Percentage of children under 5 with a fever in the 2 weeks before the survey for whom advice or treatment was sought from a health provider, a health facility, or a pharmacy.

**Sample:** Children under 5 with a fever in the 2 weeks before the survey

### Diagnosis of malaria in children under 5 with fever

Percentage of children under 5 with a fever in the 2 weeks before the survey who had blood taken from a finger or heel for testing. This is a proxy measure of diagnostic testing for malaria.

**Sample:** Children under 5 with a fever in the 2 weeks before the survey

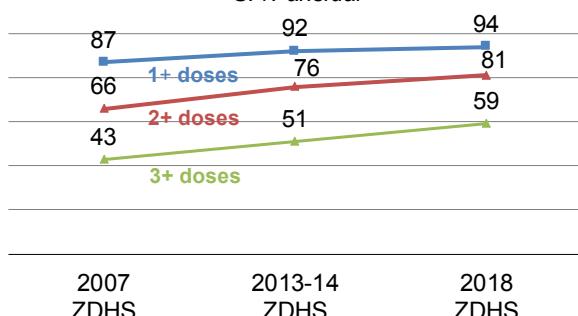
### Artemisinin-based combination therapy (ACT) for children under 5 with fever

Among children under 5 with a fever in the 2 weeks before the survey who took any antimalarial drugs, the percentage who took an artemisinin-based combination therapy (ACT).

**Sample:** Children under 5 with a fever in the 2 weeks before the survey

**Figure 12.9 Trends in IPTp use by pregnant women**

Percentage of women with a live birth in the 2 years before the survey who received at least 1, 2, or 3 doses of SP/Fansidar



Sixteen percent of children under age 5 had a fever during the 2 weeks prior to the survey. Seventy-seven percent of these children were taken for advice or treatment, and 48% were taken for advice or treatment the same or next day. Sixty-three percent of children with a fever had blood taken from a finger or heel for testing (**Table 12.11**).

Among children with a fever for whom advice or treatment was sought, 93% went to public health facilities, while 6% went to private sector facilities (**Table 12.12**). Ninety-seven percent of children with fever who took an antimalarial medication took ACT, while the remaining children took SP/Fansidar, amodiaquine, quinine injections, artesunate injections, or other antimalarials (**Table 12.13**).

**Trends:** The percentage of children with a fever who had blood taken from a finger or heel for testing increased from 49% in 2013-14 to 63% in 2018. Similarly, the percentage of children taken for advice and treatment increased from 71% in 2001-02 to 77% in 2018.

#### Patterns by background characteristics

- Seventeen percent of children in rural areas had a fever in the 2 weeks preceding the survey, as compared with 13% of children in urban areas.
- Sixty-seven percent of rural children with a fever had blood taken from a finger or heel for testing, compared with 52% of urban children.
- By province, the percentage of children who had a fever in the 2 weeks prior to the survey was lowest in Lusaka (9%) and highest in Luapula (30%).
- The percentage of children with fever who had blood taken from a finger or heel for testing was lowest in Southern (21%) and highest in Luapula (80%).
- The percentage of children with fever who had blood taken from a finger or heel for testing decreases with increasing mother's education, from 68% among children whose mothers have no education to 48% among children whose mothers have a higher education (**Table 12.11**).

## 12.7 PREVALENCE OF LOW HAEMOGLOBIN IN CHILDREN

### Prevalence of low haemoglobin in children

Percentage of children age 6-59 months who had a haemoglobin measurement of less than 8 grams per decilitre (g/dl) of blood. The cutoff of 8 g/dl is often used to classify malaria-related anaemia. This is a different cutoff than was used to classify severe anaemia in Chapter 11 (7 g/dl).

**Sample:** Children age 6-59 months

Anaemia, defined as a reduced level of haemoglobin in the blood, decreases the amount of oxygen reaching the tissues and organs of the body and reduces their capacity to function. Anaemia is associated with impaired motor and cognitive development in children. The main causes of anaemia in children are malaria and inadequate intake of iron, folate, vitamin B12, and other nutrients. Other causes of anaemia include intestinal worms, haemoglobinopathy, and sickle cell disease. Although anaemia is not specific to malaria, trends in anaemia prevalence can reflect malaria morbidity, and they respond to changes in the coverage of malaria interventions. Malaria interventions have been associated with a 60% reduction in the risk of anaemia using a cutoff of 8 g/dl (Korenromp et al. 2004).

Overall, 4% of children age 6-59 months had haemoglobin lower than 8.0 g/dl (**Table 12.14**).

### Patterns by background characteristics

- Boys (5%) are more likely than girls (4%) to have haemoglobin levels below 8.0 g/dl.
- The percentage of children with haemoglobin levels below 8.0 g/dl is highest among those age 9-11 months (11%) and lowest among those age 48-59 months (2%) (**Figure 12.10**).
- By province, the percentage of children with haemoglobin levels below 8.0 g/dl is lowest in Central (2%) and highest in Luapula (9%).

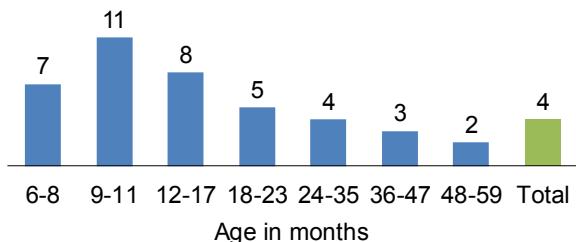
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- Table 12.2 Source of mosquito nets**
- Table 12.3 Access to an insecticide-treated net (ITN)**
- Table 12.4 Access to an ITN**
- Table 12.5 Use of mosquito nets by persons in the household**
- Table 12.6 Use of existing ITNs**
- Table 12.7 Use of mosquito nets by children**
- Table 12.8 Use of mosquito nets by pregnant women**
- Table 12.9 Indoor residue spraying against mosquitoes**
- Table 12.10 Use of intermittent preventive treatment (IPTp) by women during pregnancy**
- Table 12.11 Prevalence, diagnosis, and prompt treatment of children with fever**
- Table 12.12 Source of advice or treatment for children with fever**
- Table 12.13 Type of antimalarial drugs used**
- Table 12.14 Haemoglobin <8.0 g/dl in children**

**Figure 12.10 Low haemoglobin in children by age**

Percentage of children age 6-59 months with haemoglobin lower than 8.0 g/dl



**Table 12.1 Household possession of mosquito nets**

Percentage of households with at least one mosquito net (treated or untreated) and insecticide-treated net (ITN), average number of nets and ITNs per household, and percentage of households with at least one net and ITN per two persons who stayed in the household last night, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of households with at least one mosquito net |   | Average number of nets per household |   | Number of households | Percentage of households with at least one net for every two persons who stayed in the household last night |   | Number of households with at least one person who stayed in the household last night |  |  |
|---------------------------|---|---|--------------------------------------|---|----------------------|---|---|--|--|--|
|                           |   |   |                                      |   |                      |   |   |  |  |  |
|                           | Any mosquito net  | Insecticide-treated mosquito net (ITN) <sup>1</sup> | Any mosquito net                     | Insecticide-treated mosquito net (ITN) <sup>1</sup> |                      | Any mosquito net  | Insecticide-treated mosquito net (ITN) <sup>1</sup> |  |  |  |
| <b>Residence</b>          |   |   |                                      |   |                      |   |   |  |  |  |
| Urban                     | 76.5  | 73.1  | 1.7                                  | 1.7   | 5,441                | 45.1  | 42.7  | 5,432  |  |  |
| Rural                     | 82.7  | 82.1  | 1.8                                  | 1.8   | 7,390                | 39.8  | 39.5  | 7,364  |  |  |
| <b>Province</b>           |   |   |                                      |   |                      |   |   |  |  |  |
| Central                   | 71.8  | 71.4  | 1.6                                  | 1.6   | 1,134                | 38.0  | 37.5  | 1,133  |  |  |
| Copperbelt                | 83.1  | 81.0  | 2.0                                  | 1.9   | 1,863                | 49.5  | 48.0  | 1,862  |  |  |
| Eastern                   | 85.0  | 84.7  | 1.9                                  | 1.9   | 1,556                | 39.4  | 39.0  | 1,551  |  |  |
| Luapula                   | 84.4  | 83.7  | 1.9                                  | 1.9   | 1,049                | 41.2  | 40.9  | 1,043  |  |  |
| Lusaka                    | 69.7  | 64.0  | 1.5                                  | 1.4   | 2,328                | 37.5  | 34.6  | 2,322  |  |  |
| Muchinga                  | 87.2  | 86.7  | 2.0                                  | 2.0   | 710                  | 41.5  | 41.2  | 710  |  |  |
| Northern                  | 82.5  | 82.2  | 1.8                                  | 1.8   | 1,081                | 39.8  | 39.6  | 1,076  |  |  |
| North Western             | 78.8  | 78.4  | 1.8                                  | 1.8   | 685                  | 43.5  | 43.0  | 678  |  |  |
| Southern                  | 83.6  | 82.8  | 1.9                                  | 1.8   | 1,579                | 48.0  | 46.6  | 1,579  |  |  |
| Western                   | 84.1  | 81.5  | 1.6                                  | 1.6   | 846                  | 40.6  | 38.9  | 841  |  |  |
| <b>Wealth quintile</b>    |   |   |                                      |   |                      |   |   |  |  |  |
| Lowest                    | 79.9  | 79.7  | 1.5                                  | 1.5   | 2,651                | 35.5  | 35.5  | 2,639  |  |  |
| Second                    | 83.1  | 82.8  | 1.8                                  | 1.8   | 2,440                | 37.1  | 37.0  | 2,431  |  |  |
| Middle                    | 81.4  | 80.4  | 1.8                                  | 1.8   | 2,452                | 42.2  | 41.6  | 2,446  |  |  |
| Fourth                    | 75.5  | 73.1  | 1.7                                  | 1.6   | 2,758                | 44.6  | 43.1  | 2,753  |  |  |
| Highest                   | 80.9  | 75.9  | 2.1                                  | 2.0   | 2,530                | 50.7  | 47.1  | 2,526  |  |  |
| Total                     | 80.1  | 78.3  | 1.8                                  | 1.7   | 12,831               | 42.1  | 40.9  | 12,796   |  |  |

<sup>1</sup> An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2013–14 ZDHS, this was known as a long-lasting insecticidal net (LLIN).

**Table 12.2 Source of mosquito nets**

Percent distribution of mosquito nets by source of net, according to background characteristics, Zambia DHS 2018

| Background characteristic | Mass distribution campaign | ANC visit  | Under-5 visit | Pharmacy   | Shop/ market | Community health worker | School     | Other      | Don't know/ missing | Total       | Number of mosquito nets |
|---------------------------|----------------------------|------------|---------------|------------|--------------|-------------------------|------------|------------|---------------------|-------------|-------------------------|
| <b>Type of net</b>        |                            |            |               |            |              |                         |            |            |                     |             |                         |
| ITN <sup>1</sup>          | 91.8                       | 1.6        | 1.7           | 0.1        | 2.5          | 0.0                     | 0.7        | 0.9        | 0.1                 | 99.4        | 22,287                  |
| Other <sup>2</sup>        | 0.0                        | 0.0        | 0.0           | 2.0        | 72.1         | 0.2                     | 0.0        | 19.3       | 6.4                 | 100.0       | 512                     |
| <b>Residence</b>          |                            |            |               |            |              |                         |            |            |                     |             |                         |
| Urban                     | 85.2                       | 1.0        | 1.8           | 0.4        | 8.1          | 0.0                     | 0.2        | 2.2        | 0.4                 | 99.3        | 9,438                   |
| Rural                     | 93.0                       | 1.9        | 1.7           | 0.0        | 1.2          | 0.0                     | 1.0        | 0.7        | 0.1                 | 99.4        | 13,361                  |
| <b>Province</b>           |                            |            |               |            |              |                         |            |            |                     |             |                         |
| Central                   | 91.4                       | 0.8        | 1.7           | 0.1        | 4.1          | 0.0                     | 0.1        | 0.9        | 0.2                 | 99.2        | 1,811                   |
| Copperbelt                | 90.9                       | 0.7        | 2.1           | 0.2        | 3.9          | 0.0                     | 0.1        | 1.2        | 0.3                 | 99.4        | 3,662                   |
| Eastern                   | 90.4                       | 2.8        | 1.3           | 0.1        | 1.5          | 0.0                     | 2.4        | 0.7        | 0.1                 | 99.2        | 2,909                   |
| Luapula                   | 91.7                       | 2.2        | 3.2           | 0.0        | 1.0          | 0.0                     | 0.7        | 0.8        | 0.2                 | 99.9        | 1,971                   |
| Lusaka                    | 79.6                       | 0.9        | 1.7           | 0.7        | 12.6         | 0.1                     | 0.5        | 3.0        | 0.6                 | 99.6        | 3,518                   |
| Muchinga                  | 91.8                       | 2.7        | 2.7           | 0.1        | 1.3          | 0.0                     | 1.0        | 0.3        | 0.1                 | 100.0       | 1,392                   |
| Northern                  | 93.0                       | 2.4        | 1.4           | 0.0        | 0.7          | 0.0                     | 0.0        | 0.3        | 0.1                 | 97.9        | 1,985                   |
| North Western             | 90.8                       | 0.9        | 1.4           | 0.0        | 3.4          | 0.0                     | 1.5        | 1.8        | 0.1                 | 99.9        | 1,253                   |
| Southern                  | 94.8                       | 0.9        | 0.7           | 0.1        | 1.8          | 0.0                     | 0.3        | 0.9        | 0.1                 | 99.6        | 2,927                   |
| Western                   | 87.8                       | 2.0        | 1.3           | 0.1        | 5.1          | 0.1                     | 0.2        | 2.8        | 0.2                 | 99.6        | 1,371                   |
| <b>Wealth quintile</b>    |                            |            |               |            |              |                         |            |            |                     |             |                         |
| Lowest                    | 92.5                       | 2.8        | 1.8           | 0.0        | 0.5          | 0.0                     | 1.2        | 0.6        | 0.1                 | 99.5        | 4,018                   |
| Second                    | 93.5                       | 1.8        | 2.0           | 0.1        | 0.6          | 0.0                     | 0.9        | 0.7        | 0.0                 | 99.5        | 4,325                   |
| Middle                    | 92.9                       | 1.4        | 1.9           | 0.0        | 1.5          | 0.0                     | 0.7        | 0.9        | 0.1                 | 99.3        | 4,480                   |
| Fourth                    | 89.5                       | 1.0        | 1.8           | 0.0        | 4.5          | 0.0                     | 0.4        | 1.9        | 0.2                 | 99.5        | 4,631                   |
| Highest                   | 82.1                       | 0.9        | 1.2           | 0.6        | 11.2         | 0.1                     | 0.3        | 2.1        | 0.6                 | 99.1        | 5,345                   |
| <b>Total</b>              | <b>89.7</b>                | <b>1.5</b> | <b>1.7</b>    | <b>0.2</b> | <b>4.0</b>   | <b>0.0</b>              | <b>0.7</b> | <b>1.3</b> | <b>0.2</b>          | <b>99.4</b> | <b>22,799</b>           |

ANC = Antenatal care

<sup>1</sup> An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2013-14 ZDHS, this was known as a long-lasting insecticidal net (LLIN).<sup>2</sup> Any net that is not an ITN**Table 12.3 Access to an insecticide-treated net (ITN)**

Percent distribution of the de facto household population by number of ITNs the household owns, and percentage with access to an ITN, according to number of persons who stayed in the household the night before the survey, Zambia DHS 2018

| Number of ITNs <sup>1</sup>  | Number of persons who stayed in the household the night before the survey |       |       |       |       |       |       |        | Total  |
|--|---|-------|-------|-------|-------|-------|-------|--------|--------|
|  | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8+     |        |
| 0  | 34.3  | 27.1  | 23.1  | 21.0  | 17.5  | 18.7  | 18.0  | 19.1   | 19.8   |
| 1  | 50.1  | 34.4  | 30.5  | 23.8  | 18.5  | 16.3  | 12.4  | 11.3   | 18.3   |
| 2  | 12.6  | 29.5  | 32.1  | 34.7  | 34.9  | 27.7  | 26.3  | 18.1   | 26.9   |
| 3  | 2.3   | 6.4   | 11.1  | 14.4  | 20.2  | 26.8  | 25.8  | 24.9   | 20.9   |
| 4  | 0.4   | 2.5   | 2.6   | 4.9   | 6.9   | 8.0   | 12.7  | 16.0   | 9.5    |
| 5  | 0.1   | 0.1   | 0.5   | 0.9   | 1.3   | 1.4   | 3.1   | 6.1    | 2.7    |
| 6  | 0.2   | 0.1   | 0.1   | 0.2   | 0.6   | 0.7   | 1.1   | 2.6    | 1.1    |
| 7  | 0.0   | 0.0   | 0.0   | 0.1   | 0.0   | 0.3   | 0.5   | 2.0    | 0.7    |
| Total  | 100.0   | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0  | 100.0  |
| Number   | 1,168   | 2,458 | 5,613 | 7,940 | 9,299 | 9,543 | 8,541 | 17,629 | 62,191 |
| Percentage of the de facto population with access to an ITN <sup>1,2</sup> | 65.7  | 72.9  | 66.7  | 67.1  | 64.5  | 61.2  | 58.1  | 50.1   | 59.9   |

<sup>1</sup> An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2013-14 ZDHS, this was known as a long-lasting insecticidal net (LLIN).<sup>2</sup> Percentage of the de facto household population who could sleep under an ITN if each ITN in the household were used by up to two people

**Table 12.4 Access to an ITN according to background characteristics**

Percentage of the de facto population with access to an ITN in the household, by background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of the de facto population with access to an ITN <sup>1</sup> | Number of persons |
|---------------------------|--|-------------------|
| <b>Residence</b>          |  |                   |
| Urban                     | 58.6   | 24,789            |
| Rural                     | 60.8   | 37,401            |
| <b>Province</b>           |  |                   |
| Central                   | 53.3   | 5,650             |
| Copperbelt                | 64.7   | 8,862             |
| Eastern                   | 62.9   | 7,963             |
| Luapula                   | 62.2   | 5,326             |
| Lusaka                    | 50.5   | 10,591            |
| Muchinga                  | 65.8   | 3,652             |
| Northern                  | 63.0   | 5,333             |
| North Western             | 60.2   | 3,313             |
| Southern                  | 64.1   | 7,594             |
| Western                   | 56.7   | 3,908             |
| <b>Wealth quintile</b>    |  |                   |
| Lowest                    | 56.3   | 12,374            |
| Second                    | 60.2   | 12,394            |
| Middle                    | 60.9   | 12,391            |
| Fourth                    | 59.0   | 12,560            |
| Highest                   | 63.1   | 12,472            |
| Total                     | 59.9   | 62,191            |

<sup>1</sup> Percentage of the de facto household population who could sleep under an ITN if each ITN in the household were used by up to two people

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**Table 12.5 Use of mosquito nets by persons in the household**

Percentage of the de facto household population who slept the night before the survey under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN), and among the de facto household population in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic | Household population                                   |   | Household population in households with at least one ITN <sup>1</sup> |   |                   |
|---------------------------|--|---|---|---|-------------------|
|                           | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN <sup>1</sup> last night | Number of persons   | Percentage who slept under an ITN <sup>1</sup> last night | Number of persons |
| <b>Age</b>                |  |   |   |   |                   |
| <5                        | 52.6   | 51.6  | 10,109  | 63.7  | 8,195             |
| 5-14                      | 39.7   | 39.2  | 19,947  | 48.3  | 16,174            |
| 15-34                     | 45.4   | 44.2  | 19,120  | 56.8  | 14,883            |
| 35-49                     | 57.8   | 56.5  | 7,685   | 69.7  | 6,231             |
| 50+                       | 58.2   | 57.4  | 5,235   | 69.9  | 4,302             |
| Don't know/missing        | 42.3   | 42.3  | 96  | 59.4  | 68                |
| <b>Sex</b>                |  |   |   |   |                   |
| Male                      | 45.8   | 45.0  | 29,673  | 56.3  | 23,723            |
| Female                    | 48.8   | 47.7  | 32,517  | 59.4  | 26,129            |
| <b>Residence</b>          |  |   |   |   |                   |
| Urban                     | 43.8   | 42.0  | 24,789  | 55.6  | 18,735            |
| Rural                     | 49.7   | 49.4  | 37,401  | 59.3  | 31,117            |
| <b>Province</b>           |  |   |   |   |                   |
| Central                   | 36.2   | 35.8  | 5,650   | 49.9  | 4,057             |
| Copperbelt                | 49.8   | 48.5  | 8,862   | 58.5  | 7,345             |
| Eastern                   | 54.2   | 53.9  | 7,963   | 62.7  | 6,846             |
| Luapula                   | 62.9   | 62.6  | 5,326   | 74.0  | 4,506             |
| Lusaka                    | 31.0   | 28.8  | 10,591  | 43.0  | 7,094             |
| Muchinga                  | 56.6   | 56.3  | 3,652   | 63.0  | 3,268             |
| Northern                  | 58.1   | 57.9  | 5,333   | 69.0  | 4,475             |
| North Western             | 45.7   | 45.3  | 3,313   | 56.6  | 2,653             |
| Southern                  | 43.2   | 42.6  | 7,594   | 50.9  | 6,354             |
| Western                   | 52.9   | 51.0  | 3,908   | 61.2  | 3,255             |
| <b>Wealth quintile</b>    |  |   |   |   |                   |
| Lowest                    | 49.6   | 49.5  | 12,374  | 61.2  | 10,004            |
| Second                    | 50.1   | 50.0  | 12,394  | 59.2  | 10,458            |
| Middle                    | 48.0   | 47.5  | 12,391  | 58.3  | 10,098            |
| Fourth                    | 44.6   | 43.6  | 12,560  | 57.5  | 9,507             |
| Highest                   | 44.4   | 41.7  | 12,472  | 53.2  | 9,786             |
| Total                     | 47.3   | 46.4  | 62,191  | 57.9  | 49,852            |

<sup>1</sup> An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2013-14 ZDHS, this was known as a long-lasting insecticidal net (LLIN).

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**Table 12.6 Use of existing ITNs**

Percentage of insecticide-treated nets (ITNs) that were used by anyone the night before the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of existing ITNs <sup>1</sup> used last night | Number of ITNs <sup>1</sup> |
|---------------------------|--|-----------------------------|
| <b>Residence</b>          |  |                             |
| Urban                     | 60.9   | 9,005                       |
| Rural                     | 66.5   | 13,282                      |
| <b>Province</b>           |  |                             |
| Central                   | 57.8   | 1,797                       |
| Copperbelt                | 63.0   | 3,568                       |
| Eastern                   | 70.8   | 2,892                       |
| Luapula                   | 83.4   | 1,958                       |
| Lusaka                    | 48.4   | 3,258                       |
| Muchinga                  | 69.2   | 1,386                       |
| Northern                  | 71.8   | 1,979                       |
| North Western             | 61.4   | 1,245                       |
| Southern                  | 56.3   | 2,882                       |
| Western                   | 75.6   | 1,320                       |
| <b>Wealth quintile</b>    |  |                             |
| Lowest                    | 68.9   | 4,008                       |
| Second                    | 67.5   | 4,314                       |
| Middle                    | 66.2   | 4,441                       |
| Fourth                    | 62.0   | 4,510                       |
| Highest                   | 57.9   | 5,013                       |
| Total                     | 64.2   | 22,287                      |

<sup>1</sup> An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2013-14 ZDHS, this was known as a long-lasting insecticidal net (LLIN).

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**Table 12.7 Use of mosquito nets by children**

Percentage of children under age 5 who, the night before the survey, slept under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN), and among children under age 5 in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic | Children under age 5 in all households                 |   | Children under age 5 in households with at least one ITN <sup>1</sup> |   |                    |
|---------------------------|--|---|---|---|--------------------|
|                           | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN <sup>1</sup> last night | Number of children  | Percentage who slept under an ITN <sup>1</sup> last night | Number of children |
| <b>Age in months</b>      |  |   |   |   |                    |
| <12                       | 56.8   | 54.8  | 2,036   | 68.8  | 1,621              |
| 12-23                     | 56.3   | 55.7  | 1,988   | 67.0  | 1,651              |
| 24-35                     | 53.1   | 52.0  | 2,059   | 64.7  | 1,656              |
| 36-47                     | 47.0   | 46.2  | 2,077   | 57.3  | 1,676              |
| 48-59                     | 49.8   | 49.4  | 1,949   | 60.5  | 1,591              |
| <b>Sex</b>                |  |   |   |   |                    |
| Male                      | 52.4   | 51.8  | 5,027   | 63.8  | 4,079              |
| Female                    | 52.7   | 51.5  | 5,082   | 63.5  | 4,115              |
| <b>Residence</b>          |  |   |   |   |                    |
| Urban                     | 50.7   | 48.5  | 3,491   | 63.3  | 2,676              |
| Rural                     | 53.5   | 53.2  | 6,618   | 63.8  | 5,519              |
| <b>Province</b>           |  |   |   |   |                    |
| Central                   | 39.9   | 39.4  | 890   | 54.6  | 642                |
| Copperbelt                | 58.7   | 57.1  | 1,283   | 67.6  | 1,084              |
| Eastern                   | 59.6   | 59.2  | 1,354   | 68.4  | 1,173              |
| Luapula                   | 63.6   | 63.5  | 978   | 74.8  | 831                |
| Lusaka                    | 35.3   | 32.4  | 1,521   | 48.9  | 1,010              |
| Muchinga                  | 62.0   | 61.7  | 618   | 69.1  | 552                |
| Northern                  | 62.9   | 62.7  | 907   | 74.2  | 767                |
| North Western             | 50.0   | 49.7  | 551   | 62.8  | 436                |
| Southern                  | 45.8   | 45.5  | 1,348   | 53.0  | 1,156              |
| Western                   | 59.8   | 57.6  | 659   | 69.8  | 544                |
| <b>Wealth quintile</b>    |  |   |   |   |                    |
| Lowest                    | 55.3   | 55.2  | 2,499   | 67.6  | 2,042              |
| Second                    | 52.4   | 52.2  | 2,264   | 62.0  | 1,906              |
| Middle                    | 53.0   | 52.3  | 1,914   | 63.4  | 1,577              |
| Fourth                    | 49.9   | 48.5  | 1,851   | 63.6  | 1,413              |
| Highest                   | 51.2   | 47.9  | 1,580   | 60.2  | 1,257              |
| Total                     | 52.6   | 51.6  | 10,109  | 63.7  | 8,195              |

Note: Table is based on children who stayed in the household the night before the interview.

<sup>1</sup> An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2013-14 ZDHS, this was known as a long-lasting insecticidal net (LLIN).

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**Table 12.8 Use of mosquito nets by pregnant women**

Percentage of pregnant women age 15-49 who, the night before the survey, slept under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN), and among pregnant women age 15-49 in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic | Among pregnant women age 15-49 in all households       |   | Among pregnant women age 15-49 in households with at least one ITN <sup>1</sup> |   |                          |
|---------------------------|--|---|---|---|--------------------------|
|                           | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN <sup>1</sup> last night | Number of pregnant women  | Percentage who slept under an ITN <sup>1</sup> last night | Number of pregnant women |
| <b>Residence</b>          |  |   |   |   |                          |
| Urban                     | 45.1   | 43.4  | 420   | 62.4  | 292                      |
| Rural                     | 52.3   | 52.0  | 745   | 65.5  | 592                      |
| <b>Province</b>           |  |   |   |   |                          |
| Central                   | 38.3   | 38.3  | 102   | 57.1  | 68                       |
| Copperbelt                | 63.2   | 60.3  | 142   | 74.9  | 114                      |
| Eastern                   | 56.0   | 56.0  | 163   | 66.6  | 137                      |
| Luapula                   | 77.6   | 75.9  | 109   | 85.2  | 97                       |
| Lusaka                    | 32.1   | 31.2  | 176   | 48.9  | 112                      |
| Muchinga                  | 66.3   | 66.3  | 67  | 74.3  | 60                       |
| Northern                  | 63.0   | 63.0  | 90  | 77.3  | 73                       |
| North Western             | 37.1   | 37.1  | 59  | 55.2  | 40                       |
| Southern                  | 30.6   | 30.4  | 188   | 44.9  | 128                      |
| Western                   | 53.9   | 52.6  | 70  | 66.4  | 55                       |
| <b>Education</b>          |  |   |   |   |                          |
| No education              | 65.1   | 64.4  | 101   | 84.4  | 77                       |
| Primary                   | 45.6   | 45.2  | 564   | 60.9  | 419                      |
| Secondary                 | 50.0   | 49.2  | 440   | 63.6  | 340                      |
| Higher                    | 60.0   | 55.4  | 61  | (69.8)  | 48                       |
| <b>Wealth quintile</b>    |  |   |   |   |                          |
| Lowest                    | 55.5   | 55.0  | 266   | 67.9  | 215                      |
| Second                    | 53.1   | 53.1  | 253   | 66.5  | 202                      |
| Middle                    | 42.5   | 42.4  | 224   | 57.1  | 166                      |
| Fourth                    | 44.0   | 43.0  | 257   | 70.6  | 157                      |
| Highest                   | 53.6   | 50.8  | 165   | 58.4  | 144                      |
| Total                     | 49.7   | 48.9  | 1,165   | 64.5  | 884                      |

Note: Table is based on women who stayed in the household the night before the interview.

<sup>1</sup> An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2013-14 ZDHS, this was known as a long-lasting insecticidal net (LLIN).

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**Table 12.9 Indoor residual spraying against mosquitoes**

Percentage of households in which someone has come into the dwelling to spray the interior walls against mosquitoes (IRS) in the past 12 months, percentage of households with at least one ITN and/or IRS in the past 12 months, and percentage of households with at least one ITN for every two persons and/or IRS in the past 12 months, by background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of households with IRS <sup>1</sup> in the past 12 months | Percentage of households with at least one ITN <sup>2</sup> and/or IRS in the past 12 months | Number of households | Percentage of households with at least one ITN <sup>2</sup> for every two persons and/or IRS in the past 12 months | Number of households with at least one person who stayed in the household last night |
|---------------------------|--|--|----------------------|--|--|
| <b>Residence</b>          |  |  |                      |  |  |
| Urban                     | 31.0   | 78.2   | 5,441                | 58.9   | 5,432  |
| Rural                     | 38.5   | 87.1   | 7,390                | 61.7   | 7,364  |
| <b>Province</b>           |  |  |                      |  |  |
| Central                   | 26.2   | 75.5   | 1,134                | 51.6   | 1,133  |
| Copperbelt                | 46.5   | 87.7   | 1,863                | 72.7   | 1,862  |
| Eastern                   | 47.0   | 91.2   | 1,556                | 67.2   | 1,551  |
| Luapula                   | 57.5   | 92.3   | 1,049                | 74.4   | 1,043  |
| Lusaka                    | 14.4   | 67.2   | 2,328                | 42.2   | 2,322  |
| Muchinga                  | 37.8   | 90.1   | 710                  | 63.6   | 710  |
| Northern                  | 55.2   | 89.0   | 1,081                | 71.5   | 1,076  |
| North Western             | 35.0   | 83.1   | 685                  | 61.1   | 678  |
| Southern                  | 24.4   | 85.8   | 1,579                | 58.1   | 1,579  |
| Western                   | 24.8   | 85.1   | 846                  | 53.6   | 841  |
| <b>Wealth quintile</b>    |  |  |                      |  |  |
| Lowest                    | 36.0   | 85.7   | 2,651                | 58.1   | 2,639  |
| Second                    | 41.1   | 88.1   | 2,440                | 62.1   | 2,431  |
| Middle                    | 39.3   | 85.6   | 2,452                | 63.3   | 2,446  |
| Fourth                    | 30.2   | 77.7   | 2,758                | 57.8   | 2,753  |
| Highest                   | 30.8   | 80.0   | 2,530                | 61.7   | 2,526  |
| Total                     | 35.3   | 83.3   | 12,831               | 60.5   | 12,796   |

<sup>1</sup> Indoor residual spraying (IRS) is limited to spraying conducted by a government, private, or nongovernmental organisation.

<sup>2</sup> An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2013-14 ZDHS, this was known as a long-lasting insecticidal net (LLIN).

**Table 12.10 Use of intermittent preventive treatment (IPTp) by women during pregnancy**

Percentage of women age 15-49 with a live birth in the 2 years preceding the survey who, during the pregnancy that resulted in the last live birth, received one or more doses of SP/Fansidar, received two or more doses of SP/Fansidar, and received three or more doses of SP/Fansidar, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage who received one or more doses of SP/Fansidar | Percentage who received two or more doses of SP/Fansidar | Percentage who received three or more doses of SP/Fansidar | Number of women with a live birth in the 2 years preceding the survey |
|---------------------------|--|--|--|---|
| <b>Residence</b>          |  |  |  |   |
| Urban                     | 94.5   | 85.3   | 64.6   | 1,340   |
| Rural                     | 93.7   | 78.7   | 55.7   | 2,564   |
| <b>Province</b>           |  |  |  |   |
| Central                   | 91.9   | 78.5   | 60.8   | 343   |
| Copperbelt                | 95.9   | 86.6   | 69.8   | 473   |
| Eastern                   | 96.3   | 84.1   | 64.5   | 569   |
| Luapula                   | 94.0   | 79.3   | 58.7   | 375   |
| Lusaka                    | 94.5   | 86.3   | 61.8   | 558   |
| Muchinga                  | 90.3   | 74.1   | 52.0   | 227   |
| Northern                  | 94.6   | 83.3   | 63.8   | 347   |
| North Western             | 95.7   | 87.1   | 64.3   | 219   |
| Southern                  | 93.5   | 74.4   | 41.8   | 525   |
| Western                   | 89.2   | 69.5   | 45.7   | 269   |
| <b>Education</b>          |  |  |  |   |
| No education              | 86.4   | 71.8   | 51.9   | 371   |
| Primary                   | 94.0   | 79.6   | 56.3   | 1,970   |
| Secondary                 | 95.7   | 84.4   | 62.0   | 1,410   |
| Higher                    | 96.4   | 89.3   | 75.7   | 153   |
| <b>Wealth quintile</b>    |  |  |  |   |
| Lowest                    | 91.3   | 76.4   | 53.2   | 1,002   |
| Second                    | 94.9   | 80.7   | 56.8   | 873   |
| Middle                    | 95.8   | 80.5   | 58.0   | 738   |
| Fourth                    | 93.0   | 82.1   | 59.0   | 672   |
| Highest                   | 95.9   | 88.2   | 70.9   | 620   |
| Total                     | 94.0   | 81.0   | 58.7   | 3,905   |

**Table 12.11 Prevalence, diagnosis, and prompt treatment of children with fever**

Percentage of children under age 5 with a fever in the 2 weeks preceding the survey, and among children under age 5 with a fever, percentage for whom advice or treatment was sought, percentage for whom advice or treatment was sought the same or next day following the onset of fever, and percentage who had blood taken from a finger or heel, by background characteristics, Zambia DHS 2018

| Background characteristic | Children under age 5  |                    | Children under age 5 with fever                                 |   |  | Number of children |
|---------------------------|---|--------------------|---|---|--|--------------------|
|                           | Percentage with a fever in the 2 weeks preceding the survey | Number of children | Percentage for whom advice or treatment was sought <sup>1</sup> | Percentage for whom advice or treatment was sought the same or next day | Percentage who had blood taken from a finger or heel for testing |                    |
| <b>Age in months</b>      |   |                    |   |   |  |                    |
| <12                       | 17.1  | 1,960              | 79.3  | 48.6  | 60.9   | 336                |
| 12-23                     | 20.4  | 1,891              | 74.5  | 40.0  | 60.9   | 385                |
| 24-35                     | 17.9  | 1,862              | 80.6  | 51.8  | 64.9   | 333                |
| 36-47                     | 12.9  | 1,866              | 76.4  | 53.4  | 65.1   | 240                |
| 48-59                     | 10.3  | 1,782              | 73.8  | 46.2  | 65.0   | 184                |
| <b>Sex</b>                |   |                    |   |   |  |                    |
| Male                      | 16.4  | 4,666              | 79.4  | 51.1  | 64.4   | 766                |
| Female                    | 15.2  | 4,695              | 74.9  | 43.8  | 61.4   | 712                |
| <b>Residence</b>          |   |                    |   |   |  |                    |
| Urban                     | 12.9  | 3,307              | 75.9  | 44.6  | 52.0   | 426                |
| Rural                     | 17.4  | 6,054              | 77.7  | 48.8  | 67.4   | 1,052              |
| <b>Province</b>           |   |                    |   |   |  |                    |
| Central                   | 11.0  | 819                | 77.6  | 44.7  | 58.2   | 90                 |
| Copperbelt                | 15.1  | 1,166              | 72.0  | 37.4  | 56.4   | 177                |
| Eastern                   | 20.2  | 1,266              | 84.9  | 59.6  | 75.5   | 256                |
| Luapula                   | 30.1  | 877                | 85.5  | 46.3  | 79.9   | 264                |
| Lusaka                    | 9.0   | 1,446              | 71.8  | 46.7  | 42.3   | 130                |
| Muchinga                  | 14.2  | 569                | 79.3  | 59.7  | 73.3   | 81                 |
| Northern                  | 17.8  | 846                | 66.9  | 45.8  | 66.6   | 150                |
| North Western             | 14.6  | 517                | 83.4  | 59.4  | 73.8   | 76                 |
| Southern                  | 10.0  | 1,242              | 71.3  | 37.2  | 21.3   | 124                |
| Western                   | 21.3  | 613                | 70.0  | 40.9  | 59.9   | 131                |
| <b>Mother's education</b> |   |                    |   |   |  |                    |
| No education              | 17.2  | 951                | 77.5  | 50.7  | 68.2   | 164                |
| Primary                   | 16.9  | 4,763              | 75.0  | 45.7  | 65.4   | 806                |
| Secondary                 | 13.9  | 3,276              | 81.3  | 48.5  | 58.6   | 456                |
| Higher                    | 14.2  | 371                | 74.2  | 59.3  | 48.2   | 53                 |
| <b>Wealth quintile</b>    |   |                    |   |   |  |                    |
| Lowest                    | 20.3  | 2,343              | 73.6  | 45.5  | 67.1   | 476                |
| Second                    | 17.9  | 2,079              | 79.4  | 52.1  | 69.9   | 372                |
| Middle                    | 12.8  | 1,735              | 84.2  | 49.9  | 68.5   | 222                |
| Fourth                    | 13.6  | 1,733              | 75.4  | 41.8  | 47.0   | 236                |
| Highest                   | 11.7  | 1,469              | 75.7  | 48.5  | 51.5   | 172                |
| Total                     | 15.8  | 9,361              | 77.2  | 47.6  | 63.0   | 1,478              |

<sup>1</sup> Includes advice or treatment from the following sources: public medical sector, private medical sector, shop, market, and itinerant drug seller. Excludes advice or treatment from a traditional practitioner.

**Table 12.12 Source of advice or treatment for children with fever**

Percentage of children under age 5 with a fever in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources, and among children under age 5 with a fever in the 2 weeks preceding the survey for whom advice or treatment was sought, percentage for whom advice or treatment was sought from specific sources, Zambia DHS 2018

| Source                      | Percentage for whom advice or treatment was sought from each source: |   |
|-----------------------------|--|---|
|                             | Among children with fever  | Among children with fever for whom advice or treatment was sought |
| <b>Public sector</b>        | <b>72.1</b>  | <b>93.4</b>   |
| Government hospital         | 5.0  | 6.4   |
| Government health centre    | 50.5   | 65.5  |
| Government health post      | 14.0   | 18.2  |
| Mobile hospital/clinic      | 0.0  | 0.0   |
| Fieldworker/CHW             | 3.1  | 4.0   |
| <b>Private sector</b>       | <b>4.4</b>   | <b>5.7</b>  |
| Private hospital/clinic     | 0.8  | 1.0   |
| Mission hospital/clinic     | 2.1  | 2.8   |
| Pharmacy                    | 0.3  | 0.4   |
| Private doctor              | 0.1  | 0.1   |
| Mobile clinic               | 0.0  | 0.1   |
| Fieldworker/CHW             | 1.1  | 1.5   |
| <b>Other private sector</b> | <b>0.8</b>   | <b>1.0</b>  |
| Shop                        | 0.8  | 1.0   |
| Traditional practitioner    | 0.1  | 0.1   |
| Other                       | 0.1  | 0.1   |
| Number of children          | 1,478  | 1,141   |

CHW = Community health worker

**Table 12.13 Type of antimalarial drugs used**

Among children under age 5 with a fever in the 2 weeks preceding the survey who took any antimalarial medication, percentage who took specific antimalarial drugs, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage of children who took: |                 |                  |                  |               |                      |                      |                         | Number of children with fever who took any antimalarial drug |
|---------------------------|----------------------------------|-----------------|------------------|------------------|---------------|----------------------|----------------------|-------------------------|--|
|                           | Any ACT                          | SP/<br>Fansidar | Chloro-<br>quine | Amodia-<br>quine | Quinine pills | Quinine<br>injection | Artesunate<br>rectal | Artesunate<br>injection |  |
| <b>Age in months</b>      |                                  |                 |                  |                  |               |                      |                      |                         |  |
| <6                        | *                                | *               | *                | *                | *             | *                    | *                    | *                       | 21   |
| 6-11                      | 98.0                             | 2.0             | 0.0              | 0.0              | 0.0           | 0.0                  | 0.0                  | 2.3                     | 0.0  |
| 12-23                     | 98.2                             | 2.5             | 0.0              | 0.0              | 0.0           | 1.7                  | 0.0                  | 0.0                     | 0.0  |
| 24-35                     | 97.3                             | 0.7             | 0.0              | 1.0              | 0.0           | 0.4                  | 1.6                  | 0.0                     | 0.0  |
| 36-47                     | 98.1                             | 1.0             | 0.0              | 0.0              | 0.0           | 0.9                  | 0.0                  | 0.0                     | 0.0  |
| 48-59                     | 92.3                             | 1.2             | 0.5              | 2.4              | 0.7           | 0.0                  | 0.0                  | 1.8                     | 1.1  |
| <b>Sex</b>                |                                  |                 |                  |                  |               |                      |                      |                         |  |
| Male                      | 97.8                             | 1.4             | 0.0              | 0.9              | 0.2           | 0.7                  | 0.3                  | 0.5                     | 0.0  |
| Female                    | 95.9                             | 1.3             | 0.2              | 0.5              | 0.0           | 0.6                  | 0.6                  | 0.7                     | 0.4  |
| <b>Residence</b>          |                                  |                 |                  |                  |               |                      |                      |                         |  |
| Urban                     | 96.7                             | 0.6             | 0.8              | 0.0              | 1.0           | 0.9                  | 0.0                  | 0.9                     | 0.0  |
| Rural                     | 96.9                             | 1.5             | 0.0              | 0.8              | 0.0           | 0.6                  | 0.5                  | 0.5                     | 0.2  |
| <b>Province</b>           |                                  |                 |                  |                  |               |                      |                      |                         |  |
| Central                   | *                                | *               | *                | *                | *             | *                    | *                    | *                       | *  |
| Copperbelt                | (100.0)                          | (0.0)           | (0.0)            | (0.0)            | (0.0)         | (0.0)                | (0.0)                | (0.0)                   | (0.0)  |
| Eastern                   | 96.5                             | 3.1             | 0.0              | 0.0              | 0.0           | 2.5                  | 0.0                  | 1.3                     | 1.1  |
| Luapula                   | 98.9                             | 0.5             | 0.0              | 0.0              | 0.0           | 0.0                  | 0.0                  | 0.6                     | 0.0  |
| Lusaka                    | *                                | *               | *                | *                | *             | *                    | *                    | *                       | *  |
| Muchinga                  | 89.2                             | 1.5             | 0.0              | 0.0              | 0.0           | 2.2                  | 5.7                  | 1.4                     | 0.0  |
| Northern                  | 96.8                             | 2.2             | 0.0              | 0.0              | 1.0           | 0.0                  | 0.0                  | 0.0                     | 0.0  |
| North Western             | 97.5                             | 2.5             | 0.0              | 0.0              | 0.0           | 0.0                  | 0.0                  | 0.0                     | 0.0  |
| Southern                  | *                                | *               | *                | *                | *             | *                    | *                    | *                       | *  |
| Western                   | *                                | *               | *                | *                | *             | *                    | *                    | *                       | *  |
| <b>Mother's education</b> |                                  |                 |                  |                  |               |                      |                      |                         |  |
| No education              | 98.4                             | 0.0             | 0.0              | 0.8              | 0.0           | 1.1                  | 0.0                  | 0.8                     | 0.0  |
| Primary                   | 96.4                             | 1.1             | 0.2              | 0.9              | 0.2           | 0.7                  | 0.7                  | 0.3                     | 0.3  |
| Secondary                 | 97.0                             | 3.0             | 0.0              | 0.0              | 0.0           | 0.0                  | 0.0                  | 1.2                     | 0.0  |
| Higher                    | *                                | *               | *                | *                | *             | *                    | *                    | *                       | *  |
| <b>Wealth quintile</b>    |                                  |                 |                  |                  |               |                      |                      |                         |  |
| Lowest                    | 98.5                             | 0.4             | 0.0              | 0.3              | 0.0           | 0.9                  | 0.7                  | 1.2                     | 0.0  |
| Second                    | 96.4                             | 2.4             | 0.0              | 1.2              | 0.0           | 0.0                  | 0.5                  | 0.0                     | 0.0  |
| Middle                    | 95.9                             | 1.6             | 0.5              | 0.0              | 0.0           | 1.5                  | 0.0                  | 0.0                     | 1.1  |
| Fourth                    | (91.2)                           | (2.9)           | (0.0)            | (3.9)            | (0.0)         | (0.0)                | (0.0)                | (2.0)                   | (0.0)  |
| Highest                   | *                                | *               | *                | *                | *             | *                    | *                    | *                       | *  |
| Total                     | 96.9                             | 1.3             | 0.1              | 0.7              | 0.1           | 0.6                  | 0.4                  | 0.6                     | 0.2  |
|                           |                                  |                 |                  |                  |               |                      |                      |                         | 516  |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

ACT = Artemisinin-based combination therapy

**Table 12.14 Haemoglobin <8.0 g/dl in children**

Percentage of children age 6-59 months with haemoglobin lower than 8.0 g/dl, by background characteristics, Zambia DHS 2018

| Background characteristic                             | Haemoglobin <8.0 g/dl | Number of children |
|---|-----------------------|--------------------|
| <b>Age in months</b>                                  |                       |                    |
| 6-8   | 7.1                   | 451                |
| 9-11  | 10.7                  | 479                |
| 12-17   | 8.3                   | 960                |
| 18-23   | 5.4                   | 944                |
| 24-35   | 4.0                   | 1,968              |
| 36-47   | 2.9                   | 1,988              |
| 48-59   | 1.8                   | 1,834              |
| <b>Sex</b>  |                       |                    |
| Male  | 5.0                   | 4,268              |
| Female  | 3.9                   | 4,355              |
| <b>Mother's interview status</b>                      |                       |                    |
| Interviewed   | 4.5                   | 7,756              |
| Not interviewed but in household                      | 5.0                   | 199                |
| Not interviewed and not in the household <sup>1</sup> | 3.9                   | 667                |
| <b>Residence</b>                                      |                       |                    |
| Urban   | 4.7                   | 2,982              |
| Rural   | 4.3                   | 5,641              |
| <b>Province</b>                                       |                       |                    |
| Central   | 1.9                   | 773                |
| Copperbelt  | 3.6                   | 1,104              |
| Eastern   | 3.1                   | 1,134              |
| Luapula   | 8.9                   | 796                |
| Lusaka  | 5.0                   | 1,334              |
| Muchinga  | 3.7                   | 535                |
| Northern  | 7.0                   | 773                |
| North Western   | 4.5                   | 492                |
| Southern  | 3.4                   | 1,145              |
| Western   | 4.0                   | 537                |
| <b>Mother's education<sup>2</sup></b>                 |                       |                    |
| No education  | 6.4                   | 815                |
| Primary   | 4.0                   | 4,081              |
| Secondary   | 4.7                   | 2,742              |
| Higher  | 3.5                   | 314                |
| <b>Wealth quintile</b>                                |                       |                    |
| Lowest  | 5.6                   | 2,088              |
| Second  | 4.0                   | 1,933              |
| Middle  | 3.6                   | 1,646              |
| Fourth  | 3.6                   | 1,628              |
| Highest   | 5.3                   | 1,327              |
| Total   | 4.4                   | 8,623              |

Note: Table is based on children who stayed in the household the night before the interview. Haemoglobin levels are adjusted for altitude using CDC formulas (CDC 1998). Haemoglobin is measured in grams per decilitre (g/dl).

<sup>1</sup> Includes children whose mothers are deceased

<sup>2</sup> For women who are not interviewed, information on education is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

## Key Findings

- **Comprehensive knowledge of HIV:** Less than half (46%) of women and men age 15-49 have comprehensive knowledge about HIV.
- **Knowledge of mother-to-child transmission of HIV:** Sixty percent of women and 50% of men age 15-49 know that HIV can be transmitted during pregnancy, during labour/delivery, or by breastfeeding.
- **Multiple sexual partners:** Two percent of women and 15% of men age 15-49 reported having two or more sexual partners in the 12 months prior to the survey.
- **Condom use:** Thirty-five percent of women and 54% of men reported using a condom during their last sexual intercourse with a nonmarital or noncohabiting partner.
- **Coverage of HIV testing:** Eighty-five percent of women and 75% of men age 15-49 have ever been tested for HIV and received the test results.
- **Male circumcision:** Thirty-two percent of men age 15-49 are circumcised.

The HIV epidemic in Zambia is driven largely by unprotected heterosexual transmission. The primary factors in transmission include multiple and concurrent partnerships, low and inconsistent condom use, low coverage of medical male circumcision, and mother-to-child transmission (NAC 2017). Moreover, these factors are compounded by social drivers that further increase risk, decrease resilience, and lead to new HIV infections through high-risk behaviours such as intergenerational sex and transactional sex. These drivers include stigma and discrimination, nonacceptance of antiretroviral drugs (ARVs) and condom use, gender inequalities (including gender-based violence), and abuse of alcohol and other substances. Knowledge of HIV transmission and prevention methods is key to preventing the spread of HIV.

This chapter provides data on levels and trends in HIV/AIDS knowledge, attitudes, and behaviours, including knowledge of HIV prevention methods, stigma and discrimination, sexual behaviour, self-reported HIV testing, prevention of mother-to-child transmission, and voluntary medical male circumcision.

### 13.1 HIV/AIDS KNOWLEDGE, TRANSMISSION, AND PREVENTION METHODS

The 2018 ZDHS asked women and men age 15-49 whether they had heard of HIV. Those who reported having heard of HIV were then asked a number of questions about whether and how infection can be avoided. Overall, general awareness of HIV among the population is nearly universal, as 98% of women and 99% of men interviewed have heard of the disease (data not shown).

**Table 13.1** shows that men tend to have greater knowledge of HIV prevention than women. Eighty-four percent of men age 15-49 know that HIV can be prevented by using condoms and limiting sexual

intercourse to one uninfected partner, as compared with 80% of women in the same age range. Ninety-one percent of men mentioned abstinence as an HIV prevention method, compared with 85% of women.

**Trends:** The percentage of women who know that using condoms consistently and limiting sexual intercourse to one uninfected partner can reduce the risk of HIV increased from 66% in 2001-02 to 80% in 2018. Among men, the percentage increased from 67% to 84% over the same period.

#### Patterns by background characteristics

- Seventy-six percent of young women age 15-24 reported that using condoms and limiting sexual intercourse to one uninfected partner can prevent HIV, as compared with 82% of young men.
- Knowledge of the two HIV prevention methods is higher among urban women (83%) than among rural women (77%).
- Among the provinces, women and men in Eastern are least likely to have knowledge of the two HIV prevention methods (69% and 76%, respectively). Central and Copperbelt have the highest percentage of women with knowledge of the two HIV prevention methods (86% each), while Central has the highest percentage of men with knowledge of the two methods (92%).
- Knowledge of the two HIV prevention methods increases with increasing education among both women and men. Sixty-nine percent of women with no education reported having knowledge of the two HIV prevention methods, compared with 92% of those with a higher education. The corresponding percentages among men are 76% and 90%.
- Among women, knowledge of the two HIV prevention methods increases with increasing wealth, from 74% among those in the lowest wealth quintile to 85% among those in the highest quintile. No such pattern is observed among men.

#### Comprehensive knowledge of HIV

Knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chances of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about transmission or prevention of HIV.

**Sample:** Women and men age 15-24 and 15-49

Tables 13.2.1 and 13.2.2 show that less than half (46%) of both women and men age 15-49 have comprehensive knowledge about HIV. Eighty-three percent of women and 90% of men know that a healthy-looking person can have HIV. The two most common local misconceptions are that HIV can be transmitted by mosquito bites (rejected by 69% of women and 65% of men) and that HIV can be transmitted by supernatural means (rejected by 81% of women and 83% of men).

**Trends:** The percentage of women age 15-49 with comprehensive knowledge of HIV increased from 36% in 2007 to 46% in 2018. Among men, however, comprehensive knowledge increased from 39% in 2007 to 49% in 2013-14 and then decreased slightly to 46% in 2018.

## 13.2 KNOWLEDGE ABOUT MOTHER-TO-CHILD TRANSMISSION

Increasing the level of general knowledge about transmission of HIV from mother to child and reducing the risk of transmission using antiretroviral drugs are critical in reducing mother-to-child transmission (MTCT) of HIV. Zambia shares the international community's goal of achieving elimination of mother-to-child transmission of HIV (eMTCT), with the ambitious target of reducing the mother-to-child transmission rate to less than 1% by 2021 (NAC 2017).

To assess MTCT knowledge, respondents were asked whether HIV can be transmitted from a mother to her child during pregnancy, during delivery, or by breastfeeding and whether a mother with HIV can reduce the risk of transmission to her baby by taking certain drugs during pregnancy.

Sixty percent of women age 15–49 reported knowing that HIV can be transmitted by all three means: during pregnancy (67%), during delivery (83%), and by breastfeeding (87%). Similarly, 50% of men age 15–49 reported having knowledge of the three modes of transmission: during pregnancy (62%), during delivery (81%), and during breastfeeding (83%) (**Table 13.3**).

Eighty-one percent of women know that the risk of HIV transmission from mother to child can be reduced by taking special drugs, as compared with only 67% of men.

**Trends:** The percentage of women and men age 15–49 who know that the risk of mother-to-child transmission of HIV can be reduced by taking special drugs increased from 68% and 56% in 2007 to 82% and 66% in 2013–14 and then plateaued at 81% and 67% in 2018, respectively (**Figure 13.1**).

#### Patterns by background characteristics

- Knowledge that medication can be taken to reduce the risk of MTCT is highest among women age 30–39 (88%) and men age 40–49 (77%) and lowest among women and men age 15–19 (65% and 52%, respectively).

### 13.3 DISCRIMINATORY ATTITUDES TOWARDS PEOPLE LIVING WITH HIV

Widespread stigma and discrimination in a population can adversely affect both people's willingness to be tested and their adherence to antiretroviral therapy (ART). Thus, reduction of stigma and discrimination in a population is an important indicator of the success of programmes targeting HIV prevention and control.

#### Discriminatory attitudes towards people living with HIV

Women and men are asked two questions to assess discriminatory attitudes towards people living with HIV. Respondents with discriminatory attitudes towards people living with HIV are those who say that they would not buy fresh vegetables from a shopkeeper or vendor if they knew that person had HIV or who say that children living with HIV should not be allowed to attend school with children who do not have HIV.

**Sample:** Women and men age 15–49 who have heard of HIV or AIDS

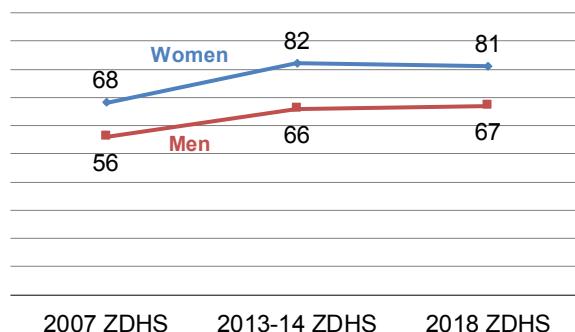
**Table 13.4** shows that 27% of women age 15–49 have discriminatory attitudes towards people living with HIV (PLHIV), as compared with 23% among men.

#### Patterns by background characteristics

- Differences in discriminatory attitudes towards PLHIV are observed between urban and rural areas; 20% of women and 17% of men in urban areas have discriminatory attitudes, compared with 33% of women and 28% of men in rural areas.

**Figure 13.1 Trends in knowledge of mother-to-child transmission (MTCT)**

Percentage of women and men age 15–49 who know that the risk of MTCT can be reduced by mother taking special drugs



- Discriminatory attitudes are highest in Luapula (47% for women and 39% for men) and lowest in Copperbelt for women (17%) and Lusaka for men (16%).
- Discriminatory attitudes towards PLHIV decrease with increasing education among both women and men; 45% of women and 41% of men with no education have discriminatory attitudes, compared with 7% of women and 6% of men with a higher education (**Figure 13.2**).
- Similarly, the percentage of women and men with discriminatory attitudes towards PLHIV decreases with increasing wealth. Among women, the percentage decreases from 43% in the lowest wealth quintile to 15% in the highest wealth quintile. Among men, the percentage decreases from 34% in the lowest quintile to 13% in the highest quintile.

#### 13.4 MULTIPLE SEXUAL PARTNERS

Given that most HIV infections in Zambia are acquired through heterosexual intercourse, information on number of sexual partners and use of safe sex practices is important in designing and monitoring programmes that control the spread of HIV.

**Table 13.5.1** shows that 2% of women age 15–49 reported having two or more sexual partners in the 12 months prior to the survey, among whom 38% reported using a condom during their last sexual intercourse. Nineteen percent of women reported having sexual intercourse with a partner who neither was their husband nor lived with them, and among these women 35% reported using a condom during their last sexual intercourse with such a partner (**Figure 13.3**). The mean number of lifetime sexual partners among women is 2.3.

**Table 13.5.2** shows that 15% of men age 15–49 reported having two or more sexual partners in the 12 months prior to the survey, among whom 28% reported using a condom during their last sexual intercourse. Thirty-three percent of men reported having sexual intercourse with a partner who neither was their wife nor lived with them, and among these men 54% reported using a condom during their last sexual intercourse with such a partner (**Figure 13.3**). The mean number of lifetime sexual partners among men is 6.5.

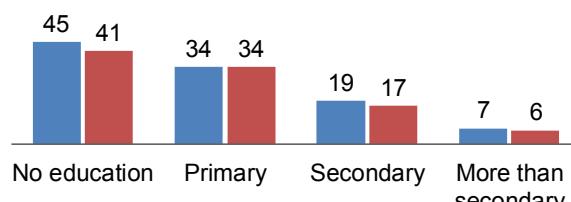
#### Patterns by background characteristics

- Women in urban areas are more likely to have had sexual intercourse with a person who neither was their husband nor lived with them than women in rural areas (22% versus 17%).

**Figure 13.2 Discriminatory attitudes towards people living with HIV by education**

Percentage among women and men age 15–49 who have heard of HIV

■ Women ■ Men



Note: Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative or would not buy fresh vegetables from a shopkeeper who has HIV

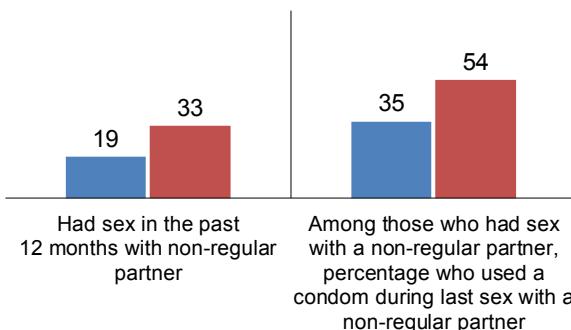
Percentage among women and men age 15–49 who have heard of HIV

■ Women ■ Men

**Figure 13.3 Sex and condom use with non-regular partners**

Percentage of women and men age 15–49

■ Women ■ Men



- Western has the highest percentage of women and men who reported having sexual intercourse with a nonmarital or noncohabiting partner (34% and 47%, respectively), while Northern and Muchinga have the lowest percentages (10% among women and 21% among men).
- The percentage of women who reported having sexual intercourse with a partner who neither was their husband nor lived with them increases with increasing education, from 11% among those with no education to 25% among those with a higher education. No such pattern is observed among men.
- Among both women and men, condom use at last sexual intercourse with a nonmarital or noncohabiting partner increases with increasing education, from 20% and 37%, respectively, among those with no education to 52% and 65%, respectively, among those with a higher education.

### **13.5 PAID SEX**

The act of paying for sex introduces an uneven negotiating ground for safer sexual intercourse. This type of sexual intercourse is associated with a greater risk of contracting HIV and other sexually transmitted infections (STIs) because of compromised power relations and the likelihood of having multiple partners.

Fifteen percent of men age 15-49 report ever having paid for sexual intercourse, and 6% report that they paid for sexual intercourse in the 12 months preceding the survey. More than half (56%) of those who paid for sexual intercourse in the 12 months preceding the survey reported using a condom during their last paid sexual intercourse (**Table 13.6**).

**Trends:** The percentage of men age 15-49 who report having paid for sexual intercourse in the 12 months preceding the survey declined from 11% in 2001-02 to 5% in 2007 and 2013-14 and remained roughly the same at 6% in 2018. Use of a condom at last paid sex among men who reported having paid for sexual intercourse in the 12 months preceding the survey increased from 47% in 2001 to 60% in 2013-14 before declining to 56% in 2018.

#### **Patterns by background characteristics**

- The percentage of men reporting condom use at last paid sexual intercourse is highest among those age 25-29 (70%) and lowest among those age 15-19 (45%).

### **13.6 COVERAGE OF HIV TESTING SERVICES**

Knowledge of HIV status helps HIV-negative individuals make specific decisions to reduce risk and increase safer sex practices so that they can remain disease free. Among those who are living with HIV, knowledge of their status allows them to take action to protect their sexual partners, to access care, and to receive treatment.

### 13.6.1 Awareness of HIV Testing Services and Experience with HIV Testing

Tables 13.7.1 and 13.7.2 show that a majority of both female and male respondents (96% each) know where to get an HIV test. Eighty-five percent of women report having ever been tested for HIV and receiving results, as compared with 75% of men in the same age group. Sixty-four percent of women report having been tested for HIV and receiving results in the last 12 months, compared with 52% of men (Figure 13.4).

**Trends:** There has been a steady increase in the percentage of women and men age 15-49 who were tested for HIV and received results in the 12 months preceding the survey, from 19% and 12% in 2007 to 64% and 52% in 2018, respectively (Figure 13.5).

#### Patterns by background characteristics

- Across the provinces, the percentage of women who have ever been tested and received results ranges from 76% in Luapula to 92% in Southern.
- Among men, Muchinga has the lowest percentage who have ever been tested and received their HIV test result (64%), while Southern has the highest (83%).
- The percentage of both women and men age 15-49 who have ever been tested and received results increases with increasing education, from 78% and 67% among those with no education to 95% and 92% among those with a higher education, respectively.

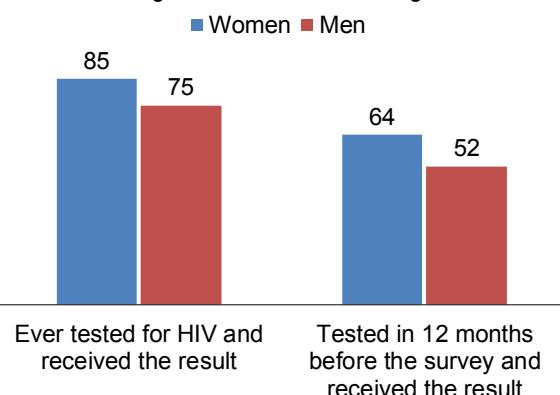
### 13.6.2 HIV Testing of Pregnant Women

Table 13.8 presents information on self-reported HIV testing during pregnancy or delivery among women age 15-49 who gave birth in the 2 years preceding the survey. Eighty-two percent of women received counselling on HIV, an HIV test, and the results during antenatal care (ANC). Ninety-three percent of women had an HIV test during an ANC visit or labour and received the test results.

**Trends:** The percentage of women who were counselled, tested, and received their results during ANC increased from 37% in 2007 to 85% in 2013-14 before declining to 82% in 2018 (Figure 13.6).

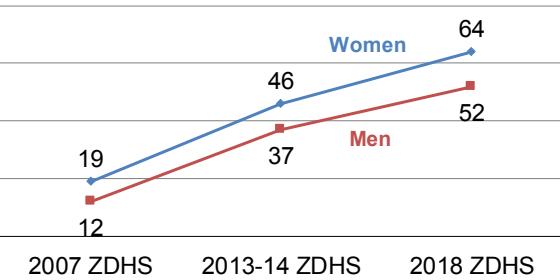
### Figure 13.4 HIV testing

Percentage of women and men age 15-49



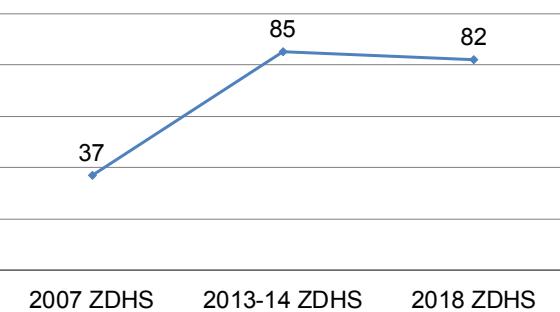
### Figure 13.5 Trends in recent HIV testing

Percentage of women and men age 15-49 who were tested for HIV in the year before the survey and received the results



### Figure 13.6 Trends in HIV testing during pregnancy

Percentage of women age 15-49 who gave birth in the 2 years before the survey who received counselling on HIV and an HIV test during ANC, and the results



### **Patterns by background characteristics**

- The percentage of women who gave birth in the 2 years before the survey and received HIV counselling, testing, and results during ANC is higher in urban areas (89%) than in rural areas (78%).
- At the provincial level, the percentage of women who received HIV counselling, testing, and results during ANC ranges from 69% in Northern to 90% in Copperbelt and Lusaka.
- The percentage of women who were counselled, tested, and received their results during ANC increases with increasing education, from 67% among those with no education to 94% among those with a higher education.

#### **13.6.3 Disclosure of HIV Test Results**

Disclosure of HIV test results, particularly to partners, is encouraged and helps sexual partners decide to adopt safer sex practices. Individuals who know and disclose their HIV-positive status to loved ones can enhance their chances of accessing HIV prevention, treatment, and care services. In addition, they tend to have a stronger support system.

**Table 13.9.1** shows the percentage of women who gave birth in the 2 years preceding the survey, were tested for HIV during ANC, and received their test results who disclosed their results to various individuals. Ninety-two percent of women reported disclosing their test results to anyone. Note that this percentage refers to women of any HIV status. Eighty percent disclosed their HIV test results to their husband or partner, and 40% disclosed to another family member; only 2% disclosed to a religious leader.

**Table 13.9.2** shows that 88% of men age 15-49 who were ever tested for HIV disclosed the results of their most recent test to anyone. Fifty-eight percent disclosed their results to their wife or partner.

### **Patterns by background characteristics**

- Ever-married women are more likely to disclose their HIV results to someone than never-married women (95% and 72%, respectively). A similar pattern is observed among men (94% and 76%, respectively).
- By province, the percentage of women who disclosed their HIV results to someone ranges from 86% in North Western to 96% in Northern. Among men, the percentage ranges from 79% in North Western to 92% in Central.

#### **13.6.4 HIV Self-testing**

In order to increase uptake of HIV testing services, especially for populations with low access and those at higher risk that would otherwise not get tested, HIV self-testing has recently been introduced as an additional testing strategy. HIV self-testing is when a person collects his or her own specimen (oral fluid or blood), performs an HIV test, and interprets the result, often in a private setting, either alone or with someone he or she trusts (WHO 2016).

**Table 13.10** shows the percentage of women and men age 15-49 who have heard of HIV self-test kits and the percentage who have ever used them. About a quarter of men (25%) have heard of HIV self-test kits, as compared with 16% of women. Use of HIV self-test kits was reported by 3% of both women and men.

### **Patterns by background characteristics**

- Differences in awareness of HIV self-testing are observed between urban and rural areas; 26% of women and 38% of men in urban areas had ever heard of HIV self-test kits, as compared with 8% of women and 15% of men in rural areas.

- Five percent of women and men in urban areas have used an HIV self-test kit, compared with 1% of women and men in rural areas.
- Knowledge of HIV self-testing kits increases with increasing education. Among women, knowledge increases from 6% among those with no education to 56% among those with a higher education. Among men, knowledge increases from 7% among those with no education to 68% among those with a higher education.
- Similarly, knowledge of HIV self-testing kits increases with increasing household wealth. Three percent of women in the lowest wealth quintile know about HIV self-testing, as compared with 33% of those in the highest quintile. Among men, knowledge of HIV self-testing increases from 9% among those in the lowest quintile to 49% among those in the highest quintile.
- The percentage of both men and women who report they ever used an HIV self-test kit increases with increasing education, from 1% among those with no education to 10% among those with a higher education.

### 13.7 MALE CIRCUMCISION

**Table 13.11** shows that 32% of men age 15-49 are circumcised.

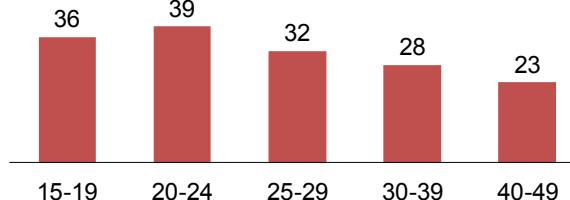
**Trends:** The percentage of men age 15-49 who are circumcised increased from 13% in 2007 to 22% in 2013-14 and 32% in 2018.

#### Patterns by background characteristics

- The percentage of men who are circumcised is highest among those age 20-24 (39%) and lowest among those age 40-49 (23%) (**Figure 13.7**).
- Forty percent of urban men are circumcised, as compared with only 25% of men in rural areas. Thirty-two percent of men in urban areas were circumcised by a health worker, compared with only 19% of men in rural areas.
- There is a notably wide range in terms of the percentage of men circumcised across provinces, with North Western having the highest percentage (78%) and Northern the lowest (14%). The percentage of men who were circumcised by a health worker is highest in Western (44%) and lowest in Northern (13%), followed by Eastern and Muchinga (14% each).
- Across different religions, the percentage circumcised by traditional practitioners is highest among Muslims (20%) and lowest among Catholics (4%) (**Table 13.11**).

#### Figure 13.7 Male circumcision by age

*Percentage of men circumcised*



### 13.8 SELF-REPORTING OF SEXUALLY TRANSMITTED INFECTIONS

#### Sexually transmitted infections (STIs) and symptoms

Respondents who have ever had sex are asked whether they had an STI or symptoms of an STI (a bad-smelling, abnormal discharge from the vagina/penis or a genital sore or ulcer) in the 12 months before the survey.

**Sample:** Women and men age 15-49 who have ever had sex

STIs have been found to increase susceptibility to HIV infection (CDC 2014b). Overall, 5% of women and 8% of men age 15-49 reported having had an STI or symptoms of an STI in the 12 months prior to the survey (**Table 13.12**). Sixty-two percent of women and 73% of men who had an STI or STI symptoms sought advice or treatment from a clinic, hospital, private doctor, or other health professional (**Table 13.13**). However, 37% of women and 26% of men with an STI or symptoms did not seek any advice or treatment at all.

**Trends:** The percentage of women age 15-49 reporting having an STI and/or symptoms of an STI in the 12 months prior to the survey has remained relatively constant over time (6% in 2001-02, 5% in 2007, 4% in 2013-14, and 5% in 2018). Among men age 15-49, the percentage declined from 9% in 2001-02 to 6% in 2007 and 2013-14 before increasing to 8% in 2018.

#### Patterns by background characteristics

- By age, the percentage of men reporting an STI and/or symptoms of an STI is highest among those age 25-29 (10%). Among women, the percentage is highest among those age 25-39 (6%) (**Table 13.10**).
- By marital status, men and women who are divorced, separated, or widowed are most likely to report an STI and/or symptoms of an STI in the past 12 months (15% and 7%, respectively).
- There is only a minimal difference in the percentage of circumcised and uncircumcised men who reported an STI and/or symptoms of an STI (8% and 7%, respectively).
- Across the provinces, Eastern has the highest percentage of men reporting an STI and/or symptoms of an STI (12%), while Northern has the lowest (5%).

### 13.9 HIV/AIDS-RELATED KNOWLEDGE AND BEHAVIOUR AMONG YOUNG PEOPLE

This section addresses HIV/AIDS-related knowledge among young people age 15-24 and also assesses the extent to which young people are engaged in behaviours that may place them at risk of contracting HIV.

#### 13.9.1 Knowledge

Knowledge of how HIV is transmitted is crucial to enabling people to avoid HIV infection, and this is especially true for young people, who are often at greater risk because they may have shorter relationships with more partners or engage in other risky behaviours.

The percentage of young people age 15-24 with comprehensive knowledge about HIV is 43% among young women and 41% among young men (**Table 13.14**).

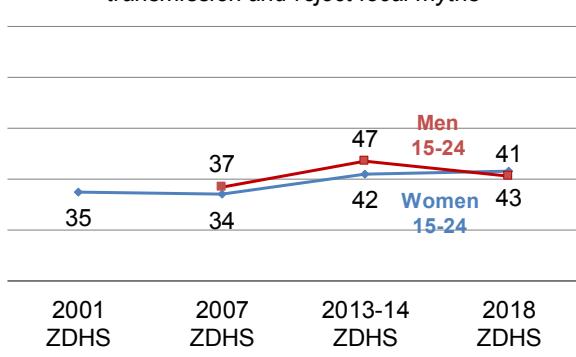
**Trends:** The percentage of young men age 15-24 with comprehensive knowledge about HIV rose from 37% in 2007 to 47% in 2013-14 before decreasing to 41% in 2018. Among young women, the percentage increased from 34% in 2007 to 42% in 2013-14 and 43% in 2018 (**Figure 13.8**).

#### Patterns by background characteristics

- Comprehensive knowledge about HIV is higher among urban young women and men (52% and 47%, respectively) than among their rural counterparts (35% each).

**Figure 13.8 Trends in comprehensive HIV knowledge among youth**

Percentage of young women and men age 15-24 who know how to prevent HIV transmission and reject local myths



- Comprehensive knowledge about HIV increases with increasing education. Only 16% each of young women and men with no education have comprehensive knowledge, as compared with 70% and 63% of those with a higher education, respectively.

### **13.9.2 First Sex**

Young people who initiate sex at an early age are typically at higher risk of becoming pregnant or contracting an STI than young people who initiate sex later. Consistent condom use may reduce such risks.

**Table 13.15** shows that 14% of young women and 15% of young men had sex before age 15. More young women (61%) than young men (50%) report that they had sex before they were age 18.

**Trends:** The percentage of young women who reported having sex before age 15 declined from 22% in 1996 to 12% in 2013-14 and then increased to 14% in 2018. The percentage who had sex before age 18 declined from 71% in 1996 to 56% in 2013-14 before increasing to 61% in 2018. Among young men, the percentage who reported having sex before age 15 decreased from 36% in 1996 to 15% in 2018. The percentage who had sex before age 18 declined from 72% in 1996 to 50% in 2013-14 and 2018.

#### **Patterns by background characteristics**

- Twice as many young women in rural areas have sex before age 15 than their urban counterparts (18% and 9%, respectively). A similar pattern is observed among young men (19% and 10%, respectively).
- The percentage of young women who report having sex before age 15 declines with increasing education, from 31% among those with no education to 2% among those with a higher education.
- The percentage of young women reporting having sex before age 18 also declines with increasing education, from 80% among those with no education to 14% among those with a higher education. No such pattern was observed among young men.

### **13.9.3 Premarital Sex**

The 2018 ZDHS also collected information on patterns of sexual activity among never-married young women and men age 15-24. **Table 13.16** shows that among never-married young people, 48% of young women and 41% of young men have never had sexual intercourse.

#### **Patterns by background characteristics**

- The percentage of never-married young women who report that they have never had sex is higher among those in urban areas (51%) than among their rural counterparts (45%).
- Similarly, the percentage of never-married young men who report that they have never had sex is higher in urban areas than in rural areas (47% versus 36%).

### **13.9.4 Multiple Sexual Partners**

Individuals who have multiple sexual partners increase their risk of contracting HIV, as each new relationship introduces another pathway for HIV transmission.

**Table 13.17.1** shows that 2% of women age 15-24 reported having two or more sexual partners in the 12 months prior to the survey, among whom 39% reported using a condom during their last sexual intercourse. Twenty-seven percent of young women age 15-24 reported having sexual intercourse in the past 12 months with a partner who neither was their husband nor lived with them, and among these women 34% reported using a condom during their last sexual intercourse with such a partner.

**Table 13.17.2** shows that 11% of men age 15-24 reported having two or more sexual partners in the 12 months prior to the survey, among whom 41% reported using a condom during their last sexual intercourse. Forty-two percent of young men reported having sexual intercourse with a partner who neither was their wife nor lived with them, and among these men 49% reported using a condom during their last sexual intercourse with such a partner.

#### Patterns by background characteristics

- The percentage of young women who reported having sexual intercourse with a partner who neither was their husband nor lived with them increases with increasing education, from 18% among those with no education to 43% among those with a higher education. Among men, the percentage increases from 38% among those with no education to 52% among those with a higher education.

### 13.9.5 Coverage of HIV Testing Services

Seeking an HIV test may be more difficult for young people than adults, as many young people lack experience in accessing health services for themselves and there are often barriers to young people obtaining services. Overall, among young people age 15-24 who had sexual intercourse in the 12 months prior to the survey, 72% of young women and 54% of young men have been tested for HIV in the past 12 months and received the results of their last test (**Table 13.18**).

**Trends:** HIV testing among young women and men increased from 23% and 13% in 2007 to 72% and 54% in 2018, respectively.

#### Patterns by background characteristics

- Ever-married young women and men (74% and 65%, respectively) are more likely to have been tested for HIV in the 12 months prior to the survey and to have received their results than their never-married counterparts (70% and 52%, respectively).

### 13.9.6 Age-mixing in Sexual Relationships

In many societies, young women have sexual relationships with men who are considerably older than they are. This practice can contribute to the spread of HIV and other STIs because if a younger uninfected partner has sex with an older infected partner, this can introduce the virus into a younger uninfected cohort.

**Table 13.19** shows that, in Zambia, 2% of women age 15-19 who had sexual intercourse in the 12 months prior to the survey had sex with a man who was 10 or more years older.

### 13.9.7 Drunkenness and Sexual Intercourse among Young People

Alcohol abuse reduces both the perception of risk and inhibitions regarding engaging in risky behaviours such as inconsistent condom use with casual partners.

**Table 13.20** shows the percentage of young women and men who had sexual intercourse in the 12 months prior to the survey while drunk or had sexual intercourse when drunk or with a partner who was drunk. Less than 1% of young women had sexual intercourse when drunk, as compared with 4% of young men. Six percent of young women reported they had sexual intercourse in the 12 months prior to the survey when they or their partner were drunk, compared with 5% of young men.

#### Patterns by background characteristics

- Young urban women and men (7% each) were more likely to report that they had sexual intercourse when drunk or when their partner was drunk than young rural women and men (5% and 4%, respectively).

- Among young women, the percentage who had sexual intercourse in the 12 months prior to the survey when drunk or with a partner who was drunk declines with increasing education, from 9% among those with no education to 3% among those with a higher education.
- In contrast, among young men, the percentage reporting having sexual intercourse in the 12 months prior to the survey while drunk or with a partner who was drunk increases with increasing education, from 3% among those with no education to 7% among those with a higher education.

## **LIST OF TABLES**

For more information on knowledge, attitudes, and behaviour related to HIV and AIDS, see the following tables:

- **Table 13.1 Knowledge of HIV prevention methods**
- **Table 13.2.1 Comprehensive knowledge about HIV: Women**
- **Table 13.2.2 Comprehensive knowledge about HIV: Men**
- **Table 13.3 Knowledge of prevention of mother-to-child transmission of HIV**
- **Table 13.4 Discriminatory attitudes towards people living with HIV**
- **Table 13.5.1 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Women**
- **Table 13.5.2 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Men**
- **Table 13.6 Payment for sexual intercourse and condom use at last paid sexual intercourse**
- **Table 13.7.1 Coverage of prior HIV testing: Women**
- **Table 13.7.2 Coverage of prior HIV testing: Men**
- **Table 13.8 Pregnant women counselled and tested for HIV**
- **Table 13.9.1 Disclosure of HIV test results from ANC HIV test: Women**
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- **Table 13.10 Knowledge and coverage of self-testing for HIV**
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- **Table 13.13 Women and men seeking treatment for STIs**
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- **Table 13.15 Age at first sexual intercourse among young people**
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- **Table 13.18 Recent HIV tests among young people**
- **Table 13.19 Age-mixing in sexual relationships among women age 15-19**
- **Table 13.20 Drunkenness during sexual intercourse among youth**

**Table 13.1 Knowledge of HIV prevention methods**

Percentage of women and men age 15-49 who, in response to prompted questions, say that people can reduce the risk of getting HIV by using condoms every time they have sexual intercourse, by having one sex partner who is not infected and has no other partners, and by abstaining from sexual intercourse, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Women                      |  |  |  |                                    | Men             |                            |  |  |        |                                    |               |
|----------------------------|----------------------------|--|--|--|------------------------------------|-----------------|----------------------------|--|--|--------|------------------------------------|---------------|
|                            | Using condoms <sup>1</sup> | Limiting sexual intercourse to one uninfected partner <sup>2</sup> | Using condoms and limiting sexual intercourse to one uninfected partner <sup>1,2</sup> |  | Abstaining from sexual intercourse | Number of women | Using condoms <sup>1</sup> | Limiting sexual intercourse to one uninfected partner <sup>2</sup> | Using condoms and limiting sexual intercourse to one uninfected partner <sup>1,2</sup> |        | Abstaining from sexual intercourse | Number of men |
|                            |                            |  | Using condoms  | Limiting sexual intercourse to one uninfected partner <sup>2</sup> |                                    |                 |                            |  | Using condoms and limiting sexual intercourse to one uninfected partner <sup>1,2</sup> |        |                                    |               |
| <b>Age</b>                 |                            |  |  |  |                                    |                 |                            |  |  |        |                                    |               |
| 15-24                      | 80.3                       | 89.1   | 75.8   | 81.1   | 5,733                              | 86.1            | 91.9                       | 81.6   | 89.8   | 4,813  |                                    |               |
| 15-19                      | 76.4                       | 86.3   | 71.0   | 78.6   | 3,000                              | 84.8            | 91.1                       | 80.1   | 89.2   | 2,781  |                                    |               |
| 20-24                      | 84.6                       | 92.2   | 81.2   | 83.9   | 2,733                              | 87.8            | 93.0                       | 83.6   | 90.5   | 2,032  |                                    |               |
| 25-29                      | 85.1                       | 94.3   | 83.2   | 85.9   | 2,237                              | 87.9            | 95.7                       | 85.5   | 91.3   | 1,721  |                                    |               |
| 30-39                      | 85.9                       | 94.2   | 83.1   | 88.0   | 3,559                              | 89.0            | 95.9                       | 86.9   | 91.7   | 2,663  |                                    |               |
| 40-49                      | 84.5                       | 93.3   | 81.5   | 87.9   | 2,153                              | 87.9            | 96.7                       | 86.1   | 90.8   | 1,981  |                                    |               |
| <b>Marital status</b>      |                            |  |  |  |                                    |                 |                            |  |  |        |                                    |               |
| Never married              | 81.5                       | 89.3   | 76.6   | 82.8   | 4,272                              | 86.6            | 92.0                       | 82.1   | 89.9   | 5,142  |                                    |               |
| Ever had sex               | 85.6                       | 92.0   | 81.8   | 85.6   | 2,477                              | 88.8            | 93.5                       | 84.7   | 91.2   | 3,303  |                                    |               |
| Never had sex              | 75.7                       | 85.5   | 69.6   | 79.1   | 1,796                              | 82.7            | 89.2                       | 77.6   | 87.6   | 1,839  |                                    |               |
| Married/living together    | 83.9                       | 93.2   | 81.2   | 85.1   | 7,648                              | 88.0            | 96.5                       | 86.2   | 91.5   | 5,572  |                                    |               |
| Divorced/separated/widowed | 84.5                       | 93.0   | 81.4   | 88.0   | 1,762                              | 88.0            | 93.1                       | 84.2   | 87.5   | 463    |                                    |               |
| <b>Residence</b>           |                            |  |  |  |                                    |                 |                            |  |  |        |                                    |               |
| Urban                      | 86.3                       | 94.2   | 83.1   | 87.4   | 6,374                              | 86.9            | 93.6                       | 83.0   | 89.7   | 5,013  |                                    |               |
| Rural                      | 80.5                       | 90.0   | 76.9   | 82.4   | 7,309                              | 87.8            | 94.8                       | 85.2   | 91.4   | 6,165  |                                    |               |
| <b>Province</b>            |                            |  |  |  |                                    |                 |                            |  |  |        |                                    |               |
| Central                    | 88.4                       | 95.1   | 86.0   | 87.6   | 1,165                              | 93.8            | 96.9                       | 92.2   | 92.8   | 979    |                                    |               |
| Copperbelt                 | 89.6                       | 94.3   | 85.6   | 93.4   | 2,201                              | 83.8            | 94.8                       | 80.9   | 87.6   | 1,727  |                                    |               |
| Eastern                    | 72.7                       | 86.2   | 68.5   | 78.1   | 1,605                              | 79.5            | 93.8                       | 76.3   | 88.9   | 1,476  |                                    |               |
| Luapula                    | 83.1                       | 88.8   | 78.9   | 83.2   | 1,071                              | 88.6            | 91.8                       | 84.3   | 85.3   | 849    |                                    |               |
| Lusaka                     | 85.2                       | 94.2   | 82.1   | 84.2   | 2,733                              | 87.3            | 91.2                       | 82.2   | 87.7   | 2,166  |                                    |               |
| Muchinga                   | 86.0                       | 95.7   | 83.9   | 87.7   | 754                                | 88.4            | 94.9                       | 86.0   | 91.2   | 599    |                                    |               |
| Northern                   | 78.4                       | 87.0   | 75.0   | 75.7   | 1,054                              | 87.4            | 95.0                       | 85.0   | 95.9   | 855    |                                    |               |
| North Western              | 84.8                       | 87.3   | 79.2   | 89.2   | 718                                | 90.0            | 96.9                       | 89.2   | 94.0   | 556    |                                    |               |
| Southern                   | 79.7                       | 94.4   | 77.9   | 80.6   | 1,574                              | 91.6            | 95.9                       | 88.7   | 96.0   | 1,395  |                                    |               |
| Western                    | 81.9                       | 91.3   | 77.7   | 87.3   | 808                                | 92.0            | 96.7                       | 90.1   | 94.7   | 574    |                                    |               |
| <b>Education</b>           |                            |  |  |  |                                    |                 |                            |  |  |        |                                    |               |
| No education               | 73.1                       | 84.5   | 68.8   | 76.2   | 1,054                              | 81.0            | 85.1                       | 75.8   | 82.5   | 446    |                                    |               |
| Primary                    | 81.0                       | 90.6   | 77.6   | 83.5   | 6,059                              | 86.4            | 93.5                       | 83.4   | 90.5   | 4,206  |                                    |               |
| Secondary                  | 86.0                       | 94.0   | 82.6   | 86.6   | 5,816                              | 87.7            | 95.4                       | 84.6   | 91.4   | 5,618  |                                    |               |
| Higher                     | 93.3                       | 97.5   | 91.5   | 92.1   | 755                                | 92.6            | 95.7                       | 90.2   | 90.7   | 907    |                                    |               |
| <b>Wealth quintile</b>     |                            |  |  |  |                                    |                 |                            |  |  |        |                                    |               |
| Lowest                     | 77.5                       | 87.8   | 73.7   | 81.2   | 2,442                              | 87.5            | 94.4                       | 85.0   | 90.5   | 1,827  |                                    |               |
| Second                     | 80.1                       | 89.3   | 76.0   | 81.1   | 2,387                              | 86.5            | 93.5                       | 83.4   | 90.2   | 1,952  |                                    |               |
| Middle                     | 82.4                       | 91.9   | 79.4   | 84.0   | 2,477                              | 86.8            | 95.9                       | 84.7   | 92.5   | 2,218  |                                    |               |
| Fourth                     | 85.8                       | 93.6   | 82.7   | 87.2   | 3,011                              | 86.8            | 94.8                       | 83.9   | 90.5   | 2,552  |                                    |               |
| Highest                    | 87.8                       | 95.4   | 84.7   | 88.2   | 3,367                              | 89.0            | 92.9                       | 84.2   | 89.6   | 2,629  |                                    |               |
| Total 15-49                | 83.2                       | 92.0   | 79.8   | 84.7   | 13,683                             | 87.4            | 94.3                       | 84.2   | 90.6   | 11,177 |                                    |               |
| 50-59                      | na                         | na   | na   | na   | na                                 | 87.1            | 96.0                       | 84.7   | 93.2   | 955    |                                    |               |
| Total 15-59                | na                         | na   | na   | na   | na                                 | 87.4            | 94.4                       | 84.3   | 90.8   | 12,132 |                                    |               |

na = Not applicable

<sup>1</sup> Using condoms every time they have sexual intercourse

<sup>2</sup> Partner who has no other partners

**Table 13.2.1 Comprehensive knowledge about HIV: Women**

Percentage of women age 15-49 who say that a healthy-looking person can have HIV and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of HIV, and percentage with comprehensive knowledge about HIV, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Percentage of respondents who say that: |   |   |   | Percentage who say that a healthy-looking person can have HIV and who reject the two most common local misconceptions <sup>1</sup> | Percentage with comprehensive knowledge about HIV <sup>2</sup> | Number of respondents |
|----------------------------|---|---|---|---|--|--|-----------------------|
|                            | A healthy-looking person can have HIV   | HIV cannot be transmitted by mosquito bites | HIV cannot be transmitted by supernatural means | A person cannot become infected by sharing food with a person who has HIV |  |  |                       |
| <b>Age</b>                 |   |   |   |   |  |  |                       |
| 15-24                      | 80.2                                    | 68.6  | 80.6  | 82.1  | 51.3   | 42.6   | 5,733                 |
| 15-19                      | 76.7                                    | 70.0  | 80.1  | 80.0  | 50.8   | 40.5   | 3,000                 |
| 20-24                      | 84.0                                    | 67.2  | 81.2  | 84.5  | 51.9   | 44.9   | 2,733                 |
| 25-29                      | 85.9                                    | 71.9  | 79.7  | 82.9  | 55.5   | 48.8   | 2,237                 |
| 30-39                      | 86.5                                    | 70.3  | 81.4  | 83.9  | 55.3   | 48.3   | 3,559                 |
| 40-49                      | 84.6                                    | 67.3  | 81.0  | 83.4  | 52.1   | 45.4   | 2,153                 |
| <b>Marital status</b>      |   |   |   |   |  |  |                       |
| Never married              | 81.6                                    | 74.2  | 82.1  | 85.0  | 56.1   | 46.7   | 4,272                 |
| Ever had sex               | 85.1                                    | 74.5  | 82.5  | 86.5  | 57.3   | 49.5   | 2,477                 |
| Never had sex              | 76.7                                    | 73.7  | 81.6  | 83.1  | 54.4   | 42.8   | 1,796                 |
| Married/living together    | 83.8                                    | 67.0  | 80.8  | 81.5  | 51.8   | 44.9   | 7,648                 |
| Divorced/separated/widowed | 86.3                                    | 68.1  | 77.2  | 84.1  | 52.2   | 45.5   | 1,762                 |
| <b>Residence</b>           |   |   |   |   |  |  |                       |
| Urban                      | 90.5                                    | 79.1  | 83.8  | 89.5  | 64.0   | 55.6   | 6,374                 |
| Rural                      | 77.3                                    | 60.9  | 78.1  | 77.2  | 43.7   | 36.8   | 7,309                 |
| <b>Province</b>            |   |   |   |   |  |  |                       |
| Central                    | 79.5                                    | 76.0  | 88.5  | 88.6  | 59.6   | 54.4   | 1,165                 |
| Copperbelt                 | 91.3                                    | 79.3  | 85.0  | 90.4  | 64.9   | 57.7   | 2,201                 |
| Eastern                    | 77.9                                    | 56.7  | 83.8  | 78.5  | 45.1   | 34.7   | 1,605                 |
| Luapula                    | 68.7                                    | 55.5  | 76.9  | 72.2  | 36.7   | 31.9   | 1,071                 |
| Lusaka                     | 92.6                                    | 80.2  | 79.1  | 89.5  | 62.9   | 54.0   | 2,733                 |
| Muchinga                   | 78.3                                    | 69.3  | 78.2  | 77.9  | 45.8   | 38.7   | 754                   |
| Northern                   | 67.3                                    | 63.0  | 82.5  | 69.6  | 45.5   | 39.1   | 1,054                 |
| North Western              | 87.8                                    | 61.0  | 72.2  | 79.6  | 45.7   | 39.6   | 718                   |
| Southern                   | 89.4                                    | 69.0  | 81.3  | 85.3  | 54.0   | 45.2   | 1,574                 |
| Western                    | 77.3                                    | 56.6  | 68.9  | 75.3  | 38.8   | 31.8   | 808                   |
| <b>Education</b>           |   |   |   |   |  |  |                       |
| No education               | 70.1                                    | 49.8  | 65.3  | 64.1  | 30.5   | 24.2   | 1,054                 |
| Primary                    | 78.5                                    | 60.4  | 77.3  | 77.3  | 43.2   | 36.7   | 6,059                 |
| Secondary                  | 89.1                                    | 79.2  | 85.8  | 90.5  | 63.5   | 54.4   | 5,816                 |
| Higher                     | 98.1                                    | 93.0  | 91.4  | 96.1  | 84.9   | 78.3   | 755                   |
| <b>Wealth quintile</b>     |   |   |   |   |  |  |                       |
| Lowest                     | 70.7                                    | 54.4  | 74.0  | 69.4  | 35.5   | 29.3   | 2,442                 |
| Second                     | 76.2                                    | 58.4  | 78.2  | 76.3  | 41.5   | 34.6   | 2,387                 |
| Middle                     | 83.4                                    | 66.5  | 80.4  | 83.0  | 50.2   | 42.4   | 2,477                 |
| Fourth                     | 89.6                                    | 75.7  | 81.2  | 88.8  | 59.6   | 51.6   | 3,011                 |
| Highest                    | 92.3                                    | 84.5  | 87.2  | 92.2  | 70.7   | 62.0   | 3,367                 |
| Total                      | 83.4                                    | 69.4  | 80.7  | 82.9  | 53.2   | 45.6   | 13,683                |

<sup>1</sup> Two most common local misconceptions: HIV can be transmitted by mosquito bites and HIV can be transmitted by supernatural means.

<sup>2</sup> Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about transmission or prevention of HIV.

**Table 13.2.2 Comprehensive knowledge about HIV: Men**

Percentage of men age 15-49 who say that a healthy-looking person can have HIV and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of HIV, and percentage with comprehensive knowledge about HIV, according to background characteristics, Zambia DHS 2018

| Background characteristics | Percentage of respondents who say that: |   |   |   | Percentage who say that a healthy-looking person can have HIV and who reject the two most common local misconceptions <sup>1</sup> | Percentage with comprehensive knowledge about HIV <sup>2</sup> | Number of respondents |
|----------------------------|---|---|---|---|--|--|-----------------------|
|                            | A healthy-looking person can have HIV   | HIV cannot be transmitted by mosquito bites | HIV cannot be transmitted by supernatural means | A person cannot become infected by sharing food with a person who has HIV |  |  |                       |
| <b>Age</b>                 |   |   |   |   |  |  |                       |
| 15-24                      | 86.1                                    | 63.1  | 80.7  | 83.2  | 48.0   | 40.6   | 4,813                 |
| 15-19                      | 82.9                                    | 62.5  | 79.1  | 81.4  | 46.0   | 38.6   | 2,781                 |
| 20-24                      | 90.4                                    | 63.9  | 82.7  | 85.5  | 50.7   | 43.2   | 2,032                 |
| 25-29                      | 92.4                                    | 64.0  | 83.3  | 87.3  | 54.3   | 47.1   | 1,721                 |
| 30-39                      | 93.2                                    | 66.8  | 84.3  | 86.6  | 56.9   | 50.4   | 2,663                 |
| 40-49                      | 92.6                                    | 68.8  | 83.7  | 86.5  | 57.7   | 50.8   | 1,981                 |
| <b>Marital status</b>      |   |   |   |   |  |  |                       |
| Never married              | 87.0                                    | 65.8  | 81.1  | 84.0  | 51.0   | 43.5   | 5,142                 |
| Ever had sex               | 89.0                                    | 64.8  | 84.0  | 86.1  | 52.1   | 45.3   | 3,303                 |
| Never had sex              | 83.4                                    | 67.5  | 75.8  | 80.2  | 48.9   | 40.2   | 1,839                 |
| Married/living together    | 92.6                                    | 64.4  | 83.7  | 85.9  | 54.5   | 47.7   | 5,572                 |
| Divorced/separated/widowed | 90.0                                    | 66.5  | 83.0  | 89.8  | 52.5   | 46.8   | 463                   |
| <b>Residence</b>           |   |   |   |   |  |  |                       |
| Urban                      | 92.5                                    | 75.0  | 84.3  | 89.9  | 62.7   | 53.3   | 5,013                 |
| Rural                      | 87.8                                    | 57.1  | 81.0  | 81.4  | 44.8   | 39.6   | 6,165                 |
| <b>Province</b>            |   |   |   |   |  |  |                       |
| Central                    | 91.4                                    | 67.1  | 78.2  | 88.0  | 53.0   | 49.1   | 979                   |
| Copperbelt                 | 87.3                                    | 77.8  | 82.7  | 91.7  | 60.3   | 50.3   | 1,727                 |
| Eastern                    | 90.2                                    | 52.1  | 87.0  | 84.3  | 44.8   | 35.3   | 1,476                 |
| Luapula                    | 87.4                                    | 59.2  | 81.1  | 79.0  | 45.9   | 39.3   | 849                   |
| Lusaka                     | 93.3                                    | 72.1  | 81.8  | 87.8  | 61.1   | 52.6   | 2,166                 |
| Muchinga                   | 91.4                                    | 60.4  | 76.6  | 79.7  | 48.7   | 43.1   | 599                   |
| Northern                   | 87.9                                    | 59.4  | 71.3  | 71.2  | 41.2   | 36.7   | 855                   |
| North Western              | 87.8                                    | 65.1  | 83.8  | 84.4  | 53.4   | 49.6   | 556                   |
| Southern                   | 96.3                                    | 60.2  | 89.4  | 89.2  | 54.5   | 47.8   | 1,395                 |
| Western                    | 73.3                                    | 65.0  | 86.6  | 80.1  | 46.7   | 43.5   | 574                   |
| <b>Education</b>           |   |   |   |   |  |  |                       |
| No education               | 78.5                                    | 39.5  | 69.5  | 68.6  | 27.9   | 23.0   | 446                   |
| Primary                    | 85.7                                    | 50.8  | 77.6  | 77.8  | 37.5   | 32.1   | 4,206                 |
| Secondary                  | 92.8                                    | 73.6  | 85.6  | 90.3  | 61.4   | 52.9   | 5,618                 |
| Higher                     | 96.9                                    | 91.2  | 92.4  | 96.2  | 83.3   | 75.7   | 907                   |
| <b>Wealth quintile</b>     |   |   |   |   |  |  |                       |
| Lowest                     | 83.6                                    | 52.3  | 77.0  | 74.8  | 37.6   | 33.3   | 1,827                 |
| Second                     | 86.2                                    | 54.2  | 80.3  | 81.2  | 41.5   | 36.0   | 1,952                 |
| Middle                     | 91.4                                    | 61.1  | 83.3  | 85.5  | 50.3   | 42.9   | 2,218                 |
| Fourth                     | 91.7                                    | 69.0  | 82.0  | 87.4  | 56.2   | 48.8   | 2,552                 |
| Highest                    | 94.0                                    | 81.7  | 87.7  | 93.0  | 70.6   | 60.9   | 2,629                 |
| Total 15-49                | 89.9                                    | 65.1  | 82.5  | 85.2  | 52.8   | 45.7   | 11,177                |
| 50-59                      | 93.0                                    | 65.0  | 83.0  | 83.5  | 56.7   | 50.2   | 955                   |
| Total 15-59                | 90.1                                    | 65.1  | 82.5  | 85.1  | 53.1   | 46.1   | 12,132                |

<sup>1</sup> Two most common local misconceptions: HIV can be transmitted by mosquito bites and HIV can be transmitted by supernatural means.

<sup>2</sup> Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about transmission or prevention of HIV.

**Table 13.3 Knowledge of prevention of mother-to-child transmission of HIV**

Percentage of women and men age 15-49 who know that HIV can be transmitted from mother to child during pregnancy, during delivery, by breastfeeding, and by all three means, and percentage who know that the risk of mother-to-child transmission (MTCT) of HIV can be reduced by the mother taking special drugs, according to age, Zambia DHS 2018

| Age         | Percentage who know that HIV can be transmitted from mother to child: |                 |                  | Percentage who know that the risk of MTCT can be reduced by mother taking special drugs | Number of respondents |
|-------------|---|-----------------|------------------|---|-----------------------|
|             | During pregnancy  | During delivery | By breastfeeding |   |                       |
| WOMEN       |   |                 |                  |   |                       |
| 15-24       | 64.3  | 76.5            | 83.1             | 54.9  | 72.8                  |
| 15-19       | 59.5  | 69.6            | 78.9             | 48.8  | 65.2                  |
| 20-24       | 69.6  | 84.0            | 87.7             | 61.5  | 81.2                  |
| 25-29       | 69.3  | 86.5            | 89.6             | 64.5  | 85.7                  |
| 30-39       | 70.3  | 90.0            | 90.5             | 66.1  | 88.1                  |
| 40-49       | 67.1  | 86.2            | 87.6             | 60.6  | 86.0                  |
| Total 15-49 | 67.1  | 83.2            | 86.8             | 60.3  | 81.0                  |
| MEN         |   |                 |                  |   |                       |
| 15-24       | 62.2  | 73.1            | 78.1             | 46.1  | 56.8                  |
| 15-19       | 60.4  | 68.2            | 74.9             | 43.2  | 51.9                  |
| 20-24       | 64.7  | 79.9            | 82.4             | 50.0  | 63.5                  |
| 25-29       | 59.6  | 83.1            | 85.6             | 49.1  | 68.5                  |
| 30-39       | 63.0  | 88.2            | 86.8             | 54.6  | 74.7                  |
| 40-49       | 64.2  | 86.0            | 84.5             | 53.8  | 77.1                  |
| Total 15-49 | 62.4  | 80.5            | 82.5             | 49.9  | 66.5                  |
| 50-59       | 70.8  | 85.8            | 84.5             | 59.7  | 77.8                  |
| Total 15-59 | 63.0  | 80.9            | 82.6             | 50.7  | 67.4                  |
|             |   |                 |                  |   | 12,132                |

**Table 13.4 Discriminatory attitudes towards people living with HIV**

Among women and men age 15-49 who have heard of HIV or AIDS, percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative, percentage who would not buy fresh vegetables from a shopkeeper who has HIV, and percentage with discriminatory attitudes towards people living with HIV, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Women  |   |  |  | Men  |   |  |  |
|----------------------------|--|---|--|--|--|---|--|--|
|                            | Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative | Percentage who would not buy fresh vegetables from a shopkeeper who has HIV | Percentage with discriminatory attitudes towards people living with HIV <sup>1</sup> | Number of respondents who have heard of AIDS | Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative | Percentage who would not buy fresh vegetables from a shopkeeper who has HIV | Percentage with discriminatory attitudes towards people living with HIV <sup>1</sup> | Number of respondents who have heard of AIDS |
| <b>Age</b>                 |  |   |  |  |  |   |  |  |
| 15-24                      | 15.4   | 27.9  | 31.4   | 5,559  | 17.2   | 24.8  | 30.4   | 4,740  |
| 15-19                      | 17.5   | 29.6  | 33.6   | 2,877  | 20.5   | 28.5  | 35.0   | 2,722  |
| 20-24                      | 13.1   | 26.0  | 29.1   | 2,682  | 12.9   | 19.8  | 24.0   | 2,019  |
| 25-29                      | 11.6   | 22.4  | 25.1   | 2,194  | 9.1  | 14.4  | 18.2   | 1,709  |
| 30-39                      | 10.9   | 19.3  | 22.5   | 3,520  | 9.3  | 13.7  | 17.4   | 2,648  |
| 40-49                      | 10.9   | 19.8  | 23.7   | 2,121  | 9.3  | 14.7  | 18.6   | 1,972  |
| <b>Marital status</b>      |  |   |  |  |  |   |  |  |
| Never married              | 12.7   | 24.0  | 27.4   | 4,164  | 15.8   | 23.3  | 28.4   | 5,065  |
| Ever had sex               | 11.0   | 21.4  | 24.6   | 2,431  | 16.0   | 22.2  | 27.5   | 3,279  |
| Never had sex              | 15.1   | 27.8  | 31.4   | 1,733  | 15.5   | 25.4  | 30.0   | 1,786  |
| Married/living together    | 13.4   | 24.5  | 27.8   | 7,494  | 9.8  | 14.8  | 18.8   | 5,545  |
| Divorced/separated/widowed | 11.0   | 17.4  | 21.2   | 1,736  | 12.0   | 15.7  | 20.8   | 459  |
| <b>Residence</b>           |  |   |  |  |  |   |  |  |
| Urban                      | 7.3  | 17.0  | 19.5   | 6,338  | 8.1  | 13.9  | 17.4   | 4,972  |
| Rural                      | 17.9   | 29.2  | 33.4   | 7,056  | 16.4   | 22.7  | 28.1   | 6,097  |
| <b>Province</b>            |  |   |  |  |  |   |  |  |
| Central                    | 8.2  | 18.2  | 19.6   | 1,160  | 9.3  | 14.8  | 18.2   | 975  |
| Copperbelt                 | 7.3  | 14.6  | 17.0   | 2,198  | 11.4   | 16.7  | 19.6   | 1,705  |
| Eastern                    | 16.6   | 25.3  | 29.9   | 1,498  | 13.0   | 17.3  | 22.0   | 1,459  |
| Luapula                    | 26.4   | 39.3  | 46.6   | 1,013  | 20.6   | 30.5  | 38.7   | 836  |
| Lusaka                     | 6.6  | 20.6  | 22.4   | 2,720  | 5.3  | 13.5  | 16.0   | 2,146  |
| Muchinga                   | 17.7   | 32.0  | 35.7   | 747  | 15.9   | 15.3  | 22.0   | 595  |
| Northern                   | 28.4   | 36.8  | 43.1   | 1,001  | 17.7   | 24.6  | 29.2   | 850  |
| North Western              | 14.3   | 28.9  | 31.0   | 704  | 16.4   | 23.4  | 27.5   | 549  |
| Southern                   | 9.4  | 17.0  | 20.2   | 1,557  | 14.9   | 18.9  | 25.8   | 1,385  |
| Western                    | 14.0   | 24.7  | 29.4   | 795  | 17.5   | 27.9  | 33.2   | 570  |
| <b>Education</b>           |  |   |  |  |  |   |  |  |
| No education               | 26.1   | 39.4  | 45.1   | 976  | 22.9   | 33.0  | 40.6   | 424  |
| Primary                    | 18.2   | 29.3  | 33.9   | 5,885  | 20.0   | 27.6  | 33.7   | 4,153  |
| Secondary                  | 6.7  | 17.1  | 19.1   | 5,777  | 8.2  | 13.3  | 17.0   | 5,590  |
| Higher                     | 1.7  | 5.4   | 6.7  | 755  | 1.7  | 5.2   | 6.2  | 902  |
| <b>Wealth quintile</b>     |  |   |  |  |  |   |  |  |
| Lowest                     | 25.1   | 37.2  | 43.1   | 2,324  | 20.5   | 26.9  | 34.1   | 1,799  |
| Second                     | 18.8   | 31.3  | 35.7   | 2,302  | 18.0   | 25.2  | 31.1   | 1,928  |
| Middle                     | 12.3   | 22.4  | 25.9   | 2,418  | 14.6   | 20.1  | 24.4   | 2,201  |
| Fourth                     | 8.5  | 19.2  | 21.8   | 2,991  | 9.5  | 14.9  | 19.0   | 2,534  |
| Highest                    | 4.8  | 13.1  | 14.7   | 3,359  | 4.8  | 11.0  | 13.2   | 2,608  |
| Total 15-49                | 12.9   | 23.5  | 26.8   | 13,394                                       | 12.7   | 18.7  | 23.3   | 11,069                                       |
| 50-59                      | na   | na  | na   | na   | 10.8   | 18.3  | 22.3   | 952  |
| Total 15-59                | na   | na  | na   | na   | 12.5   | 18.7  | 23.2   | 12,021                                       |

na = Not applicable

<sup>1</sup> Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative and/or would not buy fresh vegetables from a shopkeeper who has HIV

**Table 13.5.1 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Women**

Among all women age 15-49, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them; among women having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; among women age 15-49 who had sexual intercourse in the past 12 months with a person who neither was their husband nor lived with them, percentage who used a condom during last sexual intercourse with such a partner; and among women who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to background characteristics, Zambia DHS 2018

| Background characteristic  | All women  |  | Women who had 2+ partners in the past 12 months |   | Women who had intercourse in the past 12 months with a person who neither was their husband nor lived with them |   | Women who ever had sexual intercourse <sup>1</sup> |  |
|----------------------------|--|--|---|---|---|---|--|--|
|                            | Percentage who had 2+ partners in the past 12 months | Percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them | Number of women                                 | Percentage who reported using a condom during last sexual intercourse | Number of women   | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of women                                    | Mean number of sexual partners in lifetime |
|                            |  |  |   |   |   |   |  | Number of women                            |
| <b>Age</b>                 |  |  |   |   |   |   |  |  |
| 15-24                      | 1.7  | 26.5   | 5,733   | 39.4  | 95  | 33.7  | 1,520  | 1.9  |
| 15-19                      | 0.9  | 26.2   | 3,000   | (36.0)  | 28  | 29.6  | 786  | 1.6  |
| 20-24                      | 2.4  | 26.8   | 2,733   | 40.9  | 67  | 38.1  | 733  | 2.1  |
| 25-29                      | 1.6  | 19.0   | 2,237   | (39.2)  | 35  | 36.2  | 425  | 2.3  |
| 30-39                      | 1.7  | 13.1   | 3,559   | 36.5  | 59  | 34.3  | 466  | 2.6  |
| 40-49                      | 0.8  | 9.8  | 2,153   | *   | 17  | 37.5  | 211  | 2.5  |
| <b>Marital status</b>      |  |  |   |   |   |   |  |  |
| Never married              | 2.3  | 41.6   | 4,272   | 42.0  | 98  | 35.4  | 1,778  | 2.1  |
| Married/living together    | 0.7  | 1.4  | 7,648   | (20.2)  | 53  | 22.8  | 103  | 2.2  |
| Divorced/separated/widowed | 3.1  | 42.0   | 1,762   | 49.2  | 54  | 33.9  | 740  | 2.9  |
| <b>Residence</b>           |  |  |   |   |   |   |  |  |
| Urban                      | 1.9  | 22.1   | 6,374   | 46.4  | 118   | 41.0  | 1,410  | 2.3  |
| Rural                      | 1.2  | 16.6   | 7,309   | 27.2  | 88  | 27.0  | 1,212  | 2.3  |
| <b>Province</b>            |  |  |   |   |   |   |  |  |
| Central                    | 1.3  | 17.1   | 1,165   | *   | 15  | 27.4  | 199  | 2.5  |
| Copperbelt                 | 1.7  | 19.3   | 2,201   | (32.2)  | 38  | 38.3  | 425  | 2.2  |
| Eastern                    | 1.7  | 17.7   | 1,605   | (34.1)  | 28  | 40.4  | 284  | 2.1  |
| Luapula                    | 0.9  | 15.7   | 1,071   | *   | 10  | 29.2  | 169  | 2.1  |
| Lusaka                     | 1.8  | 21.2   | 2,733   | (56.0)  | 48  | 47.2  | 581  | 2.2  |
| Muchinga                   | 1.6  | 9.9  | 754   | *   | 12  | 26.7  | 74   | 2.0  |
| Northern                   | 1.5  | 9.6  | 1,054   | *   | 16  | 34.8  | 101  | 2.0  |
| North Western              | 1.1  | 26.0   | 718   | *   | 8   | 27.4  | 187  | 2.8  |
| Southern                   | 0.9  | 20.7   | 1,574   | *   | 14  | 22.8  | 325  | 2.5  |
| Western                    | 2.1  | 34.2   | 808   | *   | 17  | 25.0  | 276  | 2.8  |
| <b>Education</b>           |  |  |   |   |   |   |  |  |
| No education               | 1.3  | 11.3   | 1,054   | *   | 14  | 20.3  | 119  | 2.1  |
| Primary                    | 1.4  | 14.9   | 6,059   | 30.8  | 85  | 28.7  | 902  | 2.3  |
| Secondary                  | 1.6  | 24.3   | 5,816   | 45.8  | 93  | 37.2  | 1,414  | 2.3  |
| Higher                     | 1.9  | 24.8   | 755   | *   | 14  | 51.7  | 187  | 689  |
| <b>Wealth quintile</b>     |  |  |   |   |   |   |  |  |
| Lowest                     | 1.7  | 15.7   | 2,442   | (30.3)  | 42  | 21.9  | 384  | 2.2  |
| Second                     | 1.5  | 16.7   | 2,387   | (20.7)  | 36  | 24.9  | 400  | 2.4  |
| Middle                     | 1.1  | 19.7   | 2,477   | (42.1)  | 26  | 31.6  | 488  | 2.5  |
| Fourth                     | 1.5  | 20.7   | 3,011   | (41.6)  | 46  | 38.3  | 624  | 2.2  |
| Highest                    | 1.6  | 21.6   | 3,367   | (50.8)  | 56  | 45.2  | 726  | 2.3  |
| Total                      | 1.5  | 19.2   | 13,683  | 38.2  | 206   | 34.5  | 2,622  | 2.3  |
|                            |  |  |   |   |   |   |  | 11,854                                     |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Means are calculated excluding respondents who gave non-numeric responses.

**Table 13.5.2 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Men**

Among all men age 15-49, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them; among men having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; among men age 15-49 who had sexual intercourse in the past 12 months with a person who neither was their wife nor lived with them, percentage who used a condom during last sexual intercourse with such a partner; and among men who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to background characteristics, Zambia DHS 2018

| Background characteristic  | All men  |   | Men who had 2+ partners in the past 12 months |   | Men who had intercourse in the past 12 months with a person who neither was their wife nor lived with them |   | Men who ever had sexual intercourse <sup>1</sup> |  |
|----------------------------|--|---|---|---|--|---|--|--|
|                            | Percentage who had 2+ partners in the past 12 months | Percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them | Number of men                                 | Percentage who reported using a condom during last sexual intercourse | Number of men  | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of men                                    | Mean number of sexual partners in lifetime |
|                            |  |   |   |   |  |   |  |  |
| <b>Age</b>                 |  |   |   |   |  |   |  |  |
| 15-24                      | 10.6   | 41.7  | 4,813   | 40.6  | 508  | 49.1  | 2,007  | 4.5  |
| 15-19                      | 5.9  | 31.9  | 2,781   | 41.0  | 165  | 45.6  | 887  | 3.4  |
| 20-24                      | 16.9   | 55.1  | 2,032   | 40.3  | 343  | 51.9  | 1,119  | 5.4  |
| 25-29                      | 21.5   | 39.8  | 1,721   | 34.0  | 370  | 62.8  | 686  | 6.6  |
| 30-39                      | 18.9   | 24.8  | 2,663   | 19.3  | 504  | 60.9  | 661  | 7.4  |
| 40-49                      | 16.9   | 16.6  | 1,981   | 14.2  | 334  | 46.6  | 328  | 8.1  |
| <b>Marital status</b>      |  |   |   |   |  |   |  |  |
| Never married              | 10.3   | 47.6  | 5,142   | 50.1  | 532  | 50.9  | 2,450  | 4.8  |
| Married/living together    | 20.0   | 16.8  | 5,572   | 15.9  | 1,116  | 62.2  | 939  | 7.0  |
| Divorced/separated/widowed | 14.6   | 63.3  | 463   | 47.9  | 68   | 48.1  | 293  | 11.3                                       |
| <b>Type of union</b>       |  |   |   |   |  |   |  |  |
| In polygynous union        | 87.6   | 15.4  | 272   | 11.7  | 238  | (46.2)  | 42   | 11.6                                       |
| In non-polygynous union    | 16.6   | 16.9  | 5,300   | 17.1  | 878  | 63.0  | 897  | 6.8  |
| Not currently in union     | 10.7   | 48.9  | 5,605   | 49.8  | 600  | 50.6  | 2,743  | 5.6  |
| <b>Residence</b>           |  |   |   |   |  |   |  |  |
| Urban                      | 11.8   | 32.1  | 5,013   | 36.0  | 591  | 57.3  | 1,609  | 6.6  |
| Rural                      | 18.3   | 33.6  | 6,165   | 23.5  | 1,125  | 50.6  | 2,073  | 6.4  |
| <b>Province</b>            |  |   |   |   |  |   |  |  |
| Central                    | 12.2   | 31.2  | 979   | 22.7  | 119  | 50.5  | 306  | 6.3  |
| Copperbelt                 | 6.2  | 25.7  | 1,727   | 27.6  | 107  | 51.4  | 444  | 5.5  |
| Eastern                    | 24.6   | 40.6  | 1,476   | 26.7  | 363  | 60.0  | 600  | 5.8  |
| Luapula                    | 9.0  | 27.3  | 849   | 24.9  | 76   | 45.4  | 231  | 7.0  |
| Lusaka                     | 14.3   | 31.9  | 2,166   | 36.3  | 310  | 58.1  | 690  | 6.3  |
| Muchinga                   | 10.8   | 20.8  | 599   | 18.1  | 64   | 50.4  | 125  | 5.9  |
| Northern                   | 11.1   | 21.2  | 855   | 23.3  | 95   | 48.5  | 181  | 5.9  |
| North Western              | 17.5   | 40.6  | 556   | 27.5  | 97   | 51.6  | 226  | 7.5  |
| Southern                   | 25.4   | 43.6  | 1,395   | 27.1  | 354  | 53.4  | 609  | 8.0  |
| Western                    | 22.5   | 47.1  | 574   | 27.2  | 129  | 48.2  | 270  | 7.2  |
| <b>Education</b>           |  |   |   |   |  |   |  |  |
| No education               | 12.8   | 24.2  | 446   | 18.2  | 57   | 36.5  | 108  | 6.0  |
| Primary                    | 15.7   | 29.4  | 4,206   | 21.5  | 661  | 41.9  | 1,235  | 6.5  |
| Secondary                  | 15.4   | 36.1  | 5,618   | 32.4  | 867  | 59.8  | 2,031  | 6.4  |
| Higher                     | 14.4   | 33.9  | 907   | 33.1  | 130  | 65.4  | 308  | 6.8  |
| <b>Wealth quintile</b>     |  |   |   |   |  |   |  |  |
| Lowest                     | 15.3   | 28.2  | 1,827   | 19.3  | 279  | 43.5  | 515  | 6.3  |
| Second                     | 19.7   | 33.8  | 1,952   | 25.0  | 385  | 50.2  | 660  | 6.3  |
| Middle                     | 18.0   | 34.5  | 2,218   | 22.4  | 398  | 51.6  | 764  | 6.3  |
| Fourth                     | 13.8   | 34.6  | 2,552   | 31.8  | 352  | 57.0  | 883  | 7.1  |
| Highest                    | 11.5   | 32.7  | 2,629   | 41.5  | 301  | 60.2  | 860  | 6.2  |
| Total 15-49                | 15.3   | 32.9  | 11,177  | 27.8  | 1,716  | 53.5  | 3,682  | 6.5  |
| 50-59                      | 12.5   | 11.0  | 955   | 8.7   | 120  | 36.0  | 105  | 8.7  |
| Total 15-59                | 15.1   | 31.2  | 12,132  | 26.5  | 1,835  | 53.1  | 3,787  | 6.7  |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Means are calculated excluding respondents who gave non-numeric responses.

**Table 13.6 Payment for sexual intercourse and condom use at last paid sexual intercourse**

Percentage of men age 15-49 who ever paid for sexual intercourse and percentage reporting payment for sexual intercourse in the past 12 months, and among them, percentage reporting that a condom was used the last time they paid for sexual intercourse, according to age, Zambia DHS 2018

| Age         | Among all men:   |   |                  | Among men who paid for sex in the past 12 months:                              |                  |
|-------------|--|---|------------------|--|------------------|
|             | Percentage<br>who ever paid<br>for sexual<br>intercourse | Percentage<br>who paid for<br>sexual<br>intercourse in<br>the past<br>12 months | Number of<br>men | Percentage<br>reporting<br>condom use at<br>last paid<br>sexual<br>intercourse | Number of<br>men |
| 15-24       | 9.9  | 6.0   | 4,813            | 46.9   | 290              |
| 15-19       | 6.6  | 4.7   | 2,781            | 45.4   | 131              |
| 20-24       | 14.3   | 7.8   | 2,032            | 48.1   | 159              |
| 25-29       | 18.8   | 6.8   | 1,721            | 70.1   | 117              |
| 30-39       | 19.8   | 6.0   | 2,663            | 58.8   | 160              |
| 40-49       | 17.3   | 4.8   | 1,981            | 58.2   | 95               |
| Total 15-49 | 14.9   | 5.9   | 11,177           | 55.5   | 662              |
| 50-59       | 13.0   | 1.5   | 955              | *  | 14               |
| Total 15-59 | 14.8   | 5.6   | 12,132           | 55.5   | 677              |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

**Table 13.7.1 Coverage of prior HIV testing: Women**

Percentage of women age 15-49 who know where to get an HIV test, percent distribution of women by testing status and by whether they received the results of the last test, percentage of women ever tested, and percentage of women who were tested in the past 12 months and received the results of the last test, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Percentage who know where to get an HIV test | Percent distribution of women by testing status and by whether they received the results of the last test |                                      |                           | Total | Percentage ever tested | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of women |
|----------------------------|--|---|--------------------------------------|---------------------------|-------|------------------------|---|-----------------|
|                            |  | Ever tested and received results  | Ever tested, did not receive results | Never tested <sup>1</sup> |       |                        |   |                 |
| <b>Age</b>                 |  |   |                                      |                           |       |                        |   |                 |
| 15-24                      | 93.2   | 74.3  | 1.7                                  | 24.0                      | 100.0 | 76.0                   | 59.3  | 5,733           |
| 15-19                      | 89.3   | 59.1  | 1.8                                  | 39.1                      | 100.0 | 60.9                   | 47.4  | 3,000           |
| 20-24                      | 97.4   | 91.0  | 1.7                                  | 7.3                       | 100.0 | 92.7                   | 72.4  | 2,733           |
| 25-29                      | 97.7   | 93.4  | 1.6                                  | 5.0                       | 100.0 | 95.0                   | 72.0  | 2,237           |
| 30-39                      | 98.5   | 94.5  | 1.5                                  | 3.9                       | 100.0 | 96.1                   | 70.3  | 3,559           |
| 40-49                      | 97.7   | 90.1  | 1.9                                  | 7.9                       | 100.0 | 92.1                   | 58.1  | 2,153           |
| <b>Marital status</b>      |  |   |                                      |                           |       |                        |   |                 |
| Never married              | 92.6   | 68.3  | 1.4                                  | 30.3                      | 100.0 | 69.7                   | 52.8  | 4,272           |
| Ever had sex               | 96.5   | 85.3  | 1.4                                  | 13.3                      | 100.0 | 86.7                   | 67.5  | 2,477           |
| Never had sex              | 87.4   | 44.9  | 1.4                                  | 53.7                      | 100.0 | 46.3                   | 32.5  | 1,796           |
| Married/living together    | 97.5   | 93.0  | 1.8                                  | 5.2                       | 100.0 | 94.8                   | 70.3  | 7,648           |
| Divorced/separated/widowed | 97.6   | 92.2  | 1.7                                  | 6.1                       | 100.0 | 93.9                   | 64.3  | 1,762           |
| <b>Residence</b>           |  |   |                                      |                           |       |                        |   |                 |
| Urban                      | 97.8   | 87.9  | 1.3                                  | 10.8                      | 100.0 | 89.2                   | 67.0  | 6,374           |
| Rural                      | 94.4   | 82.8  | 2.0                                  | 15.1                      | 100.0 | 84.9                   | 61.5  | 7,309           |
| <b>Province</b>            |  |   |                                      |                           |       |                        |   |                 |
| Central                    | 97.8   | 84.0  | 2.4                                  | 13.6                      | 100.0 | 86.4                   | 65.4  | 1,165           |
| Copperbelt                 | 98.5   | 86.5  | 1.0                                  | 12.5                      | 100.0 | 87.5                   | 62.5  | 2,201           |
| Eastern                    | 92.1   | 84.8  | 1.7                                  | 13.4                      | 100.0 | 86.6                   | 63.3  | 1,605           |
| Luapula                    | 90.4   | 76.0  | 2.8                                  | 21.2                      | 100.0 | 78.8                   | 53.8  | 1,071           |
| Lusaka                     | 97.7   | 88.3  | 1.6                                  | 10.1                      | 100.0 | 89.9                   | 68.8  | 2,733           |
| Muchinga                   | 96.5   | 77.1  | 3.0                                  | 19.9                      | 100.0 | 80.1                   | 47.4  | 754             |
| Northern                   | 92.4   | 78.8  | 1.7                                  | 19.5                      | 100.0 | 80.5                   | 53.7  | 1,054           |
| North Western              | 96.2   | 83.7  | 1.9                                  | 14.3                      | 100.0 | 85.7                   | 59.3  | 718             |
| Southern                   | 98.1   | 92.2  | 1.1                                  | 6.7                       | 100.0 | 93.3                   | 76.8  | 1,574           |
| Western                    | 96.1   | 89.0  | 1.0                                  | 10.0                      | 100.0 | 90.0                   | 73.8  | 808             |
| <b>Education</b>           |  |   |                                      |                           |       |                        |   |                 |
| No education               | 90.3   | 78.4  | 2.0                                  | 19.6                      | 100.0 | 80.4                   | 56.0  | 1,054           |
| Primary                    | 94.4   | 83.6  | 2.0                                  | 14.4                      | 100.0 | 85.6                   | 60.4  | 6,059           |
| Secondary                  | 98.2   | 86.8  | 1.4                                  | 11.8                      | 100.0 | 88.2                   | 68.5  | 5,816           |
| Higher                     | 100.0  | 94.9  | 0.7                                  | 4.5                       | 100.0 | 95.5                   | 70.7  | 755             |
| <b>Wealth quintile</b>     |  |   |                                      |                           |       |                        |   |                 |
| Lowest                     | 93.0   | 80.4  | 2.1                                  | 17.5                      | 100.0 | 82.5                   | 56.9  | 2,442           |
| Second                     | 94.1   | 82.7  | 2.4                                  | 15.0                      | 100.0 | 85.0                   | 62.1  | 2,387           |
| Middle                     | 95.9   | 85.7  | 1.7                                  | 12.6                      | 100.0 | 87.4                   | 66.3  | 2,477           |
| Fourth                     | 97.7   | 89.7  | 1.4                                  | 8.9                       | 100.0 | 91.1                   | 69.8  | 3,011           |
| Highest                    | 98.1   | 86.0  | 1.1                                  | 12.8                      | 100.0 | 87.2                   | 63.9  | 3,367           |
| Total                      | 96.0   | 85.2  | 1.7                                  | 13.1                      | 100.0 | 86.9                   | 64.1  | 13,683          |

<sup>1</sup> Includes “don’t know/missing”

**Table 13.7.2 Coverage of prior HIV testing: Men**

Percentage of men age 15-49 who know where to get an HIV test, percent distribution of men by testing status and by whether they received the results of the last test, percentage of men ever tested, and percentage of men age 15-49 who were tested in the past 12 months and received the results of the last test, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Percentage who know where to get an HIV test | Percent distribution of men by testing status and by whether they received the results of the last test |                                      |                           | Total | Percentage ever tested | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of men |
|----------------------------|--|---|--------------------------------------|---------------------------|-------|------------------------|---|---------------|
|                            |  | Ever tested and received results  | Ever tested, did not receive results | Never tested <sup>1</sup> |       |                        |   |               |
| <b>Age</b>                 |  |   |                                      |                           |       |                        |   |               |
| 15-24                      | 92.1   | 59.2  | 2.3                                  | 38.5                      | 100.0 | 61.5                   | 43.1  | 4,813         |
| 15-19                      | 88.9   | 46.0  | 2.5                                  | 51.5                      | 100.0 | 48.5                   | 31.8  | 2,781         |
| 20-24                      | 96.5   | 77.3  | 2.0                                  | 20.7                      | 100.0 | 79.3                   | 58.6  | 2,032         |
| 25-29                      | 98.6   | 86.9  | 2.6                                  | 10.5                      | 100.0 | 89.5                   | 64.7  | 1,721         |
| 30-39                      | 98.9   | 88.5  | 1.4                                  | 10.1                      | 100.0 | 89.9                   | 59.3  | 2,663         |
| 40-49                      | 99.2   | 87.3  | 2.5                                  | 10.1                      | 100.0 | 89.9                   | 54.9  | 1,981         |
| <b>Marital status</b>      |  |   |                                      |                           |       |                        |   |               |
| Never married              | 92.4   | 59.6  | 2.6                                  | 37.8                      | 100.0 | 62.2                   | 43.2  | 5,142         |
| Ever had sex               | 95.7   | 68.7  | 2.7                                  | 28.6                      | 100.0 | 71.4                   | 50.8  | 3,303         |
| Never had sex              | 86.5   | 43.3  | 2.4                                  | 54.3                      | 100.0 | 45.7                   | 29.5  | 1,839         |
| Married/living together    | 99.1   | 89.4  | 1.7                                  | 8.8                       | 100.0 | 91.2                   | 60.7  | 5,572         |
| Divorced/separated/widowed | 98.3   | 82.5  | 2.8                                  | 14.6                      | 100.0 | 85.4                   | 54.0  | 463           |
| <b>Residence</b>           |  |   |                                      |                           |       |                        |   |               |
| Urban                      | 97.0   | 78.7  | 2.1                                  | 19.2                      | 100.0 | 80.8                   | 55.8  | 5,013         |
| Rural                      | 95.1   | 72.8  | 2.2                                  | 25.0                      | 100.0 | 75.0                   | 49.6  | 6,165         |
| <b>Province</b>            |  |   |                                      |                           |       |                        |   |               |
| Central                    | 97.3   | 75.5  | 2.5                                  | 22.0                      | 100.0 | 78.0                   | 53.4  | 979           |
| Copperbelt                 | 95.4   | 73.1  | 1.5                                  | 25.4                      | 100.0 | 74.6                   | 54.3  | 1,727         |
| Eastern                    | 94.7   | 77.4  | 1.5                                  | 21.1                      | 100.0 | 78.9                   | 53.7  | 1,476         |
| Luapula                    | 94.7   | 66.2  | 3.2                                  | 30.6                      | 100.0 | 69.4                   | 41.7  | 849           |
| Lusaka                     | 96.9   | 79.3  | 2.4                                  | 18.3                      | 100.0 | 81.7                   | 54.2  | 2,166         |
| Muchinga                   | 93.4   | 63.6  | 2.4                                  | 33.9                      | 100.0 | 66.1                   | 38.0  | 599           |
| Northern                   | 95.7   | 74.0  | 2.0                                  | 24.0                      | 100.0 | 76.0                   | 43.4  | 855           |
| North Western              | 94.7   | 69.9  | 3.0                                  | 27.2                      | 100.0 | 72.8                   | 50.4  | 556           |
| Southern                   | 97.9   | 82.6  | 2.4                                  | 15.0                      | 100.0 | 85.0                   | 60.6  | 1,395         |
| Western                    | 97.2   | 78.5  | 1.8                                  | 19.7                      | 100.0 | 80.3                   | 60.7  | 574           |
| <b>Education</b>           |  |   |                                      |                           |       |                        |   |               |
| No education               | 88.9   | 66.8  | 1.2                                  | 32.0                      | 100.0 | 68.0                   | 45.1  | 446           |
| Primary                    | 93.7   | 66.9  | 2.5                                  | 30.6                      | 100.0 | 69.4                   | 45.2  | 4,206         |
| Secondary                  | 97.8   | 79.8  | 2.2                                  | 18.0                      | 100.0 | 82.0                   | 56.3  | 5,618         |
| Higher                     | 99.2   | 92.4  | 0.7                                  | 6.9                       | 100.0 | 93.1                   | 65.1  | 907           |
| <b>Wealth quintile</b>     |  |   |                                      |                           |       |                        |   |               |
| Lowest                     | 94.2   | 70.4  | 2.0                                  | 27.5                      | 100.0 | 72.5                   | 43.6  | 1,827         |
| Second                     | 95.0   | 70.8  | 2.7                                  | 26.4                      | 100.0 | 73.6                   | 50.1  | 1,952         |
| Middle                     | 95.9   | 77.0  | 2.0                                  | 21.0                      | 100.0 | 79.0                   | 54.2  | 2,218         |
| Fourth                     | 96.8   | 79.0  | 1.6                                  | 19.4                      | 100.0 | 80.6                   | 56.7  | 2,552         |
| Highest                    | 97.2   | 77.5  | 2.5                                  | 20.0                      | 100.0 | 80.0                   | 54.6  | 2,629         |
| Total 15-49                | 96.0   | 75.4  | 2.2                                  | 22.4                      | 100.0 | 77.6                   | 52.4  | 11,177        |
| 50-59                      | 98.0   | 79.3  | 2.4                                  | 18.3                      | 100.0 | 81.7                   | 47.1  | 955           |
| Total 15-59                | 96.1   | 75.7  | 2.2                                  | 22.1                      | 100.0 | 77.9                   | 52.0  | 12,132        |

<sup>1</sup> Includes “don’t know/missing”

**Table 13.8 Pregnant women counselled and tested for HIV**

Among all women age 15-49 who gave birth in the 2 years preceding the survey, percentage who received counselling on HIV during antenatal care, percentage who received an HIV test during antenatal care for their most recent birth by whether they received their results and post-test counselling, and percentage who received an HIV test during ANC or labour for their most recent birth by whether they received their test results, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Percentage who received counselling on HIV during antenatal care <sup>1</sup> | Percentage who were tested for HIV during antenatal care and who: |  |                         | Percentage who received counselling on HIV and an HIV test during ANC, and the results | Percentage who had an HIV test during ANC or labour and who: <sup>2</sup> |                         | Number of women who gave birth in the past 2 years <sup>3</sup> |
|----------------------------|---|---|--|-------------------------|--|---|-------------------------|---|
|                            |   | Received results and received post-test counselling               | Received results and did not receive post-test counselling | Did not receive results |  | Received results  | Did not receive results |   |
| <b>Age</b>                 |   |   |  |                         |  |   |                         |   |
| 15-24                      | 78.8  | 88.6  | 3.6  | 1.3                     | 77.4   | 92.7  | 1.2                     | 1,666   |
| 15-19                      | 71.2  | 84.9  | 4.1  | 1.7                     | 69.0   | 89.8  | 1.5                     | 585   |
| 20-24                      | 82.9  | 90.7  | 3.3  | 1.2                     | 81.9   | 94.3  | 1.0                     | 1,080   |
| 25-29                      | 85.8  | 88.5  | 3.0  | 1.2                     | 83.2   | 92.2  | 1.0                     | 835   |
| 30-39                      | 87.9  | 90.2  | 3.0  | 1.3                     | 86.0   | 93.9  | 1.0                     | 1,177   |
| 40-49                      | 87.6  | 92.5  | 1.6  | 1.6                     | 85.0   | 94.9  | 1.6                     | 227   |
| <b>Marital status</b>      |   |   |  |                         |  |   |                         |   |
| Never married              | 78.6  | 89.2  | 3.7  | 2.2                     | 76.5   | 93.9  | 1.7                     | 582   |
| Married or living together | 84.5  | 89.7  | 3.0  | 1.2                     | 82.6   | 93.2  | 1.0                     | 2,982   |
| Divorced/separated/widowed | 83.9  | 86.3  | 3.6  | 0.8                     | 82.2   | 90.6  | 0.8                     | 341   |
| <b>Residence</b>           |   |   |  |                         |  |   |                         |   |
| Urban                      | 90.4  | 93.3  | 3.6  | 0.7                     | 89.1   | 97.5  | 0.5                     | 1,340   |
| Rural                      | 80.0  | 87.2  | 3.0  | 1.6                     | 77.8   | 90.8  | 1.4                     | 2,564   |
| <b>Province</b>            |   |   |  |                         |  |   |                         |   |
| Central                    | 86.8  | 89.0  | 2.1  | 2.2                     | 82.3   | 92.1  | 2.2                     | 343   |
| Copperbelt                 | 91.0  | 95.9  | 2.0  | 0.9                     | 89.6   | 98.3  | 0.7                     | 473   |
| Eastern                    | 79.5  | 87.7  | 1.3  | 0.5                     | 77.7   | 89.4  | 0.5                     | 569   |
| Luapula                    | 84.3  | 80.3  | 7.1  | 4.4                     | 80.3   | 88.0  | 3.8                     | 375   |
| Lusaka                     | 91.5  | 89.9  | 5.7  | 1.2                     | 89.5   | 96.9  | 0.5                     | 558   |
| Muchinga                   | 77.0  | 81.7  | 6.9  | 1.4                     | 74.8   | 89.0  | 1.7                     | 227   |
| Northern                   | 70.9  | 85.3  | 3.4  | 1.0                     | 69.1   | 89.0  | 1.0                     | 347   |
| North Western              | 87.0  | 93.5  | 1.3  | 0.6                     | 86.6   | 96.6  | 0.0                     | 219   |
| Southern                   | 83.9  | 95.4  | 1.5  | 0.2                     | 83.7   | 97.0  | 0.2                     | 525   |
| Western                    | 76.0  | 89.2  | 1.5  | 1.3                     | 75.0   | 90.7  | 1.3                     | 269   |
| <b>Education</b>           |   |   |  |                         |  |   |                         |   |
| No education               | 69.2  | 76.4  | 2.4  | 1.8                     | 66.8   | 79.7  | 1.3                     | 371   |
| Primary                    | 81.7  | 89.6  | 2.2  | 1.5                     | 79.6   | 92.5  | 1.3                     | 1,970   |
| Secondary                  | 88.8  | 92.3  | 4.0  | 1.1                     | 87.1   | 96.8  | 0.9                     | 1,410   |
| Higher                     | 94.8  | 89.4  | 9.8  | 0.0                     | 93.9   | 99.2  | 0.0                     | 153   |
| <b>Wealth quintile</b>     |   |   |  |                         |  |   |                         |   |
| Lowest                     | 74.6  | 84.3  | 2.9  | 1.5                     | 72.5   | 87.8  | 1.4                     | 1,002   |
| Second                     | 81.2  | 87.6  | 3.5  | 2.3                     | 78.7   | 91.7  | 2.0                     | 873   |
| Middle                     | 83.3  | 90.7  | 2.1  | 1.1                     | 81.5   | 93.4  | 1.0                     | 738   |
| Fourth                     | 90.1  | 93.8  | 3.5  | 0.7                     | 88.9   | 98.2  | 0.3                     | 672   |
| Highest                    | 94.6  | 93.3  | 4.1  | 0.5                     | 93.1   | 97.8  | 0.4                     | 620   |
| Total                      | 83.6  | 89.3  | 3.2  | 1.3                     | 81.7   | 93.1  | 1.1                     | 3,905   |

<sup>1</sup> In this context, "counselling" means that someone talked with the respondent about all three of the following topics: (1) babies getting HIV from their mother, (2) preventing the virus, and (3) getting tested for HIV.

<sup>2</sup> Women were asked whether they received an HIV test during labour only if they gave birth in a health facility.

<sup>3</sup> Denominator for percentages includes women who did not receive antenatal care for their last birth in the past 2 years.

**Table 13.9.1 Disclosure of HIV test results from ANC HIV test: Women**

Among all women age 15-49 who gave birth in the 2 years preceding the survey, were tested for HIV during ANC, and received their results, percentage who disclosed their HIV results to various individuals and percentage who disclosed their results to anyone, by background characteristics, Zambia DHS 2018

| Background characteristic | Percentage disclosing results to: |               |                  |       | Percentage disclosing most recent HIV test results to anyone | Number of women receiving ANC HIV test result |
|---------------------------|-----------------------------------|---------------|------------------|-------|--|---|
|                           | Husband/partner                   | Family member | Religious leader | Other |  |   |
| <b>Age</b>                |                                   |               |                  |       |  |   |
| 15-24                     | 69.8                              | 47.4          | 2.0              | 13.9  | 89.0   | 1,544   |
| 15-19                     | 52.7                              | 50.3          | 1.3              | 14.6  | 82.5   | 526   |
| 20-24                     | 78.6                              | 45.8          | 2.4              | 13.5  | 92.4   | 1,019   |
| 25-29                     | 85.9                              | 36.1          | 2.2              | 11.8  | 93.4   | 770   |
| 30-39                     | 89.5                              | 33.4          | 2.3              | 12.8  | 94.5   | 1,106   |
| 40-49                     | 88.8                              | 36.6          | 3.8              | 11.1  | 93.5   | 216   |
| <b>Marital status</b>     |                                   |               |                  |       |  |   |
| Never married             | 19.8                              | 63.7          | 1.0              | 19.5  | 72.1   | 547   |
| Ever married              | 91.0                              | 35.9          | 2.5              | 11.8  | 95.4   | 3,089   |
| <b>Residence</b>          |                                   |               |                  |       |  |   |
| Urban                     | 77.6                              | 42.1          | 2.4              | 14.1  | 91.5   | 1,307   |
| Rural                     | 81.8                              | 38.9          | 2.2              | 12.3  | 92.1   | 2,328   |
| <b>Province</b>           |                                   |               |                  |       |  |   |
| Central                   | 76.0                              | 36.4          | 2.5              | 12.1  | 90.4   | 316   |
| Copperbelt                | 73.7                              | 42.1          | 2.0              | 10.0  | 90.0   | 465   |
| Eastern                   | 86.8                              | 47.4          | 2.0              | 20.6  | 95.2   | 509   |
| Luapula                   | 80.8                              | 29.3          | 0.8              | 9.4   | 90.8   | 330   |
| Lusaka                    | 81.4                              | 43.2          | 3.1              | 13.6  | 93.7   | 541   |
| Muchinga                  | 84.9                              | 38.5          | 5.6              | 15.9  | 94.3   | 202   |
| Northern                  | 90.2                              | 46.9          | 3.2              | 12.7  | 96.3   | 309   |
| North Western             | 72.4                              | 23.1          | 0.8              | 2.4   | 85.5   | 211   |
| Southern                  | 81.9                              | 28.9          | 1.2              | 11.9  | 90.7   | 509   |
| Western                   | 69.1                              | 64.4          | 2.4              | 16.5  | 88.3   | 244   |
| <b>Education</b>          |                                   |               |                  |       |  |   |
| No education              | 85.2                              | 37.4          | 2.3              | 9.9   | 91.5   | 296   |
| Primary                   | 82.9                              | 39.4          | 2.2              | 12.7  | 92.9   | 1,822   |
| Secondary                 | 74.6                              | 41.9          | 2.4              | 13.2  | 90.1   | 1,365   |
| Higher                    | 90.5                              | 36.7          | 1.2              | 20.2  | 95.7   | 152   |
| Total                     | 80.3                              | 40.1          | 2.3              | 13.0  | 91.9   | 3,636   |

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**Table 13.9.2 Disclosure of HIV test results from most recent test: Men**

Among all men age 15-49 who have heard of HIV or AIDS and have ever been tested for HIV and received their results, percentage who disclosed their HIV results to various individuals and percentage who disclosed their results to anyone, by background characteristics, Zambia DHS 2018

| Background characteristic              | Percentage disclosing results to: |               |                  |       | Percentage disclosing most recent HIV test results to anyone | Number of men receiving HIV test result |
|--|-----------------------------------|---------------|------------------|-------|--|---|
|  | Wife/partner                      | Family member | Religious leader | Other |  |   |
| <b>Age</b>                             |                                   |               |                  |       |  |   |
| 15-24                                  | 16.5                              | 52.6          | 3.2              | 45.3  | 78.8   | 2,850                                   |
| 15-19                                  | 3.5                               | 59.9          | 2.8              | 44.6  | 77.0   | 1,279                                   |
| 20-24                                  | 27.0                              | 46.6          | 3.5              | 45.8  | 80.3   | 1,571                                   |
| 25-29                                  | 63.6                              | 31.6          | 2.9              | 34.0  | 88.0   | 1,495                                   |
| 30-39                                  | 81.7                              | 29.0          | 4.5              | 30.4  | 92.8   | 2,356                                   |
| 40-49                                  | 86.8                              | 31.7          | 7.1              | 26.5  | 94.1   | 1,730                                   |
| <b>Marital status</b>                  |                                   |               |                  |       |  |   |
| Never married                          | 3.6                               | 53.8          | 2.8              | 50.1  | 75.5   | 3,065                                   |
| Ever married                           | 88.2                              | 28.9          | 5.1              | 26.8  | 94.3   | 5,366                                   |
| <b>Knows condom source<sup>1</sup></b> |                                   |               |                  |       |  |   |
| Yes                                    | 43.0                              | 44.9          | 4.5              | 43.1  | 84.0   | 1,114                                   |
| No                                     | 62.3                              | 36.3          | 4.6              | 32.9  | 88.4   | 8,074                                   |
| <b>Residence</b>                       |                                   |               |                  |       |  |   |
| Urban                                  | 49.3                              | 42.4          | 4.1              | 42.9  | 86.4   | 3,945                                   |
| Rural                                  | 64.7                              | 34.1          | 4.4              | 28.5  | 88.4   | 4,485                                   |
| <b>Province</b>                        |                                   |               |                  |       |  |   |
| Central                                | 54.9                              | 48.4          | 3.8              | 32.4  | 92.1   | 740                                     |
| Copperbelt                             | 47.9                              | 45.3          | 6.0              | 40.1  | 88.9   | 1,262                                   |
| Eastern                                | 69.6                              | 35.5          | 9.4              | 33.4  | 89.7   | 1,143                                   |
| Luapula                                | 61.2                              | 40.4          | 3.6              | 25.8  | 90.2   | 562                                     |
| Lusaka                                 | 54.5                              | 45.7          | 3.5              | 51.1  | 87.7   | 1,718                                   |
| Muchinga                               | 65.0                              | 28.2          | 1.6              | 21.5  | 83.4   | 381                                     |
| Northern                               | 62.6                              | 23.1          | 2.9              | 19.6  | 83.4   | 633                                     |
| North Western                          | 57.8                              | 23.3          | 3.6              | 27.4  | 78.8   | 388                                     |
| Southern                               | 56.8                              | 28.0          | 0.7              | 29.9  | 84.8   | 1,153                                   |
| Western                                | 52.1                              | 40.9          | 5.0              | 36.6  | 89.9   | 451                                     |
| <b>Education</b>                       |                                   |               |                  |       |  |   |
| No education                           | 73.6                              | 35.3          | 9.8              | 31.0  | 92.3   | 298                                     |
| Primary                                | 66.1                              | 34.8          | 4.5              | 26.7  | 88.4   | 2,813                                   |
| Secondary                              | 50.6                              | 41.4          | 4.0              | 39.6  | 86.4   | 4,482                                   |
| Higher                                 | 59.3                              | 31.4          | 3.1              | 42.2  | 88.6   | 838                                     |
| Total 15-49                            | 57.5                              | 38.0          | 4.3              | 35.2  | 87.5   | 8,431                                   |
| 50-59                                  | 87.4                              | 30.3          | 8.1              | 21.9  | 91.7   | 757                                     |
| Total 15-59                            | 59.9                              | 37.3          | 4.6              | 34.1  | 87.8   | 9,188                                   |

<sup>1</sup> For this table, the following responses are not considered a source for condoms: friends, family members, and home.

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**Table 13.10 Knowledge and coverage of self-testing for HIV**

Percentage of women and men age 15-49 who have ever heard of HIV self-test kits, and percentage who have ever used an HIV self-test kit, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women                            |                                |                 | Men                              |                                |               |
|---------------------------|----------------------------------|--------------------------------|-----------------|----------------------------------|--------------------------------|---------------|
|                           | Ever heard of HIV self-test kits | Ever used an HIV self-test kit | Number of women | Ever heard of HIV self-test kits | Ever used an HIV self-test kit | Number of men |
| <b>Age</b>                |                                  |                                |                 |                                  |                                |               |
| 15-24                     | 14.1                             | 2.5                            | 5,733           | 19.4                             | 2.4                            | 4,813         |
| 15-19                     | 11.0                             | 1.8                            | 3,000           | 14.7                             | 1.5                            | 2,781         |
| 20-24                     | 17.6                             | 3.4                            | 2,733           | 25.9                             | 3.8                            | 2,032         |
| 25-29                     | 19.4                             | 3.5                            | 2,237           | 28.9                             | 4.3                            | 1,721         |
| 30-39                     | 18.4                             | 3.2                            | 3,559           | 30.1                             | 2.6                            | 2,663         |
| 40-49                     | 15.6                             | 2.5                            | 2,153           | 29.1                             | 2.9                            | 1,981         |
| <b>Residence</b>          |                                  |                                |                 |                                  |                                |               |
| Urban                     | 25.8                             | 4.8                            | 6,374           | 37.5                             | 4.7                            | 5,013         |
| Rural                     | 8.1                              | 1.2                            | 7,309           | 15.1                             | 1.4                            | 6,165         |
| <b>Education</b>          |                                  |                                |                 |                                  |                                |               |
| No education              | 5.8                              | 1.3                            | 1,054           | 6.7                              | 0.6                            | 446           |
| Primary                   | 9.3                              | 1.7                            | 6,059           | 13.1                             | 0.9                            | 4,206         |
| Secondary                 | 20.4                             | 3.5                            | 5,816           | 28.8                             | 3.4                            | 5,618         |
| Higher                    | 56.4                             | 9.8                            | 755             | 67.6                             | 9.7                            | 907           |
| <b>Wealth quintile</b>    |                                  |                                |                 |                                  |                                |               |
| Lowest                    | 3.2                              | 0.5                            | 2,442           | 8.9                              | 0.8                            | 1,827         |
| Second                    | 6.2                              | 1.1                            | 2,387           | 13.5                             | 0.8                            | 1,952         |
| Middle                    | 10.3                             | 1.4                            | 2,477           | 17.0                             | 1.6                            | 2,218         |
| Fourth                    | 21.8                             | 3.6                            | 3,011           | 28.1                             | 3.7                            | 2,552         |
| Highest                   | 32.7                             | 6.2                            | 3,367           | 49.0                             | 6.0                            | 2,629         |
| Total 15-49               | 16.3                             | 2.9                            | 13,683          | 25.1                             | 2.9                            | 11,177        |
| 50-59                     | na                               | na                             | na              | 23.2                             | 1.6                            | 955           |
| Total 15-59               | na                               | na                             | na              | 25.0                             | 2.8                            | 12,132        |

na = Not applicable

**Table 13.11 Male circumcision**

Percent distribution of men age 15-49 by circumcision status and provider of circumcision, and percentage of men circumcised, according to background characteristics, Zambia DHS 2018

| Background characteristic | Circumcised by:            |  |                          | Not circumcised | Don't know/missing circumcision status | Total | Percentage of men circumcised <sup>1</sup> | Number of men |
|---------------------------|----------------------------|--|--------------------------|-----------------|--|-------|--|---------------|
|                           | Health worker/professional | Traditional practitioner/family friend | Other/don't know/missing |                 |  |       |  |               |
| <b>Age</b>                |                            |  |                          |                 |  |       |  |               |
| 15-24                     | 32.0                       | 4.9                                    | 0.5                      | 62.5            | 0.1                                    | 100.0 | 37.4                                       | 4,813         |
| 15-19                     | 31.1                       | 4.6                                    | 0.2                      | 64.0            | 0.1                                    | 100.0 | 35.9                                       | 2,781         |
| 20-24                     | 33.4                       | 5.2                                    | 0.8                      | 60.5            | 0.1                                    | 100.0 | 39.4                                       | 2,032         |
| 25-29                     | 24.4                       | 6.8                                    | 0.3                      | 68.4            | 0.1                                    | 100.0 | 31.5                                       | 1,721         |
| 30-39                     | 20.1                       | 7.8                                    | 0.5                      | 71.6            | 0.0                                    | 100.0 | 28.4                                       | 2,663         |
| 40-49                     | 13.6                       | 8.4                                    | 0.7                      | 76.9            | 0.3                                    | 100.0 | 22.8                                       | 1,981         |
| <b>Residence</b>          |                            |  |                          |                 |  |       |  |               |
| Urban                     | 32.0                       | 7.1                                    | 0.7                      | 60.0            | 0.1                                    | 100.0 | 39.9                                       | 5,013         |
| Rural                     | 18.8                       | 6.0                                    | 0.4                      | 74.7            | 0.1                                    | 100.0 | 25.2                                       | 6,165         |
| <b>Province</b>           |                            |  |                          |                 |  |       |  |               |
| Central                   | 20.5                       | 2.2                                    | 0.3                      | 76.9            | 0.1                                    | 100.0 | 23.0                                       | 979           |
| Copperbelt                | 34.4                       | 6.9                                    | 1.0                      | 57.7            | 0.0                                    | 100.0 | 42.3                                       | 1,727         |
| Eastern                   | 13.7                       | 1.4                                    | 0.7                      | 84.1            | 0.1                                    | 100.0 | 15.8                                       | 1,476         |
| Luapula                   | 35.4                       | 2.4                                    | 0.1                      | 62.1            | 0.0                                    | 100.0 | 37.9                                       | 849           |
| Lusaka                    | 24.0                       | 5.4                                    | 0.7                      | 69.7            | 0.2                                    | 100.0 | 30.1                                       | 2,166         |
| Muchinga                  | 14.4                       | 0.9                                    | 0.4                      | 83.9            | 0.3                                    | 100.0 | 15.8                                       | 599           |
| Northern                  | 12.6                       | 0.9                                    | 0.1                      | 86.4            | 0.0                                    | 100.0 | 13.6                                       | 855           |
| North Western             | 34.1                       | 43.3                                   | 0.8                      | 21.8            | 0.0                                    | 100.0 | 78.2                                       | 556           |
| Southern                  | 22.5                       | 5.1                                    | 0.1                      | 72.3            | 0.0                                    | 100.0 | 27.7                                       | 1,395         |
| Western                   | 43.9                       | 18.1                                   | 0.2                      | 37.7            | 0.2                                    | 100.0 | 62.2                                       | 574           |
| <b>Religion</b>           |                            |  |                          |                 |  |       |  |               |
| Catholic                  | 22.5                       | 4.2                                    | 0.4                      | 72.8            | 0.0                                    | 100.0 | 27.2                                       | 2,089         |
| Protestant                | 25.4                       | 6.9                                    | 0.5                      | 67.0            | 0.1                                    | 100.0 | 32.9                                       | 8,917         |
| Muslim                    | 25.9                       | 19.7                                   | 6.7                      | 47.7            | 0.0                                    | 100.0 | 52.3                                       | 48            |
| Other                     | 13.1                       | 8.3                                    | 0.0                      | 78.7            | 0.0                                    | 100.0 | 21.3                                       | 123           |
| Total 15-49               | 24.8                       | 6.5                                    | 0.5                      | 68.1            | 0.1                                    | 100.0 | 31.8                                       | 11,177        |
| 50-59                     | 9.4                        | 10.5                                   | 0.5                      | 79.6            | 0.1                                    | 100.0 | 20.3                                       | 955           |
| Total 15-59               | 23.5                       | 6.8                                    | 0.5                      | 69.0            | 0.1                                    | 100.0 | 30.9                                       | 12,132        |

<sup>1</sup> Includes all men who report they are circumcised, regardless of provider

**Table 13.12 Self-reported prevalence of sexually transmitted infections (STIs) and STI symptoms**

Among women and men age 15-49 who ever had sexual intercourse, percentage reporting having an STI and/or symptoms of an STI in the past 12 months, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Percentage of women who reported having in the past 12 months: |   |                       |                                     | Percentage of men who reported having in the past 12 months: |     |  |                       |   |   |
|----------------------------|--|---|-----------------------|-------------------------------------|--|-----|--|-----------------------|---|---|
|                            | STI  | Bad-smelling/abnormal genital discharge | Genital sore or ulcer | STI/genital discharge/sore or ulcer | Number of women who ever had sexual intercourse              | STI | Bad-smelling/abnormal discharge from penis | Genital sore or ulcer | STI/abnormal discharge from penis/sore or ulcer | Number of men who ever had sexual intercourse |
| <b>Age</b>                 |  |   |                       |                                     |  |     |  |                       |   |   |
| 15-24                      | 1.5  | 2.3                                     | 2.4                   | 4.5                                 | 4,005  | 4.7 | 3.6  | 3.8                   | 7.5   | 3,042   |
| 15-19                      | 0.5  | 1.7                                     | 2.2                   | 3.6                                 | 1,490  | 2.7 | 1.8  | 2.1                   | 4.8   | 1,259   |
| 20-24                      | 2.0  | 2.6                                     | 2.5                   | 5.0                                 | 2,514  | 6.2 | 4.8  | 4.9                   | 9.4   | 1,782   |
| 25-29                      | 2.7  | 2.8                                     | 2.7                   | 5.5                                 | 2,191  | 7.4 | 4.8  | 5.4                   | 10.0  | 1,675   |
| 30-39                      | 2.5  | 3.0                                     | 3.0                   | 6.1                                 | 3,543  | 4.3 | 3.5  | 4.1                   | 6.9   | 2,646   |
| 40-49                      | 1.3  | 2.3                                     | 2.3                   | 4.5                                 | 2,148  | 3.6 | 1.7  | 3.4                   | 6.7   | 1,975   |
| <b>Marital status</b>      |  |   |                       |                                     |  |     |  |                       |   |   |
| Never married              | 1.4  | 2.1                                     | 2.2                   | 4.0                                 | 2,477  | 5.2 | 3.9  | 3.6                   | 7.7   | 3,303   |
| Married/living together    | 2.0  | 2.7                                     | 2.5                   | 5.2                                 | 7,648  | 4.2 | 2.9  | 4.1                   | 7.0   | 5,572   |
| Divorced/separated/widowed | 2.5  | 2.9                                     | 3.8                   | 6.5                                 | 1,762  | 9.4 | 6.1  | 7.6                   | 14.7  | 463   |
| <b>Circumcised</b>         |  |   |                       |                                     |  |     |  |                       |   |   |
| Yes <sup>1</sup>           | na   | na                                      | na                    | na                                  | na   | 5.2 | 3.9  | 3.6                   | 8.1   | 2,942   |
| No                         | na   | na                                      | na                    | na                                  | na   | 4.7 | 3.1  | 4.3                   | 7.4   | 6,387   |
| Don't know/missing         | na   | na                                      | na                    | na                                  | na   | *   | *  | *                     | *   | 9   |
| <b>Residence</b>           |  |   |                       |                                     |  |     |  |                       |   |   |
| Urban                      | 2.1  | 2.7                                     | 2.5                   | 5.4                                 | 5,331  | 4.8 | 3.0  | 4.1                   | 7.6   | 4,017   |
| Rural                      | 1.8  | 2.5                                     | 2.7                   | 5.0                                 | 6,556  | 4.9 | 3.7  | 4.1                   | 7.6   | 5,321   |
| <b>Province</b>            |  |   |                       |                                     |  |     |  |                       |   |   |
| Central                    | 0.9  | 1.8                                     | 2.7                   | 4.2                                 | 1,000  | 3.2 | 3.1  | 2.7                   | 6.0   | 803   |
| Copperbelt                 | 1.7  | 3.3                                     | 2.6                   | 5.6                                 | 1,792  | 3.6 | 1.8  | 4.0                   | 6.4   | 1,328   |
| Eastern                    | 2.4  | 3.6                                     | 2.9                   | 6.1                                 | 1,470  | 7.5 | 5.7  | 6.1                   | 11.5  | 1,347   |
| Luapula                    | 2.2  | 4.1                                     | 6.0                   | 8.8                                 | 928  | 4.7 | 3.7  | 3.3                   | 6.6   | 704   |
| Lusaka                     | 2.1  | 1.3                                     | 1.8                   | 4.0                                 | 2,326  | 5.4 | 3.9  | 5.4                   | 9.2   | 1,763   |
| Muchinga                   | 3.1  | 4.2                                     | 3.0                   | 7.2                                 | 640  | 5.7 | 3.3  | 2.5                   | 6.2   | 472   |
| Northern                   | 1.4  | 2.5                                     | 2.8                   | 4.2                                 | 900  | 2.6 | 1.6  | 3.1                   | 4.6   | 700   |
| North Western              | 2.2  | 1.5                                     | 1.3                   | 3.2                                 | 634  | 5.6 | 4.9  | 3.0                   | 8.2   | 490   |
| Southern                   | 2.1  | 2.1                                     | 1.9                   | 4.2                                 | 1,446  | 5.2 | 2.3  | 3.6                   | 6.9   | 1,207   |
| Western                    | 1.8  | 2.8                                     | 2.4                   | 5.5                                 | 750  | 2.7 | 3.2  | 2.9                   | 5.7   | 525   |
| <b>Education</b>           |  |   |                       |                                     |  |     |  |                       |   |   |
| No education               | 2.2  | 2.7                                     | 3.2                   | 5.3                                 | 1,009  | 3.4 | 2.0  | 3.1                   | 5.5   | 394   |
| Primary                    | 1.8  | 2.6                                     | 2.9                   | 5.3                                 | 5,435  | 4.8 | 3.7  | 4.3                   | 8.0   | 3,460   |
| Secondary                  | 2.2  | 2.4                                     | 2.2                   | 5.0                                 | 4,751  | 5.2 | 3.5  | 4.2                   | 7.9   | 4,633   |
| Higher                     | 1.7  | 3.9                                     | 1.7                   | 5.5                                 | 691  | 3.4 | 2.5  | 3.0                   | 5.6   | 852   |
| <b>Wealth quintile</b>     |  |   |                       |                                     |  |     |  |                       |   |   |
| Lowest                     | 2.0  | 3.0                                     | 3.0                   | 5.4                                 | 2,242  | 3.7 | 3.6  | 3.8                   | 6.5   | 1,638   |
| Second                     | 1.9  | 2.3                                     | 3.1                   | 5.2                                 | 2,150  | 5.1 | 3.7  | 4.2                   | 8.1   | 1,683   |
| Middle                     | 1.9  | 2.2                                     | 2.6                   | 4.9                                 | 2,214  | 5.7 | 4.1  | 3.8                   | 7.8   | 1,891   |
| Fourth                     | 2.3  | 3.0                                     | 2.3                   | 5.7                                 | 2,629  | 4.6 | 3.0  | 4.9                   | 8.0   | 2,070   |
| Highest                    | 1.8  | 2.3                                     | 2.2                   | 4.6                                 | 2,652  | 4.9 | 2.7  | 3.6                   | 7.6   | 2,057   |
| Total 15-49                | 2.0  | 2.6                                     | 2.6                   | 5.2                                 | 11,887   | 4.8 | 3.4  | 4.1                   | 7.6   | 9,338   |
| 50-59                      | na   | na                                      | na                    | na                                  | na   | 1.2 | 1.4  | 1.7                   | 3.3   | 952   |
| Total 15-59                | na   | na                                      | na                    | na                                  | na   | 4.5 | 3.2  | 3.9                   | 7.2   | 10,290  |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = Not applicable

<sup>1</sup> Includes all men who report they are circumcised, regardless of provider

**Table 13.13 Women and men seeking treatment for STIs**

Percentage of women and men age 15-49 reporting an STI or symptoms of an STI in the past 12 months who sought advice or treatment, Zambia DHS 2018

| Source of advice or treatment                            | Women | Men  |
|--|-------|------|
| Clinic/hospital/private doctor/other health professional | 61.5  | 73.0 |
| Advice or medicine from shop/pharmacy                    | 0.5   | 0.2  |
| Advice or treatment from any other source                | 1.6   | 0.6  |
| No advice or treatment                                   | 36.7  | 26.4 |
| Number with STI or symptoms of STI                       | 613   | 711  |

**Table 13.14 Comprehensive knowledge about HIV among young people**

Percentage of young women and young men age 15-24 with comprehensive knowledge about HIV, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women  |                       | Men  |                       |
|---------------------------|--|-----------------------|--|-----------------------|
|                           | Percentage with comprehensive knowledge of AIDS <sup>1</sup> | Number of respondents | Percentage with comprehensive knowledge of AIDS <sup>1</sup> | Number of respondents |
| <b>Age</b>                |  |                       |  |                       |
| 15-19                     | 40.5   | 3,000                 | 38.6   | 2,781                 |
| 15-17                     | 38.8   | 1,735                 | 38.0   | 1,619                 |
| 18-19                     | 42.9   | 1,265                 | 39.4   | 1,162                 |
| 20-24                     | 44.9   | 2,733                 | 43.2   | 2,032                 |
| 20-22                     | 44.2   | 1,736                 | 43.2   | 1,310                 |
| 23-24                     | 46.0   | 997                   | 43.2   | 722                   |
| <b>Marital status</b>     |  |                       |  |                       |
| Never married             | 44.9   | 3,617                 | 41.2   | 4,289                 |
| Ever had sex              | 46.9   | 1,888                 | 42.0   | 2,518                 |
| Never had sex             | 42.6   | 1,729                 | 40.0   | 1,771                 |
| Ever married              | 38.7   | 2,116                 | 35.3   | 523                   |
| <b>Residence</b>          |  |                       |  |                       |
| Urban                     | 51.6   | 2,635                 | 47.1   | 2,120                 |
| Rural                     | 34.9   | 3,099                 | 35.4   | 2,693                 |
| <b>Education</b>          |  |                       |  |                       |
| No education              | 16.2   | 206                   | 16.0   | 147                   |
| Primary                   | 30.9   | 2,236                 | 28.6   | 1,837                 |
| Secondary                 | 51.3   | 3,143                 | 48.9   | 2,690                 |
| Higher                    | 69.9   | 149                   | 62.5   | 139                   |
| Total                     | 42.6   | 5,733                 | 40.6   | 4,813                 |

<sup>1</sup> Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about HIV transmission or prevention. The components of comprehensive knowledge are presented in Tables 13.1, 13.2.1, and 13.2.2.

**Table 13.15 Age at first sexual intercourse among young people**

Percentage of young women and young men age 15-24 who had sexual intercourse before age 15 and percentage of young women and young men age 18-24 who had sexual intercourse before age 18, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women   |                               |   |                               | Men   |                               |   |                               |
|---------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|
|                           | Percentage who had sexual intercourse before age 15 | Number of respondents (15-24) | Percentage who had sexual intercourse before age 18 | Number of respondents (18-24) | Percentage who had sexual intercourse before age 15 | Number of respondents (15-24) | Percentage who had sexual intercourse before age 18 | Number of respondents (18-24) |
| <b>Age</b>                |   |                               |   |                               |   |                               |   |                               |
| 15-19                     | 12.7  | 3,000                         | na  | na                            | 16.3  | 2,781                         | na  | na                            |
| 15-17                     | 12.9  | 1,735                         | na  | na                            | 15.7  | 1,619                         | na  | na                            |
| 18-19                     | 12.4  | 1,265                         | 57.9  | 1,265                         | 17.0  | 1,162                         | 54.0  | 1,162                         |
| 20-24                     | 15.4  | 2,733                         | 62.6  | 2,733                         | 13.0  | 2,032                         | 47.7  | 2,032                         |
| 20-22                     | 15.0  | 1,736                         | 62.6  | 1,736                         | 13.0  | 1,310                         | 48.1  | 1,310                         |
| 23-24                     | 15.9  | 997                           | 62.4  | 997                           | 13.0  | 722                           | 47.1  | 722                           |
| <b>Residence</b>          |   |                               |   |                               |   |                               |   |                               |
| Urban                     | 9.1   | 2,635                         | 46.7  | 1,889                         | 9.7   | 2,120                         | 38.1  | 1,454                         |
| Rural                     | 18.1  | 3,099                         | 74.0  | 2,109                         | 19.0  | 2,693                         | 59.9  | 1,739                         |
| <b>Education</b>          |   |                               |   |                               |   |                               |   |                               |
| No education              | 30.8  | 206                           | 80.4  | 145                           | 17.9  | 147                           | 49.1  | 106                           |
| Primary                   | 21.0  | 2,236                         | 79.8  | 1,414                         | 19.0  | 1,837                         | 59.3  | 972                           |
| Secondary                 | 8.4   | 3,143                         | 51.4  | 2,290                         | 12.5  | 2,690                         | 47.4  | 1,976                         |
| Higher                    | 1.6   | 149                           | 13.8  | 149                           | 4.1   | 139                           | 22.6  | 139                           |
| Total                     | 14.0  | 5,733                         | 61.1  | 3,998                         | 14.9  | 4,813                         | 50.0  | 3,194                         |

na = Not applicable

**Table 13.16 Premarital sexual intercourse among young people**

Among never-married women and men age 15-24, percentage who have never had sexual intercourse, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women age 15-24                                  |                               |  |   |  |   |  | Men age 15-24               |  |   |  |   |  |  |
|---------------------------|--|-------------------------------|--|---|--|---|--|-----------------------------|--|---|--|---|--|--|
|                           | Percentage who have never had sexual intercourse | Number of never-married women | Percentage who have never had sexual intercourse who plan to wait until marriage | Number of never-married women who have never had sexual intercourse | Percentage who used a condom at first sexual intercourse | Number of never-married women who have had sexual intercourse | Percentage who have never had sexual intercourse | Number of never-married men | Percentage who have never had sexual intercourse who plan to wait until marriage | Number of men who have never had sexual intercourse | Percentage who used a condom at first sexual intercourse | Number of never-married men who have had sexual intercourse | Percentage who have never had sexual intercourse who used a condom at first sexual intercourse |  |
|                           |  |                               |  |   |  |   |  |                             |  |   |  |   |  |  |
| <b>Age</b>                |  |                               |  |   |  |   |  |                             |  |   |  |   |  |  |
| 15-19                     | 59.7   | 2,531                         | 92.1   | 1,510   | 35.2   | 1,021   | 55.3   | 2,749                       | 75.1   | 1,521   | 29.1   | 1,228   |  |  |
| 15-17                     | 69.9   | 1,620                         | 92.0   | 1,134   | 32.2   | 487   | 67.4   | 1,617                       | 74.4   | 1,090   | 25.1   | 527   |  |  |
| 18-19                     | 41.3   | 911                           | 92.2   | 376   | 38.0   | 534   | 38.1   | 1,132                       | 76.8   | 431   | 32.2   | 701   |  |  |
| 20-24                     | 20.2   | 1,086                         | 96.7   | 219   | 42.9   | 867   | 16.2   | 1,540                       | 80.5   | 250   | 39.0   | 1,291   |  |  |
| 20-22                     | 23.7   | 785                           | 96.6   | 186   | 42.3   | 599   | 19.3   | 1,095                       | 81.4   | 212   | 38.4   | 883   |  |  |
| 23-24                     | 10.8   | 301                           | (97.5)   | 33  | 44.3   | 268   | 8.5  | 445                         | (75.4)   | 38  | 40.4   | 407   |  |  |
| <b>Residence</b>          |  |                               |  |   |  |   |  |                             |  |   |  |   |  |  |
| Urban                     | 50.6   | 1,954                         | 93.3   | 989   | 42.5   | 966   | 47.4   | 2,006                       | 80.8   | 950   | 42.3   | 1,056   |  |  |
| Rural                     | 44.5   | 1,663                         | 91.8   | 740   | 34.8   | 923   | 36.0   | 2,283                       | 70.2   | 821   | 28.3   | 1,462   |  |  |
| <b>Education</b>          |  |                               |  |   |  |   |  |                             |  |   |  |   |  |  |
| No education              | 46.5   | 88                            | (76.4)   | 41  | 18.6   | 47  | 37.0   | 127                         | 77.1   | 47  | 11.8   | 80  |  |  |
| Primary                   | 53.9   | 1,127                         | 92.3   | 608   | 25.9   | 519   | 45.4   | 1,598                       | 71.4   | 726   | 24.6   | 872   |  |  |
| Secondary                 | 45.8   | 2,275                         | 93.3   | 1,042   | 42.8   | 1,233   | 39.7   | 2,429                       | 78.8   | 963   | 39.2   | 1,466   |  |  |
| Higher                    | 30.2   | 127                           | (98.3)   | 38  | 68.7   | 89  | 25.5   | 135                         | *  | 35  | 62.1   | 101   |  |  |
| Total                     | 47.8   | 3,617                         | 92.7   | 1,729   | 38.7   | 1,888   | 41.3   | 4,289                       | 75.9   | 1,771   | 34.2   | 2,518   |  |  |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

**Table 13.17.1 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months among young people: Women**

Among all young women age 15-24, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them; among young women having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; and among young women who had sexual intercourse in the past 12 months with a person who neither was their husband nor lived with them, percentage who used a condom during last sexual intercourse with such a partner, according to background characteristics, Zambia DHS 2018

| Background characteristic | Women age 15-24                                      |  | Women age 15-24 who had 2+ partners in the past 12 months |   | Women age 15-24 who had intercourse in the past 12 months with a person who neither was their husband nor lived with them |   |                 |
|---------------------------|--|--|---|---|---|---|-----------------|
|                           | Percentage who had 2+ partners in the past 12 months | Percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them | Number of women   | Percentage who reported using a condom during last sexual intercourse | Number of women   | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of women |
| <b>Age</b>                |  |  |   |   |   |   |                 |
| 15-19                     | 0.9  | 26.2   | 3,000   | (36.0)  | 28  | 29.6  | 786             |
| 15-17                     | 0.9  | 22.0   | 1,735   | *   | 16  | 26.7  | 381             |
| 18-19                     | 1.0  | 32.0   | 1,265   | *   | 12  | 32.4  | 405             |
| 20-24                     | 2.4  | 26.8   | 2,733   | 40.9  | 67  | 38.1  | 733             |
| 20-22                     | 1.8  | 26.7   | 1,736   | (26.6)  | 31  | 38.0  | 464             |
| 23-24                     | 3.6  | 27.0   | 997   | (53.2)  | 36  | 38.2  | 269             |
| <b>Marital status</b>     |  |  |   |   |   |   |                 |
| Never married             | 1.9  | 38.5   | 3,617   | 44.1  | 70  | 34.2  | 1,392           |
| Ever married              | 1.2  | 6.0  | 2,116   | (26.8)  | 25  | 28.6  | 128             |
| <b>Residence</b>          |  |  |   |   |   |   |                 |
| Urban                     | 1.9  | 28.2   | 2,635   | (49.3)  | 49  | 41.3  | 742             |
| Rural                     | 1.5  | 25.1   | 3,099   | (28.8)  | 46  | 26.4  | 778             |
| <b>Education</b>          |  |  |   |   |   |   |                 |
| No education              | 2.5  | 18.4   | 206   | *   | 5   | (8.5)   | 38              |
| Primary                   | 1.7  | 21.3   | 2,236   | (25.7)  | 37  | 24.2  | 476             |
| Secondary                 | 1.5  | 30.0   | 3,143   | (53.7)  | 47  | 37.1  | 942             |
| Higher                    | 3.5  | 43.0   | 149   | *   | 5   | 68.9  | 64              |
| Total 15-24               | 1.7  | 26.5   | 5,733   | 39.4  | 95  | 33.7  | 1,520           |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

**Table 13.17.2 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months among young people: Men**

Among all young men age 15-24, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them; among young men having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; and among young men who had sexual intercourse in the past 12 months with a person who neither was their wife nor lived with them, percentage who used a condom during last sexual intercourse with such a partner, according to background characteristics, Zambia DHS 2018

| Background characteristic | Men age 15-24  |   | Men age 15-24 who had 2+ partners in the past 12 months |   | Men age 15-24 who had intercourse in the past 12 months with a person who neither was their wife nor lived with them |   |               |
|---------------------------|--|---|---|---|--|---|---------------|
|                           | Percentage who had 2+ partners in the past 12 months | Percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them | Number of men   | Percentage who reported using a condom during last sexual intercourse | Number of men  | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of men |
| <b>Age</b>                |  |   |   |   |  |   |               |
| 15-19                     | 5.9  | 31.9  | 2,781   | 41.0  | 165  | 45.6  | 887           |
| 15-17                     | 3.4  | 22.1  | 1,619   | 28.8  | 56   | 39.9  | 358           |
| 18-19                     | 9.4  | 45.6  | 1,162   | 47.3  | 109  | 49.4  | 530           |
| 20-24                     | 16.9   | 55.1  | 2,032   | 40.3  | 343  | 51.9  | 1,119         |
| 20-22                     | 15.8   | 55.7  | 1,310   | 39.5  | 207  | 50.5  | 729           |
| 23-24                     | 18.9   | 54.0  | 722   | 41.6  | 136  | 54.5  | 390           |
| <b>Marital status</b>     |  |   |   |   |  |   |               |
| Never married             | 9.2  | 43.6  | 4,289   | 47.0  | 395  | 48.8  | 1,872         |
| Ever married              | 21.6   | 25.9  | 523   | 18.1  | 113  | 53.0  | 135           |
| <b>Residence</b>          |  |   |   |   |  |   |               |
| Urban                     | 6.8  | 35.2  | 2,120   | 53.3  | 144  | 56.8  | 746           |
| Rural                     | 13.5   | 46.8  | 2,693   | 35.5  | 364  | 44.6  | 1,261         |
| <b>Education</b>          |  |   |   |   |  |   |               |
| No education              | 8.5  | 37.6  | 147   | *   | 12   | (24.4)  | 55            |
| Primary                   | 10.5   | 40.3  | 1,837   | 27.6  | 193  | 35.6  | 740           |
| Secondary                 | 10.7   | 42.4  | 2,690   | 51.0  | 287  | 57.9  | 1,140         |
| Higher                    | 11.3   | 51.6  | 139   | *   | 16   | 66.9  | 72            |
| Total 15-24               | 10.6   | 41.7  | 4,813   | 40.6  | 508  | 49.1  | 2,007         |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

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**Table 13.18 Recent HIV tests among young people**

Among young women and young men age 15-24 who have had sexual intercourse in the past 12 months, percentage who were tested for HIV in the past 12 months and received the results of the last test, according background characteristics, Zambia DHS 2018

| Background characteristic | Women age 15-24 who have had sexual intercourse in the past 12 months:                                  |                 | Men age 15-24 who have had sexual intercourse in the past 12 months:                                    |               |
|---------------------------|---|-----------------|---|---------------|
|                           | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of women | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of men |
| <b>Age</b>                |   |                 |   |               |
| 15-19                     | 65.3  | 1,230           | 40.4  | 912           |
| 15-17                     | 59.3  | 490             | 33.6  | 360           |
| 18-19                     | 69.4  | 740             | 44.8  | 553           |
| 20-24                     | 76.0  | 2,198           | 63.1  | 1,479         |
| 20-22                     | 75.3  | 1,334           | 60.9  | 891           |
| 23-24                     | 77.1  | 864             | 66.3  | 588           |
| <b>Marital status</b>     |   |                 |   |               |
| Never married             | 69.5  | 1,393           | 51.5  | 1,873         |
| Ever married              | 74.0  | 2,035           | 64.9  | 518           |
| Total 15-24               | 72.2  | 3,428           | 54.4  | 2,391         |

**Table 13.19 Age-mixing in sexual relationships among women age 15-19**

Percentage of women age 15-19 who had higher-risk sexual intercourse in the past 12 months with a man who was 10 or more years older, by background characteristics, Zambia DHS 2018

| Background characteristic              | Women age 15-19 who had sexual intercourse in the past 12 months                            |   |
|--|---|---|
|  | Percentage of women who had higher-risk intercourse with a man 10+ years older <sup>1</sup> | Number of women who had higher-risk intercourse in the past 12 months |
| <b>Age</b>                             |   |   |
| 15-17                                  | 1.4   | 381   |
| 18-19                                  | 1.9   | 405   |
| <b>Marital status</b>                  |   |   |
| Never married                          | 1.7   | 774   |
| Ever married                           | *   | 13  |
| <b>Knows condom source<sup>2</sup></b> |   |   |
| Yes                                    | 0.6   | 190   |
| No                                     | 2.0   | 596   |
| <b>Residence</b>                       |   |   |
| Urban                                  | 0.9   | 312   |
| Rural                                  | 2.2   | 475   |
| <b>Province</b>                        |   |   |
| Central                                | 3.5   | 61  |
| Copperbelt                             | 1.1   | 95  |
| Eastern                                | 2.2   | 115   |
| Luapula                                | 1.3   | 65  |
| Lusaka                                 | 0.0   | 107   |
| Muchinga                               | (7.2)   | 27  |
| Northern                               | (2.8)   | 38  |
| North Western                          | 0.0   | 68  |
| Southern                               | 1.6   | 115   |
| Western                                | 1.8   | 94  |
| <b>Education</b>                       |   |   |
| No education                           | *   | 17  |
| Primary                                | 2.1   | 328   |
| Secondary                              | 1.3   | 439   |
| Higher                                 | *   | 2   |
| Total 15-24                            | 1.7   | 786   |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Sexual intercourse with a nonmarital, noncohabiting partner

<sup>2</sup> Friends, family members, and home are not considered sources for condoms.

**Table 13.20 Drunkenness during sexual intercourse among youth**

Among all young women and young men age 15-24, percentage who had sexual intercourse in the past 12 months while drunk and percentage who had sexual intercourse in the past 12 months when drunk or with a partner who was drunk, by background characteristics, Zambia DHS 2018

| Background characteristic | Women  |  |                       | Men  |  |                       |
|---------------------------|--|--|-----------------------|--|--|-----------------------|
|                           | Percentage who had sexual intercourse in the past 12 months when drunk | Percentage who had sexual intercourse in the past 12 months when drunk or with a partner who was drunk | Number of respondents | Percentage who had sexual intercourse in the past 12 months when drunk | Percentage who had sexual intercourse in the past 12 months when drunk or with a partner who was drunk | Number of respondents |
| <b>Age</b>                |  |  |                       |  |  |                       |
| 15-19                     | 0.0  | 2.2  | 3,000                 | 1.0  | 1.4  | 2,781                 |
| 15-17                     | 0.0  | 1.4  | 1,735                 | 0.4  | 0.5  | 1,619                 |
| 18-19                     | 0.0  | 3.3  | 1,265                 | 1.8  | 2.6  | 1,162                 |
| 20-24                     | 0.5  | 9.6  | 2,733                 | 7.5  | 10.7   | 2,032                 |
| 20-22                     | 0.6  | 8.1  | 1,736                 | 5.4  | 8.1  | 1,310                 |
| 23-24                     | 0.2  | 12.2   | 997                   | 11.3   | 15.5   | 722                   |
| <b>Marital status</b>     |  |  |                       |  |  |                       |
| Never married             | 0.2  | 3.1  | 3,617                 | 3.0  | 4.5  | 4,289                 |
| Ever married              | 0.3  | 10.3   | 2,116                 | 10.0   | 11.8   | 523                   |
| <b>Residence</b>          |  |  |                       |  |  |                       |
| Urban                     | 0.3  | 6.9  | 2,635                 | 4.6  | 7.0  | 2,120                 |
| Rural                     | 0.2  | 4.7  | 3,099                 | 3.0  | 4.0  | 2,693                 |
| <b>Province</b>           |  |  |                       |  |  |                       |
| Central                   | 0.4  | 3.7  | 508                   | 4.6  | 5.8  | 429                   |
| Copperbelt                | 0.8  | 9.9  | 931                   | 6.6  | 8.8  | 737                   |
| Eastern                   | 0.0  | 3.4  | 686                   | 2.6  | 3.4  | 632                   |
| Luapula                   | 0.0  | 4.7  | 450                   | 2.9  | 3.5  | 392                   |
| Lusaka                    | 0.0  | 7.2  | 1,064                 | 4.6  | 8.0  | 844                   |
| Muchinga                  | 0.0  | 10.9   | 323                   | 3.4  | 5.0  | 268                   |
| Northern                  | 0.0  | 4.5  | 457                   | 2.7  | 3.7  | 367                   |
| North Western             | 0.0  | 2.5  | 339                   | 4.3  | 5.7  | 257                   |
| Southern                  | 0.5  | 4.1  | 638                   | 1.5  | 2.2  | 618                   |
| Western                   | 0.0  | 2.1  | 337                   | 2.2  | 3.7  | 270                   |
| <b>Education</b>          |  |  |                       |  |  |                       |
| No education              | 0.0  | 9.2  | 206                   | 2.1  | 2.9  | 147                   |
| Primary                   | 0.1  | 6.3  | 2,236                 | 3.0  | 3.7  | 1,837                 |
| Secondary                 | 0.3  | 5.3  | 3,143                 | 4.4  | 6.5  | 2,690                 |
| Higher                    | 0.0  | 2.6  | 149                   | 3.4  | 6.6  | 139                   |
| Total 15-24               | 0.2  | 5.7  | 5,733                 | 3.7  | 5.3  | 4,813                 |



### Key Findings

- **HIV prevalence:** Overall, 11.1% of women and men age 15-49 in Zambia are infected with HIV; HIV prevalence is higher among women than men (14.2% versus 7.5%).
- **HIV prevalence by residence:** HIV prevalence is twice as high in urban areas as in rural areas (15.9% versus 7.1%).
- **HIV prevalence according to province:** HIV prevalence is highest in Copperbelt (15.4%), where it is nearly three times as high as in Muchinga (5.4%) and Northern (5.6%).
- **HIV prevalence among young people:** Overall, 3.8% of young women and men age 15-24 are HIV positive. HIV prevalence is higher among young women than young men (5.6% versus 1.8%).
- **HIV prevalence by circumcision:** HIV prevalence is 5.9% among men age 15-49 who have been circumcised (by either traditional or medical practitioners) and 8.3% among men who have not been circumcised.

The 2018 ZDHS included HIV prevalence testing for women age 15-49 and men age 15-59. The specimen collection and HIV testing procedures are described in Chapter 1.

#### 14.1 COVERAGE RATES FOR HIV TESTING

Ninety-three percent of women and 87% of men age 15-49 who were eligible for HIV testing were interviewed, consented to providing a blood specimen for HIV testing, and provided specimen (**Table 14.1**). Four percent of women and men eligible for HIV testing refused to provide a blood specimen. Men (8%) were far more likely than women (3%) to be absent for blood collection after repeated attempts to contact them.

##### HIV testing coverage rate

Percentage of women and men who are tested for HIV as part of the DHS survey.

**Sample:** Women and men who are in households selected for HIV testing and are within the eligible age range for HIV testing based on information collected in the Household Questionnaire.

The HIV testing coverage rate is calculated as follows:

Women and men age 15-49 who were interviewed and whose blood sample underwent the complete HIV testing algorithm with a final result of positive, negative, indeterminate, or inconclusive

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All women and men age 15-49 in households selected for HIV testing

**Trends:** Participation in HIV testing has risen over time, from 75% in 2007 to 90% in 2018. Participation among women increased from 77% in 2007 to 93% in 2018, while participation among men increased from 72% to 87% over the same time period.

## Patterns by background characteristics

- The HIV testing response rate is higher in rural areas than in urban areas among both women (94% versus 91%) and men (90% versus 83%) (**Table 14.1**).
- By province, the HIV testing response rate is highest among women and men in Central (97% and 95%, respectively) and lowest among those in Luapula (86% and 81%, respectively).
- Participation in HIV testing is lowest in the highest wealth quintile. Among women, participation declines from 93%-94% among those in the lower four wealth quintiles to 89% among those in the highest quintile. Participation follows a similar pattern among men, falling from 89%-90% in the lower three wealth quintiles to 82% in the highest quintile (**Table 14.2**).

## 14.2 HIV PREVALENCE

### 14.2.1 HIV Prevalence by Age and Sex

#### HIV prevalence

Percentage of women and men testing positive for HIV as part of the DHS survey.

**Sample:** Women and men age 15-49 who are tested for HIV as part of the survey

**Table 14.3** shows that 11.1% of the population age 15-49 in Zambia are HIV positive. HIV prevalence is higher among women than men (14.2% versus 7.5%).

**Trends:** To assess trends in HIV prevalence over time, it is important to note that the HIV testing algorithm for the 2018 ZDHS differs from the algorithm used in the previous ZDHS surveys. The 2001-02, 2007, and 2013-14 ZDHS surveys used an algorithm in which specimens with positive results on two enzyme immunoassays (EIAs) were classified as positive (CSO et al. 2003; CSO et al. 2009; CSO et al. 2014). The new algorithm in the 2018 ZDHS reflects the change in the international recommendations for HIV testing. This change responded to concerns that the HIV testing algorithms previously used were likely to produce too many false positives and overestimate HIV prevalence (CDC 2014a; UNAIDS/WHO 2015). In accordance with the new guidelines, the 2018 ZDHS tested specimens that were positive on two EIAs with a highly specific third assay, the Geenius HIV 1/2 Supplemental Assay (Bio-Rad, France). The specimen was classified as positive only if the Geenius result was also positive. More details on the HIV testing algorithm can be found in Chapter 1.

As shown in **Figure 14.1**, the HIV prevalence among women and men age 15-49 has decreased since 2013-14, from 13.3% (CI: 12.4%-14.2%) to 11.1% (CI: 10.3%-11.9%). The prevalence was 14.3% in 2007. It is important to note that some of the decrease between the 2013-14 survey and the 2018 survey could be due to the change in algorithm.

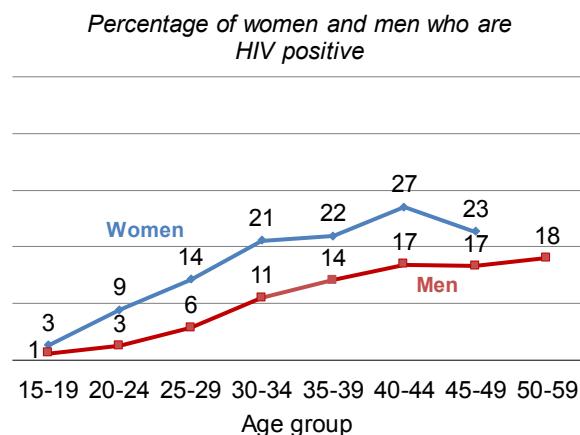
**Figure 14.1 Trends in HIV prevalence**



#### Patterns by background characteristics

- HIV prevalence generally rises with age group, increasing from 2.6% among women age 15-19 to 22.7% among women age 45-49 and from 1.2% among men age 15-19 to 18.0% among men age 50-59 (**Figure 14.2**).
- Among women and men combined, HIV prevalence is more than twice as high in urban areas as in rural areas (15.9% versus 7.1%) (**Table 14.4**). In urban areas, HIV prevalence is 20.3% among women and 10.6% among men, while the prevalence is 8.9% and 5.0%, respectively, in rural areas (**Figure 14.3**).

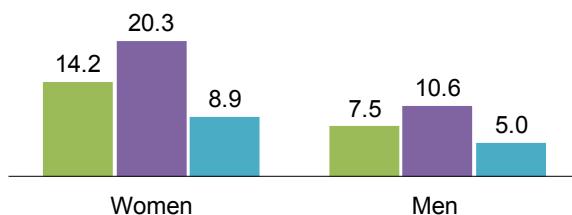
**Figure 14.2 HIV prevalence by age**



**Figure 14.3 HIV prevalence by residence and sex**

Percentage of women and men age 15-49 who are HIV positive

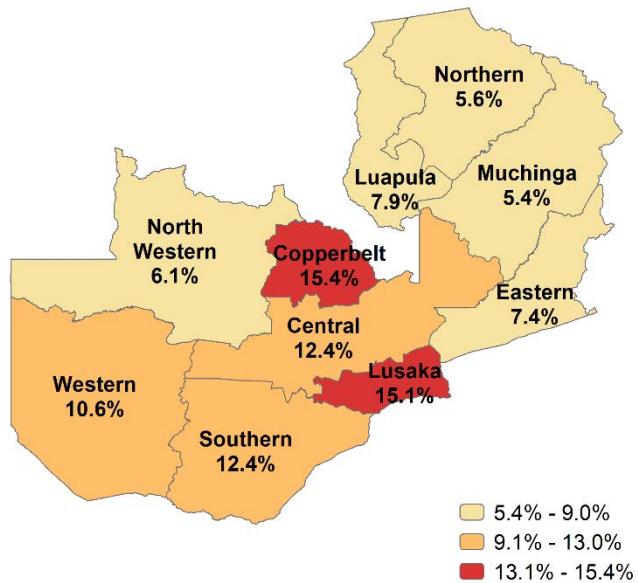
■ Total ■ Urban ■ Rural



- HIV prevalence is highest in Copperbelt (15.4%), where it is nearly three times as high as in Muchinga (5.4%) and Northern (5.6%) (Figure 14.4).
- HIV prevalence increases with increasing education, from 9.3% among respondents with no education to 14.0% among those with a higher education. This trend is consistent among both women (rising from 10.8% to 15.5%) and men (rising from 5.8% to 12.9%) (Table 14.4).

**Figure 14.4 HIV prevalence by province**

Percentage of women and men age 15-49 who are HIV positive

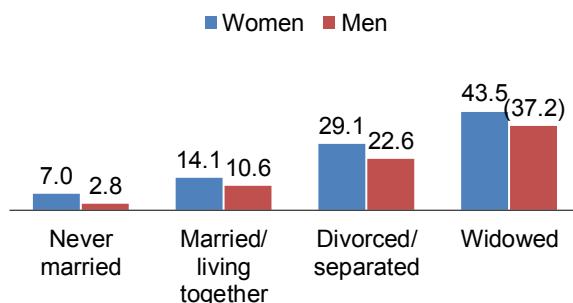


#### Patterns by other sociodemographic and health characteristics

- HIV prevalence varies notably by marital status; the prevalence is highest among women (43.5%) and men (37.2%) who are widowed, followed by those who are divorced or separated (29.1% and 22.6%, respectively). The prevalence is lowest among those who have never been married (7.0% and 2.8%, respectively) (Table 14.5 and Figure 14.5).
- Women who are pregnant have a lower HIV prevalence (10.3%) than those who are not pregnant (14.6%).

**Figure 14.5 HIV prevalence by marital status**

Percentage of women and men age 15-49 who are HIV positive



Note: Figures in parentheses are based on 25-49 unweighted cases.

#### 14.2.2 HIV Prevalence by Sexual Risk Behaviour

HIV prevalence is higher among women who first had sexual intercourse before age 18 than among women who first had sex at older ages. By contrast, HIV prevalence is slightly lower among men who first had sex before age 16 than among their counterparts who initiated sexual activity at older ages (Table 14.6).

HIV prevalence generally increases with number of lifetime sexual partners, rising from 7.8% among women with one lifetime sexual partner to 31.9% among those with 10 or more and from 1.8% among men with one lifetime sexual partner to 12.8% among those with 10 or more (**Figure 14.6**).

### 14.2.3 HIV Prevalence among Young People

**Tables 14.7** and **14.8** show HIV prevalence among young people age 15-24 according to background characteristics and sexual risk behaviours. Overall, 3.8% of young women and men age 15-24 are HIV positive. HIV prevalence is higher among young women than young men (5.6% versus 1.8%).

#### Patterns by background characteristics

- HIV prevalence increases with age among young women, from 1.7% among those age 15-17 to 11.9% among those age 23-24. Among young men, the prevalence increases slightly from 1.4% among those age 15-17 to 3.7% among those age 23-24.
- Young women who are divorced, separated, or widowed (13.4%) have a higher HIV prevalence than their currently married (6.2%) and never-married (4.8%) counterparts.
- HIV prevalence is higher among young women in urban areas (7.5%) than among those in rural areas (4.0%). A similar trend is seen among young men, with a prevalence of 2.7% in urban areas and 1.0% in rural areas.
- HIV prevalence is notably higher among young women with two or more sexual partners in the past 12 months (19.2%) than among their counterparts with one partner (7.2%) or no partners (6.0%). Among young men, by contrast, HIV prevalence is slightly lower among those with two or more sexual partners in the past 12 months (1.8%) than among those with one partner (2.3%) (**Table 14.8**).

### 14.2.4 HIV Prevalence by Other Characteristics Related to HIV Risk

As shown in **Table 14.9**, HIV prevalence is higher among women and men who reported having a sexually transmitted infection (STI) or symptoms of an STI in the past 12 months than among those who did not (21.2% versus 12.2%).

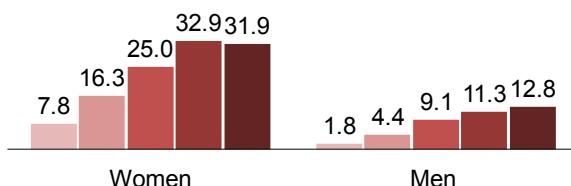
Among HIV-positive women and men, 91% reported having ever been tested for HIV and having received the result of their most recent test. Fifty-six percent of HIV-positive women and men were tested for HIV and received the result in the past 12 months, and 35% were tested more than 12 months ago and received the result. Only 2% of HIV-positive women and men have been tested for HIV but did not receive the result of their most recent test, and 6% have never been tested for HIV (**Table 14.10**).

HIV prevalence is 5.9% among men age 15-49 who have been circumcised (by either traditional or medical practitioners) and 8.3% among those who have not been circumcised (**Table 14.11**). HIV prevalence is lower among men who report that they were medically circumcised (5.7%) than among those who report that they were traditionally circumcised (6.5%).

**Figure 14.6 HIV prevalence by number of lifetime partners**

Percentage of women and men age 15-49 who ever had sex and are HIV positive

■ 1 ■ 2 ■ 3-4 ■ 5-9 ■ 10+



#### **14.2.5 HIV Prevalence among Couples**

A total of 15.4% of the cohabitating couples interviewed in the 2018 ZDHS are affected by HIV, meaning that one or both members are HIV positive. This includes 7.8% of couples in which both members are HIV positive, 3.1% of couples in which the man is HIV positive and the woman is HIV negative, and 4.5% of couples in which the woman is HIV positive and the man is HIV negative (**Table 14.12**).

#### **LIST OF TABLES**

For more information on HIV prevalence, see the following tables:

- **Table 14.1 Coverage of HIV testing by residence and province**
- **Table 14.2 Coverage of HIV testing according to selected background characteristics**
- **Table 14.3 HIV prevalence by age**
- **Table 14.4 HIV prevalence by socioeconomic characteristics**
- **Table 14.5 HIV prevalence by demographic characteristics**
- **Table 14.6 HIV prevalence by sexual behaviour**
- **Table 14.7 HIV prevalence among young people by background characteristics**
- **Table 14.8 HIV prevalence among young people by sexual behaviour**
- **Table 14.9 HIV prevalence by other characteristics**
- **Table 14.10 Prior HIV testing by current HIV status**
- **Table 14.11 HIV prevalence by male circumcision**
- **Table 14.12 HIV prevalence among couples**

**Table 14.1 Coverage of HIV testing by residence and province**

Percent distribution of women and men age 15-49 eligible for HIV testing by testing status, according to residence and province (unweighted), Zambia DHS 2018

| Residence and province | HIV test status         |                 |                          |                 |  |                 |                            |                 |       |        |
|------------------------|-------------------------|-----------------|--------------------------|-----------------|--|-----------------|----------------------------|-----------------|-------|--------|
|                        | DBS tested <sup>1</sup> |                 | Refused to provide blood |                 | Absent at the time of blood collection |                 | Other/missing <sup>2</sup> |                 | Total | Number |
|                        | Interviewed             | Not interviewed | Interviewed              | Not interviewed | Interviewed                            | Not interviewed | Interviewed                | Not interviewed |       |        |
| WOMEN                  |                         |                 |                          |                 |  |                 |                            |                 |       |        |
| <b>Residence</b>       |                         |                 |                          |                 |  |                 |                            |                 |       |        |
| Urban                  | 90.9                    | 0.0             | 3.6                      | 1.1             | 0.5                                    | 2.8             | 0.6                        | 0.5             | 100.0 | 5,766  |
| Rural                  | 93.9                    | 0.0             | 2.7                      | 0.5             | 0.2                                    | 2.0             | 0.1                        | 0.5             | 100.0 | 8,423  |
| <b>Province</b>        |                         |                 |                          |                 |  |                 |                            |                 |       |        |
| Central                | 96.8                    | 0.0             | 1.4                      | 0.2             | 0.2                                    | 0.6             | 0.2                        | 0.5             | 100.0 | 1,416  |
| Copperbelt             | 89.2                    | 0.0             | 3.9                      | 1.4             | 0.4                                    | 3.0             | 1.8                        | 0.4             | 100.0 | 1,695  |
| Eastern                | 91.3                    | 0.1             | 3.5                      | 1.1             | 0.1                                    | 3.1             | 0.1                        | 0.7             | 100.0 | 1,617  |
| Luapula                | 86.3                    | 0.0             | 8.5                      | 1.2             | 0.8                                    | 2.2             | 0.3                        | 0.7             | 100.0 | 1,474  |
| Lusaka                 | 96.4                    | 0.0             | 1.3                      | 0.6             | 0.1                                    | 1.2             | 0.2                        | 0.2             | 100.0 | 1,811  |
| Muchinga               | 96.4                    | 0.1             | 1.4                      | 0.4             | 0.0                                    | 1.2             | 0.0                        | 0.5             | 100.0 | 1,209  |
| Northern               | 94.1                    | 0.1             | 0.9                      | 0.7             | 0.2                                    | 3.8             | 0.0                        | 0.2             | 100.0 | 1,301  |
| North Western          | 95.8                    | 0.0             | 2.3                      | 0.5             | 0.2                                    | 1.1             | 0.0                        | 0.2             | 100.0 | 1,100  |
| Southern               | 92.2                    | 0.0             | 3.2                      | 0.8             | 0.3                                    | 2.7             | 0.1                        | 0.8             | 100.0 | 1,407  |
| Western                | 89.5                    | 0.1             | 4.1                      | 0.4             | 1.0                                    | 4.5             | 0.0                        | 0.4             | 100.0 | 1,159  |
| Total 15-49            | 92.7                    | 0.0             | 3.1                      | 0.8             | 0.3                                    | 2.3             | 0.3                        | 0.5             | 100.0 | 14,189 |
| MEN                    |                         |                 |                          |                 |  |                 |                            |                 |       |        |
| <b>Residence</b>       |                         |                 |                          |                 |  |                 |                            |                 |       |        |
| Urban                  | 82.8                    | 0.1             | 3.9                      | 1.4             | 1.5                                    | 8.8             | 0.7                        | 0.8             | 100.0 | 4,715  |
| Rural                  | 89.8                    | 0.0             | 2.5                      | 0.6             | 0.8                                    | 5.4             | 0.1                        | 0.8             | 100.0 | 7,421  |
| <b>Province</b>        |                         |                 |                          |                 |  |                 |                            |                 |       |        |
| Central                | 94.8                    | 0.2             | 1.4                      | 0.3             | 0.4                                    | 1.5             | 0.2                        | 1.2             | 100.0 | 1,252  |
| Copperbelt             | 82.8                    | 0.0             | 3.8                      | 2.2             | 1.0                                    | 7.5             | 1.6                        | 1.2             | 100.0 | 1,472  |
| Eastern                | 83.6                    | 0.1             | 3.5                      | 1.4             | 0.7                                    | 9.7             | 0.0                        | 1.1             | 100.0 | 1,535  |
| Luapula                | 80.9                    | 0.1             | 6.5                      | 0.9             | 3.8                                    | 6.8             | 0.6                        | 0.6             | 100.0 | 1,243  |
| Lusaka                 | 91.1                    | 0.0             | 1.4                      | 0.6             | 0.8                                    | 5.7             | 0.2                        | 0.3             | 100.0 | 1,514  |
| Muchinga               | 93.2                    | 0.0             | 2.5                      | 0.4             | 0.5                                    | 2.5             | 0.1                        | 0.8             | 100.0 | 1,005  |
| Northern               | 87.7                    | 0.1             | 1.0                      | 0.2             | 0.4                                    | 10.1            | 0.1                        | 0.5             | 100.0 | 1,095  |
| North Western          | 92.0                    | 0.0             | 3.1                      | 0.4             | 0.1                                    | 3.4             | 0.0                        | 0.9             | 100.0 | 889    |
| Southern               | 84.2                    | 0.0             | 4.0                      | 1.1             | 0.7                                    | 9.0             | 0.0                        | 1.0             | 100.0 | 1,256  |
| Western                | 82.6                    | 0.1             | 3.3                      | 0.8             | 2.1                                    | 9.9             | 0.1                        | 1.0             | 100.0 | 875    |
| Total 15-49            | 87.1                    | 0.1             | 3.1                      | 0.9             | 1.0                                    | 6.7             | 0.3                        | 0.8             | 100.0 | 12,136 |
| 50-59                  | 87.7                    | 0.0             | 3.5                      | 1.1             | 0.7                                    | 6.3             | 0.3                        | 0.4             | 100.0 | 1,115  |
| Total 15-59            | 87.1                    | 0.1             | 3.1                      | 0.9             | 1.0                                    | 6.7             | 0.3                        | 0.8             | 100.0 | 13,251 |
| TOTAL                  |                         |                 |                          |                 |  |                 |                            |                 |       |        |
| <b>Residence</b>       |                         |                 |                          |                 |  |                 |                            |                 |       |        |
| Urban                  | 87.3                    | 0.0             | 3.8                      | 1.2             | 0.9                                    | 5.5             | 0.6                        | 0.6             | 100.0 | 10,481 |
| Rural                  | 92.0                    | 0.0             | 2.6                      | 0.5             | 0.5                                    | 3.6             | 0.1                        | 0.6             | 100.0 | 15,844 |
| <b>Province</b>        |                         |                 |                          |                 |  |                 |                            |                 |       |        |
| Central                | 95.9                    | 0.1             | 1.4                      | 0.3             | 0.3                                    | 1.0             | 0.2                        | 0.8             | 100.0 | 2,668  |
| Copperbelt             | 86.2                    | 0.0             | 3.9                      | 1.7             | 0.6                                    | 5.1             | 1.7                        | 0.7             | 100.0 | 3,167  |
| Eastern                | 87.6                    | 0.1             | 3.5                      | 1.3             | 0.4                                    | 6.3             | 0.0                        | 0.9             | 100.0 | 3,152  |
| Luapula                | 83.8                    | 0.0             | 7.6                      | 1.0             | 2.2                                    | 4.3             | 0.4                        | 0.6             | 100.0 | 2,717  |
| Lusaka                 | 94.0                    | 0.0             | 1.4                      | 0.6             | 0.4                                    | 3.2             | 0.2                        | 0.2             | 100.0 | 3,325  |
| Muchinga               | 95.0                    | 0.0             | 1.9                      | 0.4             | 0.2                                    | 1.8             | 0.0                        | 0.6             | 100.0 | 2,214  |
| Northern               | 91.2                    | 0.1             | 1.0                      | 0.5             | 0.3                                    | 6.7             | 0.0                        | 0.3             | 100.0 | 2,396  |
| North Western          | 94.1                    | 0.0             | 2.7                      | 0.5             | 0.2                                    | 2.1             | 0.0                        | 0.5             | 100.0 | 1,989  |
| Southern               | 88.4                    | 0.0             | 3.6                      | 0.9             | 0.5                                    | 5.7             | 0.0                        | 0.9             | 100.0 | 2,663  |
| Western                | 86.5                    | 0.1             | 3.7                      | 0.6             | 1.5                                    | 6.8             | 0.0                        | 0.7             | 100.0 | 2,034  |
| Total 15-49            | 90.1                    | 0.0             | 3.1                      | 0.8             | 0.6                                    | 4.3             | 0.3                        | 0.6             | 100.0 | 26,325 |

<sup>1</sup> Includes all Dried Blood Spot (DBS) specimens tested at the lab and for which there is a final result, i.e., positive, negative, or indeterminate

<sup>2</sup> Includes (1) other results of blood collection (e.g., technical problem in the field), (2) lost specimens, (3) noncorresponding bar codes, and (4) other lab results such as blood not tested for technical reason or not enough blood to complete the algorithm

**Table 14.2 Coverage of HIV testing according to selected background characteristics**

Percent distribution of women and men age 15-49 eligible for HIV testing by testing status, according to selected background characteristics (unweighted), Zambia DHS 2018

| Background characteristic | HIV test status         |                 |                          |                 |  |                 |                            |                 |       | Total  | Number |  |  |
|---------------------------|-------------------------|-----------------|--------------------------|-----------------|--|-----------------|----------------------------|-----------------|-------|--------|--------|--|--|
|                           | DBS tested <sup>1</sup> |                 | Refused to provide blood |                 | Absent at the time of blood collection |                 | Other/missing <sup>2</sup> |                 |       |        |        |  |  |
|                           | Interviewed             | Not interviewed | Interviewed              | Not interviewed | Interviewed                            | Not interviewed | Interviewed                | Not interviewed |       |        |        |  |  |
| WOMEN                     |                         |                 |                          |                 |  |                 |                            |                 |       |        |        |  |  |
| <b>Age</b>                |                         |                 |                          |                 |  |                 |                            |                 |       |        |        |  |  |
| 15-19                     | 91.8                    | 0.0             | 2.9                      | 0.8             | 0.4                                    | 3.1             | 0.2                        | 0.8             | 100.0 | 3,262  |        |  |  |
| 20-24                     | 93.3                    | 0.0             | 2.5                      | 0.6             | 0.3                                    | 2.3             | 0.4                        | 0.5             | 100.0 | 2,785  |        |  |  |
| 25-29                     | 93.0                    | 0.0             | 3.4                      | 0.9             | 0.4                                    | 2.0             | 0.2                        | 0.1             | 100.0 | 2,235  |        |  |  |
| 30-34                     | 93.0                    | 0.1             | 3.3                      | 0.7             | 0.2                                    | 2.1             | 0.3                        | 0.4             | 100.0 | 1,926  |        |  |  |
| 35-39                     | 92.2                    | 0.1             | 3.6                      | 1.1             | 0.3                                    | 2.1             | 0.3                        | 0.4             | 100.0 | 1,684  |        |  |  |
| 40-44                     | 94.5                    | 0.0             | 2.4                      | 0.6             | 0.4                                    | 1.6             | 0.3                        | 0.2             | 100.0 | 1,310  |        |  |  |
| 45-49                     | 91.6                    | 0.0             | 4.0                      | 0.6             | 0.4                                    | 2.4             | 0.5                        | 0.5             | 100.0 | 987    |        |  |  |
| <b>Education</b>          |                         |                 |                          |                 |  |                 |                            |                 |       |        |        |  |  |
| No education              | 90.7                    | 0.1             | 4.1                      | 0.8             | 0.3                                    | 1.6             | 0.4                        | 2.1             | 100.0 | 1,199  |        |  |  |
| Primary                   | 94.4                    | 0.0             | 2.5                      | 0.6             | 0.3                                    | 1.8             | 0.1                        | 0.3             | 100.0 | 6,395  |        |  |  |
| Secondary                 | 92.2                    | 0.0             | 3.0                      | 0.8             | 0.3                                    | 2.8             | 0.6                        | 0.3             | 100.0 | 5,776  |        |  |  |
| Higher                    | 86.6                    | 0.0             | 6.8                      | 1.5             | 0.6                                    | 3.8             | 0.2                        | 0.5             | 100.0 | 812    |        |  |  |
| Missing                   | 0.0                     | 0.0             | 0.0                      | 14.3            | 0.0                                    | 57.1            | 0.0                        | 28.6            | 100.0 | 7      |        |  |  |
| <b>Wealth quintile</b>    |                         |                 |                          |                 |  |                 |                            |                 |       |        |        |  |  |
| Lowest                    | 93.9                    | 0.1             | 3.3                      | 0.4             | 0.2                                    | 1.6             | 0.1                        | 0.3             | 100.0 | 2,916  |        |  |  |
| Second                    | 94.3                    | 0.0             | 2.4                      | 0.5             | 0.2                                    | 1.8             | 0.1                        | 0.7             | 100.0 | 2,760  |        |  |  |
| Middle                    | 93.7                    | 0.0             | 2.4                      | 0.7             | 0.1                                    | 2.5             | 0.1                        | 0.6             | 100.0 | 2,788  |        |  |  |
| Fourth                    | 93.0                    | 0.0             | 2.6                      | 0.9             | 0.4                                    | 2.7             | 0.2                        | 0.3             | 100.0 | 2,662  |        |  |  |
| Highest                   | 89.1                    | 0.0             | 4.7                      | 1.3             | 0.6                                    | 3.0             | 0.9                        | 0.4             | 100.0 | 3,063  |        |  |  |
| Total                     | 92.7                    | 0.0             | 3.1                      | 0.8             | 0.3                                    | 2.3             | 0.3                        | 0.5             | 100.0 | 14,189 |        |  |  |
| MEN                       |                         |                 |                          |                 |  |                 |                            |                 |       |        |        |  |  |
| <b>Age</b>                |                         |                 |                          |                 |  |                 |                            |                 |       |        |        |  |  |
| 15-19                     | 88.2                    | 0.0             | 2.5                      | 0.8             | 1.2                                    | 6.0             | 0.3                        | 1.0             | 100.0 | 3,095  |        |  |  |
| 20-24                     | 88.6                    | 0.2             | 2.0                      | 0.7             | 1.0                                    | 6.2             | 0.4                        | 0.9             | 100.0 | 2,168  |        |  |  |
| 25-29                     | 87.4                    | 0.1             | 3.3                      | 0.8             | 0.7                                    | 6.9             | 0.3                        | 0.6             | 100.0 | 1,779  |        |  |  |
| 30-34                     | 85.7                    | 0.1             | 3.4                      | 1.5             | 0.8                                    | 7.6             | 0.2                        | 0.7             | 100.0 | 1,505  |        |  |  |
| 35-39                     | 85.1                    | 0.0             | 3.5                      | 1.0             | 0.9                                    | 8.2             | 0.5                        | 0.8             | 100.0 | 1,426  |        |  |  |
| 40-44                     | 84.8                    | 0.0             | 4.2                      | 0.9             | 1.7                                    | 7.2             | 0.3                        | 0.7             | 100.0 | 1,202  |        |  |  |
| 45-49                     | 87.6                    | 0.0             | 4.2                      | 0.6             | 0.8                                    | 5.6             | 0.3                        | 0.8             | 100.0 | 961    |        |  |  |
| <b>Education</b>          |                         |                 |                          |                 |  |                 |                            |                 |       |        |        |  |  |
| No education              | 79.2                    | 0.2             | 4.0                      | 1.5             | 1.3                                    | 7.0             | 0.4                        | 6.4             | 100.0 | 530    |        |  |  |
| Primary                   | 89.5                    | 0.0             | 2.5                      | 0.8             | 0.9                                    | 5.4             | 0.1                        | 0.7             | 100.0 | 4,728  |        |  |  |
| Secondary                 | 87.1                    | 0.1             | 2.9                      | 0.7             | 1.1                                    | 7.3             | 0.4                        | 0.4             | 100.0 | 5,885  |        |  |  |
| Higher                    | 81.9                    | 0.0             | 6.4                      | 1.9             | 0.7                                    | 7.7             | 0.6                        | 0.7             | 100.0 | 968    |        |  |  |
| Missing                   | 0.0                     | 0.0             | 0.0                      | 20.0            | 0.0                                    | 68.0            | 0.0                        | 12.0            | 100.0 | 25     |        |  |  |
| <b>Wealth quintile</b>    |                         |                 |                          |                 |  |                 |                            |                 |       |        |        |  |  |
| Lowest                    | 89.4                    | 0.0             | 2.9                      | 0.7             | 1.0                                    | 5.0             | 0.2                        | 0.8             | 100.0 | 2,281  |        |  |  |
| Second                    | 88.7                    | 0.0             | 2.6                      | 0.5             | 0.7                                    | 6.6             | 0.0                        | 0.9             | 100.0 | 2,407  |        |  |  |
| Middle                    | 89.5                    | 0.1             | 2.2                      | 0.5             | 1.0                                    | 5.8             | 0.1                        | 0.8             | 100.0 | 2,577  |        |  |  |
| Fourth                    | 85.7                    | 0.2             | 2.7                      | 1.0             | 1.2                                    | 7.8             | 0.3                        | 0.9             | 100.0 | 2,323  |        |  |  |
| Highest                   | 82.3                    | 0.0             | 4.8                      | 1.7             | 1.3                                    | 8.2             | 0.9                        | 0.7             | 100.0 | 2,548  |        |  |  |
| Total                     | 87.1                    | 0.1             | 3.1                      | 0.9             | 1.0                                    | 6.7             | 0.3                        | 0.8             | 100.0 | 12,136 |        |  |  |

<sup>1</sup> Includes all Dried Blood Spot (DBS) specimens tested at the lab and for which there is a result, i.e., positive, negative, or indeterminate

<sup>2</sup> Includes (1) other results of blood collection (e.g., technical problem in the field), (2) lost specimens, (3) noncorresponding bar codes, and (4) other lab results such as blood not tested for technical reason or not enough blood to complete the algorithm

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**Table 14.3 HIV prevalence by age**

Among de facto women age 15-49 and men age 15-59 who were interviewed and tested, percentage HIV positive, according to age, Zambia DHS 2018

| Age                 | Women                   |        | Men                     |        | Total                   |        |
|---------------------|-------------------------|--------|-------------------------|--------|-------------------------|--------|
|                     | Percentage HIV positive | Number | Percentage HIV positive | Number | Percentage HIV positive | Number |
| 15-19               | 2.6                     | 2,818  | 1.2                     | 2,738  | 1.9                     | 5,557  |
| 20-24               | 8.9                     | 2,574  | 2.5                     | 2,023  | 6.1                     | 4,598  |
| 25-29               | 14.2                    | 2,080  | 5.7                     | 1,689  | 10.4                    | 3,768  |
| 30-34               | 21.1                    | 1,751  | 11.0                    | 1,357  | 16.7                    | 3,107  |
| 35-39               | 21.9                    | 1,579  | 14.1                    | 1,248  | 18.5                    | 2,827  |
| 40-44               | 27.0                    | 1,185  | 16.9                    | 1,048  | 22.3                    | 2,233  |
| 45-49               | 22.7                    | 831    | 16.6                    | 847    | 19.6                    | 1,678  |
| 50-59               | na                      | na     | 18.0                    | 935    | na                      | na     |
| Total 15-49         | 14.2<br>(13.1-15.3)     | 12,817 | 7.5<br>(6.8-8.2)        | 10,950 | 11.1<br>(10.3-11.9)     | 23,767 |
| Confidence interval |                         |        |                         |        |                         |        |
| Total 15-59         | na                      | na     | 8.3<br>(7.6-9.1)        | 11,885 | na                      | na     |
| Confidence interval |                         |        |                         |        |                         |        |

na = Not applicable

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**Table 14.4 HIV prevalence by socioeconomic characteristics**

Percentage HIV positive among women and men age 15-49 who were tested, according to socioeconomic characteristics, Zambia DHS 2018

| Socioeconomic characteristic       | Women                   |        | Men                     |        | Total                   |        |
|------------------------------------|-------------------------|--------|-------------------------|--------|-------------------------|--------|
|                                    | Percentage HIV positive | Number | Percentage HIV positive | Number | Percentage HIV positive | Number |
| <b>Religion</b>                    |                         |        |                         |        |                         |        |
| Catholic                           | 13.3                    | 2,202  | 8.0                     | 2,050  | 10.8                    | 4,251  |
| Protestant                         | 14.3                    | 10,398 | 7.2                     | 8,736  | 11.0                    | 19,133 |
| Muslim                             | 16.3                    | 60     | 8.7                     | 48     | 12.9                    | 108    |
| Other                              | 22.0                    | 159    | 24.1                    | 116    | 22.9                    | 275    |
| <b>Employment (past 12 months)</b> |                         |        |                         |        |                         |        |
| Not employed                       | 10.6                    | 6,141  | 2.6                     | 2,368  | 8.4                     | 8,508  |
| Employed                           | 17.5                    | 6,677  | 8.9                     | 8,582  | 12.7                    | 15,259 |
| <b>Residence</b>                   |                         |        |                         |        |                         |        |
| Urban                              | 20.3                    | 5,971  | 10.6                    | 4,915  | 15.9                    | 10,886 |
| Rural                              | 8.9                     | 6,846  | 5.0                     | 6,035  | 7.1                     | 12,881 |
| <b>Province</b>                    |                         |        |                         |        |                         |        |
| Central                            | 15.4                    | 1,092  | 9.0                     | 960    | 12.4                    | 2,052  |
| Copperbelt                         | 19.8                    | 2,062  | 10.1                    | 1,691  | 15.4                    | 3,752  |
| Eastern                            | 10.1                    | 1,503  | 4.5                     | 1,443  | 7.4                     | 2,946  |
| Luapula                            | 9.9                     | 1,003  | 5.4                     | 832    | 7.9                     | 1,835  |
| Lusaka                             | 19.2                    | 2,560  | 10.2                    | 2,128  | 15.1                    | 4,688  |
| Muchinga                           | 6.4                     | 707    | 4.3                     | 587    | 5.4                     | 1,293  |
| Northern                           | 6.7                     | 987    | 4.4                     | 837    | 5.6                     | 1,824  |
| North Western                      | 8.5                     | 672    | 3.1                     | 545    | 6.1                     | 1,218  |
| Southern                           | 15.8                    | 1,474  | 8.8                     | 1,365  | 12.4                    | 2,839  |
| Western                            | 13.2                    | 757    | 7.1                     | 562    | 10.6                    | 1,319  |
| <b>Education</b>                   |                         |        |                         |        |                         |        |
| No education                       | 10.8                    | 971    | 5.8                     | 426    | 9.3                     | 1,396  |
| Primary                            | 13.7                    | 5,721  | 6.9                     | 4,145  | 10.8                    | 9,866  |
| Secondary                          | 15.2                    | 5,437  | 7.2                     | 5,506  | 11.2                    | 10,944 |
| Higher                             | 15.5                    | 688    | 12.9                    | 873    | 14.0                    | 1,562  |
| <b>Wealth quintile</b>             |                         |        |                         |        |                         |        |
| Lowest                             | 6.7                     | 2,278  | 3.8                     | 1,786  | 5.4                     | 4,064  |
| Second                             | 9.3                     | 2,249  | 5.7                     | 1,912  | 7.7                     | 4,161  |
| Middle                             | 13.4                    | 2,339  | 6.6                     | 2,181  | 10.1                    | 4,520  |
| Fourth                             | 21.4                    | 2,872  | 10.1                    | 2,530  | 16.1                    | 5,402  |
| Highest                            | 17.2                    | 3,080  | 9.7                     | 2,541  | 13.8                    | 5,621  |
| Total 15-49                        | 14.2                    | 12,817 | 7.5                     | 10,950 | 11.1                    | 23,767 |
| 50-59                              | na                      | na     | 18.0                    | 935    | na                      | na     |
| Total 15-59                        | na                      | na     | 8.3                     | 11,885 | na                      | na     |

na = Not applicable

**Table 14.5 HIV prevalence by demographic characteristics**

Percentage HIV positive among women and men age 15-49 who were tested, according to demographic characteristics, Zambia DHS 2018

| Demographic characteristic                          | Women                   |        | Men                     |        | Total                   |        |
|---|-------------------------|--------|-------------------------|--------|-------------------------|--------|
|   | Percentage HIV positive | Number | Percentage HIV positive | Number | Percentage HIV positive | Number |
| <b>Marital status</b>                               |                         |        |                         |        |                         |        |
| Never married                                       | 7.0                     | 3,993  | 2.8                     | 5,081  | 4.6                     | 9,074  |
| Ever had sexual intercourse                         | 10.7                    | 2,322  | 3.5                     | 3,271  | 6.5                     | 5,593  |
| Never had sexual intercourse                        | 1.8                     | 1,672  | 1.4                     | 1,809  | 1.6                     | 3,481  |
| Married/living together                             | 14.1                    | 7,192  | 10.6                    | 5,421  | 12.6                    | 12,613 |
| Divorced or separated                               | 29.1                    | 1,270  | 22.6                    | 402    | 27.5                    | 1,672  |
| Widowed   | 43.5                    | 363    | (37.2)                  | 46     | 42.8                    | 409    |
| <b>Type of union</b>                                |                         |        |                         |        |                         |        |
| In polygynous union                                 | 11.3                    | 800    | 8.5                     | 261    | 10.6                    | 1,061  |
| In non-polygynous union                             | 14.4                    | 6,314  | 10.7                    | 5,160  | 12.7                    | 11,474 |
| Not currently in union                              | 14.3                    | 5,626  | 4.5                     | 5,529  | 9.5                     | 11,155 |
| Don't know/missing                                  | 22.4                    | 77     | *                       | 0      | 22.4                    | 77     |
| <b>Times slept away from home in past 12 months</b> |                         |        |                         |        |                         |        |
| None  | 13.8                    | 7,747  | 6.6                     | 5,886  | 10.7                    | 13,633 |
| 1-2   | 14.8                    | 3,455  | 8.0                     | 2,843  | 11.7                    | 6,297  |
| 3-4   | 14.4                    | 949    | 8.2                     | 1,117  | 11.1                    | 2,065  |
| 5+  | 16.2                    | 667    | 10.2                    | 1,105  | 12.4                    | 1,772  |
| <b>Time away in past 12 months</b>                  |                         |        |                         |        |                         |        |
| Away for more than 1 month at a time                | 15.4                    | 1,642  | 7.5                     | 1,484  | 11.6                    | 3,126  |
| Away only for less than 1 month at a time           | 14.7                    | 3,428  | 9.0                     | 3,580  | 11.8                    | 7,008  |
| Not away  | 13.8                    | 7,747  | 6.6                     | 5,886  | 10.7                    | 13,633 |
| <b>Currently pregnant</b>                           |                         |        |                         |        |                         |        |
| Pregnant  | 10.3                    | 1,056  | na                      | na     | na                      | na     |
| Not pregnant or not sure                            | 14.6                    | 11,761 | na                      | na     | na                      | na     |
| <b>ANC for last birth in the last 3 years</b>       |                         |        |                         |        |                         |        |
| ANC provided by the public sector                   | 10.7                    | 4,887  | na                      | na     | na                      | na     |
| ANC provided by other than the public sector        | 5.1                     | 170    | na                      | na     | na                      | na     |
| No ANC/no birth in last 3 years                     | 16.6                    | 7,761  | na                      | na     | na                      | na     |
| Total 15-49   | 14.2                    | 12,817 | 7.5                     | 10,950 | 11.1                    | 23,767 |
| 50-59   | na                      | na     | 18.0                    | 935    | na                      | na     |
| Total 15-59   | na                      | na     | 8.3                     | 11,885 | na                      | na     |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = Not applicable

**Table 14.6 HIV prevalence by sexual behaviour**

Percentage HIV positive among women and men age 15-49 who ever had sex and were tested for HIV, according to sexual behaviour characteristics, Zambia DHS 2018

| Sexual behaviour characteristic   | Women                   |        | Men                     |        | Total                   |        |
|---|-------------------------|--------|-------------------------|--------|-------------------------|--------|
|   | Percentage HIV positive | Number | Percentage HIV positive | Number | Percentage HIV positive | Number |
| <b>Age at first sexual intercourse</b>  |                         |        |                         |        |                         |        |
| <16   | 16.5                    | 4,464  | 7.4                     | 2,728  | 13.1                    | 7,192  |
| 16-17   | 16.9                    | 3,537  | 8.5                     | 2,025  | 13.9                    | 5,561  |
| 18-19   | 14.1                    | 1,826  | 9.5                     | 2,073  | 11.6                    | 3,899  |
| 20+   | 14.4                    | 1,104  | 9.5                     | 2,231  | 11.2                    | 3,335  |
| Missing   | 18.3                    | 215    | 15.7                    | 84     | 17.6                    | 299    |
| <b>Number of lifetime partners</b>  |                         |        |                         |        |                         |        |
| 1   | 7.8                     | 4,295  | 1.8                     | 1,066  | 6.6                     | 5,361  |
| 2   | 16.3                    | 3,516  | 4.4                     | 1,412  | 12.9                    | 4,928  |
| 3-4   | 25.0                    | 2,738  | 9.1                     | 2,640  | 17.2                    | 5,378  |
| 5-9   | 32.9                    | 497    | 11.3                    | 2,476  | 14.9                    | 2,972  |
| 10+   | 31.9                    | 69     | 12.8                    | 1,436  | 13.7                    | 1,506  |
| Missing   | (39.5)                  | 31     | 12.0                    | 110    | 18.1                    | 142    |
| <b>Multiple sexual partners in past 12 months</b>   |                         |        |                         |        |                         |        |
| 0   | 20.9                    | 1,477  | 7.1                     | 987    | 15.3                    | 2,464  |
| 1   | 15.1                    | 9,473  | 8.7                     | 6,471  | 12.5                    | 15,944 |
| 2+  | 27.2                    | 196    | 9.9                     | 1,682  | 11.7                    | 1,878  |
| <b>Nonmarital, noncohabiting partners in past 12 months<sup>1</sup></b>   |                         |        |                         |        |                         |        |
| 0   | 15.2                    | 8,681  | 9.7                     | 5,495  | 13.1                    | 14,176 |
| 1   | 18.8                    | 2,330  | 7.5                     | 2,984  | 12.5                    | 5,314  |
| 2+  | 27.0                    | 135    | 6.0                     | 661    | 9.5                     | 796    |
| <b>Condom use at last sexual intercourse in past 12 months</b>  |                         |        |                         |        |                         |        |
| Used condom   | 28.0                    | 1,347  | 10.1                    | 2,071  | 17.1                    | 3,418  |
| Did not use condom  | 13.3                    | 8,322  | 8.5                     | 6,082  | 11.3                    | 14,404 |
| No sexual intercourse in past 12 months   | 20.9                    | 1,477  | 7.1                     | 987    | 15.3                    | 2,464  |
| <b>Condom use at last sexual intercourse with a nonmarital, noncohabiting partner in past 12 months<sup>1</sup></b> |                         |        |                         |        |                         |        |
| Used condom   | 24.0                    | 842    | 7.0                     | 1,945  | 12.2                    | 2,786  |
| Did not use condom  | 16.8                    | 1,623  | 7.5                     | 1,694  | 12.0                    | 3,317  |
| No sexual intercourse with any nonmarital, noncohabiting partners in past 12 months <sup>1</sup>                    | 15.2                    | 8,681  | 9.7                     | 5,502  | 13.1                    | 14,183 |
| <b>Paid for sexual intercourse in past 12 months</b>  |                         |        |                         |        |                         |        |
| Yes   | na                      | na     | 10.4                    | 613    | na                      | na     |
| Used condom   | na                      | na     | 10.6                    | 330    | na                      | na     |
| Did not use condom  | na                      | na     | 10.3                    | 284    | na                      | na     |
| No (no paid sexual intercourse/no sexual intercourse in last 12 months)   | na                      | na     | 8.6                     | 8,527  | na                      | na     |
| Total 15-49   | 16.1                    | 11,146 | 8.7                     | 9,140  | 12.8                    | 20,286 |
| 50-59   | na                      | na     | 18.0                    | 932    | na                      | na     |
| Total 15-59   | na                      | na     | 9.6                     | 10,073 | na                      | na     |

na = Not applicable

<sup>1</sup> Any partner who was not a spouse and did not live with the respondent

**Table 14.7 HIV prevalence among young people by background characteristics**

Percentage HIV positive among women and men age 15-24 who were tested for HIV, according to background characteristics, Zambia DHS 2018

| Background characteristic  | Women                   |        | Men                     |        | Total                   |        |
|----------------------------|-------------------------|--------|-------------------------|--------|-------------------------|--------|
|                            | Percentage HIV positive | Number | Percentage HIV positive | Number | Percentage HIV positive | Number |
| <b>Age</b>                 |                         |        |                         |        |                         |        |
| 15-19                      | 2.6                     | 2,818  | 1.2                     | 2,738  | 1.9                     | 5,557  |
| 15-17                      | 1.7                     | 1,632  | 1.4                     | 1,593  | 1.6                     | 3,226  |
| 18-19                      | 3.8                     | 1,186  | 0.9                     | 1,145  | 2.4                     | 2,331  |
| 20-24                      | 8.9                     | 2,574  | 2.5                     | 2,023  | 6.1                     | 4,598  |
| 20-22                      | 7.2                     | 1,633  | 1.9                     | 1,307  | 4.8                     | 2,940  |
| 23-24                      | 11.9                    | 941    | 3.7                     | 716    | 8.4                     | 1,657  |
| <b>Marital status</b>      |                         |        |                         |        |                         |        |
| Never married              | 4.8                     | 3,395  | 1.7                     | 4,253  | 3.1                     | 7,648  |
| Ever had sex               | 7.7                     | 1,783  | 1.9                     | 2,511  | 4.3                     | 4,294  |
| Never had sex              | 1.5                     | 1,612  | 1.4                     | 1,742  | 1.5                     | 3,354  |
| Married/living together    | 6.2                     | 1,767  | 1.4                     | 477    | 5.2                     | 2,245  |
| Divorced/separated/widowed | 13.4                    | 231    | (16.9)                  | 31     | 13.9                    | 262    |
| <b>Currently pregnant</b>  |                         |        |                         |        |                         |        |
| Pregnant                   | 4.8                     | 512    | na                      | na     | na                      | na     |
| Not pregnant or not sure   | 5.7                     | 4,881  | na                      | na     | na                      | na     |
| <b>Residence</b>           |                         |        |                         |        |                         |        |
| Urban                      | 7.5                     | 2,489  | 2.7                     | 2,126  | 5.3                     | 4,615  |
| Rural                      | 4.0                     | 2,903  | 1.0                     | 2,636  | 2.6                     | 5,539  |
| <b>Province</b>            |                         |        |                         |        |                         |        |
| Central                    | 6.5                     | 477    | 2.3                     | 422    | 4.5                     | 898    |
| Copperbelt                 | 9.1                     | 870    | 1.3                     | 727    | 5.6                     | 1,598  |
| Eastern                    | 2.8                     | 645    | 0.2                     | 627    | 1.5                     | 1,273  |
| Luapula                    | 6.3                     | 424    | 1.4                     | 393    | 3.9                     | 816    |
| Lusaka                     | 5.5                     | 1,003  | 5.0                     | 837    | 5.3                     | 1,840  |
| Muchinga                   | 1.5                     | 301    | 0.5                     | 263    | 1.0                     | 564    |
| Northern                   | 3.6                     | 430    | 1.8                     | 358    | 2.8                     | 788    |
| North Western              | 6.6                     | 324    | 0.3                     | 251    | 3.8                     | 575    |
| Southern                   | 5.8                     | 602    | 0.9                     | 623    | 3.3                     | 1,225  |
| Western                    | 4.9                     | 316    | 1.1                     | 261    | 3.2                     | 577    |
| <b>Education</b>           |                         |        |                         |        |                         |        |
| No education               | 3.3                     | 188    | 2.4                     | 139    | 2.9                     | 327    |
| Primary                    | 5.1                     | 2,117  | 1.7                     | 1,806  | 3.6                     | 3,923  |
| Secondary                  | 6.2                     | 2,947  | 1.6                     | 2,679  | 4.0                     | 5,626  |
| Higher                     | 3.6                     | 140    | 5.1                     | 138    | 4.4                     | 278    |
| <b>Wealth quintile</b>     |                         |        |                         |        |                         |        |
| Lowest                     | 2.6                     | 960    | 0.6                     | 710    | 1.8                     | 1,670  |
| Second                     | 4.3                     | 945    | 1.4                     | 811    | 2.9                     | 1,756  |
| Middle                     | 6.1                     | 987    | 0.9                     | 995    | 3.5                     | 1,982  |
| Fourth                     | 8.8                     | 1,222  | 2.1                     | 1,100  | 5.6                     | 2,322  |
| Highest                    | 5.4                     | 1,279  | 3.2                     | 1,145  | 4.4                     | 2,424  |
| Total                      | 5.6                     | 5,393  | 1.8                     | 4,762  | 3.8                     | 10,154 |

Note: Figures in parentheses are based on 25-49 unweighted cases.

na = Not applicable

**Table 14.8 HIV prevalence among young people by sexual behaviour**

Percentage HIV positive among women and men age 15-24 who have ever had sex and were tested for HIV, according to sexual behaviour characteristics, Zambia DHS 2018

| Sexual behaviour characteristic   | Women                   |        | Men                     |        | Total                   |        |
|---|-------------------------|--------|-------------------------|--------|-------------------------|--------|
|   | Percentage HIV positive | Number | Percentage HIV positive | Number | Percentage HIV positive | Number |
| <b>Multiple sexual partners in past 12 months</b>                       |                         |        |                         |        |                         |        |
| 0   | 6.0                     | 543    | 1.1                     | 644    | 3.3                     | 1,187  |
| 1   | 7.2                     | 3,148  | 2.3                     | 1,878  | 5.4                     | 5,026  |
| 2+  | 19.2                    | 90     | 1.8                     | 499    | 4.5                     | 588    |
| <b>Nonmarital, noncohabiting partners in past 12 months<sup>1</sup></b> |                         |        |                         |        |                         |        |
| 0   | 6.3                     | 2,343  | 1.4                     | 1,021  | 4.8                     | 3,364  |
| 1   | 8.4                     | 1,365  | 2.3                     | 1,597  | 5.1                     | 2,962  |
| 2+  | 21.1                    | 72     | 2.0                     | 403    | 4.9                     | 475    |
| <b>Condom use at last sexual intercourse in past 12 months</b>          |                         |        |                         |        |                         |        |
| Used condom   | 13.3                    | 596    | 1.5                     | 998    | 5.9                     | 1,594  |
| Did not use condom  | 6.3                     | 2,642  | 2.7                     | 1,378  | 5.0                     | 4,020  |
| No sexual intercourse in past 12 months                                 | 6.0                     | 543    | 1.1                     | 644    | 3.3                     | 1,187  |
| Total   | 7.3                     | 3,781  | 2.0                     | 3,020  | 4.9                     | 6,801  |

<sup>1</sup> Any partner who was not a spouse and did not live with the respondent

**Table 14.9 HIV prevalence by other characteristics**

Percentage HIV positive among women and men age 15-49 who have ever had sex and were tested for HIV, according to whether they had an STI in the past 12 months and prior testing for HIV, Zambia DHS 2018

| Characteristic  | Women                   |        | Men                     |        | Total                   |        |
|---|-------------------------|--------|-------------------------|--------|-------------------------|--------|
|   | Percentage HIV positive | Number | Percentage HIV positive | Number | Percentage HIV positive | Number |
| <b>Sexually transmitted infection in past 12 months</b> |                         |        |                         |        |                         |        |
| Had STI or STI symptoms                                 | 28.1                    | 583    | 15.4                    | 684    | 21.2                    | 1,267  |
| No STI, no symptoms                                     | 15.4                    | 10,558 | 8.2                     | 8,453  | 12.2                    | 19,010 |
| Don't know/missing                                      | *                       | 5      | *                       | 3      | *                       | 9      |
| <b>Prior HIV testing</b>                                |                         |        |                         |        |                         |        |
| Ever tested   | 16.6                    | 10,386 | 9.5                     | 7,667  | 13.6                    | 18,053 |
| Received results  | 16.5                    | 10,238 | 9.5                     | 7,472  | 13.5                    | 17,709 |
| Did not receive results                                 | 24.3                    | 149    | 10.5                    | 195    | 16.5                    | 343    |
| Never tested  | 9.2                     | 760    | 4.6                     | 1,474  | 6.1                     | 2,233  |
| Total 15-49   | 16.1                    | 11,146 | 8.7                     | 9,140  | 12.8                    | 20,286 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

**Table 14.10 Prior HIV testing by current HIV status**

Percent distribution of women and men age 15-49 who tested HIV positive and who tested HIV negative, according to HIV testing status prior to the survey, Zambia DHS 2018

| HIV testing prior to the survey  | Women        |              | Men          |              | Total        |              |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
|  | HIV positive | HIV negative | HIV positive | HIV negative | HIV positive | HIV negative |
| Ever tested for HIV and received the result of the most recent test        | 93.1         | 84.2         | 86.8         | 74.5         | 91.1         | 79.5         |
| Tested in the past 12 months and received the result <sup>1</sup>          | 58.3         | 65.1         | 50.4         | 52.3         | 55.8         | 59.0         |
| Tested 12 or more months ago and received the result <sup>1</sup>          | 34.8         | 19.1         | 36.4         | 22.2         | 35.3         | 20.6         |
| Ever tested for HIV and did not receive the result of the most recent test | 2.4          | 1.6          | 2.5          | 2.1          | 2.4          | 1.9          |
| Not previously tested  | 4.5          | 14.2         | 10.7         | 23.4         | 6.4          | 18.6         |
| Total  | 100.0        | 100.0        | 100.0        | 100.0        | 100.0        | 100.0        |
| Number   | 1,821        | 10,996       | 823          | 10,127       | 2,644        | 21,123       |

<sup>1</sup> Of the most recent HIV test

**Table 14.11 HIV prevalence by male circumcision**

Among men age 15-49 who were tested for HIV, percentage HIV positive by circumcision status, according to background characteristics, Zambia DHS 2018

| Background characteristic | Circumcised                               |        |   |        |                              |        |                         |        |
|---------------------------|---|--------|---|--------|------------------------------|--------|-------------------------|--------|
|                           | Circumcised by health worker/professional |        | Circumcised by traditional practitioner/family/friend |        | All circumcised <sup>1</sup> |        | Uncircumcised           |        |
|                           | Percentage HIV positive                   | Number | Percentage HIV positive                               | Number | Percentage HIV positive      | Number | Percentage HIV positive | Number |
| <b>Age</b>                |   |        |   |        |                              |        |                         |        |
| 15-19                     | 0.9                                       | 861    | 0.0   | 126    | 0.8                          | 993    | 1.4                     | 1,743  |
| 20-24                     | 1.9                                       | 679    | 2.9   | 104    | 2.0                          | 801    | 2.9                     | 1,221  |
| 25-29                     | 4.5                                       | 413    | 0.0   | 102    | 3.6                          | 519    | 6.6                     | 1,168  |
| 30-34                     | 9.6                                       | 284    | 8.9   | 99     | 9.2                          | 391    | 11.8                    | 966    |
| 35-39                     | 17.8                                      | 253    | 11.2  | 106    | 16.6                         | 365    | 13.0                    | 883    |
| 40-44                     | 14.8                                      | 154    | 17.4  | 66     | 15.5                         | 225    | 17.5                    | 817    |
| 45-49                     | 20.8                                      | 111    | 10.9  | 84     | 15.8                         | 205    | 16.8                    | 643    |
| <b>Religion</b>           |   |        |   |        |                              |        |                         |        |
| Catholic                  | 4.3                                       | 470    | 8.2   | 83     | 4.9                          | 562    | 9.2                     | 1,488  |
| Protestant                | 5.9                                       | 2,255  | 6.0   | 587    | 6.0                          | 2,887  | 7.8                     | 5,838  |
| Muslim                    | *   | 13     | *   | 9      | (8.4)                        | 25     | *                       | 24     |
| Other                     | *   | 16     | *   | 8      | (15.6)                       | 24     | 26.4                    | 92     |
| <b>Residence</b>          |   |        |   |        |                              |        |                         |        |
| Urban                     | 6.8                                       | 1,605  | 6.9   | 327    | 6.9                          | 1,966  | 13.0                    | 2,943  |
| Rural                     | 4.1                                       | 1,150  | 6.0   | 360    | 4.6                          | 1,531  | 5.2                     | 4,498  |
| <b>Province</b>           |   |        |   |        |                              |        |                         |        |
| Central                   | 7.3                                       | 199    | (22.5)  | 21     | 8.6                          | 223    | 9.2                     | 736    |
| Copperbelt                | 4.3                                       | 589    | 11.4  | 117    | 5.7                          | 722    | 13.4                    | 969    |
| Eastern                   | 5.0                                       | 200    | *   | 18     | 5.8                          | 227    | 4.3                     | 1,213  |
| Luapula                   | 4.2                                       | 305    | (9.0)   | 18     | 4.4                          | 324    | 6.1                     | 508    |
| Lusaka                    | 6.8                                       | 521    | 10.0  | 113    | 7.2                          | 650    | 11.5                    | 1,473  |
| Muchinga                  | 3.8                                       | 85     | *   | 6      | 4.0                          | 93     | 4.4                     | 491    |
| Northern                  | 3.0                                       | 106    | *   | 8      | 3.3                          | 114    | 4.5                     | 723    |
| North Western             | 4.0                                       | 188    | 1.2   | 237    | 2.6                          | 429    | 5.2                     | 116    |
| Southern                  | 9.2                                       | 320    | (2.1)   | 50     | 8.4                          | 372    | 8.9                     | 993    |
| Western                   | 6.6                                       | 242    | 6.5   | 100    | 6.5                          | 343    | 8.1                     | 218    |
| <b>Education</b>          |   |        |   |        |                              |        |                         |        |
| No education              | (4.9)                                     | 41     | (1.4)   | 20     | 3.6                          | 63     | 6.3                     | 361    |
| Primary                   | 5.3                                       | 730    | 7.5   | 237    | 5.8                          | 983    | 7.3                     | 3,159  |
| Secondary                 | 5.3                                       | 1,644  | 6.1   | 375    | 5.5                          | 2,055  | 8.3                     | 3,446  |
| Higher                    | 8.9                                       | 339    | 6.4   | 54     | 8.5                          | 396    | 16.5                    | 476    |
| <b>Wealth quintile</b>    |   |        |   |        |                              |        |                         |        |
| Lowest                    | 3.4                                       | 277    | 5.5   | 116    | 4.1                          | 397    | 3.7                     | 1,386  |
| Second                    | 4.8                                       | 375    | 6.6   | 119    | 5.2                          | 500    | 5.9                     | 1,412  |
| Middle                    | 6.8                                       | 421    | 2.7   | 136    | 5.8                          | 567    | 6.9                     | 1,611  |
| Fourth                    | 5.4                                       | 715    | 11.9  | 173    | 6.5                          | 910    | 12.1                    | 1,620  |
| Highest                   | 6.4                                       | 967    | 4.2   | 144    | 6.4                          | 1,124  | 12.4                    | 1,412  |
| Total 15-49               | 5.7                                       | 2,755  | 6.5   | 687    | 5.9                          | 3,498  | 8.3                     | 7,441  |
| 50-59                     | 16.4                                      | 90     | 25.4  | 101    | 20.9                         | 195    | 17.2                    | 739    |
| Total 15-59               | 6.0                                       | 2,845  | 8.9   | 788    | 6.7                          | 3,693  | 9.1                     | 8,181  |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Includes all men who report they are circumcised, including men circumcised by medical or traditional practitioners. Also includes those circumcised by other practitioners, those who don't know what practitioner performed their circumcision, and those who did not report a practitioner of circumcision, not shown separately.

**Table 14.12 HIV prevalence among couples**

Percent distribution of couples living in the same household, both of whom were tested for HIV, by HIV status, according to background characteristics, Zambia DHS 2018

| Background characteristic                              | Both HIV positive | Man HIV positive, woman HIV negative | Woman HIV positive, man HIV negative | Both HIV negative | Either undetermined | Total | Number |
|--|-------------------|--------------------------------------|--------------------------------------|-------------------|---------------------|-------|--------|
| <b>Woman's age</b>                                     |                   |                                      |                                      |                   |                     |       |        |
| 15-19  | 1.6               | 0.5                                  | 1.3                                  | 96.5              | 0.0                 | 100.0 | 296    |
| 20-29  | 4.7               | 2.2                                  | 3.4                                  | 89.7              | 0.0                 | 100.0 | 2,164  |
| 30-39  | 10.4              | 4.4                                  | 5.2                                  | 80.0              | 0.0                 | 100.0 | 1,860  |
| 40-49  | 11.6              | 3.2                                  | 6.5                                  | 78.7              | 0.0                 | 100.0 | 1,008  |
| <b>Man's age</b>                                       |                   |                                      |                                      |                   |                     |       |        |
| 15-19  | (0.0)             | (0.0)                                | (1.6)                                | (98.4)            | (0.0)               | 100.0 | 23     |
| 20-29  | 2.8               | 1.2                                  | 3.1                                  | 92.9              | 0.0                 | 100.0 | 1,331  |
| 30-39  | 7.4               | 3.6                                  | 4.3                                  | 84.7              | 0.0                 | 100.0 | 1,946  |
| 40-49  | 9.9               | 4.1                                  | 6.3                                  | 79.7              | 0.0                 | 100.0 | 1,491  |
| 50-59  | 16.3              | 3.3                                  | 4.0                                  | 76.4              | 0.0                 | 100.0 | 538    |
| <b>Age difference between partners</b>                 |                   |                                      |                                      |                   |                     |       |        |
| Woman older  | 8.5               | 3.4                                  | 12.4                                 | 75.7              | 0.0                 | 100.0 | 188    |
| Same age/man older by 0-4 years                        | 6.9               | 2.8                                  | 4.5                                  | 85.8              | 0.0                 | 100.0 | 2,215  |
| Man older by 5-9 years                                 | 6.4               | 2.7                                  | 3.8                                  | 87.0              | 0.0                 | 100.0 | 2,096  |
| Man older by 10-14 years                               | 12.1              | 4.8                                  | 4.1                                  | 79.0              | 0.0                 | 100.0 | 640    |
| Man older by 15+ years                                 | 18.4              | 5.1                                  | 6.2                                  | 70.3              | 0.0                 | 100.0 | 189    |
| <b>Type of union</b>                                   |                   |                                      |                                      |                   |                     |       |        |
| Non-polygynous   | 7.9               | 3.1                                  | 4.6                                  | 84.4              | 0.0                 | 100.0 | 4,866  |
| Polygynous   | 7.1               | 2.5                                  | 3.2                                  | 87.2              | 0.0                 | 100.0 | 417    |
| Don't know/missing                                     | (6.6)             | (12.5)                               | (2.3)                                | (78.6)            | (0.0)               | 100.0 | 45     |
| <b>Multiple partners in past 12 months<sup>1</sup></b> |                   |                                      |                                      |                   |                     |       |        |
| Both no  | 7.7               | 2.9                                  | 4.4                                  | 85.0              | 0.0                 | 100.0 | 4,242  |
| Man yes, woman no                                      | 8.0               | 4.0                                  | 4.2                                  | 83.8              | 0.0                 | 100.0 | 1,049  |
| Woman yes, man no                                      | *                 | *                                    | *                                    | *                 | *                   | 100.0 | 25     |
| Both yes   | *                 | *                                    | *                                    | *                 | *                   | 100.0 | 12     |
| <b>Residence</b>                                       |                   |                                      |                                      |                   |                     |       |        |
| Urban  | 13.1              | 3.9                                  | 7.6                                  | 75.4              | 0.0                 | 100.0 | 1,987  |
| Rural  | 4.7               | 2.6                                  | 2.7                                  | 90.1              | 0.0                 | 100.0 | 3,342  |
| <b>Province</b>  |                   |                                      |                                      |                   |                     |       |        |
| Central  | 8.8               | 3.7                                  | 6.4                                  | 81.2              | 0.0                 | 100.0 | 466    |
| Copperbelt   | 12.1              | 2.8                                  | 5.1                                  | 79.9              | 0.0                 | 100.0 | 670    |
| Eastern  | 5.6               | 1.5                                  | 1.8                                  | 91.1              | 0.0                 | 100.0 | 819    |
| Luapula  | 4.1               | 4.3                                  | 3.2                                  | 88.4              | 0.0                 | 100.0 | 410    |
| Lusaka   | 11.0              | 4.3                                  | 11.1                                 | 73.7              | 0.0                 | 100.0 | 953    |
| Muchinga   | 4.3               | 1.4                                  | 2.0                                  | 92.3              | 0.0                 | 100.0 | 347    |
| Northern   | 3.7               | 2.1                                  | 1.0                                  | 93.2              | 0.0                 | 100.0 | 477    |
| North Western  | 2.5               | 2.5                                  | 2.8                                  | 92.1              | 0.0                 | 100.0 | 247    |
| Southern   | 10.6              | 3.7                                  | 2.4                                  | 83.3              | 0.0                 | 100.0 | 682    |
| Western  | 6.2               | 4.5                                  | 3.0                                  | 86.2              | 0.0                 | 100.0 | 257    |
| <b>Woman's education</b>                               |                   |                                      |                                      |                   |                     |       |        |
| No education   | 4.3               | 2.9                                  | 2.2                                  | 90.7              | 0.0                 | 100.0 | 510    |
| Primary  | 7.3               | 3.2                                  | 4.2                                  | 85.3              | 0.0                 | 100.0 | 2,799  |
| Secondary  | 9.5               | 3.2                                  | 5.3                                  | 82.0              | 0.0                 | 100.0 | 1,789  |
| Higher   | 8.3               | 2.0                                  | 7.6                                  | 82.1              | 0.0                 | 100.0 | 230    |
| <b>Man's education</b>                                 |                   |                                      |                                      |                   |                     |       |        |
| No education   | 3.0               | 2.5                                  | 3.1                                  | 91.5              | 0.0                 | 100.0 | 264    |
| Primary  | 6.4               | 3.3                                  | 2.9                                  | 87.4              | 0.0                 | 100.0 | 2,291  |
| Secondary  | 8.7               | 3.0                                  | 5.8                                  | 82.5              | 0.0                 | 100.0 | 2,302  |
| Higher   | 13.1              | 3.1                                  | 6.7                                  | 77.1              | 0.0                 | 100.0 | 472    |
| <b>Wealth quintile</b>                                 |                   |                                      |                                      |                   |                     |       |        |
| Lowest   | 2.9               | 1.9                                  | 1.9                                  | 93.4              | 0.0                 | 100.0 | 1,144  |
| Second   | 3.9               | 3.1                                  | 2.4                                  | 90.6              | 0.0                 | 100.0 | 1,098  |
| Middle   | 7.3               | 3.5                                  | 4.2                                  | 85.1              | 0.0                 | 100.0 | 1,080  |
| Fourth   | 13.3              | 3.4                                  | 4.9                                  | 78.4              | 0.0                 | 100.0 | 1,093  |
| Highest  | 12.8              | 3.8                                  | 10.4                                 | 73.0              | 0.0                 | 100.0 | 913    |
| Total  | 7.8               | 3.1                                  | 4.5                                  | 84.6              | 0.0                 | 100.0 | 5,328  |

Note: Table is based on couples for whom a valid test result (positive or negative) is available for both partners. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> A respondent is considered to have had multiple sexual partners in the past 12 months if he or she had sexual intercourse with 2 or more people during this time period (respondents with multiple partners include polygynous men who had sexual intercourse with 2 or more wives).

### Key Findings

- **Adult mortality:** One hundred sixty-seven of every 1,000 women and 234 of every 1,000 men age 15 are expected to die before age 50.
- **Maternal mortality:** Maternal deaths account for 10% of all deaths among women age 15–49.
- **Lifetime risk of maternal death:** At current fertility and mortality rates, 1 in every 100 women in Zambia will die from maternal causes.
- **Maternal mortality ratio:** The maternal mortality ratio for the 7-year period before the 2018 ZDHS is estimated at 252 maternal deaths per 100,000 live births.
- **Pregnancy-related mortality ratio:** The estimated pregnancy-related mortality ratio for the 7-year period preceding the 2018 ZDHS is 278 deaths per 100,000 live births.

**A**dult and maternal mortality indicators can be used to assess the health status of a population. According to the 7th National Development Plan 2017–2021, the Government of the Republic of Zambia is committed to improving health services in the country, and reducing maternal mortality is one of the government’s priorities. Particular emphasis has been placed on increasing the proportion of live births attended by skilled providers, understanding where pregnancy complications occur, and enhancing access to emergency obstetric care services (MNDP 2017). According to the Zambia National Health Strategic Plan 2017–2021, the target is to reduce the maternal mortality ratio from 398 deaths per 100,000 live births in 2013–14 to 100 deaths per 100,000 live births by 2021 (MOH 2016). The plan also aims to reduce adult mortality from 24 to 12 deaths per 1,000 population in the same period.

Estimation of mortality rates requires complete and accurate data on adult and maternal deaths. In the 2018 ZDHS, data were collected from all female respondents on the survival of their sisters and brothers to obtain an estimate of adult mortality. Questions were included to determine if any of the sisters’ deaths were maternity-related, which permits an estimation of maternal mortality—a key indicator of maternal health and well-being.

This chapter presents information on the levels of and trends in adult mortality and maternal mortality in Zambia. The chapter includes a summary measure ( $_{35}q_{15}$ ) that represents the probability of dying between exact ages 15 and 50—that is, between the 15th and 50th birthdays.

#### 15.1 DATA

The 2018 ZDHS collected information on sibling history by asking each female respondent to list all children born to her biological mother, starting with the first born. The respondent was then asked whether each of these siblings was still alive. For living siblings, the interviewer asked the current age of each sibling. For deceased siblings, age at death and number of years since death were recorded. When a

respondent could not provide precise information on age at death or years since death, approximate but quantitative answers were accepted.

For every sister and brother who had died, the respondent was asked “Was [NAME]’s death due to an accident or violence?” Estimates of maternal mortality are refined by excluding deaths due to accidents or violence; however, other incidental deaths, such as HIV-related deaths, are not identified and are therefore not excluded. For sisters who died at age 12 or older, three questions were asked to determine whether the death was maternity-related: “Was [NAME OF SISTER] pregnant when she died?” and, if the response was negative, “Did she die during childbirth?” and, if not, “Did she die within 2 months after the end of a pregnancy or childbirth?”

## 15.2 DIRECT ESTIMATES OF ADULT MORTALITY

### Adult mortality rate

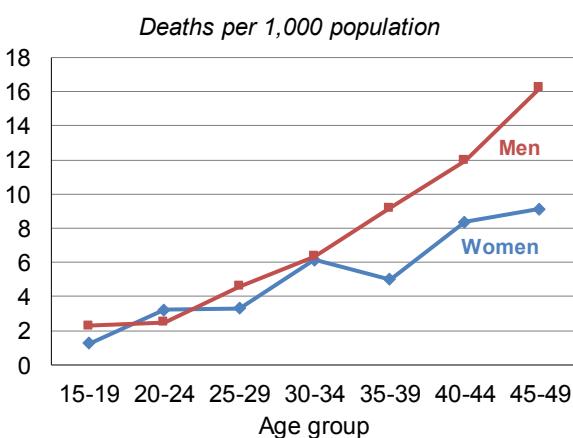
The number of adult deaths per 1,000 population age 15–49. Adult mortality rates by 5-year age groups are calculated as follows: the number of deaths to respondent’s siblings in each age group are divided by the number of person-years of exposure to the risk of dying in that age group during the 7 years preceding the survey. The number of deaths is the number of siblings (brothers or sisters) reported as having died within the 7 years preceding the survey. The person-years of exposure in each age group are calculated for both surviving and dead siblings based on their current age (living siblings) or age at death and years since death (dead siblings).

**Sample:** Siblings (both living and dead) who were age 15–49 in the 7 years preceding the survey, by sex and 5-year age groups.

Evaluating the plausibility and stability of overall adult mortality is one way to assess the quality of the data used to estimate maternal mortality. If the estimated rates of overall adult mortality are implausible, rates based on a subset of deaths (maternal deaths in particular) may have serious problems.

The reported ages at death and years since death of the respondents’ brothers and sisters are used to make direct estimates of adult mortality. Because of differentials in exposure to the risk of dying, this report presents age- and sex-specific death rates. To ensure a sufficiently large number of adult deaths to generate a robust estimate, rates are calculated for the 7-year period before the survey (roughly between mid- to late 2011 and mid- to late 2018). Nevertheless, age-specific mortality rates obtained in this manner are subject to considerable sampling variation. Use of this 7-year period is a compromise between the desire for the most recent data and the need to minimise the level of sampling error.

**Figure 15.1** Adult mortality rates by age



**Table 15.1** and **Figure 15.1** show age-specific mortality rates among women and men age 15–49 for the 7 years before the 2018 ZDHS. Overall, the adult mortality rate is 5.11 per 1,000 population. Mortality is slightly lower among women (4.29 deaths per 1,000 population) than among men (5.92 deaths per 1,000 population). Adult mortality rates generally increase with increasing age and, except for the 20–24 age group, are higher for men than for women (**Figure 15.1**).

### 15.3 TRENDS IN ADULT MORTALITY

**Table 15.2** shows the probability of dying between exact ages 15 and 50 ( $_{35}q_{15}$ ) in the 7 years before the 2018, 2013-14, 2007, and 2001-02 ZDHS surveys;  $_{35}q_{15}$  is the probability that a woman or man who was age 15 in the 7 years before the survey will have died before reaching age 50 (if the age- and gender-specific mortality rates in the 7 years before the survey hold constant). The 2018 ZDHS data show that 167 of every 1,000 women and 234 of every 1,000 men age 15 would be expected to die before age 50.

Since 1996, the probability of dying by age 50 has declined by more than half among women, from 353 per 1,000 to 167 per 1,000. The probability among men has declined by about 43% (from 407 per 1,000 to 234 per 1,000).

### 15.4 DIRECT ESTIMATES OF MATERNAL MORTALITY

#### Maternal mortality rate

The number of maternal deaths per 1,000 women age 15-49. Maternal mortality rates by 5-year age groups are calculated by dividing the number of maternal deaths to female siblings of respondents in each age group by the total person-years of exposure of the sisters to the risk of dying in that age group during the 7 years preceding the survey. The number of deaths is the number of sisters reported as having died in the 7 years preceding the survey either during pregnancy or delivery, or in the 42 days following the delivery or termination of a pregnancy, by their age group at the time of death; deaths due to accident or violence are excluded. The person-years of exposure in each age group are calculated for both surviving and dead sisters based on their reported current age (living sisters) or age at death and years since death (dead sisters).

**Sample:** Sisters (both living and dead) age 15-49 in the 7 years preceding the survey, by 5 year age groups.

#### Maternal mortality ratio

The number of maternal deaths per 100,000 live births. The maternal mortality ratio is calculated by dividing the age-standardised maternal mortality rate for women age 15-49 in the 7 years preceding the survey by the general fertility rate (GFR) for the same time period.

Maternal deaths are a subset of all female deaths; they are defined as any deaths that occur during pregnancy or childbirth or within 42 days after the birth or termination of a pregnancy. Maternal deaths do not include deaths due to accidents or violence. Two methods are generally used to estimate maternal mortality in developing countries: the indirect sisterhood method (Graham et al. 1989) and a direct variant of the sisterhood method (Rutenberg and Sullivan 1991; Stanton et al. 1997). In the 2018 ZDHS, the direct method of estimating maternal mortality was used.

**Table 15.3** presents age-specific direct estimates of maternal mortality from the reported survivorship of sisters for the 7-year period prior to the 2018 ZDHS. These rates were calculated by dividing the number of maternal deaths by woman-years of exposure. To remove the effect of truncation bias (the lower boundary for eligibility among women interviewed in the survey is 15 years, and the upper boundary is 49 years), the overall rate for women age 15-49 was standardised by the age distribution of survey respondents.

- The rate of mortality associated with pregnancy and childbearing in Zambia is 0.40 maternal deaths per 1,000 woman-years of exposure.
- The estimated age-specific mortality rate is highest among women age 45-49 (0.84) and lowest among women age 15-19 (0.04).

- Maternal deaths represent 10% of all deaths among women age 15-49 during the 7-year period preceding the survey.
- The maternal mortality ratio for the 7-year period before the 2018 ZDHS is estimated at 252 maternal deaths per 100,000 live births; that is, for every 1,000 births in Zambia, about three women die during pregnancy, childbirth, or within 42 days of the end of a pregnancy from causes other than an accident or violence (**Table 15.4**). The confidence interval surrounding the maternal mortality estimate is 158 to 347 deaths per 100,000 live births.
- At current fertility and mortality rates, 1% of women in Zambia will die from maternal causes while in the reproductive age range (age 15-49).

## 15.5 TRENDS IN PREGNANCY-RELATED MORTALITY

### Pregnancy-related mortality rate

The number of pregnancy-related deaths per 1,000 women age 15-49. Pregnancy-related mortality rates by 5-year age groups are calculated by dividing the number of pregnancy-related deaths to female siblings of respondents in each age group by the total person-years of exposure of the sisters to the risk of dying in that age group during the 7 years preceding the survey. The number of deaths is the number of sisters reported as having died in the 7 years preceding the survey either during pregnancy or delivery, or in the 2 months following the delivery or termination of a pregnancy, by their age group at the time of death. The person-years of exposure in each age group are calculated for both surviving and dead sisters based on their reported current age (living sisters) or age at death and years since death (dead sisters).

**Sample:** Sisters (both living and dead) age 15-49 in the 7 years preceding the survey, by 5-year age groups.

### Pregnancy-related mortality ratio

The number of pregnancy-related deaths per 100,000 live births. The pregnancy-related mortality ratio is calculated by dividing the age-standardised pregnancy-related mortality rate for women age 15-49 in the 7 years preceding the survey by the general fertility rate (GFR) for the same time period.

The previous ZDHS surveys used a definition of maternal mortality that included deaths due to accidents or violence; thus, the results of those surveys cannot be compared with the 2018 ZDHS maternal mortality estimate presented in section 15.4. To produce an indicator suitable for comparison with estimates from previous ZDHS surveys, the 2018 ZDHS defines a pregnancy-related death as the death of a woman during pregnancy or childbirth or within 2 months of delivery or termination of a pregnancy, irrespective of the cause of death. What the current ZDHS defines as a pregnancy-related death had been labelled a maternal death in prior ZDHS surveys. Estimates of pregnancy-related mortality are therefore based solely on the timing of the death in relationship to the pregnancy. Note that this definition varies from the WHO definition of a pregnancy-related death, which limits the window to 42 days.

|                        | <b>Maternal mortality (MMR)</b>   | <b>Pregnancy-related mortality (PRMR)</b>   |
|------------------------|---|---|
| Comparing MMR and PRMR | Women who died when pregnant, during delivery, or within 42 days of delivery or the termination of a pregnancy, except when death was due to accident or violence | Women who died when pregnant, during delivery, or within 2 months of delivery or the termination of a pregnancy, including deaths due to accident or violence |

The estimated pregnancy-related mortality ratio (PRMR) for the 7-year period preceding the 2018 ZDHS is 278 deaths per 100,000 live births; that is, for every 1,000 births in Zambia, about three women die during pregnancy or within 2 months of the end of a pregnancy from any cause, including accidents or violence (Figure 15.2).

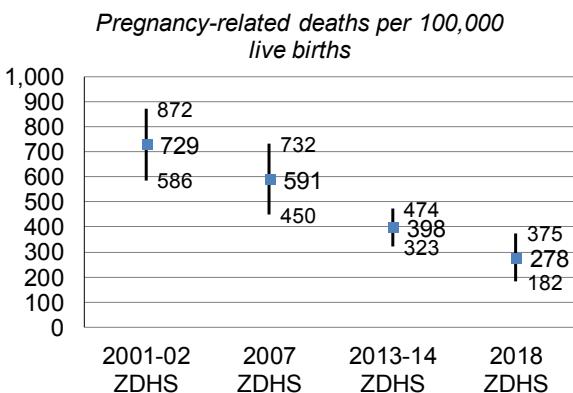
There has been an overall downward trend in the PRMR since 2001-02. However, the confidence intervals surrounding the 2018 ZDHS and 2013-14 ZDHS PRMR estimates overlap, meaning that the PRMR between the two surveys could have remained the same (Table 15.5).

## LIST OF TABLES

For more information on adult and maternal mortality, see the following tables:

- **Table 15.1 Adult mortality rates**
- **Table 15.2 Adult mortality probabilities**
- **Table 15.3 Maternal mortality**
- **Table 15.4 Maternal mortality ratio**
- **Table 15.5 Pregnancy-related mortality trends**

**Figure 15.2 Trends in the pregnancy-related mortality ratio (PRMR) with confidence intervals**



Note: PRMR includes all deaths during pregnancy, delivery, and within 2 months of the end of a pregnancy; it includes deaths due to accident and violence during these time periods. This indicator is consistent with how data were collected in previous surveys but is different than the MMR estimate in Table 15.3.

**Table 15.1 Adult mortality rates**

Direct estimates of female, male, and total mortality rates for the 7 years preceding the survey, by 5-year age groups, Zambia DHS 2018

| Age         | Deaths | Exposure years | Mortality rates <sup>1</sup> |
|-------------|--------|----------------|------------------------------|
| FEMALE      |        |                |                              |
| 15-19       | 38     | 29,965         | 1.25                         |
| 20-24       | 106    | 32,845         | 3.22                         |
| 25-29       | 102    | 30,732         | 3.31                         |
| 30-34       | 165    | 26,776         | 6.16                         |
| 35-39       | 99     | 19,782         | 5.02                         |
| 40-44       | 104    | 12,418         | 8.36                         |
| 45-49       | 67     | 7,354          | 9.13                         |
| Total 15-49 | 680    | 159,873        | 4.29 <sup>a</sup>            |
| MALE        |        |                |                              |
| 15-19       | 65     | 28,624         | 2.28                         |
| 20-24       | 82     | 33,036         | 2.49                         |
| 25-29       | 144    | 31,160         | 4.61                         |
| 30-34       | 170    | 26,800         | 6.36                         |
| 35-39       | 188    | 20,406         | 9.19                         |
| 40-44       | 164    | 13,729         | 11.97                        |
| 45-49       | 120    | 7,389          | 16.24                        |
| Total 15-49 | 934    | 161,144        | 5.92 <sup>a</sup>            |
| TOTAL       |        |                |                              |
| 15-19       | 103    | 58,590         | 1.75                         |
| 20-24       | 188    | 65,881         | 2.86                         |
| 25-29       | 245    | 61,893         | 3.97                         |
| 30-34       | 335    | 53,576         | 6.26                         |
| 35-39       | 287    | 40,189         | 7.14                         |
| 40-44       | 268    | 26,146         | 10.26                        |
| 45-49       | 187    | 14,743         | 12.70                        |
| Total 15-49 | 1,614  | 321,017        | 5.11 <sup>a</sup>            |

<sup>1</sup> Expressed per 1,000 population

<sup>a</sup> Age-adjusted rate

**Table 15.2 Adult mortality probabilities**

The probability of dying between ages 15 and 50 for women and men during the 7 years preceding the survey, Zambia DHS 2018

| Survey       | Female<br>${}_35q_{15}^1$ | Male<br>${}_35q_{15}^1$ |
|--------------|---------------------------|-------------------------|
| 2018 ZDHS    | 167                       | 234                     |
| 2013-14 ZDHS | 294                       | 330                     |
| 2007 ZDHS    | 421                       | 415                     |
| 2001-02 ZDHS | 446                       | 471                     |
| 1996 ZDHS    | 353                       | 407                     |

<sup>1</sup> The probability of dying between exact ages 15 and 50, expressed per 1,000 persons at age 15

**Table 15.3 Maternal mortality**

Direct estimates of maternal mortality rates for the 7 years preceding the survey, by 5-year age groups, Zambia DHS 2018

| Age         | Percentage of female deaths that are maternal | Maternal deaths <sup>1</sup> | Exposure years | Maternal mortality rate <sup>2</sup> |
|-------------|---|------------------------------|----------------|--------------------------------------|
| 15-19       | 3.5   | 1                            | 29,965         | 0.04                                 |
| 20-24       | 19.5  | 21                           | 32,845         | 0.63                                 |
| 25-29       | 15.7  | 16                           | 30,732         | 0.52                                 |
| 30-34       | 9.3   | 15                           | 26,776         | 0.57                                 |
| 35-39       | 3.6   | 4                            | 19,782         | 0.18                                 |
| 40-44       | 3.8   | 4                            | 12,418         | 0.32                                 |
| 45-49       | 9.2   | 6                            | 7,354          | 0.84                                 |
| Total 15-49 | 9.8   | 67                           | 159,873        | 0.40 <sup>a</sup>                    |

<sup>1</sup> A maternal death is defined as the death of a woman while pregnant or within 42 days of termination of pregnancy, from any cause except accidents or violence.

<sup>2</sup> Expressed per 1,000 woman-years of exposure

<sup>a</sup> Age-adjusted rate

**Table 15.4 Maternal mortality ratio**

Total fertility rate, general fertility rate, maternal mortality ratio, and lifetime risk of maternal death for the 7 years preceding the survey, Zambia DHS 2018

|  |       |               |  |
|--|-------|---------------|--|
| Total fertility rate (TFR)                   | 5.0   |               |  |
| General fertility rate (GFR) <sup>1</sup>    | 160   |               |  |
| Maternal mortality ratio (MMR) <sup>2</sup>  | 252   | CI: (158-347) |  |
| Lifetime risk of maternal death <sup>3</sup> | 0.012 |               |  |

CI: Confidence interval

<sup>1</sup> Age-adjusted rate, expressed per 1,000 women age 15-49

<sup>2</sup> Expressed per 100,000 live births; calculated as the age-adjusted maternal mortality rate (shown in Table 15.3) times 100 divided by the age-adjusted general fertility rate

<sup>3</sup> Calculated as  $1 - (1 - \text{MMR})^{\text{TFR}}$ , where TFR represents the total fertility rate for the 7 years preceding the survey

**Table 15.5 Pregnancy-related mortality trends**

Direct estimates of pregnancy-related mortality rates for the 7 years preceding each survey, by 5-year age groups, Zambia DHS 2018

| Age   | Pregnancy-related mortality rates <sup>1,2</sup> |                |           |
|---|--|----------------|-----------|
|   | 2011-2018  | 2006/7-2013/14 | 2000-2007 |
| 15-19   | 0.04   | 0.10           | 0.28      |
| 20-24   | 0.64   | 0.53           | 0.73      |
| 25-29   | 0.57   | 0.41           | 1.33      |
| 30-34   | 0.63   | 1.52           | 2.26      |
| 35-39   | 0.27   | 1.31           | 2.13      |
| 40-44   | 0.32   | 0.92           | 1.20      |
| 45-49   | 1.02   | 1.18           | 1.00      |
| Total 15-49 <sup>a</sup>                              | 0.45   | 0.74           | 1.17      |
| Total fertility rate (TFR)                            | 5.0  | 5.3            | 6.2       |
| General fertility rate (GFR) <sup>3</sup>             | 160  | 184            | 214       |
| Pregnancy-related mortality ratio (PRMR) <sup>4</sup> | 278  | 398            | 591       |
| Confidence interval                                   | (182-375)  | (323-474)      | (450-732) |
| Lifetime risk of pregnancy-related death <sup>5</sup> | 0.014  | 0.023          | 0.035     |

<sup>1</sup> Pregnancy-related mortality is defined as the death of a woman while pregnant or within 2 months of termination of pregnancy from any cause, including accidents or violence.

<sup>2</sup> Expressed per 1,000 woman-years of exposure

<sup>3</sup> Age-adjusted rate, expressed per 1,000 women age 15-49

<sup>4</sup> Expressed per 100,000 live births; calculated as the age-adjusted pregnancy-related mortality rate times 100 divided by the age-adjusted general fertility rate

<sup>5</sup> Calculated as  $1 - (1 - \text{PRMR})^{\text{TFR}}$ , where TFR represents the total fertility rate for the 7 years preceding the survey

<sup>a</sup> Age-adjusted rate



### Key Findings

- **Decision on how wife's cash earnings are used:** Thirty-one percent of married women mainly decide on their own how to use their cash earnings.
- **Ownership of house and land:** Among both women and men, ownership of a house or land is higher in rural areas than in urban areas.
- **Women's participation in decision making:** Fifty-seven percent of currently married women make decisions either alone or jointly with their husband about their own health care, daily household purchases, major household purchases, and visits to their family and relatives.
- **Attitude towards wife beating:** Forty-six percent of women agree with at least one specified reason justifying wife beating, as compared with 26% of men age 15-49.
- **Negotiating sexual relations:** Men (66%) are more likely than women (56%) to believe that a woman is justified in refusing sex when she knows that her husband has sex with other women.

This chapter explores women's empowerment in terms of employment, earnings, control over earnings, and magnitude of earnings relative to those of their partners. In addition, responses to specific questions are used to define two different indicators of women's empowerment: women's participation in household decision making and women's attitudes towards wife beating.

The Government of the Republic of Zambia is committed to promoting women's empowerment and has taken steps to do so through the Gender Equity and Equality Rights Act, 2015. This act is aimed at domesticating international human rights documents such as the Convention on the Elimination of All Forms of Discrimination Against Women; the Southern African Development Community Protocols on Gender and Development, 2008; and the Protocol to the African Charter on Human and People's Rights on the Rights of Women in Africa, 2003. Furthermore, the act gives effect to the Convention on the Elimination of All Forms of Discrimination against Women and is intended to implement women's empowerment targets that meet international standards with respect to political, social, economic, and cultural issues (MGCD 2015).

## 16.1 MARRIED WOMEN'S AND MEN'S EMPLOYMENT

### Employment

Respondents are considered to be employed if they have done any work other than their housework in the 12 months before the survey.

**Sample:** Currently married women and men age 15-49

### Earning cash for employment

Respondents are asked if they are paid for their labour in cash or in-kind. Only those who receive payment in cash only or in cash and in-kind are considered to earn cash for their employment.

**Sample:** Currently married women and men age 15-49 employed in the 12 months before the survey

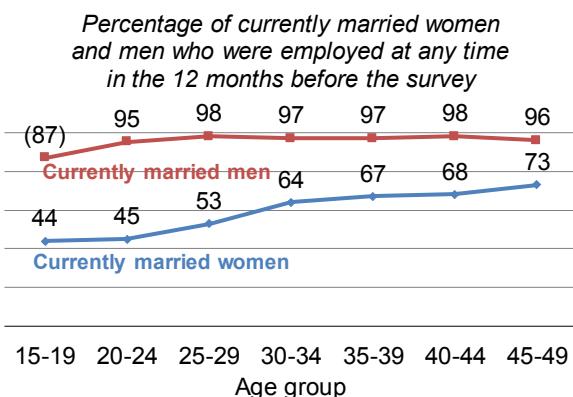
Fifty-nine percent of currently married women age 15-49 were employed in the 12 months before the survey, as compared with 97% of currently married men in the same age group (**Table 16.1**). Women are less likely than men to be paid for their work in cash only (62% and 68%, respectively). Furthermore, 17% of women who were employed in the 12 months prior to the survey were not paid for the work, compared with 11% of men.

**Trends:** The percentage of currently married women who were employed in the 12 months prior to the survey increased from 51% in 1996 to 61% in 2007. However, it then declined to 59% in 2013-14 and remained the same in 2018. The percentage among currently married men increased from 95% in 1996 to 97% in 2018.

### Patterns by background characteristics

- Among currently married women, employment rises with increasing age, from 44% among those age 15-19 to 73% among those age 45-49. However, no such clear pattern is observed among married men (**Figure 16.1**).
- The percentage of married women and men who are not paid for their employment is highest among those age 20-24 (24% and 15%, respectively).

**Figure 16.1 Employment by age**



Note: Figures in parentheses are based on 25-49 unweighted cases.

## 16.2 CONTROL OVER WOMEN'S EARNINGS

### Control over one's own cash earnings

Respondents are considered to have control over their own earnings if they participate in decisions alone or jointly with their spouse about how their own earnings will be used.

**Sample:** Currently married women and men age 15-49 who received cash earnings for employment during the 12 months before the survey

Women gain direct access to economic resources when they are employed for cash. However, this access is meaningless unless women also control how their earnings are used. This section analyses the percent distribution of currently married women who were employed and received cash earnings in the past 12 months according to the person who controls their earnings and the extent of their earnings in comparison to their husbands. Overall, 31% of women reported that they mainly decide how to use their earnings, 51%

reported that they make decisions jointly with their husband, and 18% indicated that their husband mainly decides on how to use their earnings.

Ten percent of women reported that they earn more than their husbands, while 69% earn less than their husbands and 16% earn about the same. Four percent of women reported that their husband had no earnings (**Table 16.2.1** and **Figure 16.2**).

**Trends:** The percentage of married women who mainly decide on their own how their cash earnings are used has steadily declined over time, from 41% in 2001-02 to 31% in 2018. However, during the same period, the percentage of women who made joint decisions with their husband increased from 31% to 51%.

#### Patterns by background characteristics

- The percentage of women who earn more than their husband increases with increasing age (**Table 16.2.1**).
- Women in rural areas (23%) are more likely than their urban counterparts (9%) to earn about the same as their husband.
- Women with a higher education are more likely to make joint decisions with their husband on how their cash earnings are spent (73%) than women at lower educational levels (47% to 49%).
- The percentage of women indicating that their husband mainly makes decisions on their earnings decreases with increasing education, from 30% among those with no education to 7% among those with a higher education.

### 16.3 CONTROL OVER MEN'S EARNINGS

Married men with cash earnings and married women whose husbands have cash earnings were asked who makes decisions about how the man's earnings are used. Over half of both men and women report that decisions about the use of the man's earnings are made jointly (56% and 57%, respectively).

Approximately one-third of men (35%) and women (33%) say that the husband decides on how his earnings are used. Relatively few men or women report that the wife decides on how the husband's cash earnings will be used (9% and 10%, respectively) (**Table 16.2.2**).

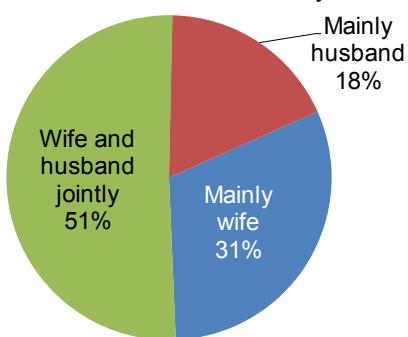
#### Patterns by background characteristics

- More than half of married men in both urban (58%) and rural (54%) areas indicated that they make joint decisions on the use of their earnings, and at least one-third of urban (33%) and rural (37%) men mainly make their own decisions.
- Men with a higher education (78%) and those in the highest wealth quintile (69%) are most likely to make joint decisions with their wife on how their earnings are used.

**Trends:** The percentage of currently married men age 15-49 who report joint control of their earnings has declined over time, from 66% in 2007 to 56% in 2018. During the same period, the percentage of women reporting joint control of their husband's earnings has increased from 45% to 57%.

**Figure 16.2 Control over women's earnings**

*Percent distribution of currently married women with cash earnings in the 12 months before the survey*



## 16.4 WOMEN'S AND MEN'S OWNERSHIP OF ASSETS

### Ownership of a house or land

Respondents who own a house or land, whether alone or jointly with someone else

**Sample:** Women and men age 15-49

Ownership and control of assets such as land and housing provide multiple benefits to individuals and households, including a secure place to live, livelihoods, and collateral. The 2018 ZDHS collected information on women's and men's ownership of assets, regardless of whether the assets were self-owned or jointly owned. Overall, women are more likely to share ownership of a house (22%) than men (14%). Conversely, men (17%) are more likely than women (8%) to own a house alone. Similarly, a higher percentage of women than men reported sharing ownership of land (18% versus 12%), while a higher percentage of men than women own land alone (15% versus 6%) (**Tables 16.4.1** and **16.4.2**).

#### Patterns by background characteristics

- More men and women in rural areas own a house or land than their urban counterparts.
- By province, the percentage of women who do not own a house ranges from 39% in Eastern to 85% in Copperbelt. The pattern is similar among men, ranging from 44% in Eastern to 82% in Copperbelt and Lusaka.
- The percentage of women who do not own land ranges from 45% in Eastern to 92% in Copperbelt. Among men, the percentage ranges from 44% in Northern to 89% in Copperbelt.
- Generally, house and land ownership among men decreases with increasing education and household wealth.

#### 16.4.1 Documentation of Ownership of Assets

Documentation of ownership of assets is important for security of tenure and to leverage or liquidate assets. Eight in 10 women (81%) and 9 in 10 men (91%) age 15-49 who own a house do not possess a title or deed for the house. Similarly, 9 in 10 women (89%) and men (94%) who own land do not have a title or deed for their land (**Tables 16.5.1**, **16.5.2**, **16.6.1**, and **16.6.2**).

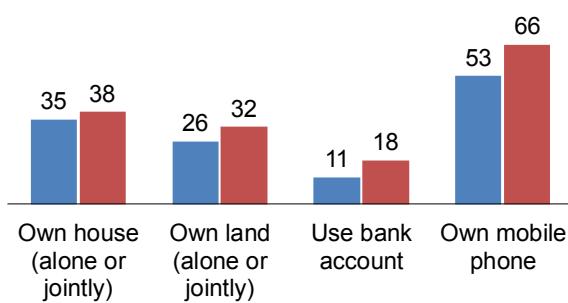
#### 16.4.2 Bank Accounts and Mobile Phones

Ownership of a bank account and a mobile phone are reflections of autonomy and financial independence. Women and men interviewed in the 2018 ZDHS were asked if they have an account in a bank or other financial institution that they use and if they own a mobile phone. Those who own phones were also asked if they use the phone for financial transactions. Eleven percent of women age 15-49 have and use a bank account for financial transactions, as compared with 18% of men. More than half of women (53%) and men (66%) owned mobile phones at the time of the survey (**Tables 16.7.1** and **16.7.2**). Among those who owned mobile phones, 53% of both women and men reporting using their phones for financial transactions (**Figure 16.3**).

**Figure 16.3 Ownership of assets**

Percentage of women and men age 15-49 by ownership of specific items

■ Women ■ Men



## 16.5 WOMEN'S PARTICIPATION IN DECISION MAKING

### Participation in major household decisions

Women are considered to participate in household decisions if they make decisions alone or jointly with their husband in all four of the following areas: (1) the woman's own health care, (2) daily household purchases, (3) major household purchases, and (4) visits to the woman's family or relatives.

**Sample:** Currently married women age 15-49

In many African countries, including Zambia, women are considered to have low decision-making power in their households. The overall development of women's empowerment depends on women's ability to make decisions that affect their personal welfare. The 2018 ZDHS collected information from currently married women on their participation in decisions about their own health care, daily household purchases, major household purchases, and visits to their family and relatives.

Overall, 57% of currently married women age 15-49 make decisions either alone or jointly with their husband in all four specified areas. Women were most likely to report making decisions on daily household purchases (86%) and decisions concerning their own health care (81%). Seventy-seven percent of women indicated that they participated in making decisions about visiting their family or relatives, while 68% made decisions on major household purchases (**Table 16.9.1**). Among currently married men age 15-49, 82% made decisions regarding their own health care and 87% made decisions concerning major household purchases (**Table 16.9.2**). These findings show that while men and women have similar decision-making power in certain respects, women lag behind in terms of having control over making major household purchases.

### Patterns by background characteristics

- Sixty-one percent of women who are employed for cash make decisions in all four areas, as compared with 56% of those who are not employed and 42% of those who are employed but do not earn cash.
- Women in urban areas (68%) are more likely than those in rural areas (49%) to make decisions in all four areas.
- The percentage of women who make decisions in all four areas is higher in North Western (85%) and Lusaka (77%) than in other provinces.
- The higher their educational level, the more women tend to make decisions in all four areas. Similarly, women in the highest wealth quintile are most likely to make decisions in all four areas.

## 16.6 ATTITUDES TOWARD WIFE BEATING

### Attitudes toward wife beating

Respondents are asked if they agree that a husband is justified in hitting or beating his wife under each of the following five circumstances: she burns the food, she argues with him, she goes out without telling him, she neglects the children, and she refuses to have sex with him. If respondents answer "yes" in at least one circumstance, they are considered to have attitudes justifying wife beating.

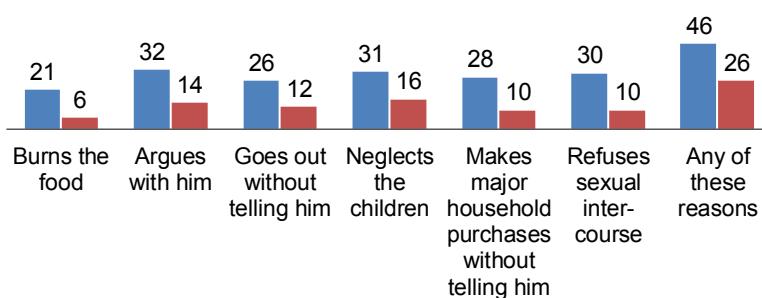
**Sample:** Women and men age 15-49

A greater percentage of women (46%) than men (26%) age 15-49 agree that a husband is justified in hitting or beating his wife for at least one of the specified reasons (**Table 16.10.1**, **Table 16.10.2**, and **Figure 16.4**). Approximately one in three women agree that a husband is justified in hitting or beating his wife if she argues with him (32%), neglects the children (31%), or refuses to have sexual intercourse with him (30%). Twenty-eight percent of women believe that wife beating is justified if a wife makes major household purchases without telling her husband, 26% agree that wife beating is justified if she goes out without telling her husband, and 21% believe that wife beating is justified if she burns the food (**Table 16.10.1**).

**Figure 16.4 Attitudes towards wife beating**

*Percentage of women and men age 15-49 who agree that a husband is justified in beating his wife for specific reasons*

■ Women ■ Men



**Trends:** The percentage of women who agree that a husband is justified in hitting or beating his wife for at least one specific reason has declined over time, from 85% in 2002 to 46% in 2018. There has also been a decline in the percentage of women agreeing with each of the specified reasons.

#### Patterns by background characteristics

- Sixty percent of women who are employed but do not earn cash agree that a husband is justified in beating his wife for at least one specified reason.
- Fifty percent of women who are married or living together with a man agree that a husband is justified in hitting or beating his wife for at least one specified reason, as compared with 44% of divorced, separated, or widowed women and 40% of never-married women.
- Women in rural areas (54%) are more likely than those in urban areas (37%) to agree that a husband is justified in hitting or beating his wife for at least one specified reason.
- Women in Northern (72%), Luapula (70%), and Muchinga (64%) are most likely to agree that a husband is justified in hitting or beating his wife for at least one specified reason.
- The percentage of women who agree that a husband is justified in hitting or beating his wife for any specified reason generally declines with increasing education and household wealth.

## 16.7 NEGOTIATING SEXUAL RELATIONS

To assess attitudes toward negotiating safer sexual relations, women and men were asked whether they thought that a wife is justified in refusing to have sexual intercourse with her husband if she knows he has sex with other women or asking that he use a condom if she knows he has a sexually transmitted infection (STI). Women were also asked whether they thought it was justified for a wife to refuse sexual intercourse with her husband if she knows he has an STI. More men (66%) age 15-49 than women (56%) believe that a woman is justified in refusing to have sexual intercourse with her husband if she knows he has sex with other women. Similarly, 81% of men believe that a woman is justified in asking her husband to use a condom when she knows that he has an STI, as compared with 73% of women (**Table 16.11**).

## **Patterns by background characteristics**

- Women (59%) and men (72%) in urban areas are more likely to believe that a woman is justified in refusing sexual intercourse with her husband when she knows that he has sex with other women than women (52%) and men (61%) in rural areas.
- Similarly, a greater percentage of men and women in urban areas (82% and 75%, respectively) than rural areas (80% and 71%, respectively) believe that a woman is justified in asking her husband to use a condom when she knows he has an STI.

### ***Ability to Negotiate Sexual Relations with Husband***

To assess the ability of women to actually negotiate safer sexual relations with their husbands, women were asked whether they can say no to their husband if they do not want to have sexual intercourse. Women were also asked whether they can ask their husband to use a condom.

Sixty-five percent of currently married women age 15-49 indicated that they can say no to their husbands if they do not want to have sexual intercourse, and 72% said that they can ask their husbands to use a condom (**Table 16.12**).

For information on women's empowerment indicators, see **Table 16.13**. For information on family planning, reproductive health care, and child mortality by women's empowerment indicators, see **Tables 16.14, 16.15, 16.16, and 16.17**.

## **16.8 WIDOWS DISPOSSESSED OF PROPERTY**

Among ever-widowed women age 15-49, nearly half (47%) were dispossessed of their husband's property (that is, after their late husband's death, none of his assets went to them). For information on widows dispossessed of property, see **Table 16.18**.

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**Table 16.1 Employment and cash earnings of currently married women and men**

Percentage of currently married women and men age 15-49 who were employed at any time in the past 12 months and percent distribution of currently married women and men employed in the past 12 months by type of earnings, according to age, Zambia DHS 2018

| Age         | Percentage<br>employed in<br>past 12<br>months | Number of<br>respondents | Percent distribution of currently married respondents employed in<br>the past 12 months, by type of earnings |                      |              |          |                        | Total   | Number of<br>respondents |
|-------------|--|--------------------------|--|----------------------|--------------|----------|------------------------|---------|--------------------------|
|             |  |                          | Cash only  | Cash and in-<br>kind | In-kind only | Not paid | Missing/<br>don't know |         |                          |
| WOMEN       |  |                          |  |                      |              |          |                        |         |                          |
| 15-19       | 43.5   | 437                      | 46.3   | 26.9                 | 3.8          | 22.9     | 0.0                    | 100.0   | 190                      |
| 20-24       | 45.2   | 1,438                    | 52.8   | 20.8                 | 2.4          | 24.0     | 0.0                    | 100.0   | 650                      |
| 25-29       | 53.0   | 1,544                    | 63.5   | 19.2                 | 1.7          | 15.7     | 0.0                    | 100.0   | 818                      |
| 30-34       | 63.9   | 1,396                    | 66.4   | 17.7                 | 0.7          | 15.2     | 0.0                    | 100.0   | 893                      |
| 35-39       | 67.0   | 1,307                    | 68.5   | 15.6                 | 1.0          | 15.0     | 0.0                    | 100.0   | 876                      |
| 40-44       | 67.8   | 908                      | 62.2   | 22.2                 | 1.1          | 14.5     | 0.0                    | 100.0   | 615                      |
| 45-49       | 73.2   | 618                      | 56.4   | 21.2                 | 2.6          | 19.8     | 0.0                    | 100.0   | 452                      |
| Total 15-49 | 58.8   | 7,648                    | 61.9   | 19.4                 | 1.5          | 17.2     | 0.0                    | 100.0   | 4,495                    |
| MEN         |  |                          |  |                      |              |          |                        |         |                          |
| 15-19       | (87.3)   | 31                       | (40.8)   | (45.6)               | (0.0)        | (13.6)   | (0.0)                  | (100.0) | 27                       |
| 20-24       | 94.7   | 459                      | 57.3   | 25.9                 | 2.1          | 14.7     | 0.0                    | 100.0   | 435                      |
| 25-29       | 98.2   | 1,090                    | 70.9   | 18.2                 | 2.0          | 8.9      | 0.0                    | 100.0   | 1,071                    |
| 30-34       | 96.8   | 1,138                    | 68.0   | 19.7                 | 0.9          | 11.5     | 0.0                    | 100.0   | 1,102                    |
| 35-39       | 97.0   | 1,104                    | 70.4   | 17.1                 | 0.9          | 11.6     | 0.0                    | 100.0   | 1,071                    |
| 40-44       | 97.9   | 968                      | 67.8   | 19.1                 | 1.1          | 12.0     | 0.0                    | 100.0   | 948                      |
| 45-49       | 96.4   | 781                      | 65.2   | 22.3                 | 1.2          | 11.3     | 0.0                    | 100.0   | 753                      |
| Total 15-49 | 97.0   | 5,572                    | 67.6   | 19.8                 | 1.3          | 11.3     | 0.0                    | 100.0   | 5,406                    |
| 50-59       | 91.8   | 856                      | 56.4   | 23.9                 | 1.9          | 17.7     | 0.0                    | 100.0   | 787                      |
| Total 15-59 | 96.3   | 6,428                    | 66.2   | 20.3                 | 1.4          | 12.1     | 0.0                    | 100.0   | 6,193                    |

Note: Figures in parentheses are based on 25-49 unweighted cases.

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**Table 16.2.1 Control over women's cash earnings and relative magnitude of women's cash earnings**

Percent distribution of currently married women age 15-49 who received cash earnings for employment in the 12 months preceding the survey by person who decides how the wife's cash earnings are used and by whether she earned more or less than her husband, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Person who decides how the wife's cash earnings are used: |                          |                |       | Wife's cash earnings compared with husband's cash earnings: |      |      |                |                         | Number of women |       |       |
|----------------------------------|---|--------------------------|----------------|-------|---|------|------|----------------|-------------------------|-----------------|-------|-------|
|                                  | Mainly wife   | Wife and husband jointly | Mainly husband | Other | Total   | More | Less | About the same | Husband has no earnings |                 |       |       |
| <b>Age</b>                       |   |                          |                |       |   |      |      |                |                         |                 |       |       |
| 15-19                            | 22.3  | 37.7                     | 38.8           | 1.2   | 100.0   | 4.1  | 61.5 | 28.5           | 4.8                     | 1.0             | 100.0 | 139   |
| 20-24                            | 25.2  | 50.2                     | 24.5           | 0.1   | 100.0   | 6.7  | 73.3 | 13.8           | 4.2                     | 2.0             | 100.0 | 479   |
| 25-29                            | 31.6  | 52.3                     | 15.8           | 0.2   | 100.0   | 7.2  | 74.2 | 14.7           | 3.0                     | 0.9             | 100.0 | 676   |
| 30-34                            | 32.2  | 51.4                     | 16.0           | 0.3   | 100.0   | 10.3 | 71.3 | 15.2           | 2.2                     | 0.9             | 100.0 | 751   |
| 35-39                            | 32.1  | 52.1                     | 15.7           | 0.0   | 100.0   | 10.0 | 68.7 | 15.9           | 3.7                     | 1.7             | 100.0 | 736   |
| 40-44                            | 33.1  | 47.3                     | 19.5           | 0.0   | 100.0   | 12.0 | 62.7 | 18.0           | 4.1                     | 3.2             | 100.0 | 519   |
| 45-49                            | 32.7  | 51.8                     | 15.5           | 0.0   | 100.0   | 13.7 | 59.5 | 19.5           | 5.4                     | 1.8             | 100.0 | 351   |
| <b>Number of living children</b> |   |                          |                |       |   |      |      |                |                         |                 |       |       |
| 0                                | 27.2  | 55.6                     | 16.0           | 1.1   | 100.0   | 11.9 | 62.6 | 18.9           | 6.6                     | 0.0             | 100.0 | 116   |
| 1-2                              | 31.6  | 50.6                     | 17.7           | 0.1   | 100.0   | 9.0  | 71.2 | 15.2           | 3.0                     | 1.6             | 100.0 | 1,167 |
| 3-4                              | 31.9  | 51.0                     | 16.8           | 0.2   | 100.0   | 10.0 | 69.8 | 14.8           | 3.5                     | 2.0             | 100.0 | 1,165 |
| 5+                               | 29.8  | 49.4                     | 20.7           | 0.0   | 100.0   | 9.4  | 66.3 | 18.9           | 4.0                     | 1.4             | 100.0 | 1,204 |
| <b>Residence</b>                 |   |                          |                |       |   |      |      |                |                         |                 |       |       |
| Urban                            | 41.2  | 47.8                     | 10.8           | 0.2   | 100.0   | 12.3 | 74.4 | 8.8            | 2.7                     | 1.9             | 100.0 | 1,711 |
| Rural                            | 21.9  | 52.9                     | 25.0           | 0.2   | 100.0   | 7.1  | 63.9 | 23.1           | 4.4                     | 1.4             | 100.0 | 1,941 |
| <b>Province</b>                  |   |                          |                |       |   |      |      |                |                         |                 |       |       |
| Central                          | 30.2  | 60.5                     | 9.3            | 0.0   | 100.0   | 8.5  | 67.5 | 21.1           | 1.7                     | 1.2             | 100.0 | 330   |
| Copperbelt                       | 46.8  | 44.7                     | 8.4            | 0.1   | 100.0   | 12.3 | 72.2 | 8.4            | 4.7                     | 2.4             | 100.0 | 530   |
| Eastern                          | 24.6  | 44.0                     | 30.9           | 0.4   | 100.0   | 7.1  | 68.3 | 20.0           | 2.2                     | 2.5             | 100.0 | 473   |
| Luapula                          | 15.3  | 55.8                     | 28.5           | 0.4   | 100.0   | 3.7  | 68.0 | 23.4           | 4.7                     | 0.2             | 100.0 | 302   |
| Lusaka                           | 39.5  | 50.6                     | 9.7            | 0.2   | 100.0   | 12.5 | 72.0 | 11.1           | 2.6                     | 1.8             | 100.0 | 780   |
| Muchinga                         | 20.5  | 49.8                     | 29.7           | 0.0   | 100.0   | 9.7  | 51.6 | 35.0           | 2.6                     | 1.1             | 100.0 | 201   |
| Northern                         | 22.1  | 66.6                     | 11.1           | 0.2   | 100.0   | 7.0  | 61.7 | 25.0           | 4.6                     | 1.7             | 100.0 | 300   |
| North Western                    | 22.7  | 62.7                     | 14.6           | 0.0   | 100.0   | 15.9 | 57.4 | 19.7           | 4.9                     | 2.1             | 100.0 | 116   |
| Southern                         | 30.6  | 41.0                     | 28.5           | 0.0   | 100.0   | 9.7  | 76.2 | 12.7           | 0.2                     | 1.1             | 100.0 | 467   |
| Western                          | 23.2  | 47.7                     | 29.1           | 0.0   | 100.0   | 5.6  | 69.9 | 3.5            | 20.1                    | 0.9             | 100.0 | 154   |
| <b>Education</b>                 |   |                          |                |       |   |      |      |                |                         |                 |       |       |
| No education                     | 22.6  | 47.2                     | 29.7           | 0.4   | 100.0   | 7.0  | 67.5 | 19.0           | 5.2                     | 1.3             | 100.0 | 273   |
| Primary                          | 29.9  | 48.4                     | 21.6           | 0.1   | 100.0   | 8.9  | 65.3 | 20.6           | 3.5                     | 1.7             | 100.0 | 1,792 |
| Secondary                        | 37.0  | 48.6                     | 14.3           | 0.2   | 100.0   | 8.8  | 76.5 | 9.5            | 3.8                     | 1.5             | 100.0 | 1,275 |
| Higher                           | 19.8  | 73.4                     | 6.8            | 0.0   | 100.0   | 18.5 | 59.2 | 18.1           | 2.2                     | 1.9             | 100.0 | 312   |
| <b>Wealth quintile</b>           |   |                          |                |       |   |      |      |                |                         |                 |       |       |
| Lowest                           | 21.5  | 49.0                     | 29.0           | 0.5   | 100.0   | 6.5  | 61.1 | 24.1           | 6.2                     | 2.1             | 100.0 | 573   |
| Second                           | 22.2  | 50.7                     | 27.1           | 0.0   | 100.0   | 5.7  | 62.6 | 25.1           | 4.8                     | 1.9             | 100.0 | 633   |
| Middle                           | 28.1  | 52.3                     | 19.6           | 0.0   | 100.0   | 8.5  | 69.6 | 19.5           | 2.0                     | 0.5             | 100.0 | 692   |
| Fourth                           | 40.8  | 46.1                     | 12.8           | 0.3   | 100.0   | 10.3 | 74.5 | 9.3            | 3.7                     | 2.1             | 100.0 | 799   |
| Highest                          | 36.3  | 53.7                     | 10.0           | 0.0   | 100.0   | 14.1 | 72.3 | 9.7            | 2.3                     | 1.6             | 100.0 | 954   |
| Total                            | 31.0  | 50.5                     | 18.4           | 0.2   | 100.0   | 9.5  | 68.8 | 16.4           | 3.6                     | 1.6             | 100.0 | 3,652 |

**Table 16.2.2 Control over men's cash earnings**

Percent distributions of currently married men age 15-49 who receive cash earnings and of currently married women age 15-49 whose husbands receive cash earnings, by person who decides how the husband's cash earnings are used, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Mainly wife | Men                      |                |       |         |       | Women  |             |                          |                |       |       |        |
|----------------------------------|-------------|--------------------------|----------------|-------|---------|-------|--------|-------------|--------------------------|----------------|-------|-------|--------|
|                                  |             | Husband and wife jointly | Mainly husband | Other | Missing | Total | Number | Mainly wife | Husband and wife jointly | Mainly husband | Other | Total | Number |
| <b>Age</b>                       |             |                          |                |       |         |       |        |             |                          |                |       |       |        |
| 15-19                            | (8.3)       | (69.3)                   | (22.4)         | (0.0) | (0.0)   | 100.0 | 23     | 10.1        | 47.2                     | 41.5           | 1.2   | 100.0 | 417    |
| 20-24                            | 8.8         | 46.7                     | 44.5           | 0.0   | 0.0     | 100.0 | 362    | 9.0         | 55.0                     | 35.8           | 0.2   | 100.0 | 1,383  |
| 25-29                            | 10.1        | 50.6                     | 39.3           | 0.0   | 0.0     | 100.0 | 954    | 9.3         | 59.9                     | 30.8           | 0.0   | 100.0 | 1,509  |
| 30-34                            | 8.8         | 57.2                     | 34.0           | 0.0   | 0.0     | 100.0 | 966    | 9.0         | 60.1                     | 30.6           | 0.3   | 100.0 | 1,363  |
| 35-39                            | 9.2         | 60.0                     | 30.8           | 0.0   | 0.0     | 100.0 | 938    | 10.0        | 58.0                     | 31.6           | 0.3   | 100.0 | 1,259  |
| 40-44                            | 6.3         | 58.9                     | 34.8           | 0.0   | 0.0     | 100.0 | 824    | 10.8        | 53.6                     | 35.4           | 0.1   | 100.0 | 874    |
| 45-49                            | 8.9         | 57.0                     | 33.9           | 0.2   | 0.0     | 100.0 | 659    | 12.5        | 56.7                     | 30.7           | 0.0   | 100.0 | 584    |
| <b>Number of living children</b> |             |                          |                |       |         |       |        |             |                          |                |       |       |        |
| 0                                | 5.6         | 56.4                     | 38.0           | 0.0   | 0.0     | 100.0 | 202    | 11.5        | 57.7                     | 29.5           | 1.3   | 100.0 | 314    |
| 1-2                              | 9.3         | 53.9                     | 36.8           | 0.0   | 0.0     | 100.0 | 1,678  | 10.1        | 59.1                     | 30.5           | 0.3   | 100.0 | 2,610  |
| 3-4                              | 9.3         | 58.3                     | 32.3           | 0.1   | 0.0     | 100.0 | 1,335  | 9.9         | 57.6                     | 32.4           | 0.2   | 100.0 | 2,215  |
| 5+                               | 8.0         | 56.1                     | 35.9           | 0.0   | 0.0     | 100.0 | 1,510  | 9.0         | 53.8                     | 37.1           | 0.1   | 100.0 | 2,251  |
| <b>Residence</b>                 |             |                          |                |       |         |       |        |             |                          |                |       |       |        |
| Urban                            | 9.1         | 58.1                     | 32.7           | 0.1   | 0.0     | 100.0 | 2,110  | 13.2        | 62.3                     | 24.3           | 0.2   | 100.0 | 3,004  |
| Rural                            | 8.4         | 54.2                     | 37.4           | 0.0   | 0.0     | 100.0 | 2,615  | 7.4         | 53.3                     | 39.0           | 0.3   | 100.0 | 4,386  |
| <b>Province</b>                  |             |                          |                |       |         |       |        |             |                          |                |       |       |        |
| Central                          | 7.4         | 67.4                     | 25.2           | 0.0   | 0.0     | 100.0 | 442    | 11.8        | 68.1                     | 19.9           | 0.2   | 100.0 | 646    |
| Copperbelt                       | 16.4        | 58.7                     | 24.9           | 0.0   | 0.0     | 100.0 | 689    | 13.7        | 62.6                     | 23.4           | 0.3   | 100.0 | 1,006  |
| Eastern                          | 12.3        | 52.0                     | 35.7           | 0.0   | 0.0     | 100.0 | 692    | 7.9         | 40.4                     | 50.7           | 0.9   | 100.0 | 1,043  |
| Luapula                          | 7.2         | 61.2                     | 31.6           | 0.0   | 0.0     | 100.0 | 424    | 3.8         | 53.3                     | 42.9           | 0.0   | 100.0 | 594    |
| Lusaka                           | 6.7         | 61.4                     | 31.8           | 0.2   | 0.0     | 100.0 | 1,004  | 12.7        | 68.9                     | 18.1           | 0.3   | 100.0 | 1,331  |
| Muchinga                         | 3.5         | 43.3                     | 53.1           | 0.0   | 0.0     | 100.0 | 213    | 6.4         | 43.5                     | 50.0           | 0.2   | 100.0 | 457    |
| Northern                         | 3.0         | 37.5                     | 59.5           | 0.0   | 0.0     | 100.0 | 388    | 5.7         | 65.2                     | 29.1           | 0.0   | 100.0 | 628    |
| North Western                    | 11.3        | 68.1                     | 20.6           | 0.0   | 0.0     | 100.0 | 180    | 10.4        | 73.9                     | 15.7           | 0.0   | 100.0 | 353    |
| Southern                         | 6.7         | 40.7                     | 52.6           | 0.0   | 0.0     | 100.0 | 520    | 9.7         | 46.7                     | 43.6           | 0.0   | 100.0 | 991    |
| Western                          | 5.1         | 77.2                     | 17.7           | 0.0   | 0.0     | 100.0 | 173    | 10.8        | 44.9                     | 44.3           | 0.0   | 100.0 | 342    |
| <b>Education</b>                 |             |                          |                |       |         |       |        |             |                          |                |       |       |        |
| No education                     | 13.8        | 47.1                     | 39.1           | 0.0   | 0.0     | 100.0 | 197    | 6.1         | 45.4                     | 47.9           | 0.7   | 100.0 | 712    |
| Primary                          | 8.7         | 51.3                     | 40.0           | 0.0   | 0.0     | 100.0 | 1,798  | 9.7         | 52.5                     | 37.5           | 0.3   | 100.0 | 3,743  |
| Secondary                        | 9.1         | 55.3                     | 35.5           | 0.1   | 0.0     | 100.0 | 2,203  | 11.0        | 63.6                     | 25.4           | 0.1   | 100.0 | 2,554  |
| Higher                           | 5.2         | 77.8                     | 17.0           | 0.0   | 0.0     | 100.0 | 527    | 9.2         | 78.1                     | 12.7           | 0.0   | 100.0 | 382    |
| <b>Wealth quintile</b>           |             |                          |                |       |         |       |        |             |                          |                |       |       |        |
| Lowest                           | 8.7         | 50.2                     | 41.1           | 0.0   | 0.0     | 100.0 | 867    | 8.0         | 47.2                     | 44.3           | 0.4   | 100.0 | 1,472  |
| Second                           | 8.6         | 52.5                     | 38.9           | 0.0   | 0.0     | 100.0 | 808    | 7.3         | 51.4                     | 41.2           | 0.1   | 100.0 | 1,451  |
| Middle                           | 8.7         | 53.8                     | 37.4           | 0.0   | 0.0     | 100.0 | 924    | 9.8         | 55.5                     | 34.6           | 0.2   | 100.0 | 1,432  |
| Fourth                           | 10.2        | 53.0                     | 36.8           | 0.0   | 0.0     | 100.0 | 1,134  | 10.9        | 60.4                     | 28.1           | 0.5   | 100.0 | 1,572  |
| Highest                          | 7.1         | 69.1                     | 23.7           | 0.1   | 0.0     | 100.0 | 993    | 12.7        | 70.1                     | 17.2           | 0.0   | 100.0 | 1,463  |
| Total 15-49                      | 8.7         | 55.9                     | 35.3           | 0.0   | 0.0     | 100.0 | 4,725  | 9.8         | 57.0                     | 33.0           | 0.2   | 100.0 | 7,390  |
| 50-59                            | 5.9         | 65.6                     | 28.5           | 0.0   | 0.0     | 100.0 | 632    | na          | na                       | na             | na    | na    | na     |
| Total 15-59                      | 8.4         | 57.1                     | 34.5           | 0.0   | 0.0     | 100.0 | 5,357  | na          | na                       | na             | na    | na    | na     |

Note: Figures in parentheses are based on 25-49 unweighted cases.

na = Not applicable

**Table 16.3 Women's control over their own earnings and over those of their husbands**

Percent distribution of currently married women age 15-49 with cash earnings in the last 12 months by person who decides how the wife's cash earnings are used and percent distribution of currently married women age 15-49 whose husbands have cash earnings by person who decides how the husband's cash earnings are used, according to the relation between wife's and husband's cash earnings, Zambia DHS 2018

| Woman's earnings relative to husband's earnings | Person who decides how the wife's cash earnings are used: |                          |                |       | Number of women | Person who decides how the husband's cash earnings are used: |                          |                |       | Number of women |       |       |
|---|---|--------------------------|----------------|-------|-----------------|--|--------------------------|----------------|-------|-----------------|-------|-------|
|   | Mainly wife   | Wife and husband jointly | Mainly husband | Other |                 | Mainly wife  | Wife and husband jointly | Mainly husband | Other |                 |       |       |
| More than husband                               | 40.7  | 50.7                     | 8.6            | 0.0   | 100.0           | 349  | 24.0                     | 56.5           | 19.5  | 0.0             | 100.0 | 349   |
| Less than husband                               | 34.6  | 45.2                     | 20.0           | 0.2   | 100.0           | 2,514  | 10.8                     | 57.1           | 31.9  | 0.2             | 100.0 | 2,514 |
| Same as husband                                 | 7.2   | 71.7                     | 21.2           | 0.0   | 100.0           | 599  | 4.2                      | 72.8           | 23.0  | 0.0             | 100.0 | 599   |
| Husband has no cash earnings or did not work    | 30.7  | 63.6                     | 4.8            | 1.0   | 100.0           | 132  | na                       | na             | na    | na              | na    | 0     |
| Woman worked but has no cash earnings           | na  | na                       | na             | na    | na              | 0  | 8.3                      | 46.5           | 45.2  | 0.0             | 100.0 | 793   |
| Woman did not work                              | na  | na                       | na             | na    | na              | 0  | 8.4                      | 57.1           | 34.2  | 0.3             | 100.0 | 3,077 |
| Total <sup>1</sup>                              | 31.0  | 50.5                     | 18.4           | 0.2   | 100.0           | 3,652  | 9.8                      | 57.0           | 33.0  | 0.2             | 100.0 | 7,390 |

na = Not applicable

<sup>1</sup> Includes cases where a woman does not know whether she earned more or less than her husband

**Table 16.4.1 Ownership of assets: Women**

Percent distribution of women age 15-49 by ownership of housing and land, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage who own a house: |         |                   |                                    | Percentage who own land: |         |                   |                                 | Total | Number |        |
|---------------------------|-----------------------------|---------|-------------------|------------------------------------|--------------------------|---------|-------------------|---------------------------------|-------|--------|--------|
|                           | Alone                       |         |                   | Percent-age who do not own a house | Alone                    |         |                   | Percent-age who do not own land |       |        |        |
|                           | Alone                       | Jointly | Alone and jointly | Total                              | Alone                    | Jointly | Alone and jointly | Total                           |       |        |        |
| <b>Age</b>                |                             |         |                   |                                    |                          |         |                   |                                 |       |        |        |
| 15-19                     | 1.2                         | 5.3     | 1.1               | 92.4                               | 100.0                    | 0.7     | 4.4               | 0.4                             | 94.5  | 100.0  | 3,000  |
| 20-24                     | 3.7                         | 17.7    | 2.8               | 75.8                               | 100.0                    | 1.9     | 15.3              | 1.9                             | 80.9  | 100.0  | 2,733  |
| 25-29                     | 5.6                         | 24.3    | 6.4               | 63.8                               | 100.0                    | 4.2     | 20.7              | 3.4                             | 71.6  | 100.0  | 2,237  |
| 30-34                     | 9.0                         | 27.2    | 5.3               | 58.5                               | 100.0                    | 7.2     | 22.1              | 2.5                             | 68.3  | 100.0  | 1,862  |
| 35-39                     | 12.9                        | 33.8    | 6.6               | 46.7                               | 100.0                    | 8.9     | 25.6              | 3.6                             | 61.9  | 100.0  | 1,697  |
| 40-44                     | 19.8                        | 32.9    | 8.7               | 38.6                               | 100.0                    | 14.5    | 26.8              | 3.9                             | 54.8  | 100.0  | 1,253  |
| 45-49                     | 24.7                        | 34.8    | 7.7               | 32.9                               | 100.0                    | 17.0    | 30.7              | 3.4                             | 49.0  | 100.0  | 900    |
| <b>Residence</b>          |                             |         |                   |                                    |                          |         |                   |                                 |       |        |        |
| Urban                     | 4.8                         | 9.5     | 4.6               | 81.1                               | 100.0                    | 1.8     | 5.0               | 1.5                             | 91.7  | 100.0  | 6,374  |
| Rural                     | 11.1                        | 32.6    | 4.7               | 51.5                               | 100.0                    | 9.2     | 29.5              | 3.2                             | 58.2  | 100.0  | 7,309  |
| <b>Province</b>           |                             |         |                   |                                    |                          |         |                   |                                 |       |        |        |
| Central                   | 9.2                         | 23.8    | 4.3               | 62.6                               | 100.0                    | 5.5     | 20.8              | 1.2                             | 72.5  | 100.0  | 1,165  |
| Copperbelt                | 4.2                         | 6.9     | 3.6               | 85.3                               | 100.0                    | 2.5     | 4.0               | 1.8                             | 91.6  | 100.0  | 2,201  |
| Eastern                   | 12.0                        | 42.3    | 6.4               | 39.3                               | 100.0                    | 11.3    | 37.9              | 5.6                             | 45.2  | 100.0  | 1,605  |
| Luapula                   | 9.2                         | 36.4    | 1.2               | 53.2                               | 100.0                    | 6.3     | 25.1              | 0.4                             | 68.2  | 100.0  | 1,071  |
| Lusaka                    | 5.0                         | 8.5     | 7.2               | 79.2                               | 100.0                    | 2.0     | 5.1               | 2.1                             | 90.8  | 100.0  | 2,733  |
| Muchinga                  | 10.6                        | 29.9    | 3.7               | 55.8                               | 100.0                    | 9.4     | 28.0              | 1.5                             | 61.1  | 100.0  | 754    |
| Northern                  | 8.2                         | 32.8    | 9.0               | 50.0                               | 100.0                    | 6.5     | 31.1              | 7.8                             | 54.6  | 100.0  | 1,054  |
| North Western             | 11.1                        | 27.9    | 1.2               | 59.8                               | 100.0                    | 11.7    | 27.8              | 0.3                             | 60.2  | 100.0  | 718    |
| Southern                  | 6.1                         | 21.3    | 3.1               | 69.5                               | 100.0                    | 3.9     | 15.7              | 0.9                             | 79.5  | 100.0  | 1,574  |
| Western                   | 18.4                        | 19.3    | 1.9               | 60.4                               | 100.0                    | 9.9     | 17.1              | 1.2                             | 71.9  | 100.0  | 808    |
| <b>Education</b>          |                             |         |                   |                                    |                          |         |                   |                                 |       |        |        |
| No education              | 14.7                        | 38.2    | 6.1               | 41.0                               | 100.0                    | 11.0    | 31.6              | 3.5                             | 53.9  | 100.0  | 1,054  |
| Primary                   | 10.8                        | 28.5    | 5.3               | 55.4                               | 100.0                    | 8.1     | 25.1              | 3.2                             | 63.7  | 100.0  | 6,059  |
| Secondary                 | 4.5                         | 13.0    | 3.6               | 78.9                               | 100.0                    | 2.5     | 9.4               | 1.4                             | 86.8  | 100.0  | 5,816  |
| Higher                    | 6.5                         | 14.4    | 6.0               | 73.1                               | 100.0                    | 5.3     | 9.9               | 2.2                             | 82.6  | 100.0  | 755    |
| <b>Wealth quintile</b>    |                             |         |                   |                                    |                          |         |                   |                                 |       |        |        |
| Lowest                    | 17.6                        | 34.8    | 5.4               | 42.2                               | 100.0                    | 13.2    | 32.1              | 3.8                             | 50.9  | 100.0  | 2,442  |
| Second                    | 10.6                        | 33.9    | 4.2               | 51.3                               | 100.0                    | 9.6     | 30.9              | 2.8                             | 56.7  | 100.0  | 2,387  |
| Middle                    | 6.4                         | 27.4    | 4.9               | 61.3                               | 100.0                    | 4.3     | 22.6              | 3.0                             | 70.1  | 100.0  | 2,477  |
| Fourth                    | 4.2                         | 10.2    | 3.8               | 81.8                               | 100.0                    | 1.8     | 7.0               | 1.2                             | 89.9  | 100.0  | 3,011  |
| Highest                   | 4.3                         | 10.5    | 5.1               | 80.1                               | 100.0                    | 2.1     | 5.3               | 1.7                             | 90.9  | 100.0  | 3,367  |
| Total                     | 8.2                         | 21.9    | 4.7               | 65.3                               | 100.0                    | 5.8     | 18.1              | 2.4                             | 73.8  | 100.0  | 13,683 |

**Table 16.4.2 Ownership of assets: Men**

Percent distribution of men age 15-49 by ownership of housing and land, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage who own a house: |         |                   | Percentage who own land:           |       |       |         |                   |                                 |       |        |
|---------------------------|-----------------------------|---------|-------------------|------------------------------------|-------|-------|---------|-------------------|---------------------------------|-------|--------|
|                           | Alone                       | Jointly | Alone and jointly | Percent-age who do not own a house | Total | Alone | Jointly | Alone and jointly | Percent-age who do not own land | Total | Number |
| <b>Age</b>                |                             |         |                   |                                    |       |       |         |                   |                                 |       |        |
| 15-19                     | 3.4                         | 1.3     | 0.2               | 95.1                               | 100.0 | 2.1   | 1.3     | 0.1               | 96.4                            | 100.0 | 2,781  |
| 20-24                     | 12.7                        | 7.2     | 3.6               | 76.4                               | 100.0 | 10.4  | 5.6     | 3.1               | 80.9                            | 100.0 | 2,032  |
| 25-29                     | 17.2                        | 15.3    | 6.8               | 60.6                               | 100.0 | 14.7  | 14.4    | 5.9               | 64.9                            | 100.0 | 1,721  |
| 30-34                     | 21.8                        | 22.1    | 10.2              | 45.9                               | 100.0 | 20.9  | 19.2    | 9.1               | 50.9                            | 100.0 | 1,383  |
| 35-39                     | 27.6                        | 22.7    | 9.8               | 39.9                               | 100.0 | 22.7  | 17.5    | 8.5               | 51.2                            | 100.0 | 1,280  |
| 40-44                     | 30.8                        | 26.5    | 12.3              | 30.4                               | 100.0 | 28.1  | 21.3    | 10.3              | 40.4                            | 100.0 | 1,097  |
| 45-49                     | 33.0                        | 23.5    | 15.9              | 27.5                               | 100.0 | 26.2  | 21.5    | 12.4              | 40.0                            | 100.0 | 883    |
| <b>Residence</b>          |                             |         |                   |                                    |       |       |         |                   |                                 |       |        |
| Urban                     | 11.0                        | 4.9     | 1.7               | 82.4                               | 100.0 | 6.6   | 3.9     | 1.1               | 88.4                            | 100.0 | 5,013  |
| Rural                     | 22.4                        | 21.0    | 10.6              | 46.0                               | 100.0 | 21.3  | 18.1    | 9.3               | 51.3                            | 100.0 | 6,165  |
| <b>Province</b>           |                             |         |                   |                                    |       |       |         |                   |                                 |       |        |
| Central                   | 8.2                         | 17.9    | 10.1              | 63.7                               | 100.0 | 8.1   | 16.3    | 9.1               | 66.5                            | 100.0 | 979    |
| Copperbelt                | 10.3                        | 6.4     | 1.5               | 81.9                               | 100.0 | 6.8   | 3.8     | 0.8               | 88.6                            | 100.0 | 1,727  |
| Eastern                   | 14.6                        | 23.2    | 18.4              | 43.8                               | 100.0 | 13.4  | 19.7    | 14.8              | 52.1                            | 100.0 | 1,476  |
| Luapula                   | 16.4                        | 27.4    | 1.2               | 55.0                               | 100.0 | 14.5  | 21.6    | 2.1               | 61.7                            | 100.0 | 849    |
| Lusaka                    | 14.4                        | 3.0     | 0.8               | 81.8                               | 100.0 | 9.9   | 3.0     | 0.5               | 86.6                            | 100.0 | 2,166  |
| Muchinga                  | 22.0                        | 8.0     | 20.4              | 49.7                               | 100.0 | 20.5  | 5.3     | 21.4              | 52.8                            | 100.0 | 599    |
| Northern                  | 26.5                        | 26.0    | 1.5               | 46.0                               | 100.0 | 27.9  | 25.1    | 3.5               | 43.5                            | 100.0 | 855    |
| North Western             | 33.8                        | 13.4    | 0.3               | 52.5                               | 100.0 | 29.7  | 13.2    | 0.1               | 57.0                            | 100.0 | 556    |
| Southern                  | 15.7                        | 16.2    | 11.7              | 56.4                               | 100.0 | 12.7  | 13.2    | 7.6               | 66.5                            | 100.0 | 1,395  |
| Western                   | 42.5                        | 8.0     | 2.6               | 46.9                               | 100.0 | 36.1  | 7.5     | 1.8               | 54.5                            | 100.0 | 574    |
| <b>Education</b>          |                             |         |                   |                                    |       |       |         |                   |                                 |       |        |
| No education              | 21.5                        | 29.4    | 11.4              | 37.7                               | 100.0 | 20.7  | 21.2    | 9.0               | 49.1                            | 100.0 | 446    |
| Primary                   | 20.7                        | 18.2    | 9.1               | 52.0                               | 100.0 | 19.0  | 15.3    | 8.1               | 57.6                            | 100.0 | 4,206  |
| Secondary                 | 14.9                        | 10.1    | 4.9               | 70.1                               | 100.0 | 11.3  | 9.0     | 3.9               | 75.7                            | 100.0 | 5,618  |
| Higher                    | 14.1                        | 8.7     | 3.6               | 73.6                               | 100.0 | 13.0  | 7.1     | 2.6               | 77.3                            | 100.0 | 907    |
| <b>Wealth quintile</b>    |                             |         |                   |                                    |       |       |         |                   |                                 |       |        |
| Lowest                    | 29.3                        | 24.0    | 13.7              | 33.0                               | 100.0 | 29.0  | 20.8    | 11.5              | 38.7                            | 100.0 | 1,827  |
| Second                    | 24.2                        | 24.4    | 9.2               | 42.2                               | 100.0 | 21.0  | 20.6    | 9.1               | 49.4                            | 100.0 | 1,952  |
| Middle                    | 18.7                        | 15.8    | 8.5               | 57.0                               | 100.0 | 16.2  | 14.0    | 7.1               | 62.7                            | 100.0 | 2,218  |
| Fourth                    | 9.8                         | 6.3     | 2.9               | 80.9                               | 100.0 | 6.9   | 4.5     | 1.7               | 86.8                            | 100.0 | 2,552  |
| Highest                   | 9.9                         | 4.4     | 1.7               | 83.9                               | 100.0 | 6.4   | 3.9     | 1.4               | 88.2                            | 100.0 | 2,629  |
| Total 15-49               | 17.3                        | 13.8    | 6.6               | 62.3                               | 100.0 | 14.7  | 11.7    | 5.6               | 68.0                            | 100.0 | 11,177 |
| 50-59                     | 37.9                        | 32.0    | 13.0              | 17.1                               | 100.0 | 32.1  | 26.1    | 11.4              | 30.4                            | 100.0 | 955    |
| Total 15-59               | 18.9                        | 15.2    | 7.1               | 58.7                               | 100.0 | 16.1  | 12.9    | 6.1               | 65.0                            | 100.0 | 12,132 |

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**Table 16.5.1 Ownership of title or deed for house: Women**

Among women age 15-49 who own a house, percent distribution by whether the house owned has a title or deed and whether or not the woman's name appears on the title or deed, according to background characteristics, Zambia DHS 2018

| Background characteristic | House has a title or deed and: |                                   |                            |                                 | Total | Number who own a house <sup>2</sup> |
|---------------------------|--------------------------------|-----------------------------------|----------------------------|---------------------------------|-------|-------------------------------------|
|                           | Woman's name is on title/deed  | Woman's name is not on title/deed | Does not have a title/deed | Don't know/missing <sup>1</sup> |       |                                     |
| <b>Age</b>                |                                |                                   |                            |                                 |       |                                     |
| 15-19                     | 4.3                            | 2.8                               | 88.9                       | 4.0                             | 100.0 | 229                                 |
| 20-24                     | 2.6                            | 4.0                               | 91.7                       | 1.7                             | 100.0 | 660                                 |
| 25-29                     | 8.1                            | 8.2                               | 80.9                       | 2.8                             | 100.0 | 810                                 |
| 30-34                     | 8.7                            | 8.0                               | 82.0                       | 1.3                             | 100.0 | 773                                 |
| 35-39                     | 10.9                           | 7.2                               | 80.5                       | 1.4                             | 100.0 | 904                                 |
| 40-44                     | 15.8                           | 10.9                              | 71.5                       | 1.8                             | 100.0 | 770                                 |
| 45-49                     | 14.0                           | 8.7                               | 76.1                       | 1.2                             | 100.0 | 604                                 |
| <b>Residence</b>          |                                |                                   |                            |                                 |       |                                     |
| Urban                     | 29.1                           | 22.9                              | 43.2                       | 4.8                             | 100.0 | 1,207                               |
| Rural                     | 3.2                            | 2.4                               | 93.6                       | 0.8                             | 100.0 | 3,545                               |
| <b>Province</b>           |                                |                                   |                            |                                 |       |                                     |
| Central                   | 5.8                            | 9.7                               | 81.7                       | 2.8                             | 100.0 | 435                                 |
| Copperbelt                | 27.3                           | 19.5                              | 49.5                       | 3.7                             | 100.0 | 323                                 |
| Eastern                   | 1.8                            | 2.5                               | 94.0                       | 1.7                             | 100.0 | 974                                 |
| Luapula                   | 2.6                            | 3.4                               | 93.8                       | 0.2                             | 100.0 | 501                                 |
| Lusaka                    | 30.1                           | 18.5                              | 45.0                       | 6.3                             | 100.0 | 568                                 |
| Muchinga                  | 4.5                            | 4.7                               | 90.2                       | 0.6                             | 100.0 | 334                                 |
| Northern                  | 11.1                           | 2.5                               | 85.9                       | 0.6                             | 100.0 | 527                                 |
| North Western             | 5.7                            | 1.6                               | 91.9                       | 0.8                             | 100.0 | 289                                 |
| Southern                  | 9.5                            | 14.8                              | 75.5                       | 0.3                             | 100.0 | 481                                 |
| Western                   | 4.1                            | 2.0                               | 93.5                       | 0.5                             | 100.0 | 320                                 |
| <b>Education</b>          |                                |                                   |                            |                                 |       |                                     |
| No education              | 4.1                            | 1.8                               | 93.0                       | 1.0                             | 100.0 | 622                                 |
| Primary                   | 6.3                            | 4.3                               | 88.4                       | 1.0                             | 100.0 | 2,700                               |
| Secondary                 | 15.5                           | 16.1                              | 64.5                       | 4.0                             | 100.0 | 1,226                               |
| Higher                    | 38.5                           | 18.4                              | 40.4                       | 2.7                             | 100.0 | 204                                 |
| <b>Wealth quintile</b>    |                                |                                   |                            |                                 |       |                                     |
| Lowest                    | 1.5                            | 1.2                               | 97.1                       | 0.2                             | 100.0 | 1,411                               |
| Second                    | 1.7                            | 1.2                               | 96.2                       | 0.9                             | 100.0 | 1,162                               |
| Middle                    | 5.4                            | 4.9                               | 88.5                       | 1.3                             | 100.0 | 959                                 |
| Fourth                    | 21.9                           | 20.9                              | 53.1                       | 4.1                             | 100.0 | 549                                 |
| Highest                   | 37.4                           | 25.4                              | 31.3                       | 5.9                             | 100.0 | 671                                 |
| Total                     | 9.8                            | 7.6                               | 80.8                       | 1.8                             | 100.0 | 4,751                               |

<sup>1</sup> Includes women who have a house with a title/deed, but they do not know if their name is on it (or this information is missing), and women who do not know if there is a title/deed for the house (or this information is missing)

<sup>2</sup> Includes sole, joint, or sole and joint ownership

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**Table 16.5.2 Ownership of title or deed for house: Men**

Among men age 15-49 who own a house, percent distribution by whether the house owned has a title or deed and whether or not the man's name appears on the title or deed, according to background characteristics, Zambia DHS 2018

| Background characteristic | House has a title or deed and: |                                 |                            |                                 | Total | Number who own a house <sup>2</sup> |
|---------------------------|--------------------------------|---------------------------------|----------------------------|---------------------------------|-------|-------------------------------------|
|                           | Man's name is on title/deed    | Man's name is not on title/deed | Does not have a title/deed | Don't know/missing <sup>1</sup> |       |                                     |
| <b>Age</b>                |                                |                                 |                            |                                 |       |                                     |
| 15-19                     | 4.4                            | 0.9                             | 93.7                       | 0.9                             | 100.0 | 136                                 |
| 20-24                     | 4.6                            | 2.1                             | 93.3                       | 0.0                             | 100.0 | 479                                 |
| 25-29                     | 2.0                            | 2.9                             | 95.0                       | 0.1                             | 100.0 | 678                                 |
| 30-34                     | 4.4                            | 1.8                             | 93.8                       | 0.0                             | 100.0 | 749                                 |
| 35-39                     | 7.1                            | 3.0                             | 89.9                       | 0.0                             | 100.0 | 769                                 |
| 40-44                     | 11.6                           | 3.6                             | 84.8                       | 0.0                             | 100.0 | 763                                 |
| 45-49                     | 12.0                           | 1.7                             | 86.3                       | 0.0                             | 100.0 | 640                                 |
| <b>Residence</b>          |                                |                                 |                            |                                 |       |                                     |
| Urban                     | 27.4                           | 8.0                             | 64.4                       | 0.2                             | 100.0 | 885                                 |
| Rural                     | 1.6                            | 1.1                             | 97.4                       | 0.0                             | 100.0 | 3,330                               |
| <b>Province</b>           |                                |                                 |                            |                                 |       |                                     |
| Central                   | 2.0                            | 2.2                             | 95.7                       | 0.0                             | 100.0 | 355                                 |
| Copperbelt                | 25.0                           | 8.4                             | 66.2                       | 0.4                             | 100.0 | 313                                 |
| Eastern                   | 1.3                            | 0.6                             | 98.0                       | 0.0                             | 100.0 | 829                                 |
| Luapula                   | 0.8                            | 1.7                             | 97.5                       | 0.0                             | 100.0 | 382                                 |
| Lusaka                    | 25.1                           | 7.5                             | 67.4                       | 0.0                             | 100.0 | 395                                 |
| Muchinga                  | 1.9                            | 1.5                             | 96.5                       | 0.0                             | 100.0 | 302                                 |
| Northern                  | 3.0                            | 3.2                             | 93.9                       | 0.0                             | 100.0 | 462                                 |
| North Western             | 5.7                            | 1.9                             | 92.4                       | 0.0                             | 100.0 | 264                                 |
| Southern                  | 8.6                            | 0.8                             | 90.6                       | 0.0                             | 100.0 | 608                                 |
| Western                   | 2.9                            | 0.6                             | 96.5                       | 0.0                             | 100.0 | 305                                 |
| <b>Education</b>          |                                |                                 |                            |                                 |       |                                     |
| No education              | 4.8                            | 0.8                             | 94.4                       | 0.0                             | 100.0 | 278                                 |
| Primary                   | 2.5                            | 1.5                             | 96.0                       | 0.0                             | 100.0 | 2,017                               |
| Secondary                 | 9.3                            | 3.6                             | 87.0                       | 0.1                             | 100.0 | 1,679                               |
| Higher                    | 30.9                           | 5.8                             | 63.3                       | 0.0                             | 100.0 | 240                                 |
| <b>Wealth quintile</b>    |                                |                                 |                            |                                 |       |                                     |
| Lowest                    | 0.3                            | 1.0                             | 98.7                       | 0.0                             | 100.0 | 1,224                               |
| Second                    | 0.8                            | 0.7                             | 98.5                       | 0.0                             | 100.0 | 1,129                               |
| Middle                    | 2.7                            | 2.2                             | 95.1                       | 0.0                             | 100.0 | 953                                 |
| Fourth                    | 18.3                           | 8.6                             | 73.0                       | 0.1                             | 100.0 | 486                                 |
| Highest                   | 39.4                           | 5.5                             | 54.8                       | 0.3                             | 100.0 | 423                                 |
| Total 15-49               | 7.0                            | 2.5                             | 90.5                       | 0.0                             | 100.0 | 4,215                               |
| 50-59                     | 16.0                           | 1.6                             | 82.3                       | 0.0                             | 100.0 | 792                                 |
| Total 15-59               | 8.4                            | 2.4                             | 89.2                       | 0.0                             | 100.0 | 5,006                               |

<sup>1</sup> Includes men who have a house with a title/deed, but they do not know if their name is on it (or this information is missing), and men who do not know if there is a title/deed for the house (or this information is missing)

<sup>2</sup> Includes sole, joint, or sole and joint ownership

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**Table 16.6.1 Ownership of title or deed for land: Women**

Among women age 15-49 who own land, percent distribution by whether the land owned has a title or deed and whether or not the woman's name appears on the title or deed, according to background characteristics, Zambia DHS 2018

| Background characteristic | Land has a title or deed and: |                                   |                            |                                 |       | Number who own land <sup>2</sup> |
|---------------------------|-------------------------------|-----------------------------------|----------------------------|---------------------------------|-------|----------------------------------|
|                           | Woman's name is on title/deed | Woman's name is not on title/deed | Does not have a title/deed | Don't know/missing <sup>1</sup> | Total |                                  |
| <b>Age</b>                |                               |                                   |                            |                                 |       |                                  |
| 15-19                     | 1.6                           | 3.1                               | 94.7                       | 0.6                             | 100.0 | 164                              |
| 20-24                     | 3.3                           | 3.5                               | 92.6                       | 0.5                             | 100.0 | 522                              |
| 25-29                     | 5.5                           | 4.8                               | 88.3                       | 1.4                             | 100.0 | 635                              |
| 30-34                     | 5.0                           | 3.7                               | 89.8                       | 1.5                             | 100.0 | 591                              |
| 35-39                     | 6.7                           | 5.2                               | 87.4                       | 0.7                             | 100.0 | 647                              |
| 40-44                     | 7.7                           | 2.6                               | 88.6                       | 1.1                             | 100.0 | 567                              |
| 45-49                     | 6.1                           | 4.4                               | 88.3                       | 1.2                             | 100.0 | 459                              |
| <b>Residence</b>          |                               |                                   |                            |                                 |       |                                  |
| Urban                     | 21.9                          | 11.8                              | 63.8                       | 2.6                             | 100.0 | 527                              |
| Rural                     | 2.8                           | 2.7                               | 93.7                       | 0.8                             | 100.0 | 3,057                            |
| <b>Province</b>           |                               |                                   |                            |                                 |       |                                  |
| Central                   | 5.6                           | 9.8                               | 82.7                       | 1.8                             | 100.0 | 321                              |
| Copperbelt                | 22.2                          | 6.7                               | 71.1                       | 0.0                             | 100.0 | 184                              |
| Eastern                   | 0.8                           | 1.4                               | 96.1                       | 1.8                             | 100.0 | 880                              |
| Luapula                   | 3.7                           | 5.2                               | 90.7                       | 0.5                             | 100.0 | 340                              |
| Lusaka                    | 16.4                          | 8.5                               | 71.2                       | 3.9                             | 100.0 | 251                              |
| Muchinga                  | 3.6                           | 2.6                               | 93.7                       | 0.1                             | 100.0 | 294                              |
| Northern                  | 7.4                           | 3.5                               | 88.5                       | 0.6                             | 100.0 | 479                              |
| North Western             | 1.7                           | 1.3                               | 97.0                       | 0.0                             | 100.0 | 286                              |
| Southern                  | 6.6                           | 4.6                               | 88.5                       | 0.3                             | 100.0 | 323                              |
| Western                   | 3.4                           | 3.2                               | 92.9                       | 0.6                             | 100.0 | 227                              |
| <b>Education</b>          |                               |                                   |                            |                                 |       |                                  |
| No education              | 2.5                           | 2.2                               | 94.7                       | 0.6                             | 100.0 | 485                              |
| Primary                   | 3.4                           | 3.0                               | 92.5                       | 1.0                             | 100.0 | 2,199                            |
| Secondary                 | 9.9                           | 6.7                               | 81.9                       | 1.5                             | 100.0 | 768                              |
| Higher                    | 27.8                          | 11.9                              | 59.8                       | 0.6                             | 100.0 | 131                              |
| <b>Wealth quintile</b>    |                               |                                   |                            |                                 |       |                                  |
| Lowest                    | 1.0                           | 1.9                               | 96.4                       | 0.7                             | 100.0 | 1,199                            |
| Second                    | 2.0                           | 2.5                               | 95.0                       | 0.4                             | 100.0 | 1,033                            |
| Middle                    | 5.5                           | 4.1                               | 89.3                       | 1.2                             | 100.0 | 740                              |
| Fourth                    | 14.8                          | 7.7                               | 75.9                       | 1.5                             | 100.0 | 304                              |
| Highest                   | 26.4                          | 13.6                              | 56.2                       | 3.8                             | 100.0 | 308                              |
| Total                     | 5.6                           | 4.0                               | 89.3                       | 1.1                             | 100.0 | 3,584                            |

<sup>1</sup> Includes women who have land with a title/deed, but they do not know if their name is on it (or this information is missing), and women who do not know if there is a title/deed for the land (or this information is missing)

<sup>2</sup> Includes sole, joint, or sole and joint ownership

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**Table 16.6.2 Ownership of title or deed for land: Men**

Among men age 15-49 who own land, percent distribution by whether the land owned has a title or deed and whether or not the man's name appears on the title or deed, according to background characteristics, Zambia DHS 2018

| Background characteristic | Land has a title or deed and: |                                 |                            |                                 |       | Number who own land <sup>2</sup> |
|---------------------------|-------------------------------|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|
|                           | Man's name is on title/deed   | Man's name is not on title/deed | Does not have a title/deed | Don't know/missing <sup>1</sup> | Total |                                  |
| <b>Age</b>                |                               |                                 |                            |                                 |       |                                  |
| 15-19                     | 0.0                           | 1.3                             | 96.4                       | 2.4                             | 100.0 | 101                              |
| 20-24                     | 2.2                           | 2.4                             | 94.6                       | 0.8                             | 100.0 | 388                              |
| 25-29                     | 2.7                           | 2.3                             | 95.0                       | 0.0                             | 100.0 | 604                              |
| 30-34                     | 4.1                           | 2.6                             | 93.2                       | 0.0                             | 100.0 | 679                              |
| 35-39                     | 1.8                           | 3.2                             | 94.9                       | 0.1                             | 100.0 | 624                              |
| 40-44                     | 4.0                           | 1.8                             | 94.1                       | 0.0                             | 100.0 | 654                              |
| 45-49                     | 3.1                           | 2.4                             | 94.5                       | 0.0                             | 100.0 | 530                              |
| <b>Residence</b>          |                               |                                 |                            |                                 |       |                                  |
| Urban                     | 13.7                          | 8.0                             | 77.6                       | 0.7                             | 100.0 | 580                              |
| Rural                     | 0.9                           | 1.3                             | 97.7                       | 0.1                             | 100.0 | 3,001                            |
| <b>Province</b>           |                               |                                 |                            |                                 |       |                                  |
| Central                   | 1.6                           | 2.8                             | 95.6                       | 0.0                             | 100.0 | 328                              |
| Copperbelt                | 12.0                          | 7.0                             | 81.0                       | 0.0                             | 100.0 | 197                              |
| Eastern                   | 0.8                           | 0.6                             | 98.6                       | 0.0                             | 100.0 | 707                              |
| Luapula                   | 1.1                           | 1.7                             | 97.0                       | 0.2                             | 100.0 | 325                              |
| Lusaka                    | 14.4                          | 6.4                             | 78.4                       | 0.9                             | 100.0 | 290                              |
| Muchinga                  | 0.6                           | 2.4                             | 96.6                       | 0.5                             | 100.0 | 283                              |
| Northern                  | 2.0                           | 2.7                             | 95.0                       | 0.2                             | 100.0 | 483                              |
| North Western             | 1.9                           | 1.3                             | 96.8                       | 0.0                             | 100.0 | 239                              |
| Southern                  | 1.7                           | 2.2                             | 96.0                       | 0.1                             | 100.0 | 468                              |
| Western                   | 1.3                           | 0.8                             | 97.9                       | 0.0                             | 100.0 | 261                              |
| <b>Education</b>          |                               |                                 |                            |                                 |       |                                  |
| No education              | 0.6                           | 0.3                             | 99.1                       | 0.0                             | 100.0 | 227                              |
| Primary                   | 0.7                           | 1.6                             | 97.7                       | 0.1                             | 100.0 | 1,783                            |
| Secondary                 | 3.4                           | 3.5                             | 92.9                       | 0.2                             | 100.0 | 1,365                            |
| Higher                    | 22.5                          | 5.1                             | 71.2                       | 1.3                             | 100.0 | 205                              |
| <b>Wealth quintile</b>    |                               |                                 |                            |                                 |       |                                  |
| Lowest                    | 0.3                           | 0.8                             | 98.9                       | 0.1                             | 100.0 | 1,121                            |
| Second                    | 0.7                           | 1.2                             | 98.0                       | 0.2                             | 100.0 | 988                              |
| Middle                    | 1.4                           | 3.3                             | 95.2                       | 0.1                             | 100.0 | 828                              |
| Fourth                    | 7.3                           | 5.3                             | 87.3                       | 0.0                             | 100.0 | 336                              |
| Highest                   | 19.6                          | 6.9                             | 72.5                       | 1.0                             | 100.0 | 309                              |
| Total 15-49               | 3.0                           | 2.4                             | 94.4                       | 0.2                             | 100.0 | 3,581                            |
| 50-59                     | 4.6                           | 1.9                             | 93.5                       | 0.0                             | 100.0 | 664                              |
| Total 15-59               | 3.2                           | 2.3                             | 94.3                       | 0.1                             | 100.0 | 4,245                            |

<sup>1</sup> Includes men who have land with a title/deed, but they do not know if their name is on it (or this information is missing), and men who do not know if there is a title/deed for the land (or this information is missing)

<sup>2</sup> Includes sole, joint, or sole and joint ownership

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**Table 16.7.1 Ownership and use of bank accounts and mobile phones: Women**

Percentage of women age 15-49 who have and use an account in a bank or other financial institution and percentage who own a mobile phone, and among women who own a mobile phone, percentage who use it for financial transactions, according to background characteristics, Zambia DHS 2018

| Background characteristic | Have and use a bank account | Own a mobile phone | Number of women | Use mobile phone for financial transactions | Number of women who own a mobile phone |
|---------------------------|-----------------------------|--------------------|-----------------|---|--|
| <b>Age</b>                |                             |                    |                 |   |  |
| 15-19                     | 2.1                         | 31.5               | 3,000           | 35.5  | 944                                    |
| 20-24                     | 9.1                         | 56.1               | 2,733           | 52.7  | 1,534                                  |
| 25-29                     | 15.5                        | 60.8               | 2,237           | 60.6  | 1,361                                  |
| 30-34                     | 16.7                        | 62.3               | 1,862           | 55.0  | 1,160                                  |
| 35-39                     | 14.2                        | 61.5               | 1,697           | 55.0  | 1,044                                  |
| 40-44                     | 13.2                        | 58.9               | 1,253           | 52.8  | 738                                    |
| 45-49                     | 11.2                        | 52.5               | 900             | 52.6  | 473                                    |
| <b>Residence</b>          |                             |                    |                 |   |  |
| Urban                     | 19.4                        | 75.0               | 6,374           | 62.5  | 4,780                                  |
| Rural                     | 3.2                         | 33.8               | 7,309           | 33.7  | 2,472                                  |
| <b>Province</b>           |                             |                    |                 |   |  |
| Central                   | 9.3                         | 54.6               | 1,165           | 52.9  | 637                                    |
| Copperbelt                | 13.7                        | 72.0               | 2,201           | 56.5  | 1,584                                  |
| Eastern                   | 4.6                         | 37.7               | 1,605           | 29.2  | 605                                    |
| Luapula                   | 3.8                         | 32.1               | 1,071           | 57.5  | 344                                    |
| Lusaka                    | 24.2                        | 77.6               | 2,733           | 65.2  | 2,121                                  |
| Muchinga                  | 2.9                         | 29.7               | 754             | 48.6  | 224                                    |
| Northern                  | 3.5                         | 27.5               | 1,054           | 50.5  | 290                                    |
| North Western             | 8.0                         | 44.1               | 718             | 45.7  | 316                                    |
| Southern                  | 8.0                         | 52.4               | 1,574           | 41.1  | 825                                    |
| Western                   | 5.8                         | 37.9               | 808             | 29.7  | 306                                    |
| <b>Education</b>          |                             |                    |                 |   |  |
| No education              | 1.1                         | 23.2               | 1,054           | 30.5  | 244                                    |
| Primary                   | 2.6                         | 36.0               | 6,059           | 36.4  | 2,181                                  |
| Secondary                 | 12.7                        | 70.2               | 5,816           | 56.2  | 4,080                                  |
| Higher                    | 74.8                        | 99.0               | 755             | 88.0  | 748                                    |
| <b>Wealth quintile</b>    |                             |                    |                 |   |  |
| Lowest                    | 0.3                         | 14.3               | 2,442           | 20.8  | 349                                    |
| Second                    | 1.1                         | 28.9               | 2,387           | 26.1  | 691                                    |
| Middle                    | 2.3                         | 49.7               | 2,477           | 34.5  | 1,230                                  |
| Fourth                    | 8.3                         | 70.8               | 3,011           | 51.8  | 2,133                                  |
| Highest                   | 33.7                        | 84.7               | 3,367           | 71.5  | 2,850                                  |
| Total                     | 10.8                        | 53.0               | 13,683          | 52.7  | 7,253                                  |

**Table 16.7.2 Ownership and use of bank accounts and mobile phones: Men**

Percentage of men age 15-49 who have and use an account in a bank or other financial institution and percentage who own a mobile phone, and among men who own a mobile phone, percentage who use it for financial transactions, according to background characteristics, Zambia DHS 2018

| Background characteristic | Have and use a bank account | Own a mobile phone | Number of men | Use mobile phone for financial transactions | Number of men who own a mobile phone |
|---------------------------|-----------------------------|--------------------|---------------|---|--------------------------------------|
| <b>Age</b>                |                             |                    |               |   |                                      |
| 15-19                     | 1.7                         | 42.3               | 2,781         | 30.8  | 1,175                                |
| 20-24                     | 12.0                        | 69.8               | 2,032         | 52.2  | 1,418                                |
| 25-29                     | 24.1                        | 75.1               | 1,721         | 60.6  | 1,293                                |
| 30-34                     | 26.1                        | 75.9               | 1,383         | 58.4  | 1,050                                |
| 35-39                     | 27.5                        | 75.6               | 1,280         | 58.2  | 968                                  |
| 40-44                     | 27.6                        | 73.1               | 1,097         | 59.9  | 802                                  |
| 45-49                     | 28.1                        | 71.6               | 883           | 56.3  | 632                                  |
| <b>Residence</b>          |                             |                    |               |   |                                      |
| Urban                     | 30.6                        | 77.6               | 5,013         | 67.7  | 3,889                                |
| Rural                     | 7.0                         | 56.0               | 6,165         | 36.6  | 3,449                                |
| <b>Province</b>           |                             |                    |               |   |                                      |
| Central                   | 13.1                        | 68.3               | 979           | 58.0  | 669                                  |
| Copperbelt                | 28.2                        | 72.9               | 1,727         | 68.9  | 1,259                                |
| Eastern                   | 7.8                         | 61.8               | 1,476         | 25.8  | 912                                  |
| Luapula                   | 8.5                         | 49.2               | 849           | 51.6  | 418                                  |
| Lusaka                    | 35.7                        | 77.8               | 2,166         | 66.8  | 1,685                                |
| Muchinga                  | 7.5                         | 54.1               | 599           | 46.0  | 324                                  |
| Northern                  | 6.6                         | 48.2               | 855           | 49.0  | 412                                  |
| North Western             | 19.8                        | 56.6               | 556           | 53.2  | 315                                  |
| Southern                  | 9.6                         | 74.2               | 1,395         | 45.8  | 1,036                                |
| Western                   | 8.0                         | 53.7               | 574           | 23.8  | 308                                  |
| <b>Education</b>          |                             |                    |               |   |                                      |
| No education              | 5.9                         | 39.4               | 446           | 23.4  | 176                                  |
| Primary                   | 3.8                         | 49.6               | 4,206         | 30.9  | 2,087                                |
| Secondary                 | 18.5                        | 74.5               | 5,618         | 58.0  | 4,185                                |
| Higher                    | 81.9                        | 98.2               | 907           | 88.3  | 891                                  |
| <b>Wealth quintile</b>    |                             |                    |               |   |                                      |
| Lowest                    | 0.5                         | 34.6               | 1,827         | 21.4  | 632                                  |
| Second                    | 2.6                         | 55.9               | 1,952         | 29.9  | 1,090                                |
| Middle                    | 7.5                         | 67.1               | 2,218         | 40.1  | 1,489                                |
| Fourth                    | 21.5                        | 75.2               | 2,552         | 62.6  | 1,918                                |
| Highest                   | 45.5                        | 84.0               | 2,629         | 74.2  | 2,209                                |
| Total 15-49               | 17.6                        | 65.7               | 11,177        | 53.1  | 7,338                                |
| 50-59                     | 28.2                        | 70.0               | 955           | 47.7  | 668                                  |
| Total 15-59               | 18.4                        | 66.0               | 12,132        | 52.7  | 8,006                                |

**Table 16.8 Participation in decision making**

Percent distribution of currently married women and currently married men age 15-49 by person who usually makes decisions about various issues, Zambia DHS 2018

| Decision                          | Mainly wife | Wife and husband jointly | Mainly husband | Someone else | Other | Total | Number of women |
|-----------------------------------|-------------|--------------------------|----------------|--------------|-------|-------|-----------------|
| WOMEN                             |             |                          |                |              |       |       |                 |
| Own health care                   | 40.6        | 40.1                     | 18.9           | 0.3          | 0.1   | 100.0 | 7,648           |
| Daily household purchases         | 57.1        | 28.8                     | 13.5           | 0.5          | 0.1   | 100.0 | 7,648           |
| Major household purchases         | 11.9        | 55.7                     | 32.0           | 0.4          | 0.1   | 100.0 | 7,648           |
| Visits to her family or relatives | 24.2        | 52.4                     | 23.2           | 0.1          | 0.0   | 100.0 | 7,648           |
| MEN                               |             |                          |                |              |       |       |                 |
| Own health care                   | 17.6        | 36.3                     | 45.5           | 0.5          | 0.0   | 100.0 | 5,572           |
| Daily household purchases         | 54.4        | 31.6                     | 13.7           | 0.3          | 0.0   | 100.0 | 5,572           |
| Major household purchases         | 13.1        | 59.8                     | 26.8           | 0.2          | 0.0   | 100.0 | 5,572           |

**Table 16.9.1 Women's participation in decision making by background characteristics**

Percentage of currently married women age 15-49 who usually make specific decisions either alone or jointly with their husband, according to background characteristics, Zambia DHS 2018

| Background characteristic          | Specific decisions      |                           |                           |                                   | All four decisions | None of the four decisions | Number of women |
|------------------------------------|-------------------------|---------------------------|---------------------------|-----------------------------------|--------------------|----------------------------|-----------------|
|                                    | Woman's own health care | Daily household purchases | Major household purchases | Visits to her family or relatives |                    |                            |                 |
| <b>Age</b>                         |                         |                           |                           |                                   |                    |                            |                 |
| 15-19                              | 68.7                    | 67.9                      | 54.5                      | 63.6                              | 38.8               | 13.3                       | 437             |
| 20-24                              | 77.0                    | 82.9                      | 62.6                      | 71.2                              | 50.9               | 6.9                        | 1,438           |
| 25-29                              | 81.4                    | 87.6                      | 70.5                      | 76.9                              | 59.3               | 5.6                        | 1,544           |
| 30-34                              | 84.2                    | 87.5                      | 69.2                      | 81.6                              | 60.8               | 5.8                        | 1,396           |
| 35-39                              | 82.5                    | 87.8                      | 71.7                      | 78.1                              | 59.4               | 4.5                        | 1,307           |
| 40-44                              | 81.9                    | 88.4                      | 66.5                      | 78.0                              | 56.6               | 4.9                        | 908             |
| 45-49                              | 83.4                    | 90.7                      | 69.8                      | 81.3                              | 61.3               | 4.0                        | 618             |
| <b>Employment (past 12 months)</b> |                         |                           |                           |                                   |                    |                            |                 |
| Not employed                       | 77.2                    | 82.7                      | 65.7                      | 75.0                              | 55.7               | 9.0                        | 3,153           |
| Employed for cash                  | 85.1                    | 90.0                      | 71.9                      | 79.8                              | 60.9               | 3.3                        | 3,652           |
| Employed not for cash              | 75.5                    | 80.6                      | 55.5                      | 68.9                              | 42.1               | 5.9                        | 843             |
| <b>Number of living children</b>   |                         |                           |                           |                                   |                    |                            |                 |
| 0                                  | 76.8                    | 81.3                      | 61.6                      | 73.0                              | 50.3               | 8.0                        | 327             |
| 1-2                                | 82.4                    | 86.2                      | 69.0                      | 76.8                              | 58.2               | 5.1                        | 2,689           |
| 3-4                                | 82.1                    | 86.9                      | 69.7                      | 77.1                              | 57.5               | 5.4                        | 2,282           |
| 5+                                 | 78.1                    | 85.5                      | 64.5                      | 76.5                              | 55.0               | 7.0                        | 2,349           |
| <b>Residence</b>                   |                         |                           |                           |                                   |                    |                            |                 |
| Urban                              | 90.3                    | 94.2                      | 78.0                      | 84.9                              | 67.6               | 1.7                        | 3,080           |
| Rural                              | 74.3                    | 80.4                      | 60.5                      | 71.0                              | 49.3               | 8.8                        | 4,568           |
| <b>Province</b>                    |                         |                           |                           |                                   |                    |                            |                 |
| Central                            | 85.9                    | 88.6                      | 76.4                      | 84.3                              | 64.9               | 3.6                        | 654             |
| Copperbelt                         | 91.9                    | 96.3                      | 76.6                      | 88.2                              | 68.1               | 1.4                        | 1,043           |
| Eastern                            | 62.2                    | 73.8                      | 48.2                      | 56.9                              | 34.1               | 14.0                       | 1,075           |
| Luapula                            | 77.3                    | 79.3                      | 53.9                      | 82.1                              | 44.6               | 5.2                        | 611             |
| Lusaka                             | 92.1                    | 95.6                      | 85.2                      | 91.2                              | 77.3               | 1.3                        | 1,384           |
| Muchinga                           | 75.0                    | 79.5                      | 55.4                      | 73.1                              | 49.5               | 11.2                       | 470             |
| Northern                           | 80.8                    | 82.1                      | 69.1                      | 80.8                              | 61.5               | 8.9                        | 668             |
| North Western                      | 91.7                    | 89.8                      | 88.2                      | 89.3                              | 85.2               | 5.3                        | 359             |
| Southern                           | 73.5                    | 81.7                      | 56.5                      | 53.0                              | 35.5               | 5.7                        | 993             |
| Western                            | 73.7                    | 85.1                      | 61.7                      | 72.1                              | 48.5               | 6.9                        | 392             |
| <b>Education</b>                   |                         |                           |                           |                                   |                    |                            |                 |
| No education                       | 69.2                    | 74.7                      | 53.2                      | 69.1                              | 44.3               | 13.5                       | 743             |
| Primary                            | 77.6                    | 83.3                      | 62.3                      | 73.1                              | 51.0               | 7.2                        | 3,881           |
| Secondary                          | 86.5                    | 91.2                      | 76.2                      | 81.5                              | 64.8               | 2.7                        | 2,635           |
| Higher                             | 95.2                    | 98.4                      | 88.7                      | 93.4                              | 82.2               | 0.2                        | 389             |
| <b>Wealth quintile</b>             |                         |                           |                           |                                   |                    |                            |                 |
| Lowest                             | 71.7                    | 76.2                      | 56.1                      | 68.3                              | 46.3               | 11.4                       | 1,553           |
| Second                             | 72.6                    | 79.0                      | 57.1                      | 71.8                              | 45.5               | 8.5                        | 1,509           |
| Middle                             | 78.6                    | 86.1                      | 64.7                      | 72.8                              | 53.8               | 6.1                        | 1,468           |
| Fourth                             | 87.9                    | 93.1                      | 74.5                      | 82.7                              | 63.0               | 2.4                        | 1,620           |
| Highest                            | 92.7                    | 95.4                      | 85.1                      | 87.3                              | 74.7               | 1.2                        | 1,499           |
| Total                              | 80.8                    | 86.0                      | 67.5                      | 76.6                              | 56.7               | 5.9                        | 7,648           |

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**Table 16.9.2 Men's participation in decision making by background characteristics**

Percentage of currently married men age 15-49 who usually make specific decisions either alone or jointly with their wife, according to background characteristics, Zambia DHS 2018

| Background characteristic          | Specific decisions |                           |                           |                     |                             |               |
|------------------------------------|--------------------|---------------------------|---------------------------|---------------------|-----------------------------|---------------|
|                                    | Man's own health   | Daily household purchases | Major household purchases | All three decisions | None of the three decisions | Number of men |
| <b>Age</b>                         |                    |                           |                           |                     |                             |               |
| 15-19                              | (74.7)             | (37.8)                    | (85.3)                    | (31.8)              | (11.4)                      | 31            |
| 20-24                              | 82.0               | 54.7                      | 88.6                      | 48.4                | 5.8                         | 459           |
| 25-29                              | 82.9               | 43.1                      | 87.4                      | 38.8                | 5.6                         | 1,090         |
| 30-34                              | 82.7               | 47.2                      | 87.6                      | 39.9                | 4.3                         | 1,138         |
| 35-39                              | 83.7               | 47.0                      | 84.6                      | 39.7                | 5.3                         | 1,104         |
| 40-44                              | 80.3               | 43.4                      | 87.2                      | 37.5                | 4.8                         | 968           |
| 45-49                              | 78.3               | 40.0                      | 85.5                      | 34.3                | 6.5                         | 781           |
| <b>Employment (past 12 months)</b> |                    |                           |                           |                     |                             |               |
| Not employed                       | 79.8               | 47.4                      | 76.6                      | 42.4                | 12.4                        | 165           |
| Employed for cash                  | 81.7               | 45.2                      | 86.9                      | 39.1                | 5.4                         | 4,725         |
| Employed not for cash              | 83.2               | 44.9                      | 87.7                      | 38.0                | 2.6                         | 681           |
| <b>Number of living children</b>   |                    |                           |                           |                     |                             |               |
| 0                                  | 81.0               | 51.1                      | 87.1                      | 44.9                | 6.5                         | 237           |
| 1-2                                | 82.5               | 46.2                      | 87.6                      | 40.2                | 5.2                         | 1,897         |
| 3-4                                | 81.5               | 45.7                      | 86.0                      | 38.8                | 5.4                         | 1,560         |
| 5+                                 | 81.5               | 43.1                      | 86.2                      | 37.5                | 5.2                         | 1,877         |
| <b>Residence</b>                   |                    |                           |                           |                     |                             |               |
| Urban                              | 82.5               | 41.0                      | 85.1                      | 33.7                | 5.1                         | 2,170         |
| Rural                              | 81.4               | 47.9                      | 87.7                      | 42.5                | 5.4                         | 3,402         |
| <b>Province</b>                    |                    |                           |                           |                     |                             |               |
| Central                            | 70.2               | 21.1                      | 91.6                      | 18.0                | 3.7                         | 486           |
| Copperbelt                         | 68.4               | 38.8                      | 82.2                      | 33.9                | 10.5                        | 728           |
| Eastern                            | 73.4               | 48.9                      | 83.1                      | 42.8                | 11.0                        | 857           |
| Luapula                            | 91.7               | 52.0                      | 91.0                      | 47.8                | 4.0                         | 429           |
| Lusaka                             | 81.3               | 42.3                      | 85.0                      | 30.1                | 4.6                         | 1,022         |
| Muchinga                           | 86.0               | 51.0                      | 86.5                      | 44.5                | 3.4                         | 332           |
| Northern                           | 93.9               | 61.7                      | 91.4                      | 56.4                | 1.4                         | 475           |
| North Western                      | 94.8               | 57.1                      | 88.3                      | 53.2                | 0.5                         | 271           |
| Southern                           | 92.4               | 47.6                      | 86.5                      | 43.7                | 2.2                         | 704           |
| Western                            | 85.0               | 40.6                      | 91.2                      | 36.6                | 2.4                         | 267           |
| <b>Education</b>                   |                    |                           |                           |                     |                             |               |
| No education                       | 77.1               | 43.6                      | 84.7                      | 37.3                | 8.4                         | 276           |
| Primary                            | 81.1               | 47.3                      | 87.2                      | 41.8                | 5.6                         | 2,263         |
| Secondary                          | 82.2               | 43.9                      | 86.0                      | 37.3                | 5.1                         | 2,492         |
| Higher                             | 85.4               | 43.7                      | 88.7                      | 37.2                | 3.3                         | 541           |
| <b>Wealth quintile</b>             |                    |                           |                           |                     |                             |               |
| Lowest                             | 83.7               | 56.4                      | 88.3                      | 51.0                | 5.2                         | 1,168         |
| Second                             | 82.3               | 46.5                      | 88.4                      | 42.1                | 4.9                         | 1,087         |
| Middle                             | 78.6               | 40.7                      | 85.8                      | 34.8                | 6.5                         | 1,119         |
| Fourth                             | 80.8               | 41.3                      | 84.8                      | 34.0                | 5.7                         | 1,187         |
| Highest                            | 83.8               | 40.7                      | 86.0                      | 33.0                | 4.0                         | 1,011         |
| Total 15-49                        | 81.8               | 45.2                      | 86.7                      | 39.1                | 5.3                         | 5,572         |
| 50-59                              | 84.4               | 50.4                      | 87.8                      | 43.9                | 2.8                         | 856           |
| Total 15-59                        | 82.1               | 45.9                      | 86.8                      | 39.7                | 5.0                         | 6,428         |

Note: Figures in parentheses are based on 25-49 unweighted cases.

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**Table 16.10.1 Attitude toward wife beating: Women**

Percentage of all women age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, according to background characteristics, Zambia DHS 2018

| Background characteristic          | Husband is justified in hitting or beating his wife if she: |                 |                              |                       |   |   |      | Percentage who agree with at least one specified reason | Number |
|------------------------------------|---|-----------------|------------------------------|-----------------------|---|---|------|---|--------|
|                                    | Burns the food  | Argues with him | Goes out without telling him | Neglects the children | Makes major household purchases without telling him | Refuses to have sexual intercourse with him |      |   |        |
| <b>Age</b>                         |   |                 |                              |                       |   |   |      |   |        |
| 15-19                              | 23.5  | 33.3            | 26.9                         | 33.6                  | 28.9  | 27.0  | 47.4 | 3,000   |        |
| 20-24                              | 20.8  | 32.2            | 25.4                         | 31.8                  | 27.3  | 29.5  | 47.2 | 2,733   |        |
| 25-29                              | 20.0  | 32.5            | 24.3                         | 31.5                  | 27.2  | 28.2  | 44.7 | 2,237   |        |
| 30-34                              | 18.5  | 29.4            | 24.2                         | 27.2                  | 26.0  | 28.5  | 41.8 | 1,862   |        |
| 35-39                              | 21.4  | 32.3            | 28.2                         | 33.4                  | 28.9  | 31.4  | 48.1 | 1,697   |        |
| 40-44                              | 21.7  | 32.2            | 25.6                         | 28.1                  | 27.0  | 32.8  | 45.5 | 1,253   |        |
| 45-49                              | 24.3  | 34.0            | 28.2                         | 31.0                  | 31.0  | 34.9  | 45.9 | 900   |        |
| <b>Employment (past 12 months)</b> |   |                 |                              |                       |   |   |      |   |        |
| Not employed                       | 20.4  | 30.9            | 24.3                         | 31.1                  | 26.4  | 26.8  | 44.8 | 6,547   |        |
| Employed for cash                  | 20.0  | 31.1            | 25.4                         | 29.4                  | 26.9  | 29.4  | 43.9 | 5,696   |        |
| Employed not for cash              | 30.9  | 43.0            | 35.8                         | 40.2                  | 38.6  | 41.9  | 59.6 | 1,440   |        |
| <b>Number of living children</b>   |   |                 |                              |                       |   |   |      |   |        |
| 0                                  | 18.3  | 27.2            | 20.8                         | 27.5                  | 22.4  | 20.6  | 40.2 | 3,489   |        |
| 1-2                                | 21.0  | 32.5            | 25.8                         | 31.5                  | 27.4  | 30.0  | 46.5 | 4,427   |        |
| 3-4                                | 20.6  | 32.3            | 26.5                         | 31.0                  | 28.9  | 31.6  | 47.1 | 2,945   |        |
| 5+                                 | 26.6  | 38.0            | 32.0                         | 36.2                  | 34.4  | 37.4  | 51.2 | 2,821   |        |
| <b>Marital status</b>              |   |                 |                              |                       |   |   |      |   |        |
| Never married                      | 17.9  | 26.6            | 21.3                         | 27.5                  | 22.5  | 20.8  | 40.1 | 4,272   |        |
| Married or living together         | 23.0  | 35.5            | 28.7                         | 34.0                  | 31.1  | 33.9  | 49.7 | 7,648   |        |
| Divorced/separated/widowed         | 22.5  | 31.7            | 25.1                         | 29.0                  | 27.3  | 31.3  | 44.4 | 1,762   |        |
| <b>Residence</b>                   |   |                 |                              |                       |   |   |      |   |        |
| Urban                              | 12.9  | 23.9            | 18.2                         | 23.8                  | 18.1  | 20.8  | 37.4 | 6,374   |        |
| Rural                              | 28.7  | 39.5            | 32.7                         | 37.9                  | 36.4  | 37.0  | 53.5 | 7,309   |        |
| <b>Province</b>                    |   |                 |                              |                       |   |   |      |   |        |
| Central                            | 15.7  | 30.4            | 23.0                         | 26.0                  | 23.4  | 23.6  | 40.6 | 1,165   |        |
| Copperbelt                         | 17.3  | 33.4            | 21.3                         | 27.2                  | 23.0  | 26.1  | 44.3 | 2,201   |        |
| Eastern                            | 14.5  | 23.5            | 16.5                         | 25.1                  | 21.5  | 20.5  | 37.7 | 1,605   |        |
| Luapula                            | 45.2  | 62.0            | 46.9                         | 52.1                  | 55.5  | 58.8  | 70.0 | 1,071   |        |
| Lusaka                             | 5.5   | 13.4            | 10.7                         | 15.9                  | 9.4   | 14.2  | 26.6 | 2,733   |        |
| Muchinga                           | 39.1  | 53.2            | 43.2                         | 48.6                  | 44.7  | 48.5  | 63.5 | 754   |        |
| Northern                           | 48.4  | 60.4            | 49.8                         | 55.7                  | 54.7  | 52.9  | 71.6 | 1,054   |        |
| North Western                      | 20.1  | 23.0            | 24.8                         | 22.4                  | 24.2  | 22.5  | 32.5 | 718   |        |
| Southern                           | 19.4  | 27.9            | 31.6                         | 37.9                  | 30.0  | 30.8  | 57.1 | 1,574   |        |
| Western                            | 29.1  | 33.6            | 28.0                         | 34.9                  | 34.8  | 32.9  | 49.4 | 808   |        |
| <b>Education</b>                   |   |                 |                              |                       |   |   |      |   |        |
| No education                       | 31.6  | 40.7            | 33.7                         | 38.4                  | 38.7  | 42.0  | 53.2 | 1,054   |        |
| Primary                            | 28.6  | 40.6            | 32.7                         | 37.4                  | 35.5  | 38.0  | 54.4 | 6,059   |        |
| Secondary                          | 14.5  | 25.5            | 20.3                         | 27.0                  | 21.0  | 21.7  | 40.4 | 5,816   |        |
| Higher                             | 1.2   | 4.9             | 4.3                          | 6.5                   | 5.0   | 3.5   | 11.7 | 755   |        |
| <b>Wealth quintile</b>             |   |                 |                              |                       |   |   |      |   |        |
| Lowest                             | 35.4  | 46.0            | 37.2                         | 42.4                  | 42.9  | 44.1  | 58.6 | 2,442   |        |
| Second                             | 33.7  | 44.1            | 37.5                         | 42.6                  | 41.5  | 40.6  | 58.0 | 2,387   |        |
| Middle                             | 23.1  | 35.8            | 30.1                         | 35.9                  | 31.0  | 32.7  | 51.2 | 2,477   |        |
| Fourth                             | 14.5  | 27.4            | 19.6                         | 25.6                  | 19.9  | 24.7  | 42.6 | 3,011   |        |
| Highest                            | 7.2   | 15.7            | 12.3                         | 17.0                  | 12.2  | 12.9  | 27.6 | 3,367   |        |
| Total                              | 21.3  | 32.2            | 26.0                         | 31.3                  | 27.9  | 29.5  | 46.0 | 13,683  |        |

**Table 16.10.2 Attitude toward wife beating: Men**

Percentage of all men age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, according to background characteristics, Zambia DHS 2018

| Background characteristic          | Husband is justified in hitting or beating his wife if she: |                 |                              |                       |   |   | Percentage who agree with at least one specified reason | Number |
|------------------------------------|---|-----------------|------------------------------|-----------------------|---|---|---|--------|
|                                    | Burns the food  | Argues with him | Goes out without telling him | Neglects the children | Makes major household purchases without telling him | Refuses to have sexual intercourse with him |   |        |
| <b>Age</b>                         |   |                 |                              |                       |   |   |   |        |
| 15-19                              | 7.9   | 18.4            | 14.9                         | 21.2                  | 12.5  | 10.9  | 32.4  | 2,781  |
| 20-24                              | 6.5   | 16.7            | 12.1                         | 17.2                  | 11.7  | 9.4   | 28.9  | 2,032  |
| 25-29                              | 5.2   | 12.7            | 12.6                         | 14.6                  | 9.7   | 9.3   | 24.2  | 1,721  |
| 30-34                              | 3.9   | 11.9            | 10.3                         | 12.3                  | 8.7   | 10.6  | 21.7  | 1,383  |
| 35-39                              | 4.3   | 10.8            | 11.1                         | 12.4                  | 8.8   | 8.4   | 20.5  | 1,280  |
| 40-44                              | 4.9   | 12.2            | 11.2                         | 11.6                  | 9.5   | 8.6   | 21.5  | 1,097  |
| 45-49                              | 4.1   | 9.6             | 8.6                          | 9.9                   | 7.4   | 7.6   | 17.4  | 883    |
| <b>Employment (past 12 months)</b> |   |                 |                              |                       |   |   |   |        |
| Not employed                       | 5.7   | 13.0            | 12.2                         | 15.4                  | 9.5   | 8.2   | 24.8  | 2,394  |
| Employed for cash                  | 5.4   | 13.2            | 11.6                         | 14.3                  | 10.2  | 9.9   | 24.0  | 7,316  |
| Employed not for cash              | 7.7   | 21.2            | 15.2                         | 21.7                  | 12.3  | 10.4  | 34.7  | 1,468  |
| <b>Number of living children</b>   |   |                 |                              |                       |   |   |   |        |
| 0                                  | 7.0   | 16.4            | 12.7                         | 18.1                  | 10.8  | 9.6   | 28.3  | 5,028  |
| 1-2                                | 5.2   | 13.6            | 12.4                         | 14.5                  | 11.0  | 9.5   | 25.0  | 2,523  |
| 3-4                                | 4.2   | 10.5            | 10.6                         | 11.4                  | 7.8   | 9.3   | 20.4  | 1,678  |
| 5+                                 | 4.5   | 12.6            | 11.9                         | 13.8                  | 10.3  | 9.9   | 23.5  | 1,948  |
| <b>Marital status</b>              |   |                 |                              |                       |   |   |   |        |
| Never married                      | 7.0   | 16.5            | 12.9                         | 18.1                  | 11.1  | 9.6   | 28.5  | 5,142  |
| Married or living together         | 4.4   | 11.9            | 11.4                         | 13.2                  | 9.2   | 9.3   | 22.6  | 5,572  |
| Divorced/separated/widowed         | 7.2   | 17.1            | 13.5                         | 14.3                  | 15.1  | 12.6  | 28.4  | 463    |
| <b>Residence</b>                   |   |                 |                              |                       |   |   |   |        |
| Urban                              | 4.6   | 12.4            | 9.2                          | 12.2                  | 7.6   | 7.2   | 21.0  | 5,013  |
| Rural                              | 6.6   | 15.7            | 14.5                         | 18.2                  | 12.6  | 11.5  | 29.3  | 6,165  |
| <b>Province</b>                    |   |                 |                              |                       |   |   |   |        |
| Central                            | 3.5   | 11.1            | 11.0                         | 11.2                  | 7.7   | 4.5   | 19.4  | 979    |
| Copperbelt                         | 9.3   | 20.3            | 14.2                         | 18.5                  | 11.6  | 12.9  | 30.6  | 1,727  |
| Eastern                            | 2.6   | 8.8             | 7.0                          | 9.3                   | 5.2   | 5.4   | 17.7  | 1,476  |
| Luapula                            | 7.5   | 11.3            | 13.9                         | 25.0                  | 20.7  | 23.8  | 43.3  | 849    |
| Lusaka                             | 1.6   | 6.5             | 5.1                          | 5.8                   | 3.5   | 3.4   | 12.0  | 2,166  |
| Muchinga                           | 9.7   | 22.1            | 16.7                         | 20.7                  | 12.7  | 19.3  | 33.1  | 599    |
| Northern                           | 14.1  | 25.5            | 21.2                         | 29.2                  | 22.8  | 19.6  | 37.5  | 855    |
| North Western                      | 5.2   | 15.8            | 18.1                         | 16.9                  | 8.7   | 6.4   | 26.5  | 556    |
| Southern                           | 4.7   | 17.2            | 15.8                         | 19.5                  | 12.6  | 5.8   | 30.7  | 1,395  |
| Western                            | 6.0   | 14.9            | 12.6                         | 15.3                  | 9.2   | 8.3   | 27.4  | 574    |
| <b>Education</b>                   |   |                 |                              |                       |   |   |   |        |
| No education                       | 5.4   | 13.4            | 12.0                         | 14.2                  | 9.8   | 11.7  | 23.5  | 446    |
| Primary                            | 8.3   | 17.2            | 16.1                         | 19.0                  | 13.3  | 12.6  | 30.7  | 4,206  |
| Secondary                          | 4.7   | 13.9            | 10.7                         | 14.9                  | 9.5   | 8.5   | 24.8  | 5,618  |
| Higher                             | 0.5   | 3.4             | 3.0                          | 3.6                   | 2.2   | 1.4   | 7.7   | 907    |
| <b>Wealth quintile</b>             |   |                 |                              |                       |   |   |   |        |
| Lowest                             | 9.0   | 17.6            | 17.5                         | 21.0                  | 15.5  | 16.0  | 33.1  | 1,827  |
| Second                             | 7.2   | 16.3            | 15.0                         | 19.9                  | 13.4  | 12.0  | 32.2  | 1,952  |
| Middle                             | 6.0   | 16.2            | 13.3                         | 16.7                  | 11.5  | 10.2  | 27.7  | 2,218  |
| Fourth                             | 5.1   | 14.6            | 11.0                         | 13.8                  | 9.2   | 7.6   | 23.3  | 2,552  |
| Highest                            | 2.7   | 8.4             | 6.6                          | 9.1                   | 4.5   | 4.7   | 15.8  | 2,629  |
| Total 15-49                        | 5.7   | 14.2            | 12.2                         | 15.5                  | 10.3  | 9.6   | 25.6  | 11,177 |
| 50-59                              | 4.3   | 10.2            | 8.6                          | 9.8                   | 8.2   | 8.5   | 17.6  | 955    |
| Total 15-59                        | 5.6   | 13.9            | 11.9                         | 15.1                  | 10.2  | 9.5   | 24.9  | 12,132 |

**Table 16.11 Attitudes toward negotiating safer sexual relations with husband**

Percentage of women and men age 15-49 who believe that a woman is justified in refusing to have sexual intercourse with her husband if she knows that he has sexual intercourse with other women, percentage who believe that a woman is justified in asking that they use a condom if she knows that her husband has a sexually transmitted infection (STI), and percentage of women age 15-49 who believe that a woman is justified in refusing to have sexual intercourse with her husband if she knows he has an STI according to background characteristics, Zambia DHS 2018

| Background characteristic  | Women   |   |   |                 | Men   |  |               |
|----------------------------|---|---|---|-----------------|---|--|---------------|
|                            | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if her husband has an STI | Refusing to have sexual intercourse with her husband if she knows he has an STI | Number of women | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if she knows that her husband has an STI | Number of men |
| <b>Age</b>                 |   |   |   |                 |   |  |               |
| 15-24                      | 53.2  | 68.1  | 54.9  | 5,733           | 63.9  | 76.8   | 4,813         |
| 15-19                      | 50.5  | 61.9  | 50.0  | 3,000           | 62.5  | 73.5   | 2,781         |
| 20-24                      | 56.3  | 74.9  | 60.2  | 2,733           | 65.9  | 81.4   | 2,032         |
| 25-29                      | 57.1  | 77.1  | 63.7  | 2,237           | 68.9  | 82.3   | 1,721         |
| 30-39                      | 57.5  | 76.4  | 64.6  | 3,559           | 66.2  | 83.0   | 2,663         |
| 40-49                      | 56.5  | 75.5  | 65.0  | 2,153           | 68.3  | 85.0   | 1,981         |
| <b>Marital status</b>      |   |   |   |                 |   |  |               |
| Never married              | 56.0  | 66.9  | 55.8  | 4,272           | 66.0  | 77.8   | 5,142         |
| Ever had sex               | 61.8  | 77.0  | 64.9  | 2,477           | 68.9  | 83.0   | 3,303         |
| Never had sex              | 47.8  | 53.0  | 43.2  | 1,796           | 60.7  | 68.4   | 1,839         |
| Married or living together | 55.0  | 75.0  | 62.1  | 7,648           | 66.0  | 83.2   | 5,572         |
| Divorced/separated/widowed | 56.6  | 78.2  | 64.6  | 1,762           | 66.4  | 80.7   | 463           |
| <b>Residence</b>           |   |   |   |                 |   |  |               |
| Urban                      | 59.3  | 74.9  | 62.6  | 6,374           | 72.2  | 81.5   | 5,013         |
| Rural                      | 52.2  | 71.1  | 58.5  | 7,309           | 61.0  | 79.8   | 6,165         |
| <b>Province</b>            |   |   |   |                 |   |  |               |
| Central                    | 52.1  | 69.6  | 54.4  | 1,165           | 65.0  | 85.5   | 979           |
| Copperbelt                 | 62.3  | 76.3  | 68.3  | 2,201           | 60.0  | 69.3   | 1,727         |
| Eastern                    | 59.2  | 81.3  | 65.4  | 1,605           | 69.7  | 81.4   | 1,476         |
| Luapula                    | 49.3  | 70.9  | 59.9  | 1,071           | 47.4  | 61.0   | 849           |
| Lusaka                     | 58.0  | 71.9  | 61.0  | 2,733           | 80.2  | 87.4   | 2,166         |
| Muchinga                   | 50.9  | 61.1  | 46.1  | 754             | 54.4  | 74.7   | 599           |
| Northern                   | 43.0  | 51.7  | 43.8  | 1,054           | 65.8  | 78.0   | 855           |
| North Western              | 60.4  | 67.6  | 57.1  | 718             | 72.4  | 87.1   | 556           |
| Southern                   | 53.7  | 85.8  | 65.2  | 1,574           | 60.0  | 88.4   | 1,395         |
| Western                    | 53.8  | 75.7  | 65.2  | 808             | 70.8  | 91.8   | 574           |
| <b>Education</b>           |   |   |   |                 |   |  |               |
| No education               | 48.0  | 62.5  | 50.9  | 1,054           | 63.3  | 75.5   | 446           |
| Primary                    | 51.0  | 70.4  | 57.8  | 6,059           | 61.3  | 78.1   | 4,206         |
| Secondary                  | 59.0  | 75.7  | 62.9  | 5,816           | 68.3  | 81.5   | 5,618         |
| Higher                     | 74.7  | 85.9  | 75.9  | 755             | 75.0  | 88.9   | 907           |
| <b>Wealth quintile</b>     |   |   |   |                 |   |  |               |
| Lowest                     | 50.8  | 66.4  | 54.8  | 2,442           | 61.0  | 77.1   | 1,827         |
| Second                     | 50.2  | 70.1  | 58.1  | 2,387           | 59.3  | 78.7   | 1,952         |
| Middle                     | 52.5  | 74.0  | 60.2  | 2,477           | 62.8  | 81.5   | 2,218         |
| Fourth                     | 58.0  | 74.3  | 61.1  | 3,011           | 69.9  | 79.7   | 2,552         |
| Highest                    | 62.6  | 77.4  | 65.7  | 3,367           | 73.4  | 84.3   | 2,629         |
| Total 15-49                | 55.5  | 72.9  | 60.4  | 13,683          | 66.0  | 80.6   | 11,177        |
| 50-59                      | na  | na  | na  | na              | 66.2  | 82.0   | 955           |
| Total 15-59                | na  | na  | na  | na              | 66.0  | 80.7   | 12,132        |

na = Not applicable

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**Table 16.12 Ability to negotiate sexual relations with husband**

Percentage of currently married women age 15-49 who can say no to their husband if they do not want to have sexual intercourse, and percentage who can ask their husband to use a condom, according to background characteristics, Zambia DHS 2018

| Background characteristic | Percentage who can say no to their husband if they do not want to have sexual intercourse | Percentage who can ask their husband to use a condom | Number of women |
|---------------------------|---|--|-----------------|
| <b>Age</b>                |   |  |                 |
| 15-24                     | 62.7  | 71.0   | 1,875           |
| 15-19                     | 61.3  | 67.5   | 437             |
| 20-24                     | 63.1  | 72.0   | 1,438           |
| 25-29                     | 65.3  | 72.8   | 1,544           |
| 30-39                     | 65.9  | 73.9   | 2,703           |
| 40-49                     | 64.6  | 69.8   | 1,525           |
| <b>Residence</b>          |   |  |                 |
| Urban                     | 66.7  | 74.5   | 3,080           |
| Rural                     | 63.4  | 70.5   | 4,568           |
| <b>Province</b>           |   |  |                 |
| Central                   | 60.8  | 72.0   | 654             |
| Copperbelt                | 57.1  | 66.2   | 1,043           |
| Eastern                   | 74.4  | 83.7   | 1,075           |
| Luapula                   | 58.5  | 64.7   | 611             |
| Lusaka                    | 73.0  | 75.5   | 1,384           |
| Muchinga                  | 47.7  | 59.1   | 470             |
| Northern                  | 50.5  | 55.0   | 668             |
| North Western             | 78.4  | 78.4   | 359             |
| Southern                  | 68.0  | 79.8   | 993             |
| Western                   | 69.7  | 75.9   | 392             |
| <b>Education</b>          |   |  |                 |
| No education              | 59.0  | 63.1   | 743             |
| Primary                   | 61.8  | 69.1   | 3,881           |
| Secondary                 | 67.8  | 76.5   | 2,635           |
| Higher                    | 83.9  | 90.3   | 389             |
| <b>Wealth quintile</b>    |   |  |                 |
| Lowest                    | 61.9  | 67.4   | 1,553           |
| Second                    | 62.9  | 70.4   | 1,509           |
| Middle                    | 61.8  | 71.6   | 1,468           |
| Fourth                    | 65.0  | 70.9   | 1,620           |
| Highest                   | 72.1  | 80.7   | 1,499           |
| Total                     | 64.7  | 72.1   | 7,648           |

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**Table 16.13 Indicators of women's empowerment**

Percentage of currently married women age 15-49 who participate in all decision making, percentage who disagree with all of the reasons justifying wife beating, and percentage who agree with all of the reasons for refusing sexual intercourse with husband according to value on each of the indicators of women's empowerment, Zambia DHS 2018

| Empowerment indicator  | Percentage who participate in all decision making | Percentage who disagree with all of the reasons justifying wife beating | Percentage who agree with all of the reasons for refusing sexual intercourse with husband | Number of women |
|--|---|---|---|-----------------|
| <b>Number of decisions in which women participate<sup>1</sup></b>        |   |   |   |                 |
| 0  | na  | 41.0  | 65.3  | 453             |
| 1-2  | na  | 35.7  | 72.2  | 1,526           |
| 3-4  | na  | 55.0  | 74.8  | 5,670           |
| <b>Number of reasons for which wife beating is justified<sup>2</sup></b> |   |   |   |                 |
| 0  | 14.5  | na  | 73.5  | 3,850           |
| 1-2  | 22.0  | na  | 76.6  | 1,206           |
| 3-4  | 23.0  | na  | 78.1  | 1,035           |
| 5-6  | 17.6  | na  | 69.0  | 1,558           |

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na = Not applicable

<sup>1</sup> See Table 16.9.1 for the list of decisions.

<sup>2</sup> See Table 16.10.1 for the list of reasons.

**Table 16.14 Current use of contraception by women's empowerment**

Percent distribution of currently married women age 15-49 by current contraceptive method, according to selected indicators of women's status, Zambia DHS 2018

| Empowerment indicator  | Modern methods |                                |                      |                    |  |             |                        |                     |       | Number of women |
|--|----------------|--------------------------------|----------------------|--------------------|--|-------------|------------------------|---------------------|-------|-----------------|
|  | Any method     | Any modern method <sup>1</sup> | Female sterilisation | Male sterilisation | Temporary modern female methods <sup>2</sup> | Male condom | Any traditional method | Not currently using | Total |                 |
| <b>Number of decisions in which women participate<sup>3</sup></b>        |                |                                |                      |                    |  |             |                        |                     |       |                 |
| 0  | 44.6           | 42.1                           | 1.7                  | 0.0                | 39.0   | 1.5         | 2.5                    | 55.4                | 100.0 | 453             |
| 1-2  | 45.4           | 43.4                           | 1.4                  | 0.0                | 39.4   | 2.7         | 2.0                    | 54.6                | 100.0 | 1,526           |
| 3-4  | 51.1           | 49.0                           | 1.6                  | 0.0                | 44.2   | 3.2         | 2.1                    | 48.9                | 100.0 | 5,670           |
| <b>Number of reasons for which wife beating is justified<sup>4</sup></b> |                |                                |                      |                    |  |             |                        |                     |       |                 |
| 0  | 50.5           | 48.8                           | 2.1                  | 0.0                | 43.1   | 3.5         | 1.7                    | 49.5                | 100.0 | 3,850           |
| 1-2  | 49.0           | 47.5                           | 0.5                  | 0.0                | 43.0   | 4.0         | 1.5                    | 51.0                | 100.0 | 1,206           |
| 3-4  | 48.5           | 46.4                           | 1.2                  | 0.0                | 43.2   | 2.1         | 2.0                    | 51.5                | 100.0 | 1,035           |
| 5-6  | 48.6           | 45.0                           | 1.1                  | 0.0                | 42.3   | 1.7         | 3.6                    | 51.4                | 100.0 | 1,558           |
| Total  | 49.6           | 47.5                           | 1.5                  | 0.0                | 42.9   | 3.0         | 2.1                    | 50.4                | 100.0 | 7,648           |

Note: If more than one method is used, only the most effective method is considered in this tabulation.

<sup>1</sup> Female sterilisation, male sterilisation, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods

<sup>2</sup> Pill, IUD, injectables, implants, female condom, emergency contraception, standard days method, lactational amenorrhoea method, and other modern methods

<sup>3</sup> See Table 16.9.1 for the list of decisions.

<sup>4</sup> See Table 16.10.1 for the list of reasons.

**Table 16.15 Ideal number of children and unmet need for family planning by women's empowerment**

Mean ideal number of children for women age 15-49 and percentage of currently married women age 15-49 with an unmet need for family planning, according to indicators of women's empowerment, Zambia DHS 2018

| Empowerment indicator  | Mean ideal number of children <sup>1</sup> | Number of women | Percentage of currently married women with an unmet need for family planning <sup>2</sup> |              |       | Number of currently married women |
|--|--|-----------------|---|--------------|-------|-----------------------------------|
|  |  |                 | For spacing   | For limiting | Total |                                   |
| <b>Number of decisions in which women participate<sup>3</sup></b>        |  |                 |   |              |       |                                   |
| 0  | 5.4  | 427             | 16.9  | 5.2          | 22.1  | 453                               |
| 1-2  | 5.3  | 1,490           | 14.8  | 7.7          | 22.4  | 1,526                             |
| 3-4  | 5.0  | 5,556           | 11.0  | 7.7          | 18.7  | 5,670                             |
| <b>Number of reasons for which wife beating is justified<sup>4</sup></b> |  |                 |   |              |       |                                   |
| 0  | 4.3  | 7,224           | 11.5  | 8.5          | 20.0  | 3,850                             |
| 1-2  | 4.7  | 2,089           | 12.4  | 7.0          | 19.4  | 1,206                             |
| 3-4  | 4.9  | 1,671           | 11.9  | 6.1          | 18.0  | 1,035                             |
| 5-6  | 5.1  | 2,386           | 13.4  | 6.7          | 20.1  | 1,558                             |
| Total  | 4.6  | 13,370          | 12.1  | 7.6          | 19.7  | 7,648                             |

<sup>1</sup> Mean excludes respondents who gave non-numeric responses.

<sup>2</sup> Figures for unmet need correspond to the revised definition described in Bradley et al. 2012.

<sup>3</sup> Restricted to currently married women. See Table 16.9.1 for the list of decisions.

<sup>4</sup> See Table 16.10.1 for the list of reasons.

**Table 16.16 Reproductive health care by women's empowerment**

Percentage of women age 15-49 with a live birth in the 5 years preceding the survey who received antenatal care, delivery assistance, and postnatal care from health personnel for the most recent birth, according to indicators of women's empowerment, Zambia DHS 2018

| Empowerment indicator  | Percentage receiving antenatal care from a skilled provider <sup>1</sup> | Percentage receiving delivery care from a skilled provider <sup>1</sup> | Percentage with a postnatal check during the first 2 days after birth <sup>2</sup> | Number of women with a live birth in the last 5 years |
|--|--|---|--|---|
| <b>Number of decisions in which women participate<sup>1</sup></b>        |  |   |  |   |
| 0  | 91.6   | 71.1  | 54.2   | 366   |
| 1-2  | 95.6   | 77.6  | 62.1   | 1,153   |
| 3-4  | 97.9   | 84.7  | 71.5   | 3,986   |
| Total  | 96.9   | 82.6  | 68.6   | 7,325   |
| <b>Number of reasons for which wife beating is justified<sup>2</sup></b> |  |   |  |   |
| 0  | 97.8   | 86.7  | 71.7   | 3,662   |
| 1-2  | 96.5   | 80.9  | 68.7   | 1,129   |
| 3-4  | 98.2   | 79.7  | 67.9   | 974   |
| 5-6  | 94.2   | 76.0  | 61.6   | 1,560   |

<sup>1</sup> Skilled provider includes doctor, nurse, midwife, or clinical officer.

<sup>2</sup> Includes women who received a postnatal checkup from a doctor, nurse, midwife, community health worker, or traditional birth attendant (TBA) in the first 2 days after the birth. Includes women who gave birth in a health facility and those who did not give birth in a health facility.

<sup>3</sup> Restricted to currently married women. See Table 16.9.1 for the list of decisions.

<sup>4</sup> See Table 16.10.1 for the list of reasons.

**Table 16.17 Early childhood mortality rates by indicators of women's empowerment**

Infant, child, and under-5 mortality rates for the 10-year period preceding the survey, according to indicators of women's empowerment, Zambia DHS 2018

| Empowerment indicator  | Infant mortality<br>( <sub>1</sub> Q <sub>0</sub> ) | Child mortality<br>( <sub>4</sub> Q <sub>1</sub> ) | Under-5 mortality<br>( <sub>5</sub> Q <sub>0</sub> ) |
|--|---|--|--|
| <b>Number of decisions in which women participate<sup>1</sup></b>        |   |  |  |
| 0  | 40  | 28   | 66   |
| 1-2  | 47  | 22   | 68   |
| 3-4  | 39  | 21   | 59   |
| <b>Number of reasons for which wife beating is justified<sup>2</sup></b> |   |  |  |
| 0  | 43  | 21   | 63   |
| 1-2  | 48  | 24   | 71   |
| 3-4  | 32  | 27   | 58   |
| 5-6  | 43  | 23   | 66   |

<sup>1</sup> Restricted to currently married women. See Table 16.9.1 for the list of decisions.

<sup>2</sup> See Table 16.10.1 for the list of reasons.

**Table 16.18 Widows dispossessed of property**

Percentage of de facto women age 15-49 who have been widowed, and percentage of widowed women who have been dispossessed of property, according to background characteristics, Zambia DHS 2018

| Background characteristic    | Percentage of women who have been widowed | Number of women | Among ever-widowed women:                                 |                 |
|------------------------------|---|-----------------|---|-----------------|
|                              |   |                 | Percentage who were dispossessed of property <sup>1</sup> | Number of women |
| <b>Age</b>                   |   |                 |   |                 |
| 15-19                        | 0.0                                       | 3,000           | *   | 0               |
| 20-29                        | 0.8                                       | 4,971           | (62.4)  | 39              |
| 30-39                        | 3.4                                       | 3,559           | 49.1  | 122             |
| 40-49                        | 10.7                                      | 2,153           | 43.2  | 231             |
| <b>Age of youngest child</b> |   |                 |   |                 |
| <18 years                    | 3.3                                       | 9,936           | 46.7  | 327             |
| 18+ years                    | 21.2                                      | 259             | (50.7)  | 55              |
| No children                  | 0.3                                       | 3,489           | *   | 10              |
| <b>Residence</b>             |   |                 |   |                 |
| Urban                        | 3.2                                       | 6,374           | 53.9  | 205             |
| Rural                        | 2.6                                       | 7,309           | 58.9  | 188             |
| <b>Province</b>              |   |                 |   |                 |
| Central                      | 2.8                                       | 1,165           | (36.9)  | 33              |
| Copperbelt                   | 3.4                                       | 2,201           | 51.4  | 75              |
| Eastern                      | 2.4                                       | 1,605           | (59.6)  | 38              |
| Luapula                      | 2.3                                       | 1,071           | (51.4)  | 25              |
| Lusaka                       | 3.4                                       | 2,733           | 42.7  | 93              |
| Muchinga                     | 3.2                                       | 754             | (46.1)  | 24              |
| Northern                     | 2.4                                       | 1,054           | (39.5)  | 26              |
| North Western                | 1.9                                       | 718             | *   | 13              |
| Southern                     | 2.2                                       | 1,574           | (54.5)  | 35              |
| Western                      | 3.8                                       | 808             | (44.0)  | 31              |
| <b>Education</b>             |   |                 |   |                 |
| No education                 | 5.0                                       | 1,054           | 46.5  | 52              |
| Primary                      | 3.4                                       | 6,059           | 46.0  | 208             |
| Secondary                    | 1.9                                       | 5,816           | 51.5  | 113             |
| Higher                       | 2.4                                       | 755             | *   | 18              |
| <b>Wealth quintile</b>       |   |                 |   |                 |
| Lowest                       | 3.2                                       | 2,442           | 48.4  | 79              |
| Second                       | 2.7                                       | 2,387           | 50.0  | 65              |
| Middle                       | 2.5                                       | 2,477           | 43.5  | 61              |
| Fourth                       | 3.2                                       | 3,011           | 45.4  | 96              |
| Highest                      | 2.7                                       | 3,367           | 47.6  | 90              |
| Total                        | 2.9                                       | 13,683          | 47.0  | 392             |

Note: Table is based only on women and men who slept in the household the night preceding the interview. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Dispossessed of property indicates that none of the late husband's assets went to the respondent.

### Key Findings

- **Experience of violence:** More than one-third (36%) of women age 15-49 have experienced physical violence at least once since age 15, and 18% experienced physical violence within the 12 months prior to the survey.
- **Marital control:** Thirty-two percent of ever-married women age 15-49 reported that their current or most recent husband or partner has ever exhibited at least three types of specified controlling behaviours.
- **Spousal violence:** Forty-seven percent of ever-married women have experienced physical, sexual, or emotional violence by their current or most recent husband or partner.
- **Injuries due to spousal violence:** Among ever-married women who had experienced spousal physical violence in the past 12 months, 35% reported having sustained physical injuries.
- **Help seeking:** More than half (52%) of women never sought help and never told anyone about the violence they had experienced.

**G**ender-based violence (GBV) against women has been acknowledged worldwide as a violation of basic human rights. Increasing research has highlighted the health burdens, intergenerational effects, and demographic consequences of such violence (United Nations 2006). GBV is defined by the United Nations as any act of violence that results in physical, sexual, or psychological harm or suffering to women, girls, men, and boys, as well as threats of such acts, coercion, or the arbitrary deprivation of liberty. This chapter focuses on domestic violence, a form of gender-based violence.

The Zambian government is committed to supporting programmes aimed at preventing GBV. GBV in Zambia has long been recognised as a problem that needs to be addressed. Women and girls face physical, emotional, and sexual abuses that undermine their health and ability to earn a living, disrupt their social systems and relationships, and rob them of their childhood and education. To combat GBV, the government has made it a priority to facilitate a review of the National Gender Policy, 2014 and enact the Anti-Gender Based Violence Act, No. 1 of 2011.

#### *Domestic Violence Subsample*

Accordingly, the 2018 ZDHS implemented a module of questions on domestic violence, the most common form of violence against women. In accord with the World Health Organization's guidelines on the ethical collection of information on domestic violence, only one eligible woman per household was randomly selected for interviewing, and the module was not implemented if privacy could not be obtained. These restrictions resulted in a total of 9,503 women being successfully interviewed. Specially constructed weights were used to adjust for the selection of only one woman per household and to ensure that the domestic violence subsample was nationally representative.

## 17.1 MEASUREMENT OF VIOLENCE

In the 2018 ZDHS, information was obtained from never-married women on their experience of violence committed by anyone and from ever-married women on their experience of violence committed by their current and former husbands/partners and by others. More specifically, violence committed by the current husband/partner (for currently married women) and by the most recent husband/partner (for formerly married women) was measured by asking all ever-married women if their husband/partner ever did the following to them:

- **Physical spousal violence:** push you, shake you, or throw something at you; slap you; twist your arm or pull your hair; punch you with his fist or with something that could hurt you; kick you, drag you, or beat you up; try to choke you or burn you on purpose; or threaten or attack you with a knife, gun, or any other weapon
- **Sexual spousal violence:** physically force you to have sexual intercourse with him even when you did not want to, physically force you to perform any other sexual acts you did not want to, or force you with threats or in any other way to perform sexual acts you did not want to
- **Emotional spousal violence:** say or do something to humiliate you in front of others, threaten to hurt or harm you or someone close to you, or insult you or make you feel bad about yourself

In addition, information was obtained from all women (married and unmarried) about physical violence committed by anyone (other than a current or most recent husband/partner) since they were age 15 by asking if anyone had hit, slapped, kicked, or done something else to hurt them physically. Similarly, information was gathered on experiences of sexual violence committed by anyone (other than a current or most recent husband/partner) by asking women if at any time in their life, as a child or as an adult, they were forced in any way to have sexual intercourse or to perform any other sexual acts when they did not want to.

In this chapter, married women include both women who said they were married and women who said they were living with a man as if married. Correspondingly, husbands include both husbands of married women and partners of women who are not married but are living with a man as if married.

## 17.2 WOMEN'S EXPERIENCE OF PHYSICAL VIOLENCE

### Physical violence by anyone

Percentage of women who have experienced any physical violence (committed by a husband or anyone else) since age 15 and in the 12 months before the survey.

**Sample:** Women age 15-49

### 17.2.1 Prevalence of Physical Violence

Thirty-six percent of women age 15-49 have experienced physical violence since age 15, and 18% experienced physical violence in the 12 months prior to the survey (**Table 17.1**).

**Trends:** The percentage of women who have experienced physical violence since age 15 declined from 47% in 2007 to 36% in 2018. The percentage of women who experienced physical violence in the 12 months prior to the survey declined from 32% to 18% over the same period.

## Patterns by background characteristics

- The percentage of women who have ever experienced physical violence (52%) or sexual violence (23%) since age 15 were highest among those who are divorced, separated, or widowed (**Figure 17.1**).
- Experience of physical violence increases with increasing age, from 21% among women age 15-19 to 45% among those age 40-49 (**Table 17.1**).
- The percentage of women who have experienced physical violence since age 15 is higher in rural areas (37%) than in urban areas (34%). Also, rural women (18%) are slightly more likely than urban women (17%) to have experienced physical violence often or sometimes in the last 12 months.
- By province, women's experience of physical violence since age 15 varies from 21% in North Western to 53% in Muchinga. Similarly, the percentage of women who experienced violence in the last 12 months is highest in Muchinga (28%) and lowest in North Western (8%).
- The likelihood of experiencing physical violence since age 15 is higher among women who are employed for cash (41%) than among those who are not employed (30%).

### 17.2.2 Perpetrators of Physical Violence

**Table 17.2** shows perpetrators of physical violence according to women's marital status among those who have experienced physical violence since age 15. The most commonly reported perpetrators among ever-married women are current husbands/partners (65%).

Among never-married women who have experienced physical violence since age 15, the most reported perpetrators are mothers/stepmothers (27%), fathers/stepfathers (19%), sisters/brothers (18%), other relatives and other people (14% each), and teachers (12%) (**Table 17.2**).

## 17.3 EXPERIENCE OF SEXUAL VIOLENCE

### Sexual violence

Percentage of women who have experienced any sexual violence (committed by a husband or anyone else) ever and in the 12 months before the survey.

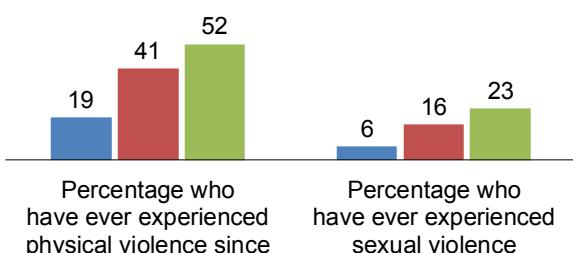
**Sample:** Women age 15-49

### 17.3.1 Prevalence of Sexual Violence

Fourteen percent of women age 15-49 have experienced sexual violence, and 8% experienced such violence in the 12 months before the survey (**Table 17.3**). The percentage of women ever experiencing sexual violence increases with age. Less than 1% of women had experienced sexual violence by age 12 and 5% by age 22 (**Table 17.4**).

**Figure 17.1 Women's experience of violence by marital status**

■ Never married ■ Married or living together ■ Divorced/separated/widowed



Percentage who have ever experienced physical violence since age 15

Percentage who have ever experienced sexual violence

## **Patterns by background characteristics**

- Women in rural areas (15%) are more likely to have ever experienced sexual violence than women in urban areas (13%). Similarly, a greater percentage of rural women (9%) than urban women (7%) experienced sexual violence in the 12 months prior to the survey.
- By province, the percentage of women who have ever experienced sexual violence is highest in Muchinga (24%) and lowest in North Western (6%). Similarly, women in Muchinga are most likely to have experienced sexual violence in the last 12 months (16%), while women in North Western are least likely to have experienced such violence (3%).
- Experience of sexual violence is more common among divorced/separated/widowed women (23%) than among those who are currently married or living with a partner (16%) and those who have never been married (6%).
- Women with a secondary or higher education are less likely to have experienced sexual violence (11% each) than women with no education (18%) and those with a primary education (16%).
- Similarly, women from households in the highest wealth quintile (11%) are less likely to experience sexual violence than those from households in the lowest and second quintiles (17%).

### **17.3.2 Perpetrators of Sexual Violence**

**Table 17.5** shows perpetrators of sexual violence among women age 15-49 who by marital status. Among ever-married women, the most common perpetrators are current husbands/partners (65%), followed by former husbands/partners (31%).

Among women who have never been married, the most common perpetrators of violence are current/former boyfriends (30%).

## **17.4 EXPERIENCE OF DIFFERENT FORMS OF VIOLENCE**

Women may experience a combination of different forms of violence. Overall, 39% of women age 15-49 experienced either physical or sexual violence. Twenty-six percent of women experienced only physical violence, 3% experienced only sexual violence, and 10% experienced both physical and sexual violence (**Table 17.6**).

## **17.5 MARITAL CONTROL BY HUSBAND**

### **Marital control**

Percentage of women whose current husband/partner (if currently married) or most recent husband/partner (if formerly married) demonstrates at least one of the following controlling behaviours: is jealous or angry if she talks to other men; frequently accuses her of being unfaithful, does not permit her to meet her female friends, tries to limit her contact with her family, and insists on knowing where she is at all times.

**Sample:** Ever-married women age 15-49

Attempts by husbands to closely control and monitor their wives' behaviour are important warning signs and correlates of violence in a relationship. Because the concentration of behaviours is more significant than the display of any single behaviour, the proportion of women whose husbands/partners display at least three of the specified behaviours is also discussed.

Thirty-two percent of ever-married women age 15-49 reported that their husband/partner demonstrates three or more of the specific behaviours. Women were most likely to report that their husband/partner is

jealous or angry if they talk to other men (57%) and that he insists on knowing where they are at all times (52%) (**Table 17.8**).

### Patterns by background characteristics

- About one-third (35%) of women in urban areas reported that their husband or partner displays three or more of the specified behaviours, as compared with 29% of those in rural areas.
- By province, the percentage of ever-married women reporting that their husband or partner displays three or more of the specified behaviours is highest in Muchinga (41%) and lowest in Central (22%).
- Women who are afraid of their husbands/partners are more likely to experience controlling behaviours than women who are not afraid of their husbands/partners. About 6 in 10 (64%) women who are afraid of their husband/partner most of the time reported experiencing at least three forms of controlling behaviours, compared with 19% of women who are never afraid of their husband/partner.

## 17.6 FORMS OF SPOUSAL VIOLENCE

### Spousal violence

Percentage of women who have experienced any of the specified acts of physical, sexual, or emotional violence committed by their current husband/partner (if currently married) or most recent husband/partner (if formerly married), ever and in the 12 months preceding the survey.

**Sample:** Ever-married women age 15-49

### 17.6.1 Prevalence of Spousal Violence

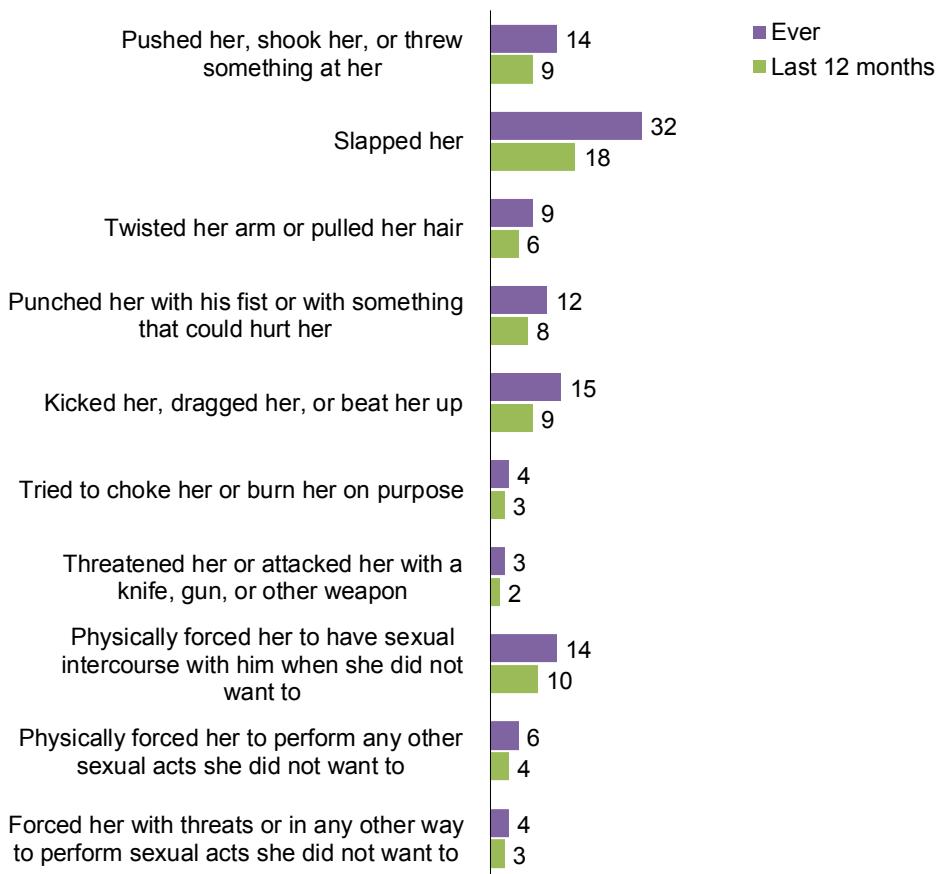
Forty-nine percent of ever-married women age 15-49 have ever experienced any form of emotional, physical, or sexual violence by an husband/partner. Thirty-nine percent have experienced physical violence, 16% experienced sexual violence, and 32% have experienced emotional violence (**Table 17.9**).

In the 12 months preceding the survey, 3 in 10 women (32%) experienced some form of physical, sexual, or emotional violence from a current or most recent husband/partner (**Table 17.12**). Among these women, 23% experienced emotional violence, 21% experienced physical violence, and 11% experienced sexual violence (**Table 17.9**).

Among specific kinds of non-emotional violence ever experienced from a current or most recent husband/partner, women were most likely to report being slapped (32%); being kicked, dragged, or beaten (15%); being physically forced to have sex when they did not want to (14%); and being pushed or shaken or having something thrown at them (14%) (**Figure 17.2**). With respect to emotional violence, women most commonly reported being insulted or made to feel bad about themselves (22%) (**Table 17.9**).

**Figure 17.2 Forms of spousal violence**

Percentage of ever-married women age 15-49 who have ever experienced specific acts of violence by their husband/partner



**Trends:** The percentage of married women age 15-49 who have ever experienced physical, sexual, or emotional violence from their spouse declined from 54% in 2007 to 47% in 2013-14 before increasing to 49% in 2018. The percentage of women who experienced spousal violence in the last 12 months declined from 47% in 2007 to 31% in 2013-14 and remained stagnant at 32% in 2018.

#### Patterns by background characteristics

**Table 17.10** provides further information on ever-married women's experience of physical, sexual, or emotional violence committed by their current or most recent spouse/partner.

- There is little variation between urban and rural areas (46% and 47%, respectively) in the percentage of women who have experienced physical, sexual, or emotional violence by their current or most recent husband/partner.
- By province, the percentage of women who have experienced physical, sexual, or emotional violence by their current or most recent husband or partner is highest in Muchinga (67%) and lowest in North Western (32%).
- Fifty-nine percent of divorced/separated/widowed women have experienced physical, sexual, or emotional violence by their current or most recent husband or partner, as compared with 44% of their counterparts who are currently married or living together with a partner.

- The percentage of women who have experienced physical, sexual, or emotional violence by their current or most recent husband/partner generally decreases with increasing education and household wealth.

### Patterns by husband's characteristics and empowerment indicators

**Table 17.11** provides further information on ever-married women's experience of physical, sexual, or emotional violence committed by their current or most recent spouse/partner.

- Women whose husband/partner has no education or only a primary education (49% each) are more likely to experience spousal violence than women whose husband/partner has a secondary (42%) or higher (35%) education.
- Women whose husband/partner is often drunk are much more likely (84%) to experience spousal violence than women whose husband/partner is sometimes drunk (59%) or does not drink alcohol (34%) (**Figure 17.3**).
- Women's likelihood of experiencing spousal violence increases with the number of marital control behaviours exhibited by their husband. Twenty percent of women whose spouse exhibits no controlling behaviours have experienced spousal violence, as compared with 84% of women whose spouse exhibits all five controlling behaviours.
- Intergenerational effects of spousal violence are evident in Zambia. Women who report that their fathers beat their mothers are more likely (61%) to have experienced spousal violence themselves than women who report that their fathers did not beat their mothers (40%).

### 17.6.2 Experience of Spousal Violence by Duration of Marriage

**Table 17.13** shows when spousal violence first occurred in relation to the start of marriage among women who have been married only once. Fourteen percent of women experienced violence by 2 years of marriage, 28% by 5 years of marriage, and 33% by 10 years of marriage. Only 1% of women experienced violence before marriage.

## 17.7 INJURIES TO WOMEN DUE TO SPOUSAL VIOLENCE

### Injuries due to spousal violence

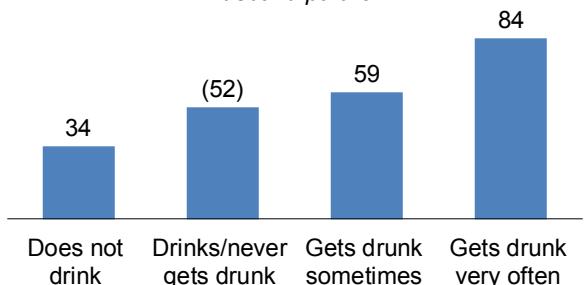
Percentage of women who have the following types of injuries from spousal violence: cuts, bruises, or aches; eye injuries, sprains, dislocations, or burns; deep wounds, broken bones, broken teeth, or any other serious injury

**Sample:** Ever-married women age 15-49 who have experienced physical or sexual violence committed by their current husband (if currently married) or most recent husband (if formerly married)

Over one-third (34%) of ever-married women age 15-49 who have ever experienced physical or sexual violence committed by their current or most recent husband/partner have sustained injuries.

**Figure 17.3 Spousal violence by husband's alcohol consumption**

Percentage of ever-married women who have ever experienced spousal (physical, sexual, or emotional) violence by their husband/partner



Note: Figures in parentheses are based on 25-49 unweighted cases.

The most commonly reported injuries were cuts, bruises, or aches; 32% of women reported that they had ever experienced these injuries, and 34% reported that they had experienced them in the 12 months prior to the survey (**Table 17.14**).

**Trends:** The percentage of women reporting any form of injury resulting from spousal violence in the 12 months prior to the survey increased from 25% in 2007 to 38% in 2013-14 before declining to 35% in 2018.

## 17.8 VIOLENCE INITIATED BY WOMEN AGAINST HUSBANDS

### Initiation of physical violence by wives

Percentage of women who have ever hit, slapped, kicked, or done anything else to physically hurt their current (if currently married) or most recent (if formerly married) husband at times when he was not already beating or physically hurting her.

**Sample:** Ever-married women age 15-49

Six percent of ever-married women age 15-49 have ever committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them. Four percent of women reported having committed physical violence against their husband/partner in the 12 months prior to the survey (**Table 17.15**).

**Trends:** The percentage of ever-married women who have committed physical violence against their current or most recent husband/partner declined from 10% in 2007 to 6% in 2018. The percentage of women who committed physical violence against their husband in the last 12 months declined from 5% to 4% over the same period.

### Patterns by background characteristics

- More women in urban areas (9%) than rural areas (4%) have committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them.
- The percentage of women who have committed physical violence against their current or most recent husband/partner is highest in Copperbelt (10%) and lowest in Western and North Western (2% each).
- Women who are divorced, separated, or widowed (7%) are more likely to have committed physical violence against their current or most recent husband/partner than those who are married or living together with a partner (5%).

## 17.9 HELP SEEKING AMONG WOMEN WHO HAVE EXPERIENCED VIOLENCE

Overall, women age 15-49 who have experienced physical or sexual violence have a tendency not to seek help or tell someone. Only 3 in 10 women (35%) who ever experienced physical or sexual violence sought help, while 13% never sought help but told someone and 52% never sought help and never told anyone (52%) (**Table 17.17**).

### Patterns by background characteristics

- Sexual violence is most likely to be underreported; only 20% of women who experienced sexual violence sought help, as compared with 33% of those who experienced physical violence and 46% of those who experienced both physical and sexual violence (**Figure 17.4**).
- More women in rural areas (38%) than urban areas (32%) sought help to stop violence.
- By province, the percentage of women who never sought help varies from 34% in Eastern to 66% in Muchinga.
- Women who are divorced, separated, or widowed are more likely to seek help (44%) than women who have never been married (27%) and those who are currently married or living with someone (35%).

### Sources for Help

Women age 15-49 who ever experienced physical or sexual violence were most likely to seek help from their own family (63%) or their husband's/partner's family (45%). Fifteen percent of women who experienced physical or sexual violence sought help from the police (**Table 17.18**).

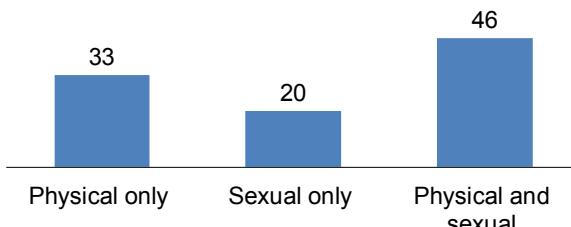
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- **Table 17.2 Persons committing physical violence**
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- **Table 17.4 Age at first experience of sexual violence**
- **Table 17.5 Persons committing sexual violence**
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**Figure 17.4 Help seeking by type of violence experienced**

*Percentage of women age 15-49 who have experienced physical or sexual violence and sought help*



**Table 17.1 Experience of physical violence**

Percentage of women age 15-49 who have experienced physical violence since age 15 and percentage who experienced physical violence during the 12 months preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Percentage who have experienced physical violence since age 15 <sup>1</sup> | Percentage who have experienced physical violence in the past 12 months |           |                                 | Number of women |
|----------------------------------|---|---|-----------|---------------------------------|-----------------|
|                                  |   | Often   | Sometimes | Often or sometimes <sup>2</sup> |                 |
| <b>Age</b>                       |   |   |           |                                 |                 |
| 15-19                            | 20.9  | 0.9   | 10.6      | 11.5                            | 2,036           |
| 20-24                            | 34.2  | 2.8   | 15.5      | 18.3                            | 1,863           |
| 25-29                            | 40.1  | 4.1   | 15.3      | 19.5                            | 1,611           |
| 30-39                            | 41.3  | 5.1   | 15.2      | 20.4                            | 2,487           |
| 40-49                            | 44.7  | 4.2   | 13.9      | 18.3                            | 1,507           |
| <b>Religion</b>                  |   |   |           |                                 |                 |
| Catholic                         | 36.9  | 2.4   | 14.2      | 16.6                            | 1,642           |
| Protestant                       | 35.7  | 3.6   | 14.1      | 17.8                            | 7,688           |
| Muslim                           | (39.2)  | (5.9)   | (8.7)     | (14.7)                          | 45              |
| Other                            | 33.9  | 3.5   | 14.5      | 18.0                            | 128             |
| <b>Residence</b>                 |   |   |           |                                 |                 |
| Urban                            | 34.2  | 2.9   | 13.9      | 16.8                            | 4,383           |
| Rural                            | 37.2  | 3.9   | 14.2      | 18.3                            | 5,120           |
| <b>Province</b>                  |   |   |           |                                 |                 |
| Central                          | 27.9  | 2.0   | 9.1       | 11.4                            | 821             |
| Copperbelt                       | 41.7  | 3.2   | 17.6      | 20.9                            | 1,481           |
| Eastern                          | 42.0  | 3.7   | 16.4      | 20.1                            | 1,095           |
| Luapula                          | 44.0  | 1.8   | 17.6      | 19.6                            | 745             |
| Lusaka                           | 27.6  | 2.8   | 11.2      | 14.0                            | 1,931           |
| Muchinga                         | 53.1  | 8.3   | 19.4      | 27.8                            | 535             |
| Northern                         | 33.9  | 2.5   | 10.2      | 12.7                            | 727             |
| North Western                    | 20.9  | 2.6   | 5.7       | 8.3                             | 521             |
| Southern                         | 38.7  | 5.1   | 19.0      | 24.3                            | 1,105           |
| Western                          | 32.2  | 3.9   | 10.4      | 14.4                            | 541             |
| <b>Marital status</b>            |   |   |           |                                 |                 |
| Never married                    | 19.4  | 0.5   | 6.9       | 7.4                             | 2,905           |
| Married or living together       | 41.0  | 4.0   | 17.8      | 22.0                            | 5,384           |
| Divorced/separated/widowed       | 52.3  | 8.0   | 14.7      | 22.6                            | 1,214           |
| <b>Employment</b>                |   |   |           |                                 |                 |
| Employed for cash                | 41.2  | 4.8   | 14.5      | 19.4                            | 3,985           |
| Employed not for cash            | 40.0  | 3.4   | 14.2      | 17.7                            | 1,036           |
| Not employed                     | 30.1  | 2.3   | 13.6      | 15.9                            | 4,482           |
| <b>Number of living children</b> |   |   |           |                                 |                 |
| 0                                | 21.8  | 0.6   | 8.9       | 9.5                             | 2,386           |
| 1-2                              | 35.4  | 3.9   | 15.2      | 19.1                            | 3,108           |
| 3-4                              | 43.9  | 4.6   | 17.6      | 22.3                            | 2,014           |
| 5+                               | 45.2  | 5.0   | 15.1      | 20.2                            | 1,995           |
| <b>Education</b>                 |   |   |           |                                 |                 |
| No education                     | 43.7  | 4.6   | 14.9      | 19.8                            | 754             |
| Primary                          | 40.6  | 4.3   | 16.6      | 21.0                            | 4,161           |
| Secondary                        | 30.7  | 2.6   | 12.5      | 15.1                            | 4,052           |
| Higher                           | 27.0  | 1.4   | 5.5       | 6.9                             | 536             |
| <b>Wealth quintile</b>           |   |   |           |                                 |                 |
| Lowest                           | 40.4  | 4.8   | 15.6      | 20.5                            | 1,704           |
| Second                           | 42.1  | 4.3   | 16.0      | 20.5                            | 1,667           |
| Middle                           | 34.6  | 3.5   | 14.9      | 18.6                            | 1,751           |
| Fourth                           | 36.0  | 3.5   | 17.1      | 20.6                            | 2,076           |
| Highest                          | 28.8  | 1.7   | 8.2       | 9.9                             | 2,306           |
| Total                            | 35.9  | 3.4   | 14.1      | 17.6                            | 9,503           |

<sup>1</sup> Includes violence in the past 12 months. For women who were married before age 15 and reported physical violence only by their husband/partner, the violence could have occurred before age 15.

<sup>2</sup> Includes women who reported physical violence in the past 12 months but for whom frequency is not known

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**Table 17.2 Persons committing physical violence**

Among women age 15-49 who have experienced physical violence since age 15, percentage who report specific persons who committed the violence, according to the respondent's current marital status, Zambia DHS 2018

| Person  | Marital status |               |       |
|---|----------------|---------------|-------|
|   | Ever married   | Never married | Total |
| Current husband/partner   | 65.0           | na            | 54.2  |
| Former husband/partner  | 29.2           | na            | 24.3  |
| Current boyfriend   | 0.0            | 4.6           | 0.8   |
| Former boyfriend  | 1.8            | 9.0           | 3.0   |
| Father/stepfather   | 2.7            | 18.6          | 5.3   |
| Mother/stepmother   | 4.5            | 27.4          | 8.3   |
| Sister/brother  | 3.6            | 17.6          | 5.9   |
| Daughter/son  | 0.0            | 0.0           | 0.0   |
| Other relative  | 3.6            | 14.4          | 5.4   |
| Mother-in-law   | 0.1            | na            | 0.1   |
| Father-in-law   | 0.0            | na            | 0.0   |
| Other in-law  | 0.3            | na            | 0.4   |
| Teacher   | 0.8            | 12.0          | 2.6   |
| Employer/someone at work  | 0.0            | 0.0           | 0.0   |
| Police/soldier  | 0.2            | 0.0           | 0.2   |
| Other   | 3.8            | 13.5          | 5.4   |
| Number of women who have experienced physical violence since age 15 | 2,844          | 563           | 3,407 |

Note: Women can report more than one person who committed the violence.

na = Not applicable

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**Table 17.3 Experience of sexual violence**

Percentage of women age 15-49 who have ever experienced sexual violence and percentage who experienced sexual violence in the 12 months preceding the survey, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Percentage who have experienced sexual violence: |                       |                 |
|----------------------------------|--|-----------------------|-----------------|
|                                  | Ever <sup>1</sup>                                | In the past 12 months | Number of women |
| <b>Age</b>                       |  |                       |                 |
| 15-19                            | 6.7  | 2.8                   | 2,036           |
| 20-24                            | 14.2   | 8.5                   | 1,863           |
| 25-29                            | 14.4   | 9.9                   | 1,611           |
| 30-39                            | 16.2   | 10.2                  | 2,487           |
| 40-49                            | 17.7   | 9.2                   | 1,507           |
| <b>Religion</b>                  |  |                       |                 |
| Catholic                         | 13.3   | 6.7                   | 1,642           |
| Protestant                       | 13.8   | 8.4                   | 7,688           |
| Muslim                           | (18.1)   | (9.7)                 | 45              |
| Other                            | 11.4   | 7.1                   | 128             |
| <b>Residence</b>                 |  |                       |                 |
| Urban                            | 12.7   | 7.0                   | 4,383           |
| Rural                            | 14.5   | 9.1                   | 5,120           |
| <b>Province</b>                  |  |                       |                 |
| Central                          | 7.6  | 3.9                   | 821             |
| Copperbelt                       | 17.5   | 8.9                   | 1,481           |
| Eastern                          | 14.3   | 8.1                   | 1,095           |
| Luapula                          | 20.1   | 11.1                  | 745             |
| Lusaka                           | 7.5  | 3.6                   | 1,931           |
| Muchinga                         | 24.2   | 16.2                  | 535             |
| Northern                         | 19.2   | 10.7                  | 727             |
| North Western                    | 5.8  | 3.3                   | 521             |
| Southern                         | 13.8   | 12.2                  | 1,105           |
| Western                          | 14.5   | 8.8                   | 541             |
| <b>Marital status</b>            |  |                       |                 |
| Never married                    | 6.1  | 1.3                   | 2,905           |
| Married or living together       | 15.6   | 11.3                  | 5,384           |
| Divorced/separated/widowed       | 23.2   | 10.4                  | 1,214           |
| <b>Employment</b>                |  |                       |                 |
| Employed for cash                | 16.5   | 9.5                   | 3,985           |
| Employed not for cash            | 17.4   | 10.1                  | 1,036           |
| Not employed                     | 10.4   | 6.4                   | 4,482           |
| <b>Number of living children</b> |  |                       |                 |
| 0                                | 7.5  | 2.4                   | 2,386           |
| 1-2                              | 14.6   | 9.5                   | 3,108           |
| 3-4                              | 15.6   | 9.4                   | 2,014           |
| 5+                               | 17.7   | 11.4                  | 1,995           |
| <b>Education</b>                 |  |                       |                 |
| No education                     | 17.9   | 10.0                  | 754             |
| Primary                          | 15.9   | 10.4                  | 4,161           |
| Secondary                        | 11.0   | 5.8                   | 4,052           |
| Higher                           | 11.1   | 4.5                   | 536             |
| <b>Wealth quintile</b>           |  |                       |                 |
| Lowest                           | 17.0   | 11.1                  | 1,704           |
| Second                           | 16.6   | 10.0                  | 1,667           |
| Middle                           | 12.4   | 7.7                   | 1,751           |
| Fourth                           | 12.4   | 8.5                   | 2,076           |
| Highest                          | 11.2   | 4.5                   | 2,306           |
| Total                            | 13.7   | 8.1                   | 9,503           |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes violence in the past 12 months

**Table 17.4 Age at first experience of sexual violence**

Percentage of women age 15-49 who experienced sexual violence by specific exact ages, according to current age and current marital status, Zambia DHS 2018

| Background characteristic | Percentage who first experienced sexual violence by exact age: |     |     |     |     | Percentage who have not experienced sexual violence | Number of women |
|---------------------------|--|-----|-----|-----|-----|---|-----------------|
|                           | 10   | 12  | 15  | 18  | 22  |   |                 |
| <b>Age</b>                |  |     |     |     |     |   |                 |
| 15-19                     | 0.0  | 0.0 | 0.1 | na  | na  | 93.3  | 2,036           |
| 20-24                     | 0.0  | 0.1 | 0.5 | 3.4 | na  | 85.8  | 1,863           |
| 25-29                     | 0.0  | 0.0 | 0.6 | 2.8 | 6.6 | 85.6  | 1,611           |
| 30-39                     | 0.2  | 0.4 | 1.1 | 2.6 | 5.8 | 83.8  | 2,487           |
| 40-49                     | 0.3  | 0.3 | 1.0 | 3.0 | 5.0 | 82.3  | 1,507           |
| <b>Marital status</b>     |  |     |     |     |     |   |                 |
| Never married             | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 93.9  | 2,905           |
| Ever married              | 0.1  | 0.2 | 1.0 | 3.8 | 7.7 | 83.0  | 6,598           |
| Total                     | 0.1  | 0.2 | 0.7 | 2.6 | 5.3 | 86.3  | 9,503           |

na = Not applicable

**Table 17.5 Persons committing sexual violence**

Among women age 15-49 who have experienced sexual violence, percentage who report specific persons who committed the violence, according to respondent's current marital status, Zambia DHS 2018

| Person   | Marital status |               |       |
|--|----------------|---------------|-------|
|  | Ever married   | Never married | Total |
| Current husband/partner                              | 64.5           | na            | 55.7  |
| Former husband/partner                               | 31.2           | na            | 26.9  |
| Current/former boyfriend                             | 3.0            | 29.9          | 6.7   |
| Father/stepfather                                    | 0.1            | 3.6           | 0.6   |
| Brother/stepbrother                                  | 0.3            | 0.1           | 0.3   |
| Other relative                                       | 3.9            | 24.3          | 6.7   |
| In-law   | 0.3            | na            | 0.3   |
| Own friend/acquaintance                              | 1.4            | 19.1          | 3.9   |
| Family friend  | 0.6            | 2.1           | 0.8   |
| Teacher  | 0.1            | 2.7           | 0.4   |
| Stranger   | 3.0            | 9.5           | 3.9   |
| Other  | 0.9            | 8.6           | 2.0   |
| Number of women who have experienced sexual violence | 1,123          | 179           | 1,302 |

Note: Ever-married women can report up to three perpetrators: a current husband, former husband, or one other person who is not a current or former husband. Never-married women can report only the person who was the first to commit the violence.

na = Not applicable

**Table 17.6 Experience of different forms of violence**

Percentage of women age 15-49 who have ever experienced different forms of violence, by current age, Zambia DHS 2018

| Age   | Physical violence only | Sexual violence only | Physical and sexual violence | Physical or sexual violence | Number of women |
|-------|------------------------|----------------------|------------------------------|-----------------------------|-----------------|
| 15-19 | 17.2                   | 3.0                  | 3.7                          | 23.9                        | 2,036           |
| 15-17 | 16.8                   | 3.0                  | 3.0                          | 22.8                        | 1,149           |
| 18-19 | 17.6                   | 2.9                  | 4.7                          | 25.2                        | 886             |
| 20-24 | 24.9                   | 4.9                  | 9.3                          | 39.1                        | 1,863           |
| 25-29 | 28.3                   | 2.6                  | 11.8                         | 42.7                        | 1,611           |
| 30-39 | 28.1                   | 3.0                  | 13.1                         | 44.3                        | 2,487           |
| 40-49 | 30.1                   | 3.1                  | 14.5                         | 47.8                        | 1,507           |
| Total | 25.5                   | 3.3                  | 10.4                         | 39.2                        | 9,503           |

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**Table 17.7 Experience of violence during pregnancy**

Among women age 15-49 who have ever been pregnant, percentage who have ever experienced physical violence during pregnancy, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Percentage who experienced violence during pregnancy | Number of women who have ever been pregnant |
|----------------------------------|--|---|
| <b>Age</b>                       |  |   |
| 15-19                            | 3.8  | 605   |
| 20-24                            | 6.0  | 1,452                                       |
| 25-29                            | 6.4  | 1,454                                       |
| 30-39                            | 5.9  | 2,427                                       |
| 40-49                            | 4.1  | 1,478                                       |
| <b>Religion</b>                  |  |   |
| Catholic                         | 4.9  | 1,262                                       |
| Protestant                       | 5.6  | 6,016                                       |
| Muslim                           | (6.4)  | 42  |
| Other                            | 4.6  | 97  |
| <b>Residence</b>                 |  |   |
| Urban                            | 5.3  | 3,153                                       |
| Rural                            | 5.6  | 4,262                                       |
| <b>Province</b>                  |  |   |
| Central                          | 5.2  | 633   |
| Copperbelt                       | 6.0  | 1,047                                       |
| Eastern                          | 8.2  | 944   |
| Luapula                          | 3.6  | 596   |
| Lusaka                           | 4.9  | 1,379                                       |
| Muchinga                         | 8.8  | 432   |
| Northern                         | 4.8  | 577   |
| North Western                    | 2.8  | 411   |
| Southern                         | 4.0  | 935   |
| Western                          | 6.4  | 462   |
| <b>Marital status</b>            |  |   |
| Never married                    | 3.9  | 925   |
| Married or living together       | 5.3  | 5,298                                       |
| Divorced/separated/widowed       | 7.4  | 1,193                                       |
| <b>Number of living children</b> |  |   |
| 0                                | 5.0  | 299   |
| 1-2                              | 5.4  | 3,108                                       |
| 3-4                              | 6.4  | 2,014                                       |
| 5+                               | 4.8  | 1,995                                       |
| <b>Education</b>                 |  |   |
| No education                     | 7.3  | 699   |
| Primary                          | 5.9  | 3,538                                       |
| Secondary                        | 4.8  | 2,800                                       |
| Higher                           | 3.2  | 378   |
| <b>Wealth quintile</b>           |  |   |
| Lowest                           | 7.1  | 1,494                                       |
| Second                           | 5.5  | 1,431                                       |
| Middle                           | 4.6  | 1,413                                       |
| Fourth                           | 5.9  | 1,610                                       |
| Highest                          | 4.2  | 1,467                                       |
| Total                            | 5.5  | 7,416                                       |

Note: Figures in parentheses are based on 25-49 unweighted cases.

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**Table 17.8 Marital control exercised by husbands**

Percentage of ever-married women age 15-49 whose husbands/partners have ever demonstrated specific types of controlling behaviours, according to background characteristics, Zambia DHS 2018

| Background characteristic              | Percentage of women whose husband/partner:    |  |  |  |  |   |  |                              |
|--|---|--|--|--|--|---|--|------------------------------|
|  | Is jealous or angry if she talks to other men | Frequently accuses her of being unfaithful | Does not permit her to meet her female friends | Tries to limit her contact with her family | Insists on knowing where she is at all times | Displays 3 or more of the specific behaviours | Displays none of the specific behaviours | Number of ever-married women |
| <b>Age</b>                             |   |  |  |  |  |   |  |                              |
| 15-19                                  | 50.0  | 21.9                                       | 11.1   | 12.4                                       | 46.6   | 24.7  | 34.6                                     | 319                          |
| 20-24                                  | 60.8  | 32.4                                       | 21.5   | 15.4                                       | 54.3   | 33.8  | 26.8                                     | 1,160                        |
| 25-29                                  | 56.8  | 30.9                                       | 19.9   | 15.7                                       | 52.7   | 32.7  | 30.4                                     | 1,307                        |
| 30-39                                  | 58.8  | 31.2                                       | 17.8   | 14.2                                       | 54.4   | 32.0  | 28.7                                     | 2,353                        |
| 40-49                                  | 54.2  | 28.9                                       | 18.3   | 14.6                                       | 48.2   | 30.2  | 33.4                                     | 1,459                        |
| <b>Religion</b>                        |   |  |  |  |  |   |  |                              |
| Catholic                               | 57.1  | 32.5                                       | 18.5   | 16.0                                       | 54.9   | 32.9  | 29.0                                     | 1,076                        |
| Protestant                             | 57.0  | 30.2                                       | 18.7   | 14.5                                       | 51.3   | 31.6  | 30.5                                     | 5,400                        |
| Muslim                                 | (64.7)  | (22.5)                                     | (15.1)   | (7.4)                                      | (45.8)                                       | (29.1)  | (28.1)                                   | 39                           |
| Other                                  | 78.6  | 18.8                                       | 16.3   | 12.3                                       | 82.8   | 25.2  | 11.2                                     | 83                           |
| <b>Residence</b>                       |   |  |  |  |  |   |  |                              |
| Urban                                  | 58.8  | 30.9                                       | 24.9   | 16.0                                       | 55.7   | 34.9  | 27.8                                     | 2,740                        |
| Rural                                  | 56.2  | 30.1                                       | 14.2   | 13.7                                       | 49.8   | 29.4  | 31.6                                     | 3,858                        |
| <b>Province</b>                        |   |  |  |  |  |   |  |                              |
| Central                                | 47.6  | 20.9                                       | 11.9   | 10.2                                       | 39.1   | 22.2  | 43.2                                     | 560                          |
| Copperbelt                             | 56.9  | 30.9                                       | 25.9   | 17.5                                       | 58.5   | 35.9  | 25.6                                     | 923                          |
| Eastern                                | 61.3  | 28.8                                       | 12.7   | 22.9                                       | 42.4   | 29.0  | 29.0                                     | 875                          |
| Luapula                                | 70.6  | 38.0                                       | 15.6   | 10.8                                       | 67.2   | 37.2  | 16.8                                     | 527                          |
| Lusaka                                 | 53.2  | 23.3                                       | 22.2   | 13.0                                       | 45.3   | 26.7  | 37.0                                     | 1,250                        |
| Muchinga                               | 63.2  | 34.8                                       | 32.2   | 21.3                                       | 63.6   | 40.9  | 18.6                                     | 412                          |
| Northern                               | 63.2  | 40.6                                       | 18.9   | 18.8                                       | 70.1   | 40.0  | 18.0                                     | 535                          |
| North Western                          | 46.8  | 35.3                                       | 14.9   | 7.3  | 36.5   | 27.8  | 46.6                                     | 318                          |
| Southern                               | 61.0  | 35.5                                       | 15.3   | 11.2                                       | 58.1   | 34.9  | 26.3                                     | 839                          |
| Western                                | 43.9  | 25.2                                       | 12.4   | 7.4  | 44.2   | 25.2  | 43.9                                     | 359                          |
| <b>Marital status</b>                  |   |  |  |  |  |   |  |                              |
| Married or living together             | 55.9  | 28.3                                       | 16.7   | 12.8                                       | 51.0   | 29.2  | 30.7                                     | 5,384                        |
| Divorced/separated/widowed             | 63.4  | 39.8                                       | 27.2   | 23.0                                       | 57.8   | 42.9  | 27.1                                     | 1,214                        |
| <b>Number of living children</b>       |   |  |  |  |  |   |  |                              |
| 0                                      | 56.2  | 32.4                                       | 22.5   | 12.9                                       | 48.0   | 34.7  | 31.5                                     | 285                          |
| 1-2                                    | 57.8  | 28.6                                       | 20.4   | 14.8                                       | 52.8   | 31.5  | 29.2                                     | 2,365                        |
| 3-4                                    | 57.5  | 32.2                                       | 19.6   | 15.3                                       | 54.2   | 33.8  | 29.8                                     | 1,971                        |
| 5+                                     | 56.7  | 30.5                                       | 15.1   | 14.1                                       | 50.4   | 29.5  | 31.0                                     | 1,976                        |
| <b>Employment</b>                      |   |  |  |  |  |   |  |                              |
| Employed for cash                      | 58.0  | 31.1                                       | 18.8   | 14.1                                       | 52.6   | 32.2  | 30.3                                     | 3,337                        |
| Employed not for cash                  | 62.6  | 37.2                                       | 15.6   | 15.8                                       | 61.3   | 37.8  | 23.5                                     | 745                          |
| Not employed                           | 54.8  | 27.5                                       | 19.3   | 15.2                                       | 49.2   | 29.2  | 31.6                                     | 2,516                        |
| <b>Education</b>                       |   |  |  |  |  |   |  |                              |
| No education                           | 55.8  | 34.1                                       | 20.4   | 14.6                                       | 51.9   | 33.6  | 31.1                                     | 673                          |
| Primary                                | 58.5  | 32.6                                       | 17.9   | 15.7                                       | 52.2   | 32.6  | 28.9                                     | 3,334                        |
| Secondary                              | 57.9  | 28.0                                       | 18.8   | 13.7                                       | 53.4   | 31.5  | 30.0                                     | 2,258                        |
| Higher                                 | 44.5  | 17.9                                       | 21.9   | 11.7                                       | 46.7   | 20.9  | 38.9                                     | 332                          |
| <b>Wealth quintile</b>                 |   |  |  |  |  |   |  |                              |
| Lowest                                 | 58.9  | 33.5                                       | 17.1   | 15.6                                       | 52.4   | 33.0  | 28.4                                     | 1,357                        |
| Second                                 | 57.4  | 33.2                                       | 15.3   | 14.8                                       | 52.0   | 31.9  | 30.0                                     | 1,285                        |
| Middle                                 | 56.7  | 29.8                                       | 15.2   | 12.4                                       | 51.8   | 29.0  | 30.3                                     | 1,269                        |
| Fourth                                 | 58.4  | 30.5                                       | 23.9   | 17.5                                       | 55.7   | 36.0  | 28.3                                     | 1,427                        |
| Highest                                | 54.9  | 24.8                                       | 21.4   | 12.6                                       | 49.0   | 28.0  | 33.6                                     | 1,260                        |
| <b>Woman afraid of husband/partner</b> |   |  |  |  |  |   |  |                              |
| Afraid most of the time                | 81.0  | 58.5                                       | 37.9   | 32.4                                       | 79.8   | 64.2  | 9.4                                      | 1,060                        |
| Sometimes afraid                       | 60.4  | 31.7                                       | 17.3   | 13.9                                       | 55.5   | 32.6  | 26.7                                     | 2,654                        |
| Never afraid                           | 45.8  | 18.9                                       | 12.8   | 9.0  | 39.2   | 19.0  | 40.7                                     | 2,883                        |
| Total                                  | 57.3  | 30.4                                       | 18.7   | 14.7                                       | 52.3   | 31.7  | 30.0                                     | 6,598                        |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

**Table 17.9 Forms of spousal violence**

Percentage of ever-married women age 15-49 who have experienced various forms of violence ever or in the 12 months preceding the survey committed by their current or most recent husband/partner, and any husband/partner, Zambia DHS 2018

| Type of violence experienced   | Ever experienced | Experienced in the past 12 months |           | Frequency in the past 12 months |  |  |
|--|------------------|-----------------------------------|-----------|---------------------------------|--|--|
|  |                  | Often                             | Sometimes |                                 |  |  |
| SPOUSAL VIOLENCE COMMITTED BY CURRENT OR MOST RECENT HUSBAND/PARTNER <sup>1</sup>      |                  |                                   |           |                                 |  |  |
| <b>Physical violence</b>   |                  |                                   |           |                                 |  |  |
| Any physical violence  | 36.6             | 21.0                              | 4.6       | 16.4                            |  |  |
| Pushed her, shook her, or threw something at her                                       | 13.5             | 8.7                               | 2.3       | 6.5                             |  |  |
| Slapped her  | 32.2             | 17.5                              | 3.4       | 14.1                            |  |  |
| Twisted her arm or pulled her hair   | 9.2              | 5.7                               | 1.4       | 4.2                             |  |  |
| Punched her with his fist or with something that could hurt her                        | 12.4             | 7.5                               | 1.9       | 5.6                             |  |  |
| Kicked her, dragged her, or beat her up  | 15.4             | 8.7                               | 2.1       | 6.6                             |  |  |
| Tried to choke her or burn her on purpose  | 3.6              | 2.5                               | 0.7       | 1.8                             |  |  |
| Threatened her or attacked her with a knife, gun, or other weapon                      | 2.9              | 1.8                               | 0.5       | 1.3                             |  |  |
| <b>Sexual violence</b>   |                  |                                   |           |                                 |  |  |
| Any sexual violence  | 14.8             | 10.7                              | 2.7       | 8.0                             |  |  |
| Physically forced her to have sexual intercourse with him when she did not want to     | 13.6             | 9.8                               | 2.5       | 7.3                             |  |  |
| Physically forced her to perform any other sexual acts she did not want to             | 6.0              | 4.0                               | 1.0       | 2.9                             |  |  |
| Forced her with threats or in any other way to perform sexual acts she did not want to | 4.2              | 2.7                               | 1.2       | 1.5                             |  |  |
| <b>Emotional violence</b>  |                  |                                   |           |                                 |  |  |
| Any emotional violence   | 31.1             | 22.5                              | 6.0       | 16.5                            |  |  |
| Said or did something to humiliate her in front of others                              | 18.7             | 13.2                              | 3.7       | 9.5                             |  |  |
| Threatened to hurt or harm her or someone she cared about                              | 11.3             | 7.9                               | 2.3       | 5.5                             |  |  |
| Insulted her or made her feel bad about herself  | 22.3             | 15.5                              | 3.8       | 11.7                            |  |  |
| Any form of physical and/or sexual violence  | 40.2             | 25.1                              | 6.0       | 19.1                            |  |  |
| Any form of emotional and/or physical and/or sexual violence                           | 46.8             | 32.2                              | 8.6       | 23.6                            |  |  |
| SPOUSAL VIOLENCE COMMITTED BY ANY HUSBAND/PARTNER                                      |                  |                                   |           |                                 |  |  |
| Physical violence  | 38.7             | 21.1                              | na        | na                              |  |  |
| Sexual violence  | 15.7             | 10.8                              | na        | na                              |  |  |
| Emotional violence   | 32.2             | 22.6                              | na        | na                              |  |  |
| Any form of physical or sexual violence  | 42.2             | 25.3                              | na        | na                              |  |  |
| Any form of emotional or physical or sexual violence                                   | 48.5             | 32.3                              | na        | na                              |  |  |
| Number of ever- married women  | 6,598            | 6,598                             | 6,598     | 6,598                           |  |  |

na = Not available

<sup>1</sup> Includes current husband/partner for currently married women and most recent husband/partner for divorced, separated, or widowed women

**Table 17.10 Spousal violence by background characteristics**

Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their current or most recent husband/partner, according to background characteristics, Zambia DHS 2018

| Background characteristic        | Emotional violence | Physical violence | Sexual violence | Physical and sexual violence | Physical and sexual and emotional violence | Physical or sexual violence | Physical or sexual or emotional violence | Number of ever-married women |
|----------------------------------|--------------------|-------------------|-----------------|------------------------------|--|-----------------------------|--|------------------------------|
| <b>Age</b>                       |                    |                   |                 |                              |  |                             |  |                              |
| 15-19                            | 17.0               | 26.9              | 12.3            | 8.4                          | 5.1  | 30.9                        | 36.4                                     | 319                          |
| 20-24                            | 29.2               | 35.2              | 16.0            | 11.1                         | 9.0  | 40.1                        | 46.2                                     | 1,160                        |
| 25-29                            | 30.7               | 37.5              | 14.6            | 11.5                         | 8.5  | 40.6                        | 47.7                                     | 1,307                        |
| 30-39                            | 32.5               | 36.3              | 14.4            | 11.2                         | 8.9  | 39.5                        | 46.4                                     | 2,353                        |
| 40-49                            | 33.9               | 39.6              | 15.3            | 11.6                         | 9.8  | 43.3                        | 49.4                                     | 1,459                        |
| <b>Religion</b>                  |                    |                   |                 |                              |  |                             |  |                              |
| Catholic                         | 33.3               | 37.7              | 15.0            | 11.8                         | 9.1  | 40.9                        | 48.8                                     | 1,076                        |
| Protestant                       | 30.7               | 36.4              | 14.8            | 11.1                         | 8.7  | 40.1                        | 46.5                                     | 5,400                        |
| Muslim                           | (39.2)             | (26.6)            | (11.3)          | (3.9)                        | (3.4)                                      | (34.1)                      | (46.0)                                   | 39                           |
| Other                            | 25.8               | 40.7              | 15.1            | 13.7                         | 12.3                                       | 42.2                        | 42.4                                     | 83                           |
| <b>Residence</b>                 |                    |                   |                 |                              |  |                             |  |                              |
| Urban                            | 32.7               | 35.6              | 14.4            | 11.0                         | 9.4  | 39.0                        | 46.2                                     | 2,740                        |
| Rural                            | 30.0               | 37.3              | 15.1            | 11.4                         | 8.4  | 41.1                        | 47.2                                     | 3,858                        |
| <b>Province</b>                  |                    |                   |                 |                              |  |                             |  |                              |
| Central                          | 18.7               | 29.5              | 7.9             | 5.6                          | 3.7  | 31.8                        | 35.5                                     | 560                          |
| Copperbelt                       | 37.5               | 44.2              | 21.6            | 17.6                         | 14.9                                       | 48.2                        | 54.9                                     | 923                          |
| Eastern                          | 34.9               | 37.3              | 14.2            | 10.2                         | 8.4  | 41.2                        | 49.2                                     | 875                          |
| Luapula                          | 34.0               | 42.7              | 20.7            | 16.0                         | 11.8                                       | 47.4                        | 55.5                                     | 527                          |
| Lusaka                           | 25.2               | 29.3              | 7.1             | 6.0                          | 5.5  | 30.4                        | 35.2                                     | 1,250                        |
| Muchinga                         | 41.9               | 52.1              | 23.4            | 17.7                         | 12.4                                       | 57.8                        | 66.7                                     | 412                          |
| Northern                         | 31.4               | 35.5              | 18.8            | 13.4                         | 10.8                                       | 40.9                        | 47.7                                     | 535                          |
| North Western                    | 21.0               | 22.8              | 6.4             | 5.3                          | 4.4  | 23.9                        | 31.8                                     | 318                          |
| Southern                         | 35.6               | 39.1              | 16.2            | 10.9                         | 7.6  | 44.4                        | 51.7                                     | 839                          |
| Western                          | 26.8               | 33.0              | 16.8            | 12.2                         | 9.2  | 37.6                        | 43.2                                     | 359                          |
| <b>Marital status</b>            |                    |                   |                 |                              |  |                             |  |                              |
| Married or living together       | 27.9               | 34.2              | 13.4            | 9.7                          | 7.2  | 37.9                        | 44.2                                     | 5,384                        |
| Divorced/separated/widowed       | 45.5               | 47.4              | 21.2            | 18.0                         | 16.1                                       | 50.6                        | 58.6                                     | 1,214                        |
| <b>Number of living children</b> |                    |                   |                 |                              |  |                             |  |                              |
| 0                                | 22.3               | 29.2              | 10.9            | 9.0                          | 5.8  | 31.1                        | 38.4                                     | 285                          |
| 1-2                              | 29.0               | 33.5              | 15.7            | 11.4                         | 9.2  | 37.8                        | 44.0                                     | 2,365                        |
| 3-4                              | 31.2               | 37.6              | 13.6            | 10.1                         | 7.6  | 41.1                        | 47.8                                     | 1,971                        |
| 5+                               | 34.8               | 40.4              | 15.6            | 12.4                         | 10.0                                       | 43.5                        | 50.3                                     | 1,976                        |
| <b>Employment</b>                |                    |                   |                 |                              |  |                             |  |                              |
| Employed for cash                | 33.8               | 37.1              | 15.6            | 11.8                         | 9.7  | 40.9                        | 47.8                                     | 3,337                        |
| Employed not for cash            | 35.9               | 40.5              | 18.6            | 14.0                         | 10.2                                       | 45.1                        | 54.2                                     | 745                          |
| Not employed                     | 26.2               | 34.8              | 12.8            | 9.6                          | 7.3  | 37.9                        | 43.3                                     | 2,516                        |
| <b>Education</b>                 |                    |                   |                 |                              |  |                             |  |                              |
| No education                     | 33.4               | 40.1              | 16.1            | 11.4                         | 9.3  | 44.7                        | 52.4                                     | 673                          |
| Primary                          | 33.1               | 39.7              | 16.3            | 12.6                         | 9.7  | 43.4                        | 49.6                                     | 3,334                        |
| Secondary                        | 28.4               | 32.8              | 13.1            | 9.7                          | 7.8  | 36.2                        | 42.9                                     | 2,258                        |
| Higher                           | 25.0               | 24.1              | 8.9             | 6.6                          | 6.1  | 26.4                        | 33.9                                     | 332                          |
| <b>Wealth quintile</b>           |                    |                   |                 |                              |  |                             |  |                              |
| Lowest                           | 33.4               | 39.5              | 17.7            | 13.2                         | 9.9  | 44.0                        | 51.2                                     | 1,357                        |
| Second                           | 31.4               | 41.1              | 16.7            | 12.6                         | 9.4  | 45.2                        | 51.0                                     | 1,285                        |
| Middle                           | 32.1               | 36.3              | 12.9            | 10.1                         | 7.9  | 39.1                        | 46.2                                     | 1,269                        |
| Fourth                           | 30.2               | 35.9              | 15.1            | 10.3                         | 8.2  | 40.7                        | 46.4                                     | 1,427                        |
| Highest                          | 28.3               | 30.0              | 11.5            | 9.8                          | 8.7  | 31.7                        | 38.7                                     | 1,260                        |
| Total                            | 31.1               | 36.6              | 14.8            | 11.2                         | 8.8  | 40.2                        | 46.8                                     | 6,598                        |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

**Table 17.11 Spousal violence by husband's characteristics and empowerment indicators**

Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their current or most recent husband/partner, according to the husband's characteristics and women's empowerment indicators, Zambia DHS 2018

| Background characteristic  | Emotional violence | Physical violence | Sexual violence | Physical and sexual violence | Physical and sexual and emotional violence | Physical or sexual violence | Physical or sexual or emotional violence | Number of ever-married women |
|--|--------------------|-------------------|-----------------|------------------------------|--|-----------------------------|--|------------------------------|
| <b>Husband's/partner's education<sup>1</sup></b>                                     |                    |                   |                 |                              |  |                             |  |                              |
| No education   | 28.4               | 37.7              | 16.7            | 10.8                         | 8.4  | 43.6                        | 49.4                                     | 278                          |
| Primary  | 30.5               | 38.7              | 16.6            | 12.6                         | 9.6  | 42.7                        | 48.5                                     | 1,952                        |
| Secondary  | 26.2               | 31.7              | 11.4            | 7.8                          | 5.4  | 35.3                        | 41.7                                     | 2,467                        |
| Higher   | 22.8               | 24.4              | 7.2             | 4.9                          | 4.1  | 26.7                        | 35.2                                     | 484                          |
| Don't know/missing   | 34.6               | 38.7              | 17.5            | 14.3                         | 11.5                                       | 41.8                        | 46.4                                     | 202                          |
| <b>Husband's/partner's alcohol consumption</b>                                       |                    |                   |                 |                              |  |                             |  |                              |
| Does not drink alcohol   | 20.7               | 24.9              | 9.7             | 6.6                          | 4.7  | 28.1                        | 34.1                                     | 4,108                        |
| Drinks alcohol but is never drunk  | (33.7)             | (38.2)            | (20.1)          | (9.9)                        | (5.3)                                      | (48.4)                      | (52.2)                                   | 35                           |
| Is sometimes drunk   | 38.4               | 47.4              | 17.2            | 12.7                         | 9.3  | 51.9                        | 59.4                                     | 1,617                        |
| Is often drunk   | 68.1               | 72.9              | 35.2            | 31.1                         | 28.2                                       | 77.0                        | 84.4                                     | 837                          |
| <b>Spousal education difference<sup>1</sup></b>                                      |                    |                   |                 |                              |  |                             |  |                              |
| Husband better educated  | 28.3               | 34.7              | 13.3            | 9.9                          | 7.3  | 38.1                        | 45.0                                     | 3,112                        |
| Wife better educated   | 29.8               | 36.3              | 13.8            | 10.4                         | 8.1  | 39.7                        | 45.7                                     | 1,026                        |
| Both equally educated  | 22.9               | 28.4              | 12.5            | 7.3                          | 5.1  | 33.6                        | 38.4                                     | 889                          |
| Neither educated   | 27.1               | 39.8              | 13.2            | 8.5                          | 6.3  | 44.5                        | 52.0                                     | 115                          |
| Don't know/missing   | 32.5               | 36.6              | 15.3            | 12.3                         | 10.0                                       | 39.6                        | 44.2                                     | 243                          |
| <b>Spousal age difference<sup>1</sup></b>  |                    |                   |                 |                              |  |                             |  |                              |
| Wife older   | 30.3               | 31.3              | 11.0            | 9.2                          | 6.9  | 33.1                        | 42.8                                     | 161                          |
| Wife is same age   | 30.8               | 39.8              | 25.6            | 18.5                         | 11.8                                       | 46.9                        | 48.5                                     | 166                          |
| Wife 1-4 years younger   | 29.7               | 35.3              | 13.2            | 9.4                          | 7.2  | 39.1                        | 45.9                                     | 2,008                        |
| Wife 5-9 years younger   | 26.3               | 34.8              | 13.8            | 9.9                          | 7.3  | 38.7                        | 43.9                                     | 2,116                        |
| Wife 10 or more years younger  | 26.6               | 29.9              | 10.9            | 8.2                          | 6.3  | 32.6                        | 40.4                                     | 933                          |
| <b>Number of marital control behaviours displayed by husband/partner<sup>2</sup></b> |                    |                   |                 |                              |  |                             |  |                              |
| 0  | 9.7                | 14.4              | 4.2             | 2.3                          | 1.4  | 16.3                        | 19.5                                     | 1,981                        |
| 1-2  | 26.5               | 35.4              | 12.7            | 8.4                          | 5.7  | 39.6                        | 46.1                                     | 2,523                        |
| 3-4  | 53.4               | 57.3              | 25.5            | 20.7                         | 17.2                                       | 62.0                        | 71.0                                     | 1,707                        |
| 5  | 73.3               | 67.2              | 36.5            | 32.9                         | 30.0                                       | 70.8                        | 84.2                                     | 386                          |
| <b>Number of decisions in which women participate<sup>3</sup></b>                    |                    |                   |                 |                              |  |                             |  |                              |
| 0  | 21.6               | 29.6              | 12.5            | 10.4                         | 7.9  | 31.8                        | 35.7                                     | 312                          |
| 1-2  | 34.7               | 39.8              | 19.0            | 11.9                         | 8.5  | 46.9                        | 54.2                                     | 1,043                        |
| 3-4  | 26.6               | 33.1              | 12.0            | 9.0                          | 6.8  | 36.0                        | 42.2                                     | 4,029                        |
| <b>Number of reasons for which wife beating is justified<sup>4</sup></b>             |                    |                   |                 |                              |  |                             |  |                              |
| 0  | 26.0               | 29.0              | 10.0            | 7.6                          | 6.5  | 31.4                        | 37.7                                     | 3,478                        |
| 1-2  | 34.0               | 43.7              | 18.1            | 12.4                         | 9.1  | 49.3                        | 55.4                                     | 1,152                        |
| 3-4  | 37.3               | 46.0              | 22.2            | 17.0                         | 12.5                                       | 51.2                        | 56.8                                     | 1,060                        |
| 5-6  | 39.8               | 45.6              | 20.8            | 16.6                         | 13.1                                       | 49.8                        | 59.1                                     | 908                          |
| <b>Woman's father beat her mother</b>  |                    |                   |                 |                              |  |                             |  |                              |
| Yes  | 41.9               | 48.9              | 21.9            | 16.9                         | 12.8                                       | 53.9                        | 61.4                                     | 1,881                        |
| No   | 25.9               | 30.5              | 11.7            | 8.7                          | 6.9  | 33.6                        | 39.8                                     | 4,255                        |
| Don't know/missing   | 35.4               | 42.3              | 14.4            | 11.1                         | 9.8  | 45.6                        | 52.1                                     | 461                          |
| <b>Woman afraid of husband/partner</b>   |                    |                   |                 |                              |  |                             |  |                              |
| Afraid most of the time  | 57.9               | 67.7              | 33.1            | 29.0                         | 23.6                                       | 71.8                        | 78.0                                     | 1,060                        |
| Sometimes afraid   | 34.6               | 39.8              | 14.8            | 10.7                         | 8.3  | 43.9                        | 51.4                                     | 2,654                        |
| Never afraid   | 18.1               | 22.2              | 8.1             | 5.1                          | 3.9  | 25.2                        | 31.1                                     | 2,883                        |
| Total  | 31.1               | 36.6              | 14.8            | 11.2                         | 8.8  | 40.2                        | 46.8                                     | 6,598                        |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes only currently married women

<sup>2</sup> According to the wife's report. See Table 17.8 for list of behaviours.

<sup>3</sup> According to the wife's report. Includes only currently married women. See Table 16.9.1 for list of decisions.

<sup>4</sup> According to the wife's report. See Table 16.10.1 for list of reasons.

**Table 17.12 Violence by any husband/partner in the last 12 months**

Percentage of ever-married women who have experienced emotional, physical, or sexual violence by any husband/partner in the past 12 months, according to background characteristics, Zambia DHS 2018

| Background characteristic              | Emotional violence | Physical violence | Sexual violence | Physical and sexual violence | Physical and sexual and emotional violence | Physical or sexual violence | Physical or sexual or emotional violence | Number of ever-married women |
|--|--------------------|-------------------|-----------------|------------------------------|--|-----------------------------|--|------------------------------|
| <b>Age</b>                             |                    |                   |                 |                              |  |                             |  |                              |
| 15-19                                  | 16.3               | 22.9              | 11.4            | 7.7                          | 5.1  | 26.7                        | 33.5                                     | 319                          |
| 20-24                                  | 23.6               | 24.4              | 12.7            | 8.1                          | 6.6  | 29.0                        | 35.1                                     | 1,160                        |
| 25-29                                  | 24.9               | 22.3              | 10.6            | 6.1                          | 4.6  | 26.8                        | 35.3                                     | 1,307                        |
| 30-39                                  | 22.6               | 20.8              | 10.7            | 6.8                          | 5.4  | 24.6                        | 31.4                                     | 2,353                        |
| 40-49                                  | 21.1               | 17.5              | 9.3             | 5.0                          | 4.4  | 21.8                        | 28.8                                     | 1,459                        |
| <b>Religion</b>                        |                    |                   |                 |                              |  |                             |  |                              |
| Catholic                               | 23.5               | 20.0              | 9.8             | 5.8                          | 4.4  | 24.0                        | 33.0                                     | 1,076                        |
| Protestant                             | 22.4               | 21.3              | 10.9            | 6.7                          | 5.4  | 25.5                        | 32.1                                     | 5,400                        |
| Muslim                                 | (33.9)             | (11.8)            | (11.3)          | (3.9)                        | (3.4)                                      | (19.2)                      | (39.0)                                   | 39                           |
| Other                                  | 20.4               | 28.0              | 11.1            | 8.6                          | 7.8  | 30.4                        | 32.9                                     | 83                           |
| <b>Residence</b>                       |                    |                   |                 |                              |  |                             |  |                              |
| Urban                                  | 24.3               | 21.2              | 9.7             | 6.1                          | 5.2  | 24.8                        | 32.3                                     | 2,740                        |
| Rural                                  | 21.4               | 21.0              | 11.5            | 6.9                          | 5.3  | 25.6                        | 32.3                                     | 3,858                        |
| <b>Province</b>                        |                    |                   |                 |                              |  |                             |  |                              |
| Central                                | 12.9               | 15.4              | 5.5             | 2.8                          | 2.3  | 18.1                        | 22.8                                     | 560                          |
| Copperbelt                             | 26.6               | 23.7              | 13.6            | 9.2                          | 7.9  | 28.1                        | 35.2                                     | 923                          |
| Eastern                                | 23.1               | 21.4              | 10.1            | 7.0                          | 5.5  | 24.6                        | 33.1                                     | 875                          |
| Luapula                                | 24.9               | 24.0              | 15.4            | 9.7                          | 6.9  | 29.8                        | 38.2                                     | 527                          |
| Lusaka                                 | 18.6               | 18.9              | 4.8             | 3.7                          | 3.5  | 19.9                        | 24.5                                     | 1,250                        |
| Muchinga                               | 31.4               | 28.7              | 18.1            | 10.6                         | 8.8  | 36.2                        | 46.3                                     | 412                          |
| Northern                               | 20.9               | 15.7              | 13.3            | 6.4                          | 4.9  | 22.6                        | 30.2                                     | 535                          |
| North Western                          | 13.2               | 9.7               | 5.1             | 3.6                          | 3.1  | 11.2                        | 17.9                                     | 318                          |
| Southern                               | 30.8               | 28.3              | 14.0            | 7.2                          | 5.0  | 35.0                        | 43.5                                     | 839                          |
| Western                                | 18.3               | 18.5              | 12.4            | 6.7                          | 5.0  | 24.2                        | 30.0                                     | 359                          |
| <b>Marital status</b>                  |                    |                   |                 |                              |  |                             |  |                              |
| Married or living together             | 22.5               | 21.0              | 11.2            | 6.4                          | 4.9  | 25.7                        | 32.8                                     | 5,384                        |
| Divorced/separated/widowed             | 23.2               | 21.6              | 8.9             | 7.3                          | 6.6  | 23.2                        | 30.2                                     | 1,214                        |
| <b>Number of living children</b>       |                    |                   |                 |                              |  |                             |  |                              |
| 0                                      | 16.8               | 19.3              | 8.2             | 5.1                          | 2.7  | 22.4                        | 28.5                                     | 285                          |
| 1-2                                    | 22.6               | 21.7              | 11.6            | 7.2                          | 5.9  | 26.1                        | 33.0                                     | 2,365                        |
| 3-4                                    | 22.9               | 22.0              | 9.6             | 6.3                          | 4.7  | 25.4                        | 32.3                                     | 1,971                        |
| 5+                                     | 23.2               | 19.7              | 11.2            | 6.4                          | 5.3  | 24.6                        | 32.1                                     | 1,976                        |
| <b>Employment</b>                      |                    |                   |                 |                              |  |                             |  |                              |
| Employed for cash                      | 24.6               | 20.9              | 10.6            | 6.9                          | 5.7  | 24.6                        | 32.7                                     | 3,337                        |
| Employed not for cash                  | 23.4               | 20.6              | 13.1            | 7.4                          | 4.9  | 26.3                        | 35.1                                     | 745                          |
| Not employed                           | 19.7               | 21.5              | 10.3            | 5.9                          | 4.7  | 25.9                        | 31.1                                     | 2,516                        |
| <b>Education</b>                       |                    |                   |                 |                              |  |                             |  |                              |
| No education                           | 21.9               | 21.5              | 11.2            | 6.8                          | 5.4  | 25.9                        | 32.5                                     | 673                          |
| Primary                                | 23.9               | 22.9              | 12.4            | 7.8                          | 6.2  | 27.5                        | 34.1                                     | 3,334                        |
| Secondary                              | 22.0               | 20.0              | 9.0             | 5.3                          | 4.3  | 23.8                        | 31.5                                     | 2,258                        |
| Higher                                 | 15.9               | 9.8               | 4.8             | 2.4                          | 1.7  | 12.2                        | 19.6                                     | 332                          |
| <b>Wealth quintile</b>                 |                    |                   |                 |                              |  |                             |  |                              |
| Lowest                                 | 22.6               | 23.0              | 13.5            | 8.6                          | 6.6  | 27.8                        | 34.2                                     | 1,357                        |
| Second                                 | 22.8               | 22.9              | 12.0            | 7.0                          | 5.4  | 27.8                        | 34.9                                     | 1,285                        |
| Middle                                 | 24.7               | 22.5              | 10.2            | 6.4                          | 5.3  | 26.2                        | 33.1                                     | 1,269                        |
| Fourth                                 | 23.4               | 23.1              | 12.0            | 7.2                          | 5.8  | 27.9                        | 34.7                                     | 1,427                        |
| Highest                                | 19.5               | 13.7              | 5.7             | 3.3                          | 2.9  | 16.1                        | 24.2                                     | 1,260                        |
| <b>Woman afraid of husband/partner</b> |                    |                   |                 |                              |  |                             |  |                              |
| Afraid most of the time                | 42.6               | 44.8              | 23.5            | 18.0                         | 14.9                                       | 50.3                        | 57.8                                     | 1,060                        |
| Sometimes afraid                       | 26.0               | 23.6              | 11.1            | 6.2                          | 5.0  | 28.5                        | 36.6                                     | 2,654                        |
| Never afraid                           | 12.2               | 10.1              | 5.8             | 2.7                          | 1.9  | 13.2                        | 19.0                                     | 2,883                        |
| Total                                  | 22.6               | 21.1              | 10.8            | 6.6                          | 5.2  | 25.3                        | 32.3                                     | 6,598                        |

Note: Any husband/partner includes all current, most recent, and former husbands/partners. Figures in parentheses are based on 25-49 unweighted cases.

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**Table 17.13 Experience of spousal violence by duration of marriage**

Among currently married women age 15-49 who have been married only once, percentage who first experienced physical or sexual violence committed by their current husband/partner by specific exact years since marriage, according to marital duration, Zambia DHS 2018

| Years since marriage | Percentage who first experienced spousal physical or sexual violence by exact marital duration |         |         |          | Percentage who have not experienced sexual or physical violence | Number of currently married women who have been married only once |
|----------------------|--|---------|---------|----------|---|---|
|                      | Before marriage  | 2 years | 5 years | 10 years |   |   |
| <2                   | 1.0  | na      | na      | na       | 70.5  | 515   |
| 2-4                  | 0.6  | 18.4    | na      | na       | 69.3  | 635   |
| 5-9                  | 0.3  | 14.4    | 33.5    | na       | 60.8  | 1,046   |
| 10+                  | 0.7  | 10.8    | 24.5    | 32.7     | 59.9  | 2,303   |
| Total                | 0.7  | 14.3    | 27.6    | 33.2     | 62.6  | 4,498   |

na = Not applicable

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**Table 17.14 Injuries to women due to spousal violence**

Among ever-married women age 15-49 who have experienced violence committed by their current or most recent husband/partner, percentage who have been injured as a result of the violence, by types of injuries, according to type of violence, Zambia DHS 2018

| Type of violence experienced                   | Cuts, bruises, or aches | Eye injuries, sprains, dislocations, or burns | Deep wounds, broken bones, broken teeth, or any other serious injury | Any of these injuries | Number of ever-married women who have experienced physical or sexual violence |
|--|-------------------------|---|--|-----------------------|---|
| <b>Physical violence<sup>1</sup></b>           |                         |   |  |                       |   |
| Ever <sup>2</sup>                              | 34.5                    | 12.3  | 6.4  | 36.1                  | 2,414   |
| Past 12 months                                 | 37.8                    | 15.3  | 8.0  | 39.5                  | 1,383   |
| <b>Sexual violence</b>                         |                         |   |  |                       |   |
| Ever <sup>2</sup>                              | 37.9                    | 14.3  | 7.5  | 39.3                  | 979   |
| Past 12 months                                 | 34.3                    | 14.5  | 7.0  | 35.4                  | 705   |
| <b>Physical or sexual violence<sup>1</sup></b> |                         |   |  |                       |   |
| Ever <sup>2</sup>                              | 32.3                    | 11.2  | 6.1  | 33.8                  | 2,654   |
| Past 12 months                                 | 33.9                    | 13.3  | 7.2  | 35.4                  | 1,656   |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women.

<sup>1</sup> Excludes women who reported violence only in response to a direct question on violence during pregnancy

<sup>2</sup> Includes in the past 12 months

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**Table 17.15 Violence by women against their husband by women's background characteristics**

Percentage of ever-married women who have committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them, ever and in the past 12 months, according to women's own experience of spousal violence and background characteristics, Zambia DHS 2018

| Background characteristic                              | Percentage who committed physical violence against their husband/partner |                | Number of ever-married women |
|--|--|----------------|------------------------------|
|  | Ever <sup>1</sup>  | Past 12 months |                              |
| <b>Woman's experience of spousal physical violence</b> |  |                |                              |
| Ever <sup>1</sup>                                      | 12.4   | 8.5            | 2,414                        |
| In the past 12 months                                  | 14.5   | 12.2           | 1,383                        |
| Never  | 1.8  | 1.1            | 4,183                        |
| <b>Age</b>   |  |                |                              |
| 15-19  | 2.8  | 2.8            | 319                          |
| 20-24  | 3.6  | 2.9            | 1,160                        |
| 25-29  | 5.4  | 3.9            | 1,307                        |
| 30-39  | 6.4  | 3.8            | 2,353                        |
| 40-49  | 7.0  | 4.8            | 1,459                        |
| <b>Religion</b>  |  |                |                              |
| Catholic   | 5.2  | 3.7            | 1,076                        |
| Protestant   | 5.7  | 3.8            | 5,400                        |
| Muslim   | (2.7)  | (0.6)          | 39                           |
| Other  | 8.2  | 7.5            | 83                           |
| <b>Residence</b>                                       |  |                |                              |
| Urban  | 8.5  | 6.0            | 2,740                        |
| Rural  | 3.6  | 2.3            | 3,858                        |
| <b>Province</b>  |  |                |                              |
| Central  | 2.6  | 1.8            | 560                          |
| Copperbelt   | 9.9  | 7.6            | 923                          |
| Eastern  | 4.5  | 3.0            | 875                          |
| Luapula  | 5.0  | 2.4            | 527                          |
| Lusaka   | 6.7  | 4.8            | 1,250                        |
| Muchinga   | 5.4  | 3.7            | 412                          |
| Northern   | 3.6  | 2.0            | 535                          |
| North Western  | 2.2  | 1.4            | 318                          |
| Southern   | 7.7  | 4.8            | 839                          |
| Western  | 1.7  | 1.1            | 359                          |
| <b>Marital status</b>                                  |  |                |                              |
| Married or living together                             | 5.3  | 3.8            | 5,384                        |
| Divorced/separated/widowed                             | 7.2  | 3.8            | 1,214                        |
| <b>Employment</b>                                      |  |                |                              |
| Employed for cash                                      | 6.6  | 4.1            | 3,337                        |
| Employed not for cash                                  | 4.2  | 2.7            | 745                          |
| Not employed   | 4.8  | 3.8            | 2,516                        |
| <b>Number of living children</b>                       |  |                |                              |
| 0  | 4.0  | 3.7            | 285                          |
| 1-2  | 5.9  | 4.3            | 2,365                        |
| 3-4  | 6.6  | 4.2            | 1,971                        |
| 5+   | 4.8  | 3.0            | 1,976                        |
| <b>Education</b>                                       |  |                |                              |
| No education   | 4.4  | 2.1            | 673                          |
| Primary  | 5.2  | 3.8            | 3,334                        |
| Secondary  | 6.9  | 4.7            | 2,258                        |
| Higher   | 4.8  | 2.4            | 332                          |
| <b>Wealth quintile</b>                                 |  |                |                              |
| Lowest   | 3.5  | 2.5            | 1,357                        |
| Second   | 4.5  | 3.2            | 1,285                        |
| Middle   | 3.5  | 2.1            | 1,269                        |
| Fourth   | 8.3  | 5.9            | 1,427                        |
| Highest  | 8.3  | 5.3            | 1,260                        |
| Total  | 5.7  | 3.8            | 6,598                        |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes in the past 12 months

**Table 17.16 Violence by women against their husband by husband's characteristics and empowerment indicators**

Percentage of ever-married women who have committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them, ever and in the past 12 months, according to their husband's characteristics and women's empowerment indicators, Zambia DHS 2018

| Background characteristic  | Percentage who committed physical violence against their husband/partner |                | Number of ever-married women |
|--|--|----------------|------------------------------|
|  | Ever <sup>1</sup>  | Past 12 months |                              |
| <b>Husband's/partner's education<sup>2</sup></b>                                     |  |                |                              |
| No education   | 4.8  | 3.6            | 278                          |
| Primary  | 4.5  | 3.4            | 1,952                        |
| Secondary  | 5.6  | 4.0            | 2,467                        |
| Higher   | 6.0  | 3.6            | 484                          |
| Don't know/missing   | 9.4  | 7.5            | 202                          |
| <b>Husband's/partner's alcohol consumption</b>                                       |  |                |                              |
| Does not drink alcohol   | 2.9  | 1.7            | 4,108                        |
| Drinks alcohol but is never drunk  | (2.4)  | (0.0)          | 35                           |
| Is sometimes drunk   | 7.7  | 5.4            | 1,617                        |
| Is often drunk   | 15.5   | 11.3           | 837                          |
| <b>Spousal education difference<sup>2</sup></b>                                      |  |                |                              |
| Husband better educated  | 4.8  | 3.3            | 3,112                        |
| Wife better educated   | 5.0  | 4.1            | 1,026                        |
| Both equally educated  | 6.2  | 4.7            | 889                          |
| Neither educated   | 5.0  | 2.2            | 115                          |
| Don't know/missing   | 9.8  | 7.2            | 243                          |
| <b>Spousal age difference<sup>2</sup></b>  |  |                |                              |
| Wife older   | 3.6  | 2.9            | 161                          |
| Wife is same age   | 3.0  | 2.2            | 166                          |
| Wife 1-4 years younger   | 5.0  | 3.6            | 2,008                        |
| Wife 5-9 years younger   | 5.2  | 3.9            | 2,116                        |
| Wife 10 or more years younger  | 6.9  | 4.7            | 933                          |
| <b>Number of marital control behaviours displayed by husband/partner<sup>3</sup></b> |  |                |                              |
| 0  | 2.3  | 1.6            | 1,981                        |
| 1-2  | 3.8  | 2.4            | 2,523                        |
| 3-4  | 10.9   | 7.5            | 1,707                        |
| 5  | 12.1   | 8.6            | 386                          |
| <b>Number of decisions in which women participate<sup>4</sup></b>                    |  |                |                              |
| 0  | 3.0  | 2.3            | 312                          |
| 1-2  | 4.8  | 3.8            | 1,043                        |
| 3-4  | 5.7  | 4.0            | 4,029                        |
| <b>Number of reasons for which wife beating is justified<sup>5</sup></b>             |  |                |                              |
| 0  | 4.7  | 3.0            | 3,478                        |
| 1-2  | 7.1  | 4.3            | 1,152                        |
| 3-4  | 7.7  | 6.5            | 1,060                        |
| 5-6  | 5.3  | 3.2            | 908                          |
| <b>Woman's father beat her mother</b>  |  |                |                              |
| Yes  | 8.8  | 5.6            | 1,881                        |
| No   | 4.1  | 3.0            | 4,255                        |
| Don't know/missing   | 7.3  | 4.3            | 461                          |
| <b>Woman afraid of husband/partner</b>   |  |                |                              |
| Afraid most of the time  | 9.2  | 6.3            | 1,060                        |
| Sometimes afraid   | 4.6  | 3.4            | 2,654                        |
| Never afraid   | 5.3  | 3.3            | 2,883                        |
| Total  | 5.7  | 3.8            | 6,598                        |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes in the past 12 months

<sup>2</sup> Includes only currently married women

<sup>3</sup> According to the wife's report. See Table 17.8 for list of behaviours.

<sup>4</sup> According to the wife's report. Includes only currently married women. See Table 16.9.1 for list of decisions.

<sup>5</sup> According to the wife's report. See Table 16.10.1 for list of reasons.

**Table 17.17 Help seeking to stop violence**

Percent distribution of women age 15-49 who have ever experienced physical or sexual violence by their help-seeking behaviour, according to type of violence and background characteristics, Zambia DHS 2018

| Type of violence/<br>background characteristic | Sought help to<br>stop violence | Never sought<br>help but told<br>someone | Never sought<br>help, never told<br>anyone | Missing/<br>don't know | Total | Number of<br>women who<br>have ever<br>experienced any<br>physical or<br>sexual violence |
|--|---------------------------------|--|--|------------------------|-------|--|
| <b>Type of violence experienced</b>            |                                 |  |  |                        |       |  |
| Physical only                                  | 32.5                            | 13.2                                     | 54.4                                       | 0.0                    | 100.0 | 2,422  |
| Sexual only                                    | 19.5                            | 12.4                                     | 68.1                                       | 0.0                    | 100.0 | 317  |
| Both physical and sexual                       | 46.3                            | 13.2                                     | 40.6                                       | 0.0                    | 100.0 | 985  |
| <b>Age</b>                                     |                                 |  |  |                        |       |  |
| 15-19  | 26.7                            | 15.1                                     | 58.3                                       | 0.0                    | 100.0 | 486  |
| 20-24  | 30.1                            | 13.4                                     | 56.5                                       | 0.0                    | 100.0 | 728  |
| 25-29  | 33.1                            | 13.3                                     | 53.5                                       | 0.0                    | 100.0 | 688  |
| 30-39  | 39.9                            | 13.5                                     | 46.6                                       | 0.0                    | 100.0 | 1,102  |
| 40-49  | 39.9                            | 10.7                                     | 49.4                                       | 0.0                    | 100.0 | 721  |
| <b>Religion</b>                                |                                 |  |  |                        |       |  |
| Catholic                                       | 31.8                            | 16.8                                     | 51.4                                       | 0.0                    | 100.0 | 652  |
| Protestant                                     | 35.4                            | 12.4                                     | 52.2                                       | 0.0                    | 100.0 | 3,009  |
| Muslim   | *                               | *  | *  | *                      | 100.0 | 19   |
| Other  | (38.3)                          | (9.0)                                    | (52.7)                                     | (0.0)                  | 100.0 | 45   |
| <b>Residence</b>                               |                                 |  |  |                        |       |  |
| Urban  | 31.8                            | 13.6                                     | 54.7                                       | 0.0                    | 100.0 | 1,637  |
| Rural  | 37.6                            | 12.7                                     | 49.7                                       | 0.0                    | 100.0 | 2,087  |
| <b>Province</b>                                |                                 |  |  |                        |       |  |
| Central  | 31.5                            | 16.9                                     | 51.6                                       | 0.0                    | 100.0 | 248  |
| Copperbelt                                     | 28.1                            | 8.8                                      | 63.0                                       | 0.0                    | 100.0 | 665  |
| Eastern  | 50.0                            | 15.6                                     | 34.4                                       | 0.0                    | 100.0 | 499  |
| Luapula  | 24.5                            | 15.7                                     | 59.7                                       | 0.0                    | 100.0 | 358  |
| Lusaka   | 35.8                            | 13.8                                     | 50.3                                       | 0.0                    | 100.0 | 571  |
| Muchinga                                       | 26.8                            | 7.6                                      | 65.7                                       | 0.0                    | 100.0 | 314  |
| Northern                                       | 27.9                            | 18.7                                     | 53.4                                       | 0.0                    | 100.0 | 285  |
| North Western                                  | 35.4                            | 13.0                                     | 51.5                                       | 0.0                    | 100.0 | 120  |
| Southern                                       | 40.5                            | 13.0                                     | 46.6                                       | 0.0                    | 100.0 | 467  |
| Western  | 51.6                            | 10.3                                     | 38.1                                       | 0.0                    | 100.0 | 197  |
| <b>Marital status</b>                          |                                 |  |  |                        |       |  |
| Never married                                  | 26.5                            | 16.5                                     | 57.0                                       | 0.0                    | 100.0 | 654  |
| Married or living together                     | 34.9                            | 10.8                                     | 54.3                                       | 0.0                    | 100.0 | 2,396  |
| Divorced/separated/widowed                     | 43.7                            | 18.0                                     | 38.3                                       | 0.0                    | 100.0 | 674  |
| <b>Number of living children</b>               |                                 |  |  |                        |       |  |
| 0  | 26.8                            | 15.1                                     | 58.1                                       | 0.0                    | 100.0 | 604  |
| 1-2  | 32.4                            | 13.5                                     | 54.1                                       | 0.0                    | 100.0 | 1,214  |
| 3-4  | 38.8                            | 13.9                                     | 47.3                                       | 0.0                    | 100.0 | 943  |
| 5+   | 39.7                            | 10.5                                     | 49.8                                       | 0.0                    | 100.0 | 963  |
| <b>Employment</b>                              |                                 |  |  |                        |       |  |
| Employed for cash                              | 38.1                            | 14.2                                     | 47.6                                       | 0.0                    | 100.0 | 1,773  |
| Employed not for cash                          | 43.7                            | 11.3                                     | 44.9                                       | 0.0                    | 100.0 | 456  |
| Not employed                                   | 28.6                            | 12.3                                     | 59.1                                       | 0.0                    | 100.0 | 1,495  |
| <b>Education</b>                               |                                 |  |  |                        |       |  |
| No education                                   | 34.5                            | 12.0                                     | 53.5                                       | 0.0                    | 100.0 | 359  |
| Primary  | 38.3                            | 12.9                                     | 48.8                                       | 0.0                    | 100.0 | 1,825  |
| Secondary                                      | 31.5                            | 12.4                                     | 56.1                                       | 0.0                    | 100.0 | 1,374  |
| Higher   | 28.7                            | 23.2                                     | 48.2                                       | 0.0                    | 100.0 | 166  |
| <b>Wealth quintile</b>                         |                                 |  |  |                        |       |  |
| Lowest   | 38.7                            | 13.0                                     | 48.3                                       | 0.0                    | 100.0 | 755  |
| Second   | 37.9                            | 11.7                                     | 50.3                                       | 0.0                    | 100.0 | 767  |
| Middle   | 34.0                            | 15.9                                     | 50.1                                       | 0.0                    | 100.0 | 651  |
| Fourth   | 33.2                            | 11.3                                     | 55.5                                       | 0.0                    | 100.0 | 816  |
| Highest  | 31.2                            | 14.1                                     | 54.8                                       | 0.0                    | 100.0 | 736  |
| Total  | 35.0                            | 13.1                                     | 51.9                                       | 0.0                    | 100.0 | 3,724  |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

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**Table 17.18 Sources for help to stop the violence**

Percentage of women age 15-49 who have experienced physical or sexual violence and sought help by sources from which they sought help, according to the type of violence that women reported, Zambia DHS 2018

| Source                               | Type of violence experienced |             |                          | Physical or sexual violence |
|--------------------------------------|------------------------------|-------------|--------------------------|-----------------------------|
|                                      | Physical only                | Sexual only | Both physical and sexual |                             |
| Own family                           | 61.4                         | 68.6        | 63.5                     | 62.5                        |
| Husband/partner's family             | 44.6                         | 16.1        | 49.1                     | 44.8                        |
| Husband/partner                      | 0.4                          | 2.5         | 3.0                      | 1.4                         |
| Boyfriend                            | 0.0                          | 3.4         | 0.0                      | 0.2                         |
| Friend                               | 4.1                          | 24.2        | 4.4                      | 5.1                         |
| Neighbour                            | 6.1                          | 5.7         | 6.1                      | 6.1                         |
| Religious leader                     | 6.6                          | 5.7         | 8.2                      | 7.1                         |
| Doctor/medical personnel             | 4.4                          | 0.0         | 3.8                      | 4.0                         |
| Police                               | 12.2                         | 3.7         | 21.1                     | 14.9                        |
| Lawyer                               | 0.8                          | 0.0         | 1.7                      | 1.1                         |
| Social work organisation             | 2.1                          | 0.0         | 3.5                      | 2.5                         |
| Other                                | 3.4                          | 2.6         | 4.7                      | 3.9                         |
| Number of women who have sought help | 786                          | 62          | 456                      | 1,304                       |

Note: Women can report more than one source from which they sought help.

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### A.1 INTRODUCTION

This appendix describes the objectives of the survey, the overall sample size, survey domains, and any subsamples used.

The 2018 Zambia Demographic and Health Survey (2018 ZDHS) is a nationwide survey with a nationally representative sample of approximately 13,625 selected households. All women age 15-49 and all men age 15-59 who are usual members of the selected households or who spent the night before the survey in the selected households were eligible for individual interviews. In all households, all women age 15-49 and all children under age 5 were eligible for height and weight measurements and anaemia testing. One woman age 15-49 was selected from each household to complete the domestic violence module. The survey was designed to produce reliable estimates for key indicators at the national level as well as for urban and rural areas and each of the 10 provinces: Central, Copperbelt, Eastern, Luapula, Lusaka, Muchinga, Northern, North Western, Southern, and Western.

### A.2 SAMPLE FRAME

The sampling frame used for the 2018 ZDHS is based on the Census of Population and Housing of the Republic of Zambia (CPH) conducted in 2010, provided by the Zambia Statistics Agency. Zambia is divided into 10 provinces. Each province is subdivided into districts, each district into constituencies, and each constituency into wards. In addition to these administrative units, during the 2010 CPH each ward was subdivided into convenient areas called census supervisory areas (CSAs), and in turn each CSA was subdivided into standard enumeration areas (SEAs). An SEA is a geographical area, usually a city block in an urban area or a village in a rural area, consisting of an adequate number of households; each SEA serves as a counting unit for the population census. The current version of the SEA frame of the 2010 CPH has been updated to accommodate the changes in districts and constituencies that occurred between 2010 and 2017. The list of SEAs has census information on households and population counts. Each SEA has a sketch map delineating its boundaries, with identification information and a measure of size, which is the number of residential households enumerated in the 2010 CPH. This list of SEAs was used as the sampling frame of the 2018 ZDHS.

**Table A.1** shows the percentage distribution of households by province and by type of residence according to the 2018 ZDHS sampling frame. The table indicates that 45.7% of households in Zambia are in Lusaka (18.3%), Copperbelt (15.2%), and Eastern (12.2%). In addition, 40.3% of households are in urban areas. The percentage of the household population in urban areas varies from 13.8% in Eastern to 82.1% in Lusaka. **Table A.2** indicates the distribution of SEAs and their average size in number of households by province and by type of residence. There are in total 25,631 SEAs; among them, 7,728 are in urban areas and 17,903 are in rural areas. The average SEA size is 110 households; urban SEAs are larger in size, with an average of 147 households per SEA, whereas rural SEAs have an average of 94 households.

**Table A.1 Distribution of residential households by provinces and type of residence**

| Province      | Residential households |                  |                  | Percentage   |             |
|---------------|------------------------|------------------|------------------|--------------|-------------|
|               | Urban                  | Rural            | Total            | Provinces    | Urban       |
| Central       | 76,002                 | 198,744          | 274,746          | 9.8          | 27.7        |
| Copperbelt    | 336,672                | 90,217           | 426,889          | 15.2         | 78.9        |
| Eastern       | 47,371                 | 295,534          | 342,905          | 12.2         | 13.8        |
| Luapula       | 44,254                 | 199,656          | 243,910          | 8.7          | 18.1        |
| Lusaka        | 422,029                | 92,051           | 514,080          | 18.3         | 82.1        |
| Muchinga      | 26,585                 | 127,665          | 154,250          | 5.5          | 17.2        |
| Northern      | 44,296                 | 196,260          | 240,556          | 8.5          | 18.4        |
| North Western | 31,460                 | 110,464          | 141,924          | 5.0          | 22.2        |
| Southern      | 79,551                 | 206,791          | 286,342          | 10.2         | 27.8        |
| Western       | 27,196                 | 163,099          | 190,295          | 6.8          | 14.3        |
| <b>Zambia</b> | <b>1,135,416</b>       | <b>1,680,481</b> | <b>2,815,897</b> | <b>100.0</b> | <b>40.3</b> |

Source: The 2010 CPH conducted by the Zambia Statistics Agency.

**Table A.2 Distribution of SEAs and their average size in number of households by provinces and type of residence**

| Province      | Number of SEAs |               |               | Average SEA size |           |            |
|---------------|----------------|---------------|---------------|------------------|-----------|------------|
|               | Urban          | Rural         | Total         | Urban            | Rural     | Total      |
| Central       | 593            | 2,234         | 2,827         | 128              | 89        | 97         |
| Copperbelt    | 2,351          | 924           | 3,275         | 143              | 98        | 130        |
| Eastern       | 245            | 3,279         | 3,524         | 193              | 90        | 97         |
| Luapula       | 334            | 1,890         | 2,224         | 132              | 106       | 110        |
| Lusaka        | 2,767          | 833           | 3,600         | 153              | 111       | 143        |
| Muchinga      | 188            | 1,470         | 1,658         | 141              | 87        | 93         |
| Northern      | 297            | 2,207         | 2,504         | 149              | 89        | 96         |
| North Western | 198            | 984           | 1,182         | 159              | 112       | 120        |
| Southern      | 541            | 2,307         | 2,848         | 147              | 90        | 101        |
| Western       | 214            | 1,775         | 1,989         | 127              | 92        | 96         |
| <b>Zambia</b> | <b>7,728</b>   | <b>17,903</b> | <b>25,631</b> | <b>147</b>       | <b>94</b> | <b>110</b> |

Source: The 2010 CPH conducted by the Zambia Statistics Agency.

### A.3 SAMPLE DESIGN AND IMPLEMENTATION

The 2018 ZDHS sample is stratified and selected in two stages. Each province is stratified into urban and rural areas yielding 20 sampling strata. Samples of SEAs are selected independently in each stratum in two stages. Implicit stratification and proportional allocation are achieved at each of the lower administrative levels by sorting the sampling frame within each sampling stratum before sample selection according to administrative units in different levels and by using a probability proportional to size selection at the first stage of sampling.

In the first stage, 545 SEAs were selected with probability proportional to SEA size and with independent selection in each sampling stratum. The sample allocation is given in **Table A.3**. The SEA size is the number of residential households residing in the SEA based on the 2018 ZDHS sampling frame. A household listing operation was carried out in all of the selected sample SEAs, and the resulting lists of households served as the sampling frame for the selection of households in the next stage. Some of the selected SEAs were large in size. In order to minimise the task of household listing, for the selected SEAs with more than 300 households, each large SEA was segmented. Only one segment was selected for the survey with probability proportional to segment size. Household listing was conducted only in the selected segment. Thus, a 2018 ZDHS cluster is either an SEA or a segment of an SEA.

In the last stage of selection, a fixed number of 25 households per cluster was selected with an equal probability systematic selection from the newly created household listing. The survey interviewers interviewed only the pre-selected households. No replacements and no changes of the pre-selected households were allowed in the implementing stages in order to prevent bias. All women age 15-49 and men age 15-59 who are usual members of the selected households or who spent the night before the survey

in the selected households were eligible for the woman's questionnaire and the man's questionnaire, respectively.

**Table A.3** shows the allocation of selected SEAs and households according to provinces and urban/rural areas, and **Table A.4** shows the expected number of completed interviews with women and men according to provinces and urban/rural areas. Based on a fixed sample of 25 households per cluster, the survey selected 545 SEAs, 198 in urban areas and 347 in rural areas. A total of 13,625 residential households were selected for the survey, 4,950 in urban areas and 8,675 in rural areas. The sample was expected to result in about 12,219 completed interviews with women age 15-49 (5,105 in urban areas and 7,114 in rural areas) and about 11,043 completed interviews with men age 15-59 (4,429 in urban areas and 6,614 in rural areas).

**Table A.3 The 2018 ZDHS sample allocation of SEAs and households by provinces and type of residence**

| Province      | Number of SEAs allocated |            |            | Number of households allocated |              |               |
|---------------|--------------------------|------------|------------|--------------------------------|--------------|---------------|
|               | Urban                    | Rural      | Total      | Urban                          | Rural        | Total         |
| Central       | 18                       | 37         | 55         | 450                            | 925          | 1,375         |
| Copperbelt    | 37                       | 24         | 61         | 925                            | 600          | 1,525         |
| Eastern       | 15                       | 47         | 62         | 375                            | 1,175        | 1,550         |
| Luapula       | 15                       | 39         | 54         | 375                            | 975          | 1,350         |
| Lusaka        | 42                       | 24         | 66         | 1,050                          | 600          | 1,650         |
| Muchinga      | 12                       | 33         | 45         | 300                            | 825          | 1,125         |
| Northern      | 15                       | 38         | 53         | 375                            | 950          | 1,325         |
| North Western | 13                       | 30         | 43         | 325                            | 750          | 1,075         |
| Southern      | 19                       | 38         | 57         | 475                            | 950          | 1,425         |
| Western       | 12                       | 37         | 49         | 300                            | 925          | 1,225         |
| <b>Zambia</b> | <b>198</b>               | <b>347</b> | <b>545</b> | <b>4,950</b>                   | <b>8,675</b> | <b>13,625</b> |

**Table A.4 The 2018 ZDHS sample allocation of expected completed women and men interviews by province and type of residence**

| Province      | Expected number of interviews with women age 15-49 |              |               | Expected number of interviews with men age 15-59 |              |               |
|---------------|--|--------------|---------------|--|--------------|---------------|
|               | Urban  | Rural        | Total         | Urban  | Rural        | Total         |
| Central       | 464  | 758          | 1,222         | 402  | 705          | 1,107         |
| Copperbelt    | 954  | 492          | 1,446         | 827  | 457          | 1,284         |
| Eastern       | 387  | 963          | 1,350         | 336  | 896          | 1,232         |
| Luapula       | 387  | 800          | 1,187         | 336  | 743          | 1,079         |
| Lusaka        | 1,083  | 492          | 1,575         | 940  | 457          | 1,397         |
| Muchinga      | 309  | 676          | 985           | 268  | 629          | 897           |
| Northern      | 387  | 780          | 1,167         | 336  | 725          | 1,061         |
| North Western | 335  | 615          | 950           | 291  | 572          | 863           |
| Southern      | 490  | 780          | 1,270         | 425  | 725          | 1,150         |
| Western       | 309  | 758          | 1,067         | 268  | 705          | 973           |
| <b>Zambia</b> | <b>5,105</b>                                       | <b>7,114</b> | <b>12,219</b> | <b>4,429</b>                                     | <b>6,614</b> | <b>11,043</b> |

The sample allocations were derived using information obtained from the 2013-14 ZDHS. The average number of women age 15-49 per household is 1.180 in urban areas and 0.988 in rural areas; the average number of men age 15-59 per household is 1.101 in urban areas and 0.954 in rural areas; the household completion rate is 91.1% in urban areas and 86.1% in rural areas; the response rate among women age 15-49 is 95.8% in urban areas and 96.5% in rural areas; and the response rate among men age 15-59 is 89.1% in urban areas and 92.9% in rural areas.

#### A.4 SAMPLE PROBABILITIES AND SAMPLING WEIGHTS

Due to the non-proportional allocation of the sample to different provinces and their urban and rural areas and the possible differences in response rates, sampling weights will be required for any analysis using the 2018 ZDHS data to ensure the actual representativeness of the survey results at the national level and as well as the domain level. Since the 2018 ZDHS sample is a two-stage stratified cluster sample, sampling weights were calculated based on sampling probabilities separately for each sampling stage and for each cluster. The following notations were used:

- $P_{1hi}$ : first-stage sampling probability of the  $i^{th}$  cluster in stratum  $h$
- $P_{2hi}$ : second-stage sampling probability within the  $i^{th}$  cluster (households)
- $P_{hi}$ : overall sampling probability of any households of the  $i^{th}$  cluster in stratum  $h$

Let  $a_h$  be the number of SEAs selected in stratum  $h$ ,  $M_{hi}$  the number of households according to the sampling frame in the  $i^{th}$  SEA, and  $\sum M_{hi}$  the total number of households in the stratum. The probability of selecting the  $i^{th}$  SEA in the 2018 ZDHS sample is calculated as follows:

$$\frac{a_h M_{hi}}{\sum M_{hi}}$$

Let  $b_{hi}$  be the proportion of households in the selected cluster relative to the total number of households in SEA  $i$  in stratum  $h$  if the SEA is segmented; otherwise,  $b_{hi} = 1$ . Then the probability of selecting cluster  $i$  in the sample is:

$$P_{1hi} = \frac{a_h M_{hi}}{\sum M_{hi}} \times b_{hi}$$

Let  $L_{hi}$  be the number of households listed in the household listing operation in cluster  $i$  in stratum  $h$ , and let  $g_{hi}$  be the number of households selected in the cluster. The second stage's selection probability for each household in the cluster is calculated as follows:

$$P_{2hi} = \frac{g_{hi}}{L_{hi}}$$

The overall selection probability of each household in cluster  $i$  of stratum  $h$  is therefore the product of the two-stage selection probabilities:

$$P_{hi} = P_{1hi} \times P_{2hi}$$

The sampling weight for each household in cluster  $i$  of stratum  $h$  is the inverse of its overall selection probability:

$$W_{hi} = 1/P_{hi}$$

The design weights were adjusted for household non-response and individual non-response to obtain the sampling weights for households and for women and men, respectively. Non-response is adjusted at the sampling stratum level. For the household sampling weight, the household design weight is multiplied by the inverse of the household response rate by stratum. For women's individual sampling weight, the household sampling weight is multiplied by the inverse of women's individual response rate by stratum. After adjusting for non-response, the sampling weights are normalised to obtain the final standard weights that appear in the data files. The normalisation process is done to obtain a total number of unweighted cases equal to the total number of weighted cases at the national level for the total number of households, women, and men. Normalisation is done by multiplying the sampling weight by the estimated sampling fraction obtained from the survey for the household weight and the individual women's and men's weights. The normalised weights are relative weights that are valid for estimating means, proportions, ratios, and rates but are not valid for estimating population totals or for pooled data. A special weight for domestic violence was calculated that accounts for the selection of one woman per household and for module nonresponse. HIV weights were produced that accounted for HIV testing nonresponse among women and men separately.

**Table A.5 Sample implementation: Women**

Percent distribution of households and eligible women age 15-49 by results of the household and individual interviews, and household, eligible women, and overall women response rates, according to residence and province (unweighted), Zambia DHS 2018

| Result   | Residence |       |         | Province    |         |         |        |          |          |               |          | Total |        |
|--|-----------|-------|---------|-------------|---------|---------|--------|----------|----------|---------------|----------|-------|--------|
|  | Urban     | Rural | Central | Copper-belt | Eastern | Luapula | Lusaka | Muchinga | Northern | North Western | Southern |       |        |
| <b>Selected households</b>                                 |           |       |         |             |         |         |        |          |          |               |          |       |        |
| Completed (C)  | 95.3      | 93.8  | 95.1    | 94.8        | 93.7    | 99.4    | 93.9   | 95.6     | 94.0     | 94.0          | 92.1     | 91.3  | 94.4   |
| Household present but no competent respondent at home (HP) | 0.6       | 0.5   | 0.7     | 0.3         | 0.7     | 0.0     | 0.5    | 0.1      | 0.9      | 0.5           | 1.1      | 0.4   | 0.5    |
| Refused (R)  | 0.4       | 0.2   | 0.4     | 0.3         | 0.3     | 0.0     | 0.4    | 0.0      | 0.2      | 0.4           | 0.1      | 0.5   | 0.3    |
| Dwelling not found (DNF)                                   | 0.0       | 0.0   | 0.1     | 0.1         | 0.1     | 0.0     | 0.0    | 0.0      | 0.0      | 0.0           | 0.1      | 0.0   | 0.0    |
| Household absent (HA)                                      | 1.1       | 2.1   | 1.4     | 1.0         | 1.7     | 0.3     | 1.5    | 0.6      | 1.9      | 2.0           | 1.6      | 5.3   | 1.7    |
| Dwelling vacant/address not a dwelling (DV)                | 2.3       | 2.9   | 1.7     | 3.1         | 3.0     | 0.2     | 3.3    | 3.5      | 2.4      | 2.6           | 4.6      | 2.0   | 2.7    |
| Dwelling destroyed (DD)                                    | 0.2       | 0.5   | 0.5     | 0.3         | 0.6     | 0.1     | 0.4    | 0.3      | 0.6      | 0.7           | 0.4      | 0.4   | 0.4    |
| Total  | 100.0     | 100.0 | 100.0   | 100.0       | 100.0   | 100.0   | 100.0  | 100.0    | 100.0    | 100.0         | 100.0    | 100.0 | 100.0  |
| Number of sampled households                               | 4,944     | 8,651 | 1,375   | 1,525       | 1,550   | 1,350   | 1,645  | 1,125    | 1,325    | 1,075         | 1,400    | 1,225 | 13,595 |
| Household response rate (HRR) <sup>1</sup>                 | 98.9      | 99.3  | 98.7    | 99.2        | 98.9    | 100.0   | 99.0   | 99.9     | 98.9     | 99.1          | 98.6     | 99.0  | 99.1   |
| <b>Eligible women</b>                                      |           |       |         |             |         |         |        |          |          |               |          |       |        |
| Completed (EWC)  | 95.6      | 97.0  | 98.7    | 95.3        | 95.0    | 95.9    | 98.0   | 97.8     | 95.2     | 98.3          | 95.7     | 94.6  | 96.4   |
| Not at home (EWNH)   | 2.9       | 2.0   | 0.5     | 2.9         | 3.1     | 2.6     | 0.9    | 1.4      | 4.0      | 1.1           | 3.0      | 4.6   | 2.4    |
| Postponed (EWP)  | 0.0       | 0.0   | 0.0     | 0.0         | 0.0     | 0.1     | 0.0    | 0.0      | 0.0      | 0.0           | 0.1      | 0.0   | 0.0    |
| Refused (EWR)  | 0.9       | 0.4   | 0.1     | 1.3         | 1.0     | 0.7     | 0.3    | 0.2      | 0.5      | 0.5           | 0.6      | 0.4   | 0.6    |
| Partly completed (EWPC)                                    | 0.0       | 0.0   | 0.0     | 0.0         | 0.1     | 0.1     | 0.0    | 0.0      | 0.0      | 0.1           | 0.0      | 0.0   | 0.0    |
| Incapacitated (EWI)  | 0.3       | 0.4   | 0.5     | 0.4         | 0.7     | 0.3     | 0.3    | 0.4      | 0.2      | 0.0           | 0.5      | 0.4   | 0.4    |
| Other (EWO)  | 0.3       | 0.1   | 0.2     | 0.1         | 0.1     | 0.3     | 0.4    | 0.1      | 0.0      | 0.1           | 0.0      | 0.0   | 0.1    |
| Total  | 100.0     | 100.0 | 100.0   | 100.0       | 100.0   | 100.0   | 100.0  | 100.0    | 100.0    | 100.0         | 100.0    | 100.0 | 100.0  |
| Number of women  | 5,766     | 8,423 | 1,416   | 1,695       | 1,617   | 1,474   | 1,811  | 1,209    | 1,301    | 1,100         | 1,407    | 1,159 | 14,189 |
| Eligible women response rate (EWRR) <sup>2</sup>           | 95.6      | 97.0  | 98.7    | 95.3        | 95.0    | 95.9    | 98.0   | 97.8     | 95.2     | 98.3          | 95.7     | 94.6  | 96.4   |
| Overall women response rate (ORR) <sup>3</sup>             | 94.5      | 96.3  | 97.4    | 94.6        | 94.0    | 95.9    | 97.1   | 97.8     | 94.2     | 97.4          | 94.4     | 93.6  | 95.6   |

<sup>1</sup> Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

$$\frac{100 * C}{C + HP + P + R + DNF}$$

<sup>2</sup> The eligible women response rate (EWRR) is equivalent to the percentage of interviews completed (EWC).

<sup>3</sup> The overall women response rate (OWRR) is calculated as: OWRR = HRR \* EWRR/100.

**Table A.6 Sample implementation: Men**

Percent distribution of households and eligible men age 15-59 by results of the household and individual interviews, and household, eligible men, and overall men response rates, according to residence and province (unweighted), Zambia DHS 2018

| Result   | Residence |       |         | Province    |         |         |        |          |          |               |          |         | Total  |
|--|-----------|-------|---------|-------------|---------|---------|--------|----------|----------|---------------|----------|---------|--------|
|  | Urban     | Rural | Central | Copper-belt | Eastern | Luapula | Lusaka | Muchinga | Northern | North Western | Southern | Western |        |
| <b>Selected households</b>                                 |           |       |         |             |         |         |        |          |          |               |          |         |        |
| Completed (C)  | 95.3      | 93.8  | 95.1    | 94.8        | 93.7    | 99.4    | 93.9   | 95.6     | 94.0     | 94.0          | 92.1     | 91.3    | 94.4   |
| Household present but no competent respondent at home (HP) | 0.6       | 0.5   | 0.7     | 0.3         | 0.7     | 0.0     | 0.5    | 0.1      | 0.9      | 0.5           | 1.1      | 0.4     | 0.5    |
| Refused (R)  | 0.4       | 0.2   | 0.4     | 0.3         | 0.3     | 0.0     | 0.4    | 0.0      | 0.2      | 0.4           | 0.1      | 0.5     | 0.3    |
| Dwelling not found (DNF)                                   | 0.0       | 0.0   | 0.1     | 0.1         | 0.1     | 0.0     | 0.0    | 0.0      | 0.0      | 0.0           | 0.1      | 0.0     | 0.0    |
| Household absent (HA)                                      | 1.1       | 2.1   | 1.4     | 1.0         | 1.7     | 0.3     | 1.5    | 0.6      | 1.9      | 2.0           | 1.6      | 5.3     | 1.7    |
| Dwelling vacant/address not a dwelling (DV)                | 2.3       | 2.9   | 1.7     | 3.1         | 3.0     | 0.2     | 3.3    | 3.5      | 2.4      | 2.6           | 4.6      | 2.0     | 2.7    |
| Dwelling destroyed (DD)                                    | 0.2       | 0.5   | 0.5     | 0.3         | 0.6     | 0.1     | 0.4    | 0.3      | 0.6      | 0.7           | 0.4      | 0.4     | 0.4    |
| Total  | 100.0     | 100.0 | 100.0   | 100.0       | 100.0   | 100.0   | 100.0  | 100.0    | 100.0    | 100.0         | 100.0    | 100.0   | 100.0  |
| Number of sampled households                               | 4,944     | 8,651 | 1,375   | 1,525       | 1,550   | 1,350   | 1,645  | 1,125    | 1,325    | 1,075         | 1,400    | 1,225   | 13,595 |
| Household response rate (HRR) <sup>1</sup>                 | 98.9      | 99.3  | 98.7    | 99.2        | 98.9    | 100.0   | 99.0   | 99.9     | 98.9     | 99.1          | 98.6     | 99.0    | 99.1   |
| <b>Eligible men</b>  |           |       |         |             |         |         |        |          |          |               |          |         |        |
| Completed (EMC)  | 88.6      | 93.4  | 96.8    | 89.3        | 87.8    | 91.8    | 93.2   | 96.6     | 89.3     | 95.4          | 88.8     | 88.3    | 91.6   |
| Not at home (EMNH)   | 8.6       | 5.3   | 2.3     | 7.3         | 10.1    | 6.9     | 4.4    | 2.2      | 9.7      | 3.1           | 9.0      | 9.7     | 6.6    |
| Postponed (EMP)  | 0.0       | 0.0   | 0.0     | 0.0         | 0.1     | 0.0     | 0.0    | 0.0      | 0.1      | 0.0           | 0.1      | 0.1     | 0.0    |
| Refused (EMR)  | 1.5       | 0.5   | 0.1     | 2.3         | 0.8     | 0.7     | 0.7    | 0.9      | 0.2      | 0.6           | 1.4      | 1.1     | 0.9    |
| Partly completed (EMPC)                                    | 0.0       | 0.0   | 0.0     | 0.1         | 0.0     | 0.0     | 0.0    | 0.0      | 0.0      | 0.0           | 0.0      | 0.0     | 0.0    |
| Incapacitated (EMI)  | 0.7       | 0.7   | 0.7     | 1.0         | 1.0     | 0.6     | 0.5    | 0.4      | 0.7      | 0.7           | 0.8      | 0.7     | 0.7    |
| Other (EMO)  | 0.5       | 0.0   | 0.1     | 0.0         | 0.3     | 0.0     | 1.3    | 0.0      | 0.0      | 0.1           | 0.0      | 0.1     | 0.2    |
| Total  | 100.0     | 100.0 | 100.0   | 100.0       | 100.0   | 100.0   | 100.0  | 100.0    | 100.0    | 100.0         | 100.0    | 100.0   | 100.0  |
| Number of men  | 5,078     | 8,173 | 1,377   | 1,592       | 1,647   | 1,362   | 1,630  | 1,112    | 1,219    | 960           | 1,380    | 972     | 13,251 |
| Eligible men response rate (EMRR) <sup>2</sup>             | 88.6      | 93.4  | 96.8    | 89.3        | 87.8    | 91.8    | 93.2   | 96.6     | 89.3     | 95.4          | 88.8     | 88.3    | 91.6   |
| Overall men response rate (ORR) <sup>3</sup>               | 87.6      | 92.7  | 95.6    | 88.6        | 86.8    | 91.8    | 92.3   | 96.5     | 88.3     | 94.6          | 87.5     | 87.4    | 90.8   |

<sup>1</sup> Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

$$\frac{100 * R}{C + HP + P + R + LNT}$$

<sup>2</sup> The eligible men response rate (EMRR) is equivalent to the percentage of interviews completed (EMC).

<sup>3</sup> The overall men response rate (OMRR) is calculated as: OMRR = HRR \* EMRR/100.

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**Table A.7 Coverage of HIV testing by social and demographic characteristics: Women**

Percent distribution of interviewed women age 15-49 by HIV testing status, according to social and demographic characteristics (unweighted), Zambia DHS 2018

| Characteristic                                      | DBS tested <sup>1</sup> | HIV test status          |  |                            |       | Total  | Number |
|---|-------------------------|--------------------------|--|----------------------------|-------|--------|--------|
|   |                         | Refused to provide blood | Absent at the time of blood collection | Other/missing <sup>2</sup> |       |        |        |
| <b>Marital status</b>                               |                         |                          |  |                            |       |        |        |
| Never married                                       | 95.6                    | 3.5                      | 0.4                                    | 0.5                        | 100.0 | 4,321  |        |
| Ever had sexual intercourse                         | 95.9                    | 3.2                      | 0.4                                    | 0.5                        | 100.0 | 2,520  |        |
| Never had sexual intercourse                        | 95.1                    | 3.9                      | 0.4                                    | 0.6                        | 100.0 | 1,801  |        |
| Married/living together                             | 96.5                    | 3.0                      | 0.2                                    | 0.2                        | 100.0 | 7,597  |        |
| Divorced or separated                               | 96.2                    | 3.1                      | 0.6                                    | 0.1                        | 100.0 | 1,366  |        |
| Widowed   | 95.0                    | 3.8                      | 0.3                                    | 1.0                        | 100.0 | 399    |        |
| <b>Type of union</b>                                |                         |                          |  |                            |       |        |        |
| In polygynous union                                 | 97.4                    | 2.6                      | 0.0                                    | 0.0                        | 100.0 | 834    |        |
| In non-polygynous union                             | 96.4                    | 3.1                      | 0.3                                    | 0.3                        | 100.0 | 6,696  |        |
| Not currently in union                              | 95.7                    | 3.4                      | 0.5                                    | 0.4                        | 100.0 | 6,086  |        |
| Don't know/missing                                  | 97.0                    | 3.0                      | 0.0                                    | 0.0                        | 100.0 | 67     |        |
| <b>Ever had sexual intercourse</b>                  |                         |                          |  |                            |       |        |        |
| Yes   | 96.3                    | 3.1                      | 0.3                                    | 0.3                        | 100.0 | 11,882 |        |
| No  | 95.1                    | 3.9                      | 0.4                                    | 0.6                        | 100.0 | 1,801  |        |
| <b>Currently pregnant</b>                           |                         |                          |  |                            |       |        |        |
| Pregnant  | 96.8                    | 3.2                      | 0.0                                    | 0.1                        | 100.0 | 1,109  |        |
| Not pregnant or not sure                            | 96.1                    | 3.2                      | 0.4                                    | 0.3                        | 100.0 | 12,574 |        |
| <b>Times slept away from home in past 12 months</b> |                         |                          |  |                            |       |        |        |
| None  | 96.3                    | 3.0                      | 0.3                                    | 0.4                        | 100.0 | 8,310  |        |
| 1-2   | 96.4                    | 3.1                      | 0.4                                    | 0.2                        | 100.0 | 3,600  |        |
| 3-4   | 96.0                    | 3.4                      | 0.2                                    | 0.4                        | 100.0 | 1,025  |        |
| 5+  | 93.2                    | 5.7                      | 0.9                                    | 0.1                        | 100.0 | 748    |        |
| <b>Time away in past 12 months</b>                  |                         |                          |  |                            |       |        |        |
| Away for more than 1 month at a time                | 95.9                    | 3.5                      | 0.4                                    | 0.1                        | 100.0 | 1,832  |        |
| Away only for less than 1 month at a time           | 95.8                    | 3.5                      | 0.4                                    | 0.3                        | 100.0 | 3,541  |        |
| No time away  | 96.3                    | 3.0                      | 0.3                                    | 0.4                        | 100.0 | 8,310  |        |
| <b>Religion</b>                                     |                         |                          |  |                            |       |        |        |
| Catholic  | 95.5                    | 3.5                      | 0.6                                    | 0.3                        | 100.0 | 2,351  |        |
| Protestant  | 96.3                    | 3.1                      | 0.3                                    | 0.3                        | 100.0 | 11,138 |        |
| Muslim  | 95.1                    | 4.9                      | 0.0                                    | 0.0                        | 100.0 | 61     |        |
| Other   | 96.2                    | 3.8                      | 0.0                                    | 0.0                        | 100.0 | 133    |        |
| Total   | 96.1                    | 3.2                      | 0.3                                    | 0.3                        | 100.0 | 13,683 |        |

<sup>1</sup> Includes all Dried Blood Samples (DBS) specimens tested at the lab and for which there is a result, i.e., positive, negative, or indeterminate.

<sup>2</sup> Includes (1) other results of blood collection (e.g., technical problem in the field), (2) lost specimens, (3) non-corresponding bar codes, and (4) other lab results such as blood not tested for technical reason, not enough blood to complete the algorithm, etc.

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**Table A.8 Coverage of HIV testing by social and demographic characteristics: Men**

Percent distribution of interviewed men 15-49 by HIV testing status, according to social and demographic characteristics (unweighted), Zambia DHS 2018

| Characteristic                                      | DBS tested <sup>1</sup> | HIV test status          |  |                            |       | Total  | Number |
|---|-------------------------|--------------------------|--|----------------------------|-------|--------|--------|
|   |                         | Refused to provide blood | Absent at the time of blood collection | Other/missing <sup>2</sup> |       |        |        |
| <b>Marital status</b>                               |                         |                          |  |                            |       |        |        |
| Never married                                       | 95.6                    | 2.8                      | 1.2                                    | 0.4                        | 100.0 | 5,129  |        |
| Ever had sexual intercourse                         | 95.8                    | 2.9                      | 1.1                                    | 0.3                        | 100.0 | 3,329  |        |
| Never had sexual intercourse                        | 95.3                    | 2.6                      | 1.3                                    | 0.7                        | 100.0 | 1,800  |        |
| Married/living together                             | 94.7                    | 3.9                      | 1.1                                    | 0.3                        | 100.0 | 5,534  |        |
| Divorced or separated                               | 95.8                    | 3.0                      | 1.0                                    | 0.2                        | 100.0 | 404    |        |
| Widowed   | 97.3                    | 0.0                      | 2.7                                    | 0.0                        | 100.0 | 37     |        |
| <b>Type of union</b>                                |                         |                          |  |                            |       |        |        |
| In polygynous union                                 | 94.2                    | 5.5                      | 0.4                                    | 0.0                        | 100.0 | 274    |        |
| In non-polygynous union                             | 94.7                    | 3.8                      | 1.1                                    | 0.3                        | 100.0 | 5,260  |        |
| Not currently in union                              | 95.7                    | 2.8                      | 1.1                                    | 0.4                        | 100.0 | 5,570  |        |
| <b>Ever had sexual intercourse</b>                  |                         |                          |  |                            |       |        |        |
| Yes   | 95.2                    | 3.5                      | 1.1                                    | 0.3                        | 100.0 | 9,304  |        |
| No  | 95.3                    | 2.6                      | 1.3                                    | 0.7                        | 100.0 | 1,800  |        |
| <b>Circumcised</b>                                  |                         |                          |  |                            |       |        |        |
| Yes   | 94.7                    | 3.4                      | 1.4                                    | 0.6                        | 100.0 | 3,636  |        |
| No  | 95.4                    | 3.3                      | 1.0                                    | 0.2                        | 100.0 | 7,460  |        |
| Don't know/missing                                  | 100.0                   | 0.0                      | 0.0                                    | 0.0                        | 100.0 | 8      |        |
| <b>Times slept away from home in past 12 months</b> |                         |                          |  |                            |       |        |        |
| None  | 95.3                    | 3.1                      | 1.2                                    | 0.4                        | 100.0 | 6,115  |        |
| 1-2   | 95.3                    | 3.4                      | 1.0                                    | 0.3                        | 100.0 | 2,766  |        |
| 3-4   | 94.5                    | 4.2                      | 1.1                                    | 0.2                        | 100.0 | 1,155  |        |
| 5+  | 95.1                    | 3.3                      | 1.1                                    | 0.5                        | 100.0 | 1,068  |        |
| <b>Time away in past 12 months</b>                  |                         |                          |  |                            |       |        |        |
| Away for more than 1 month at a time                | 95.0                    | 3.5                      | 1.1                                    | 0.5                        | 100.0 | 1,545  |        |
| Away only for less than 1 month at a time           | 95.1                    | 3.6                      | 1.0                                    | 0.2                        | 100.0 | 3,444  |        |
| No time away  | 95.3                    | 3.1                      | 1.2                                    | 0.4                        | 100.0 | 6,115  |        |
| <b>Religion</b>                                     |                         |                          |  |                            |       |        |        |
| Catholic  | 94.9                    | 3.1                      | 1.7                                    | 0.3                        | 100.0 | 2,048  |        |
| Protestant  | 95.3                    | 3.3                      | 1.0                                    | 0.4                        | 100.0 | 8,889  |        |
| Muslim  | 96.3                    | 3.7                      | 0.0                                    | 0.0                        | 100.0 | 54     |        |
| Other   | 90.3                    | 8.8                      | 0.9                                    | 0.0                        | 100.0 | 113    |        |
| Total 15-49   | 95.2                    | 3.3                      | 1.1                                    | 0.4                        | 100.0 | 11,104 |        |
| 50-59   | 95.1                    | 3.8                      | 0.8                                    | 0.3                        | 100.0 | 1,028  |        |
| Total 15-59   | 95.2                    | 3.4                      | 1.1                                    | 0.3                        | 100.0 | 12,132 |        |

<sup>1</sup> Includes all Dried Blood Spot (DBS) specimens tested at the lab and for which there is a result, i.e., positive, negative, or indeterminate.

<sup>2</sup> Includes (1) other results of blood collection (e.g., technical problem in the field), (2) lost specimens, (3) non-corresponding bar codes, and (4) other lab results such as blood not tested for technical reason, not enough blood to complete the algorithm, etc.

**Table A.9 Coverage of HIV testing by sexual behaviour characteristics: Women**

Percent distribution of interviewed women age 15-49 who ever had sexual intercourse by HIV test status, according to sexual behaviour characteristics (unweighted), Zambia DHS 2018

| Sexual behaviour characteristic   | DBS tested <sup>1</sup> | HIV test status          |  |                            |       | Total  | Number |
|---|-------------------------|--------------------------|--|----------------------------|-------|--------|--------|
|   |                         | Refused to provide blood | Absent at the time of blood collection | Other/missing <sup>2</sup> |       |        |        |
| <b>Age at first sexual intercourse</b>  |                         |                          |  |                            |       |        |        |
| <16   | 97.0                    | 2.5                      | 0.3                                    | 0.2                        | 100.0 | 4,940  |        |
| 16-17   | 96.4                    | 3.2                      | 0.2                                    | 0.1                        | 100.0 | 3,659  |        |
| 18-19   | 96.0                    | 3.1                      | 0.4                                    | 0.6                        | 100.0 | 1,924  |        |
| 20+   | 93.6                    | 4.9                      | 0.7                                    | 0.8                        | 100.0 | 1,156  |        |
| Missing   | 94.6                    | 4.9                      | 0.0                                    | 0.5                        | 100.0 | 203    |        |
| <b>Number of lifetime partners</b>  |                         |                          |  |                            |       |        |        |
| 1   | 95.9                    | 3.4                      | 0.3                                    | 0.4                        | 100.0 | 4,645  |        |
| 2   | 96.7                    | 2.7                      | 0.4                                    | 0.2                        | 100.0 | 3,671  |        |
| 3-4   | 96.3                    | 3.2                      | 0.3                                    | 0.2                        | 100.0 | 2,892  |        |
| 5-9   | 96.8                    | 2.3                      | 0.5                                    | 0.4                        | 100.0 | 554    |        |
| 10+   | 97.7                    | 2.3                      | 0.0                                    | 0.0                        | 100.0 | 88     |        |
| Missing   | 90.6                    | 9.4                      | 0.0                                    | 0.0                        | 100.0 | 32     |        |
| <b>Multiple sexual partners in past 12 months</b>   |                         |                          |  |                            |       |        |        |
| 0   | 95.0                    | 4.2                      | 0.5                                    | 0.3                        | 100.0 | 1,645  |        |
| 1   | 96.5                    | 2.9                      | 0.3                                    | 0.3                        | 100.0 | 10,032 |        |
| 2+  | 97.1                    | 1.5                      | 0.0                                    | 1.5                        | 100.0 | 204    |        |
| Don't know/missing  | 100.0                   | 0.0                      | 0.0                                    | 0.0                        | 100.0 | 1      |        |
| <b>Nonmarital, noncohabiting partners in past 12 months<sup>3</sup></b>   |                         |                          |  |                            |       |        |        |
| 0   | 96.2                    | 3.2                      | 0.3                                    | 0.2                        | 100.0 | 9,274  |        |
| 1   | 96.5                    | 2.7                      | 0.4                                    | 0.4                        | 100.0 | 2,463  |        |
| 2+  | 96.6                    | 2.1                      | 0.0                                    | 1.4                        | 100.0 | 145    |        |
| <b>Condom use at last sexual intercourse in past 12 months</b>  |                         |                          |  |                            |       |        |        |
| Used condom   | 95.6                    | 3.6                      | 0.2                                    | 0.6                        | 100.0 | 1,406  |        |
| Did not use condom  | 96.7                    | 2.8                      | 0.3                                    | 0.2                        | 100.0 | 8,831  |        |
| No sexual intercourse in past 12 months   | 95.0                    | 4.2                      | 0.5                                    | 0.3                        | 100.0 | 1,645  |        |
| <b>Condom use at last sexual intercourse with a nonmarital, noncohabiting partner in past 12 months<sup>3</sup></b> |                         |                          |  |                            |       |        |        |
| Used condom   | 95.3                    | 3.6                      | 0.3                                    | 0.8                        | 100.0 | 899    |        |
| Did not use condom  | 97.1                    | 2.2                      | 0.5                                    | 0.2                        | 100.0 | 1,709  |        |
| No sexual intercourse with any nonmarital, noncohabiting partners in past 12 months <sup>3</sup>                    | 96.2                    | 3.2                      | 0.3                                    | 0.2                        | 100.0 | 9,274  |        |
| <b>Prior HIV testing</b>  |                         |                          |  |                            |       |        |        |
| Ever tested   | 96.5                    | 2.9                      | 0.3                                    | 0.3                        | 100.0 | 10,970 |        |
| Received results  | 96.5                    | 2.9                      | 0.3                                    | 0.3                        | 100.0 | 10,808 |        |
| Did not receive results   | 98.1                    | 1.9                      | 0.0                                    | 0.0                        | 100.0 | 162    |        |
| Never tested  | 93.9                    | 5.3                      | 0.7                                    | 0.2                        | 100.0 | 912    |        |
| Total   | 96.3                    | 3.1                      | 0.3                                    | 0.3                        | 100.0 | 11,882 |        |

<sup>1</sup> Includes all Dried Blood (DBS) specimens tested at the lab and for which there is a result, i.e., positive, negative, or indeterminate.

<sup>2</sup> Includes (1) other results of blood collection (e.g., technical problem in the field), (2) lost specimens, (3) non-corresponding bar codes, and (4) other lab results such as blood not tested for technical reason, not enough blood to complete the algorithm, etc.

<sup>3</sup> Any partner who was not a spouse and did not live with the respondent

**Table A.10 Coverage of HIV testing by sexual behaviour characteristics: Men**

Percent distribution of interviewed men age 15-49 who ever had sexual intercourse by HIV test status, according to sexual behaviour characteristics (unweighted), Zambia DHS 2018

| Sexual behaviour characteristic   | DBS tested <sup>1</sup> | HIV test status          |  |                            | Total | Number |
|---|-------------------------|--------------------------|--|----------------------------|-------|--------|
|   |                         | Refused to provide blood | Absent at the time of blood collection | Other/missing <sup>2</sup> |       |        |
| <b>Age at first sexual intercourse</b>  |                         |                          |  |                            |       |        |
| <16   | 95.4                    | 3.4                      | 1.1                                    | 0.1                        | 100.0 | 2,864  |
| 16-17   | 95.4                    | 3.5                      | 1.0                                    | 0.1                        | 100.0 | 2,141  |
| 18-19   | 95.8                    | 2.5                      | 1.3                                    | 0.4                        | 100.0 | 2,014  |
| 20+   | 94.2                    | 4.4                      | 0.9                                    | 0.6                        | 100.0 | 2,193  |
| Missing   | 92.4                    | 4.3                      | 3.3                                    | 0.0                        | 100.0 | 92     |
| <b>Number of lifetime partners</b>  |                         |                          |  |                            |       |        |
| 1   | 95.4                    | 3.7                      | 0.7                                    | 0.2                        | 100.0 | 1,076  |
| 2   | 94.4                    | 3.8                      | 1.5                                    | 0.3                        | 100.0 | 1,436  |
| 3-4   | 95.0                    | 3.6                      | 1.0                                    | 0.4                        | 100.0 | 2,682  |
| 5-9   | 95.9                    | 2.8                      | 1.0                                    | 0.2                        | 100.0 | 2,511  |
| 10+   | 95.4                    | 3.3                      | 1.1                                    | 0.2                        | 100.0 | 1,500  |
| Missing   | 85.9                    | 12.1                     | 2.0                                    | 0.0                        | 100.0 | 99     |
| <b>Multiple sexual partners in past 12 months</b>   |                         |                          |  |                            |       |        |
| 0   | 94.4                    | 4.0                      | 1.1                                    | 0.5                        | 100.0 | 997    |
| 1   | 95.2                    | 3.5                      | 1.1                                    | 0.3                        | 100.0 | 6,659  |
| 2+  | 95.6                    | 3.0                      | 1.2                                    | 0.2                        | 100.0 | 1,647  |
| Don't know/missing  | 100.0                   | 0.0                      | 0.0                                    | 0.0                        | 100.0 | 1      |
| <b>Nonmarital, noncohabiting partners in past 12 months<sup>3</sup></b>   |                         |                          |  |                            |       |        |
| 0   | 94.5                    | 4.0                      | 1.2                                    | 0.3                        | 100.0 | 5,689  |
| 1   | 96.5                    | 2.4                      | 0.8                                    | 0.3                        | 100.0 | 2,940  |
| 2+  | 94.5                    | 3.6                      | 1.8                                    | 0.1                        | 100.0 | 675    |
| <b>Condom use at last sexual intercourse in past 12 months</b>  |                         |                          |  |                            |       |        |
| Used condom   | 95.2                    | 3.6                      | 1.0                                    | 0.3                        | 100.0 | 2,096  |
| Did not use condom  | 95.3                    | 3.4                      | 1.1                                    | 0.2                        | 100.0 | 6,211  |
| No sexual intercourse in past 12 months   | 94.4                    | 4.0                      | 1.1                                    | 0.5                        | 100.0 | 997    |
| <b>Condom use at last sexual intercourse with a nonmarital, noncohabiting partner in past 12 months<sup>3</sup></b> |                         |                          |  |                            |       |        |
| Used condom   | 96.0                    | 2.9                      | 0.9                                    | 0.3                        | 100.0 | 1,912  |
| Did not use condom  | 96.5                    | 2.2                      | 1.1                                    | 0.2                        | 100.0 | 1,695  |
| No sexual intercourse with any nonmarital, noncohabiting partners in past 12 months <sup>3</sup>                    | 94.5                    | 4.1                      | 1.2                                    | 0.3                        | 100.0 | 5,697  |
| <b>Paid for sexual intercourse in past 12 months</b>  |                         |                          |  |                            |       |        |
| Yes   | 95.7                    | 2.6                      | 1.4                                    | 0.3                        | 100.0 | 646    |
| Used condom   | 94.8                    | 3.5                      | 1.5                                    | 0.3                        | 100.0 | 344    |
| Did not use condom  | 96.7                    | 1.7                      | 1.3                                    | 0.3                        | 100.0 | 302    |
| No (no paid sexual intercourse/no sexual intercourse in last 12 months)   | 95.1                    | 3.5                      | 1.1                                    | 0.3                        | 100.0 | 8,658  |
| <b>Prior HIV testing</b>  |                         |                          |  |                            |       |        |
| Ever tested   | 95.2                    | 3.4                      | 1.1                                    | 0.3                        | 100.0 | 7,696  |
| Received results  | 95.2                    | 3.4                      | 1.0                                    | 0.3                        | 100.0 | 7,489  |
| Did not receive results   | 94.2                    | 3.9                      | 1.9                                    | 0.0                        | 100.0 | 207    |
| Never tested  | 95.0                    | 3.7                      | 1.2                                    | 0.2                        | 100.0 | 1,608  |
| Total 15-49   | 95.2                    | 3.5                      | 1.1                                    | 0.3                        | 100.0 | 9,304  |
| 50-59   | 95.1                    | 3.8                      | 0.8                                    | 0.3                        | 100.0 | 1,025  |
| Total 15-59   | 95.1                    | 3.5                      | 1.1                                    | 0.3                        | 100.0 | 10,329 |

<sup>1</sup> Includes all Dried Blood (DBS) specimens tested at the lab and for which there is a result, i.e., positive, negative, or inconclusive.

<sup>2</sup> Includes (1) other results of blood collection (e.g., technical problem in the field), (2) lost specimens, (3) non-corresponding bar codes, and (4) other lab results such as blood not tested for technical reason, not enough blood to complete the algorithm, etc.

<sup>3</sup> Any partner who was not a spouse and did not live with the respondent

The estimates from a sample survey are affected by two types of errors: nonsampling errors and sampling errors. Nonsampling errors are the results of mistakes made in implementing data collection and data processing, such as failure to locate and interview the correct household, misunderstanding of the questions on the part of either the interviewer or the respondent, and data entry errors. Although numerous efforts were made during the implementation of the 2018 Zambia Demographic and Health Survey (ZDHS) to minimise this type of error, nonsampling errors are impossible to avoid and difficult to evaluate statistically.

Sampling errors, on the other hand, can be evaluated statistically. The sample of respondents selected in the 2018 ZDHS is only one of many samples that could have been selected from the same population, using the same design and expected size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling errors are a measure of the variability among all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

Sampling error is usually measured in terms of the standard error for a particular statistic (mean, percentage, etc.), which is the square root of the variance. The standard error can be used to calculate confidence intervals within which the true value for the population can reasonably be assumed to fall. For example, for any given statistic calculated from a sample survey, the value of that statistic will fall within a range of plus or minus two times the standard error of that statistic in 95% of all possible samples of identical size and design.

If the sample of respondents had been selected as a simple random sample, it would have been possible to use straightforward formulas for calculating sampling errors. However, the 2018 ZDHS sample is the result of a multi-stage stratified design, and, consequently, it was necessary to use more complex formulas. Sampling errors are computed in SAS, using programs developed by ICF. These programs use the Taylor linearisation method to estimate variances for survey estimates that are means, proportions, or ratios. The Jackknife repeated replication method is used for variance estimation of more complex statistics such as fertility and mortality rates.

The Taylor linearisation method treats any percentage or average as a ratio estimate,  $r = y/x$ , where  $y$  represents the total sample value for variable  $y$  and  $x$  represents the total number of cases in the group or subgroup under consideration. The variance of  $r$  is computed using the formula given below, with the standard error being the square root of the variance:

$$SE^2(r) = var(r) = \frac{1-f}{x^2} \sum_{h=1}^H \left[ \frac{m_h}{m_h - 1} \left( \sum_{i=1}^{m_h} z_{hi}^2 - \frac{z_h^2}{m_h} \right) \right]$$

in which

$$z_{hi} = y_{hi} - rx_{hi}, \text{ and } z_h = y_h - rx_h$$

where  $h$  represents the stratum, which varies from 1 to  $H$ ;  
 $m_h$  is the total number of clusters selected in the  $h^{\text{th}}$  stratum;  
 $y_{hi}$  is the sum of the weighted values of variable  $y$  in the  $i^{\text{th}}$  cluster in the  $h^{\text{th}}$  stratum;  
 $x_{hi}$  is the sum of the weighted number of cases in the  $i^{\text{th}}$  cluster in the  $h^{\text{th}}$  stratum; and  
 $f$  is the overall sampling fraction, which is so small that it is ignored.

The Jackknife repeated replication method derives estimates of complex rates from each of several replications of the parent sample and calculates standard errors for these estimates using simple formulae. Each replication considers *all but one* cluster in the calculation of the estimates. Pseudo-independent replications are thus created. In the 2018 ZDHS, there were 545 non-empty clusters. Hence, 545 replications were created. The variance of a rate  $r$  is calculated as follows:

$$SE^2(r) = \text{var}(r) = \frac{1}{k(k-1)} \sum_{i=1}^k (r_i - r)^2$$

in which

$$r_i = kr - (k-1)r_{(i)}$$

where  $r$  is the estimate computed from the full sample of 545 clusters,  
 $r_{(i)}$  is the estimate computed from the reduced sample of 544 clusters ( $i^{\text{th}}$  cluster excluded),  
and  
 $k$  is the total number of clusters.

In addition to the standard error, the design effect (DEFT) for each estimate is also calculated. The design effect is defined as the ratio between the standard error using the given sample design and the standard error that would result if a simple random sample had been used. A DEFT value of 1.0 indicates that the sample design is as efficient as a simple random sample, while a value greater than 1.0 indicates the increase in the sampling error due to the use of a more complex and less statistically efficient design. Relative standard errors and confidence limits for the estimates are also calculated.

Sampling errors for the 2018 ZDHS are calculated for selected variables considered to be of primary interest. The results are presented in this appendix for the country as a whole, for urban and rural areas, and for each of the 10 provinces. For each variable, the type of statistic (mean, proportion, or rate) and the base population are given in **Table B.1**. **Tables B.2** through **B.14** present the value of the statistic (R), its standard error (SE), the number of unweighted (N) and weighted (WN) cases, the design effect (DEFT), the relative standard error (SE/R), and the 95% confidence limits ( $R \pm 2SE$ ) for each selected variable. The DEFT is considered undefined when the standard error considering a simple random sample is zero (when the estimate is close to 0 or 1).

The confidence interval (e.g., as calculated for *ideal number of children*) can be interpreted as follows: the overall average from the national sample is 4.567, and its standard error is 0.032. Therefore, to obtain the 95% confidence limits, one adds and subtracts twice the standard error to the sample estimate, that is,  $4.567 \pm 2 \times 0.032$ . There is a high probability (95%) that the true ideal number of children is between 4.503 and 4.631.

For the total sample, the value of the DEFT, averaged over all indicators in the appendix, is about 1.5. This means that, due to multi-stage clustering of the sample, the average standard error is increased by a factor of 1.5 over that in an equivalent simple random sample.

**Table B.1 List of selected variables for sampling errors, Zambia DHS 2018**

| Variable  | Estimate   | Base population  |
|---|------------|--|
| HOUSEHOLDS AND POPULATION   |            |  |
| Ownership of at least one ITN   | Proportion | Households   |
| Access to an ITN  | Proportion | De facto household population  |
| Use of an ITN   | Proportion | De facto household population  |
| WOMEN   |            |  |
| Urban residence   | Proportion | Women 15-49  |
| Literacy  | Proportion | Women 15-49  |
| No education  | Proportion | Women 15-49  |
| Secondary education or higher   | Proportion | Women 15-49  |
| Never married/never in union  | Proportion | Women 15-49  |
| Currently married/in union  | Proportion | Women 15-49  |
| Married before age 18   | Proportion | Women 20-49  |
| Had sexual intercourse before age 18  | Proportion | Women 20-49  |
| Currently pregnant  | Proportion | Women 15-49  |
| Know any contraceptive method   | Proportion | Currently married women 15-49  |
| Know a modern method  | Proportion | Currently married women 15-49  |
| Currently using any method  | Proportion | Currently married women 15-49  |
| Currently using a modern method   | Proportion | Currently married women 15-49  |
| Currently using IUD   | Proportion | Currently married women 15-49  |
| Currently using pill  | Proportion | Currently married women 15-49  |
| Currently using male condoms  | Proportion | Currently married women 15-49  |
| Currently using injectables   | Proportion | Currently married women 15-49  |
| Currently using implants  | Proportion | Currently married women 15-49  |
| Currently using female sterilisation  | Proportion | Currently married women 15-49  |
| Currently using withdrawal  | Proportion | Currently married women 15-49  |
| Currently using rhythm  | Proportion | Currently married women 15-49  |
| Used public sector source   | Proportion | Current users of modern method   |
| Want no more children   | Proportion | Currently married women 15-49  |
| Want to delay next birth at least 2 years   | Proportion | Currently married women 15-49  |
| Ideal number of children  | Mean       | Women 15-49  |
| Mothers protected against tetanus for last birth  | Proportion | Women with a live birth in last 5 years                                  |
| Mothers received antenatal care for last birth  | Proportion | Women with a live birth in last 5 years                                  |
| Births with skilled attendant at delivery   | Proportion | Births occurring 1-59 months before survey                               |
| Received 3+ doses of SP/Fansidar  | Proportion | Last birth of women 15-49 with live births in the last 2 years           |
| Treated with ORS  | Proportion | Children under 5 with diarrhoea in past 2 weeks                          |
| Sought treatment  | Proportion | Children under 5 with diarrhoea in past 2 weeks                          |
| Ever had vaccination card   | Proportion | Children 12-23 months  |
| Received BCG vaccination  | Proportion | Children 12-23 months  |
| Received DPT-HepB-Hib vaccination (3 doses)   | Proportion | Children 12-23 months  |
| Received birth dose polio 0 vaccination   | Proportion | Children 12-23 months  |
| Received polio vaccination (3 doses)  | Proportion | Children 12-23 months  |
| Received pneumococcal vaccination (3 doses)   | Proportion | Children 12-23 months  |
| Received rotavirus vaccination (2 doses)  | Proportion | Children 12-23 months  |
| Received measles/rubella vaccination  | Proportion | Children 12-23 months  |
| Received all basic vaccinations   | Proportion | Children 12-23 months  |
| Received all age-appropriate vaccinations (12-23 months)  | Proportion | Children 12-23 months  |
| Received measles/rubella vaccination  | Proportion | Children 24-35 months  |
| Received all age-appropriate vaccinations (24-35 months)  | Proportion | Children 24-35 months  |
| Height-for-age (-2 SD)  | Proportion | Children under 5 who are measured  |
| Weight-for-height (-2 SD)   | Proportion | Children under 5 who are measured  |
| Weight-for-age (-2 SD)  | Proportion | Children under 5 who are measured  |
| Prevalence of anaemia (children 6-59 months)  | Proportion | Children 6-59 months who were tested                                     |
| Prevalence of anaemia (women 15-49)   | Proportion | Women 15-49 who were tested  |
| Ever experienced any physical violence since age 15   | Proportion | Women 15-49  |
| Ever experienced any sexual violence  | Proportion | Women 15-49  |
| Ever experienced any physical/sexual violence by husband/partner                                | Proportion | Women 15-49  |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | Proportion | Women 15-49  |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | Proportion | Women 15-49  |
| Had 2+ sexual partners in past 12 months  | Proportion | Women 15-49  |
| Condom use at last sex  | Proportion | Women 15-49 with nonmarital, noncohabiting partner in past 12 months     |
| Abstinence among young people (never had sex)   | Proportion | Never-married women 15-24  |
| Had an HIV test and received results in past 12 months  | Proportion | Women 15-49  |
| Discriminatory attitudes towards people with HIV  | Proportion | Women who have heard of HIV/AIDS   |
| Total fertility rate (3 years)  | Rate       | Woman-years of exposure to childbearing                                  |
| Neonatal mortality rate <sup>1</sup>  | Rate       | Children exposed to the risk of mortality                                |
| Postneonatal mortality rate <sup>1</sup>  | Rate       | Children exposed to the risk of mortality                                |
| Infant mortality rate <sup>1</sup>  | Rate       | Children exposed to the risk of mortality                                |
| Child mortality rate <sup>1</sup>   | Rate       | Children exposed to the risk of mortality                                |
| Under-5 mortality rate <sup>1</sup>   | Rate       | Children exposed to the risk of mortality                                |
| HIV prevalence among women 15-49  | Proportion | Interviewed women with Dried Blood Spot (DBS) specimen tested at the lab |
| HIV prevalence among pregnant women 15-49   | Proportion | Interviewed pregnant women 15-49 with DBS tested at the lab              |
| HIV prevalence among young women 15-24  | Proportion | Interviewed women 15-24 with DBS tested at the lab                       |

*Continued...*

**Table B.1—Continued**

| Variable   | Estimate   | Base population  |
|--|------------|--|
| MEN  |            |  |
| Urban residence  | Proportion | Men 15-49  |
| Literacy   | Proportion | Men 15-49  |
| No education   | Proportion | Men 15-49  |
| Secondary education or higher                          | Proportion | Men 15-49  |
| Never married/never in union                           | Proportion | Men 15-49  |
| Currently married/in union                             | Proportion | Men 15-49  |
| Had sexual intercourse before age 18                   | Proportion | Men 20-49  |
| Know any contraceptive method                          | Proportion | Currently married men 15-49  |
| Know a modern method                                   | Proportion | Currently married men 15-49  |
| Want no more children                                  | Proportion | Currently married men 15-49  |
| Want to delay next birth at least 2 years              | Proportion | Currently married men 15-49  |
| Ideal number of children                               | Mean       | Men 15-49  |
| Had 2+ sexual partners in past 12 months               | Proportion | Men 15-49  |
| Condom use at last sex                                 | Proportion | Men 15-49 with nonmarital, noncohabiting partners in past 12 months    |
| Abstinence among young people (never had sex)          | Proportion | Never-married men 15-24  |
| Paid for sexual intercourse in past 12 months          | Proportion | Men 15-49  |
| Had an HIV test and received results in past 12 months | Proportion | Men 15-49  |
| Discriminatory attitudes towards people with HIV       | Proportion | Men who have heard of HIV/AIDS   |
| HIV prevalence among men 15-49                         | Proportion | Interviewed men with Dried Blood Spot (DBS) specimen tested at the lab |
| HIV prevalence among young men 15-24                   | Proportion | Interviewed men 15-24 with DBS tested at the lab                       |
| HIV prevalence among men 15-59                         | Proportion | Interviewed men 15-59 with DBS tested at the lab                       |
| WOMEN AND MEN  |            |  |
| HIV prevalence among respondents 15-49                 | Proportion | Interviewed women and men 15-49 with DBS tested at the lab             |
| HIV prevalence among respondents 15-24                 | Proportion | Interviewed women and men 15-24 with DBS tested at the lab             |

<sup>1</sup> The mortality rates are calculated for 5 years before the survey for the national, urban, and rural samples and for the 10 years before the survey for provincial samples.

**Table B.2 Sampling errors: Total sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.783        | 0.006                     | 12,831            | 12,831           | 1.672                      | 0.008                                   | 0.771             | 0.795            |
| De facto population with access to an ITN   | 0.599        | 0.007                     | 62,342            | 62,191           | 1.944                      | 0.012                                   | 0.585             | 0.613            |
| Household population that slept under an ITN last night   | 0.464        | 0.008                     | 62,342            | 62,191           | 1.989                      | 0.017                                   | 0.448             | 0.480            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.466        | 0.014                     | 13,683            | 13,683           | 3.311                      | 0.030                                   | 0.438             | 0.494            |
| Literacy  | 0.664        | 0.009                     | 13,683            | 13,683           | 2.113                      | 0.013                                   | 0.647             | 0.681            |
| No education  | 0.077        | 0.005                     | 13,683            | 13,683           | 1.976                      | 0.058                                   | 0.068             | 0.086            |
| Secondary or higher education   | 0.480        | 0.011                     | 13,683            | 13,683           | 2.466                      | 0.022                                   | 0.459             | 0.501            |
| Never married (never in union)  | 0.312        | 0.007                     | 13,683            | 13,683           | 1.853                      | 0.024                                   | 0.298             | 0.327            |
| Currently married (in union)  | 0.559        | 0.008                     | 13,683            | 13,683           | 1.783                      | 0.014                                   | 0.544             | 0.574            |
| Married before age 18   | 0.366        | 0.008                     | 10,571            | 10,683           | 1.704                      | 0.022                                   | 0.351             | 0.382            |
| Had sexual intercourse before age 18  | 0.671        | 0.009                     | 10,571            | 10,683           | 1.960                      | 0.013                                   | 0.653             | 0.688            |
| Currently pregnant  | 0.083        | 0.004                     | 13,683            | 13,683           | 1.565                      | 0.044                                   | 0.076             | 0.091            |
| Know any contraceptive method   | 0.997        | 0.001                     | 7,597             | 7,648            | 1.228                      | 0.001                                   | 0.996             | 0.999            |
| Know a modern method  | 0.997        | 0.001                     | 7,597             | 7,648            | 1.257                      | 0.001                                   | 0.995             | 0.998            |
| Currently using any method  | 0.496        | 0.008                     | 7,597             | 7,648            | 1.350                      | 0.016                                   | 0.481             | 0.512            |
| Currently using a modern method   | 0.475        | 0.008                     | 7,597             | 7,648            | 1.336                      | 0.016                                   | 0.460             | 0.490            |
| Currently using IUD   | 0.007        | 0.001                     | 7,597             | 7,648            | 1.281                      | 0.173                                   | 0.005             | 0.010            |
| Currently using pill  | 0.076        | 0.004                     | 7,597             | 7,648            | 1.205                      | 0.048                                   | 0.069             | 0.084            |
| Currently using male condoms  | 0.030        | 0.002                     | 7,597             | 7,648            | 1.249                      | 0.081                                   | 0.025             | 0.035            |
| Currently using injectables   | 0.256        | 0.007                     | 7,597             | 7,648            | 1.304                      | 0.026                                   | 0.243             | 0.269            |
| Currently using implants  | 0.079        | 0.005                     | 7,597             | 7,648            | 1.498                      | 0.059                                   | 0.070             | 0.088            |
| Currently using female sterilisation  | 0.015        | 0.002                     | 7,597             | 7,648            | 1.403                      | 0.129                                   | 0.011             | 0.019            |
| Currently using withdrawal  | 0.017        | 0.002                     | 7,597             | 7,648            | 1.198                      | 0.104                                   | 0.014             | 0.021            |
| Currently using rhythm  | 0.003        | 0.001                     | 7,597             | 7,648            | 1.240                      | 0.263                                   | 0.001             | 0.004            |
| Using public sector source  | 0.888        | 0.008                     | 4,567             | 4,604            | 1.616                      | 0.008                                   | 0.873             | 0.903            |
| Want no more children   | 0.375        | 0.007                     | 7,597             | 7,648            | 1.181                      | 0.018                                   | 0.362             | 0.388            |
| Want to delay next birth at least 2 years   | 0.353        | 0.008                     | 7,597             | 7,648            | 1.510                      | 0.023                                   | 0.336             | 0.370            |
| Ideal number of children  | 4.567        | 0.032                     | 13,340            | 13,370           | 1.882                      | 0.007                                   | 4.503             | 4.631            |
| Mothers protected against tetanus for last birth  | 0.786        | 0.007                     | 7,372             | 7,325            | 1.432                      | 0.009                                   | 0.772             | 0.800            |
| Mothers received antenatal care for last birth  | 0.969        | 0.004                     | 7,372             | 7,325            | 1.880                      | 0.004                                   | 0.961             | 0.977            |
| Births with skilled attendant at delivery   | 0.804        | 0.009                     | 9,959             | 9,841            | 2.051                      | 0.012                                   | 0.785             | 0.823            |
| Received 3+ doses of SP/Fansidar  | 0.587        | 0.011                     | 3,958             | 3,905            | 1.350                      | 0.018                                   | 0.566             | 0.609            |
| Treated with ORS  | 0.668        | 0.017                     | 1,432             | 1,422            | 1.349                      | 0.026                                   | 0.633             | 0.702            |
| Sought medical treatment for diarrhoea  | 0.693        | 0.021                     | 1,432             | 1,422            | 1.673                      | 0.030                                   | 0.652             | 0.734            |
| Ever had vaccination card   | 0.974        | 0.004                     | 1,928             | 1,891            | 1.231                      | 0.005                                   | 0.965             | 0.983            |
| Received BCG vaccination  | 0.975        | 0.004                     | 1,928             | 1,891            | 1.183                      | 0.004                                   | 0.966             | 0.983            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.921        | 0.009                     | 1,928             | 1,891            | 1.379                      | 0.009                                   | 0.904             | 0.938            |
| Received birth dose polio 0 vaccination   | 0.664        | 0.015                     | 1,928             | 1,891            | 1.387                      | 0.023                                   | 0.634             | 0.695            |
| Received polio vaccination (3 doses)  | 0.812        | 0.012                     | 1,928             | 1,891            | 1.288                      | 0.014                                   | 0.789             | 0.836            |
| Received pneumococcal vaccination (3 doses)   | 0.898        | 0.010                     | 1,928             | 1,891            | 1.415                      | 0.011                                   | 0.878             | 0.918            |
| Received rotavirus vaccination (2 doses)  | 0.906        | 0.009                     | 1,928             | 1,891            | 1.329                      | 0.010                                   | 0.888             | 0.924            |
| Received measles and rubella vaccination  | 0.909        | 0.008                     | 1,928             | 1,891            | 1.253                      | 0.009                                   | 0.893             | 0.926            |
| Received all basic vaccinations (12-23 months)  | 0.750        | 0.012                     | 1,928             | 1,891            | 1.188                      | 0.016                                   | 0.726             | 0.774            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.460        | 0.017                     | 1,928             | 1,891            | 1.476                      | 0.037                                   | 0.426             | 0.494            |
| Received measles 2 vaccination  | 0.638        | 0.019                     | 1,885             | 1,862            | 1.715                      | 0.030                                   | 0.599             | 0.677            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.331        | 0.015                     | 1,885             | 1,862            | 1.347                      | 0.045                                   | 0.301             | 0.361            |
| Height-for-age (-2 SD)  | 0.346        | 0.006                     | 9,593             | 9,609            | 1.214                      | 0.018                                   | 0.333             | 0.358            |
| Weight-for-height (-2 SD)   | 0.042        | 0.003                     | 9,586             | 9,593            | 1.410                      | 0.071                                   | 0.036             | 0.048            |
| Weight-for-age (-2 SD)  | 0.118        | 0.005                     | 9,680             | 9,689            | 1.314                      | 0.038                                   | 0.109             | 0.127            |
| Prevalence of anaemia (children 6-59 months)  | 0.581        | 0.008                     | 8,607             | 8,623            | 1.392                      | 0.013                                   | 0.566             | 0.596            |
| Prevalence of anaemia (women 15-49)   | 0.311        | 0.007                     | 13,226            | 13,235           | 1.783                      | 0.023                                   | 0.296             | 0.325            |
| Ever experienced any physical violence since age 15   | 0.359        | 0.008                     | 9,503             | 9,503            | 1.697                      | 0.023                                   | 0.342             | 0.375            |
| Ever experienced any sexual violence  | 0.137        | 0.007                     | 9,503             | 9,503            | 1.881                      | 0.048                                   | 0.124             | 0.150            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.402        | 0.010                     | 7,358             | 6,598            | 1.728                      | 0.025                                   | 0.383             | 0.422            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.485        | 0.010                     | 7,358             | 6,598            | 1.793                      | 0.022                                   | 0.465             | 0.506            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.323        | 0.010                     | 7,358             | 6,598            | 1.773                      | 0.030                                   | 0.304             | 0.343            |
| Had 2+ sexual partners in past 12 months  | 0.015        | 0.001                     | 13,683            | 13,683           | 1.225                      | 0.085                                   | 0.012             | 0.018            |
| Condom use at last sex  | 0.382        | 0.040                     | 205               | 206              | 1.188                      | 0.106                                   | 0.301             | 0.463            |
| Abstinance among never-married youth (never had sex)  | 0.478        | 0.011                     | 3,681             | 3,617            | 1.284                      | 0.022                                   | 0.457             | 0.499            |
| Had an HIV test and received results in past 12 months  | 0.641        | 0.008                     | 13,683            | 13,683           | 1.853                      | 0.012                                   | 0.625             | 0.656            |
| Discriminatory attitudes towards people living with HIV   | 0.268        | 0.007                     | 13,370            | 13,394           | 1.805                      | 0.026                                   | 0.255             | 0.282            |
| Total fertility rate (last 3 years)   | 4.685        | 0.104                     | 38,080            | 38,250           | 1.638                      | 0.022                                   | 4.477             | 4.893            |
| Neonatal mortality (last 0-4 years)   | 27.441       | 2.178                     | 9,936             | 9,814            | 1.220                      | 0.079                                   | 23.084            | 31.798           |
| Postneonatal mortality (last 0-4 years)   | 14.459       | 1.395                     | 9,956             | 9,836            | 1.148                      | 0.096                                   | 11.669            | 17.249           |
| Infant mortality (last 0-4 years)   | 41.900       | 2.563                     | 9,946             | 9,828            | 1.192                      | 0.061                                   | 36.775            | 47.025           |
| Child mortality (last 0-4 years)  | 19.416       | 2.119                     | 9,804             | 9,730            | 1.261                      | 0.109                                   | 15.178            | 23.654           |
| Under-5 mortality (last 0-4 years)  | 60.503       | 3.376                     | 10,020            | 9,899            | 1.218                      | 0.056                                   | 53.751            | 67.255           |
| HIV prevalence among women 15-49  | 0.142        | 0.006                     | 13,155            | 12,817           | 1.827                      | 0.039                                   | 0.131             | 0.153            |
| HIV prevalence among pregnant women 15-49   | 0.103        | 0.013                     | 1,073             | 1,056            | 1.409                      | 0.127                                   | 0.077             | 0.129            |
| HIV prevalence among young women 15-24  | 0.056        | 0.006                     | 5,593             | 5,393            | 1.876                      | 0.103                                   | 0.044             | 0.067            |

*Continued...*

**Table B.2—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.448        | 0.016                     | 11,104            | 11,177           | 3.302                      | 0.035                                   | 0.417             | 0.480            |
| Literacy  | 0.818        | 0.006                     | 11,104            | 11,177           | 1.615                      | 0.007                                   | 0.806             | 0.830            |
| No education  | 0.040        | 0.003                     | 11,104            | 11,177           | 1.749                      | 0.081                                   | 0.033             | 0.046            |
| Secondary or higher education                           | 0.584        | 0.009                     | 11,104            | 11,177           | 2.026                      | 0.016                                   | 0.565             | 0.603            |
| Never married (in union)                                | 0.460        | 0.006                     | 11,104            | 11,177           | 1.358                      | 0.014                                   | 0.447             | 0.473            |
| Currently married (in union)                            | 0.499        | 0.006                     | 11,104            | 11,177           | 1.340                      | 0.013                                   | 0.486             | 0.511            |
| Had first sexual intercourse before age 18              | 0.440        | 0.009                     | 8,252             | 8,396            | 1.685                      | 0.021                                   | 0.422             | 0.459            |
| Knows any contraceptive method                          | 0.999        | 0.000                     | 5,534             | 5,572            | 0.939                      | 0.000                                   | 0.998             | 1.000            |
| Knows any modern contraceptive method                   | 0.999        | 0.000                     | 5,534             | 5,572            | 0.939                      | 0.000                                   | 0.998             | 1.000            |
| Want no more children                                   | 0.271        | 0.009                     | 5,534             | 5,572            | 1.441                      | 0.032                                   | 0.254             | 0.288            |
| Want to delay birth at least 2 years                    | 0.467        | 0.009                     | 5,534             | 5,572            | 1.291                      | 0.019                                   | 0.450             | 0.484            |
| Ideal number of children                                | 4.916        | 0.047                     | 10,961            | 11,002           | 1.881                      | 0.010                                   | 4.822             | 5.010            |
| Had 2+ sexual partners in past 12 months                | 0.153        | 0.005                     | 11,104            | 11,177           | 1.547                      | 0.034                                   | 0.143             | 0.164            |
| Condom use at last sex                                  | 0.278        | 0.013                     | 1,648             | 1,716            | 1.151                      | 0.046                                   | 0.252             | 0.303            |
| Abstinence among never-married youth (never had sex)    | 0.413        | 0.011                     | 4,296             | 4,289            | 1.400                      | 0.025                                   | 0.392             | 0.434            |
| Had paid sex in past 12 months                          | 0.059        | 0.003                     | 11,104            | 11,177           | 1.478                      | 0.056                                   | 0.053             | 0.066            |
| Had HIV test and received results in past 12 months     | 0.524        | 0.008                     | 11,104            | 11,177           | 1.667                      | 0.015                                   | 0.508             | 0.540            |
| Discriminatory attitudes towards people living with HIV | 0.233        | 0.007                     | 10,991            | 11,069           | 1.669                      | 0.029                                   | 0.219             | 0.246            |
| HIV prevalence among men 15-49                          | 0.075        | 0.003                     | 10,569            | 10,950           | 1.355                      | 0.046                                   | 0.068             | 0.082            |
| HIV prevalence among young men 15-24                    | 0.018        | 0.002                     | 4,651             | 4,762            | 1.284                      | 0.140                                   | 0.013             | 0.023            |
| HIV prevalence among men 15-59                          | 0.083        | 0.004                     | 11,547            | 11,885           | 1.427                      | 0.044                                   | 0.076             | 0.091            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.111        | 0.004                     | 23,724            | 23,767           | 1.936                      | 0.036                                   | 0.103             | 0.119            |
| HIV prevalence among respondents 15-24                  | 0.038        | 0.003                     | 10,244            | 10,154           | 1.723                      | 0.086                                   | 0.032             | 0.045            |

**Table B.3 Sampling errors: Urban sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.731        | 0.010                     | 4,714             | 5,441            | 1.591                      | 0.014                                   | 0.710             | 0.751            |
| De facto population with access to an ITN   | 0.586        | 0.011                     | 21,676            | 24,789           | 1.715                      | 0.019                                   | 0.564             | 0.608            |
| Household population that slept under an ITN last night   | 0.420        | 0.012                     | 21,676            | 24,789           | 1.825                      | 0.029                                   | 0.395             | 0.445            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 1.000        | 0.000                     | 5,513             | 6,374            | na                         | 0.000                                   | 1.000             | 1.000            |
| Literacy  | 0.805        | 0.012                     | 5,513             | 6,374            | 2.261                      | 0.015                                   | 0.781             | 0.829            |
| No education  | 0.033        | 0.004                     | 5,513             | 6,374            | 1.629                      | 0.118                                   | 0.025             | 0.041            |
| Secondary or higher education   | 0.688        | 0.016                     | 5,513             | 6,374            | 2.561                      | 0.023                                   | 0.656             | 0.720            |
| Never married (never in union)  | 0.381        | 0.014                     | 5,513             | 6,374            | 2.104                      | 0.036                                   | 0.353             | 0.409            |
| Currently married (in union)  | 0.483        | 0.014                     | 5,513             | 6,374            | 2.112                      | 0.029                                   | 0.455             | 0.512            |
| Married before age 18   | 0.274        | 0.014                     | 4,296             | 5,051            | 2.039                      | 0.051                                   | 0.246             | 0.302            |
| Had sexual intercourse before age 18  | 0.571        | 0.016                     | 4,296             | 5,051            | 2.151                      | 0.028                                   | 0.538             | 0.603            |
| Currently pregnant  | 0.064        | 0.007                     | 5,513             | 6,374            | 2.113                      | 0.108                                   | 0.050             | 0.078            |
| Know any contraceptive method   | 1.000        | 0.000                     | 2,595             | 3,080            | 0.739                      | 0.000                                   | 0.999             | 1.000            |
| Know a modern method  | 1.000        | 0.000                     | 2,595             | 3,080            | 0.739                      | 0.000                                   | 0.999             | 1.000            |
| Currently using any method  | 0.543        | 0.013                     | 2,595             | 3,080            | 1.363                      | 0.025                                   | 0.516             | 0.570            |
| Currently using a modern method   | 0.526        | 0.013                     | 2,595             | 3,080            | 1.283                      | 0.024                                   | 0.501             | 0.551            |
| Currently using IUD   | 0.012        | 0.003                     | 2,595             | 3,080            | 1.185                      | 0.209                                   | 0.007             | 0.017            |
| Currently using pill  | 0.107        | 0.007                     | 2,595             | 3,080            | 1.227                      | 0.070                                   | 0.092             | 0.121            |
| Currently using male condoms  | 0.046        | 0.005                     | 2,595             | 3,080            | 1.309                      | 0.117                                   | 0.035             | 0.057            |
| Currently using injectables   | 0.244        | 0.010                     | 2,595             | 3,080            | 1.238                      | 0.043                                   | 0.223             | 0.265            |
| Currently using implants  | 0.095        | 0.008                     | 2,595             | 3,080            | 1.418                      | 0.086                                   | 0.078             | 0.111            |
| Currently using female sterilisation  | 0.012        | 0.003                     | 2,595             | 3,080            | 1.271                      | 0.226                                   | 0.007             | 0.017            |
| Currently using withdrawal  | 0.012        | 0.002                     | 2,595             | 3,080            | 1.118                      | 0.195                                   | 0.008             | 0.017            |
| Currently using rhythm  | 0.004        | 0.001                     | 2,595             | 3,080            | 1.151                      | 0.370                                   | 0.001             | 0.006            |
| Using public sector source  | 0.839        | 0.014                     | 1,862             | 2,162            | 1.588                      | 0.016                                   | 0.812             | 0.866            |
| Want no more children   | 0.399        | 0.011                     | 2,595             | 3,080            | 1.140                      | 0.027                                   | 0.377             | 0.421            |
| Want to delay next birth at least 2 years   | 0.313        | 0.015                     | 2,595             | 3,080            | 1.634                      | 0.048                                   | 0.284             | 0.343            |
| Ideal number of children  | 4.050        | 0.038                     | 5,451             | 6,306            | 1.692                      | 0.009                                   | 3.973             | 4.126            |
| Mothers protected against tetanus for last birth  | 0.844        | 0.010                     | 2,411             | 2,811            | 1.383                      | 0.012                                   | 0.823             | 0.864            |
| Mothers received antenatal care for last birth  | 0.992        | 0.003                     | 2,411             | 2,811            | 1.462                      | 0.003                                   | 0.987             | 0.997            |
| Births with skilled attendant at delivery   | 0.931        | 0.008                     | 2,987             | 3,489            | 1.605                      | 0.009                                   | 0.914             | 0.948            |
| Received 3+ doses of SP/Fansidar  | 0.646        | 0.019                     | 1,179             | 1,340            | 1.324                      | 0.029                                   | 0.608             | 0.683            |
| Treated with ORS  | 0.698        | 0.030                     | 413               | 493              | 1.328                      | 0.044                                   | 0.637             | 0.759            |
| Sought medical treatment for diarrhoea  | 0.609        | 0.043                     | 413               | 493              | 1.792                      | 0.071                                   | 0.523             | 0.695            |
| Ever had vaccination card   | 0.986        | 0.005                     | 590               | 666              | 1.061                      | 0.005                                   | 0.976             | 0.997            |
| Received BCG vaccination  | 0.996        | 0.002                     | 590               | 666              | 0.728                      | 0.002                                   | 0.992             | 1.000            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.947        | 0.011                     | 590               | 666              | 1.206                      | 0.012                                   | 0.924             | 0.970            |
| Received birth dose polio 0 vaccination   | 0.855        | 0.029                     | 590               | 666              | 1.954                      | 0.034                                   | 0.797             | 0.913            |
| Received polio vaccination (3 doses)  | 0.824        | 0.020                     | 590               | 666              | 1.229                      | 0.024                                   | 0.785             | 0.864            |
| Received pneumococcal vaccination (3 doses)   | 0.915        | 0.016                     | 590               | 666              | 1.407                      | 0.018                                   | 0.882             | 0.948            |
| Received rotavirus vaccination (2 doses)  | 0.927        | 0.013                     | 590               | 666              | 1.121                      | 0.014                                   | 0.902             | 0.953            |
| Received measles and rubella vaccination  | 0.918        | 0.013                     | 590               | 666              | 1.121                      | 0.014                                   | 0.892             | 0.943            |
| Received all basic vaccinations (12-23 months)  | 0.770        | 0.019                     | 590               | 666              | 1.045                      | 0.024                                   | 0.733             | 0.807            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.601        | 0.037                     | 590               | 666              | 1.793                      | 0.062                                   | 0.526             | 0.675            |
| Received measles 2 vaccination  | 0.641        | 0.042                     | 572               | 658              | 2.045                      | 0.065                                   | 0.558             | 0.725            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.434        | 0.033                     | 572               | 658              | 1.541                      | 0.076                                   | 0.368             | 0.499            |
| Height-for-age (-2 SD)  | 0.321        | 0.011                     | 2,849             | 3,320            | 1.211                      | 0.035                                   | 0.299             | 0.344            |
| Weight-for-height (-2 SD)   | 0.050        | 0.006                     | 2,843             | 3,307            | 1.498                      | 0.124                                   | 0.037             | 0.062            |
| Weight-for-age (-2 SD)  | 0.108        | 0.009                     | 2,871             | 3,341            | 1.522                      | 0.084                                   | 0.089             | 0.126            |
| Prevalence of anaemia (children 6-59 months)  | 0.581        | 0.014                     | 2,557             | 2,982            | 1.402                      | 0.024                                   | 0.553             | 0.609            |
| Prevalence of anaemia (women 15-49)   | 0.321        | 0.013                     | 5,293             | 6,131            | 1.979                      | 0.040                                   | 0.296             | 0.346            |
| Ever experienced any physical violence since age 15   | 0.342        | 0.013                     | 3,477             | 4,383            | 1.617                      | 0.038                                   | 0.316             | 0.368            |
| Ever experienced any sexual violence  | 0.127        | 0.011                     | 3,477             | 4,383            | 2.000                      | 0.089                                   | 0.105             | 0.150            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.390        | 0.016                     | 2,459             | 2,740            | 1.657                      | 0.042                                   | 0.358             | 0.423            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.473        | 0.018                     | 2,459             | 2,740            | 1.754                      | 0.037                                   | 0.438             | 0.509            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.323        | 0.018                     | 2,459             | 2,740            | 1.901                      | 0.056                                   | 0.287             | 0.359            |
| Had 2+ sexual partners in past 12 months  | 0.019        | 0.002                     | 5,513             | 6,374            | 1.251                      | 0.123                                   | 0.014             | 0.023            |
| Condom use at last sex  | 0.464        | 0.056                     | 111               | 118              | 1.177                      | 0.121                                   | 0.352             | 0.576            |
| Abstinence among never-married youth (never had sex)  | 0.506        | 0.015                     | 1,758             | 1,954            | 1.229                      | 0.029                                   | 0.477             | 0.535            |
| Had an HIV test and received results in past 12 months  | 0.670        | 0.011                     | 5,513             | 6,374            | 1.782                      | 0.017                                   | 0.647             | 0.692            |
| Discriminatory attitudes towards people living with HIV   | 0.195        | 0.011                     | 5,458             | 6,338            | 1.981                      | 0.055                                   | 0.174             | 0.216            |
| Total fertility rate (last 3 years)   | 3.410        | 0.091                     | 15,436            | 17,980           | 1.493                      | 0.027                                   | 3.229             | 3.592            |
| Neonatal mortality (last 0-4 years)   | 29.858       | 4.411                     | 2,983             | 3,486            | 1.281                      | 0.148                                   | 21.036            | 38.680           |
| Postneonatal mortality (last 0-4 years)   | 13.683       | 2.425                     | 2,991             | 3,500            | 1.123                      | 0.177                                   | 8.834             | 18.532           |
| Infant mortality (last 0-4 years)   | 43.541       | 5.024                     | 2,985             | 3,489            | 1.253                      | 0.115                                   | 33.493            | 53.589           |
| Child mortality (last 0-4 years)  | 21.896       | 4.839                     | 2,993             | 3,539            | 1.452                      | 0.221                                   | 12.218            | 31.574           |
| Under-5 mortality (last 0-4 years)  | 64.483       | 6.999                     | 3,010             | 3,517            | 1.271                      | 0.109                                   | 50.485            | 78.482           |
| HIV prevalence among women 15-49  | 0.203        | 0.009                     | 5,242             | 5,971            | 1.644                      | 0.045                                   | 0.185             | 0.221            |
| HIV prevalence among pregnant women 15-49   | 0.173        | 0.033                     | 302               | 372              | 1.499                      | 0.189                                   | 0.108             | 0.239            |
| HIV prevalence among young women 15-24  | 0.075        | 0.011                     | 2,235             | 2,489            | 1.934                      | 0.144                                   | 0.053             | 0.096            |

*Continued...*

**Table B.3—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 1.000        | 0.000                     | 4,191             | 5,013            | na                         | 0.000                                   | 1.000             | 1.000            |
| Literacy  | 0.910        | 0.007                     | 4,191             | 5,013            | 1.592                      | 0.008                                   | 0.896             | 0.924            |
| No education  | 0.015        | 0.003                     | 4,191             | 5,013            | 1.415                      | 0.177                                   | 0.010             | 0.020            |
| Secondary or higher education                           | 0.774        | 0.012                     | 4,191             | 5,013            | 1.795                      | 0.015                                   | 0.750             | 0.797            |
| Never married (in union)                                | 0.511        | 0.011                     | 4,191             | 5,013            | 1.399                      | 0.021                                   | 0.490             | 0.533            |
| Currently married (in union)                            | 0.433        | 0.011                     | 4,191             | 5,013            | 1.372                      | 0.024                                   | 0.412             | 0.454            |
| Had first sexual intercourse before age 18              | 0.349        | 0.013                     | 3,171             | 3,858            | 1.524                      | 0.037                                   | 0.323             | 0.375            |
| Knows any contraceptive method                          | 1.000        | 0.000                     | 1,780             | 2,170            | 0.600                      | 0.000                                   | 0.999             | 1.000            |
| Knows any modern contraceptive method                   | 1.000        | 0.000                     | 1,780             | 2,170            | 0.600                      | 0.000                                   | 0.999             | 1.000            |
| Want no more children                                   | 0.270        | 0.017                     | 1,780             | 2,170            | 1.631                      | 0.064                                   | 0.236             | 0.304            |
| Want to delay birth at least 2 years                    | 0.454        | 0.015                     | 1,780             | 2,170            | 1.265                      | 0.033                                   | 0.424             | 0.484            |
| Ideal number of children                                | 4.235        | 0.049                     | 4,165             | 4,961            | 1.713                      | 0.012                                   | 4.136             | 4.334            |
| Had 2+ sexual partners in past 12 months                | 0.118        | 0.007                     | 4,191             | 5,013            | 1.313                      | 0.056                                   | 0.105             | 0.131            |
| Condom use at last sex                                  | 0.360        | 0.026                     | 524               | 591              | 1.237                      | 0.072                                   | 0.308             | 0.412            |
| Abstinence among never-married youth (never had sex)    | 0.474        | 0.017                     | 1,709             | 2,006            | 1.395                      | 0.036                                   | 0.440             | 0.507            |
| Had paid sex in past 12 months                          | 0.051        | 0.005                     | 4,191             | 5,013            | 1.480                      | 0.098                                   | 0.041             | 0.061            |
| Had HIV test and received results in past 12 months     | 0.558        | 0.014                     | 4,191             | 5,013            | 1.794                      | 0.025                                   | 0.530             | 0.586            |
| Discriminatory attitudes towards people living with HIV | 0.174        | 0.009                     | 4,161             | 4,972            | 1.512                      | 0.051                                   | 0.156             | 0.192            |
| HIV prevalence among men 15-49                          | 0.106        | 0.006                     | 3,903             | 4,915            | 1.247                      | 0.058                                   | 0.093             | 0.118            |
| HIV prevalence among young men 15-24                    | 0.027        | 0.005                     | 1,724             | 2,126            | 1.318                      | 0.190                                   | 0.017             | 0.038            |
| HIV prevalence among men 15-59                          | 0.115        | 0.006                     | 4,181             | 5,237            | 1.306                      | 0.056                                   | 0.102             | 0.127            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.159        | 0.007                     | 9,145             | 10,886           | 1.719                      | 0.041                                   | 0.146             | 0.172            |
| HIV prevalence among respondents 15-24                  | 0.053        | 0.006                     | 3,959             | 4,615            | 1.757                      | 0.118                                   | 0.040             | 0.065            |

na = Not applicable

**Table B.4 Sampling errors: Rural sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.821        | 0.008                     | 8,117             | 7,390            | 1.797                      | 0.009                                   | 0.806             | 0.836            |
| De facto population with access to an ITN   | 0.608        | 0.009                     | 40,666            | 37,401           | 2.129                      | 0.015                                   | 0.589             | 0.626            |
| Household population that slept under an ITN last night   | 0.494        | 0.011                     | 40,666            | 37,401           | 2.176                      | 0.022                                   | 0.472             | 0.516            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.000        | 0.000                     | 8,170             | 7,309            | na                         | na                                      | 0.000             | 0.000            |
| Literacy  | 0.541        | 0.010                     | 8,170             | 7,309            | 1.888                      | 0.019                                   | 0.520             | 0.562            |
| No education  | 0.115        | 0.007                     | 8,170             | 7,309            | 2.086                      | 0.064                                   | 0.100             | 0.130            |
| Secondary or higher education   | 0.299        | 0.010                     | 8,170             | 7,309            | 1.977                      | 0.033                                   | 0.279             | 0.319            |
| Never married (never in union)  | 0.252        | 0.007                     | 8,170             | 7,309            | 1.393                      | 0.027                                   | 0.239             | 0.266            |
| Currently married (in union)  | 0.625        | 0.008                     | 8,170             | 7,309            | 1.429                      | 0.012                                   | 0.610             | 0.640            |
| Married before age 18   | 0.449        | 0.009                     | 6,275             | 5,632            | 1.370                      | 0.019                                   | 0.432             | 0.466            |
| Had sexual intercourse before age 18  | 0.760        | 0.008                     | 6,275             | 5,632            | 1.456                      | 0.010                                   | 0.744             | 0.776            |
| Currently pregnant  | 0.100        | 0.004                     | 8,170             | 7,309            | 1.180                      | 0.039                                   | 0.092             | 0.107            |
| Know any contraceptive method   | 0.996        | 0.001                     | 5,002             | 4,568            | 1.311                      | 0.001                                   | 0.993             | 0.998            |
| Know a modern method  | 0.995        | 0.001                     | 5,002             | 4,568            | 1.338                      | 0.001                                   | 0.992             | 0.998            |
| Currently using any method  | 0.464        | 0.010                     | 5,002             | 4,568            | 1.383                      | 0.021                                   | 0.445             | 0.484            |
| Currently using a modern method   | 0.440        | 0.010                     | 5,002             | 4,568            | 1.403                      | 0.022                                   | 0.421             | 0.460            |
| Currently using IUD   | 0.004        | 0.001                     | 5,002             | 4,568            | 1.321                      | 0.306                                   | 0.001             | 0.006            |
| Currently using pill  | 0.056        | 0.004                     | 5,002             | 4,568            | 1.173                      | 0.068                                   | 0.048             | 0.064            |
| Currently using male condoms  | 0.020        | 0.002                     | 5,002             | 4,568            | 1.164                      | 0.117                                   | 0.015             | 0.024            |
| Currently using injectables   | 0.264        | 0.008                     | 5,002             | 4,568            | 1.343                      | 0.032                                   | 0.247             | 0.280            |
| Currently using implants  | 0.069        | 0.005                     | 5,002             | 4,568            | 1.491                      | 0.078                                   | 0.058             | 0.079            |
| Currently using female sterilisation  | 0.018        | 0.003                     | 5,002             | 4,568            | 1.478                      | 0.156                                   | 0.012             | 0.023            |
| Currently using withdrawal  | 0.020        | 0.002                     | 5,002             | 4,568            | 1.227                      | 0.121                                   | 0.015             | 0.025            |
| Currently using rhythm  | 0.002        | 0.001                     | 5,002             | 4,568            | 1.306                      | 0.376                                   | 0.001             | 0.004            |
| Using public sector source  | 0.931        | 0.008                     | 2,705             | 2,442            | 1.619                      | 0.008                                   | 0.916             | 0.947            |
| Want no more children   | 0.359        | 0.008                     | 5,002             | 4,568            | 1.194                      | 0.023                                   | 0.342             | 0.375            |
| Want to delay next birth at least 2 years   | 0.380        | 0.009                     | 5,002             | 4,568            | 1.243                      | 0.022                                   | 0.363             | 0.397            |
| Ideal number of children  | 5.028        | 0.037                     | 7,889             | 7,064            | 1.586                      | 0.007                                   | 4.953             | 5.103            |
| Mothers protected against tetanus for last birth  | 0.750        | 0.009                     | 4,961             | 4,513            | 1.533                      | 0.013                                   | 0.731             | 0.769            |
| Mothers received antenatal care for last birth  | 0.955        | 0.006                     | 4,961             | 4,513            | 2.011                      | 0.006                                   | 0.943             | 0.967            |
| Births with skilled attendant at delivery   | 0.734        | 0.013                     | 6,972             | 6,352            | 2.109                      | 0.017                                   | 0.709             | 0.760            |
| Received 3+ doses of SP/Fansidar  | 0.557        | 0.013                     | 2,779             | 2,564            | 1.388                      | 0.023                                   | 0.531             | 0.583            |
| Treated with ORS  | 0.652        | 0.021                     | 1,019             | 929              | 1.389                      | 0.032                                   | 0.610             | 0.694            |
| Sought medical treatment for diarrhoea  | 0.738        | 0.018                     | 1,019             | 929              | 1.299                      | 0.024                                   | 0.702             | 0.774            |
| Ever had vaccination card   | 0.967        | 0.006                     | 1,338             | 1,225            | 1.306                      | 0.007                                   | 0.955             | 0.980            |
| Received BCG vaccination  | 0.963        | 0.006                     | 1,338             | 1,225            | 1.255                      | 0.007                                   | 0.950             | 0.976            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.907        | 0.011                     | 1,338             | 1,225            | 1.449                      | 0.013                                   | 0.884             | 0.930            |
| Received birth dose polio 0 vaccination   | 0.561        | 0.018                     | 1,338             | 1,225            | 1.336                      | 0.032                                   | 0.525             | 0.597            |
| Received polio vaccination (3 doses)  | 0.806        | 0.014                     | 1,338             | 1,225            | 1.334                      | 0.018                                   | 0.777             | 0.835            |
| Received pneumococcal vaccination (3 doses)   | 0.889        | 0.012                     | 1,338             | 1,225            | 1.421                      | 0.014                                   | 0.865             | 0.913            |
| Received rotavirus vaccination (2 doses)  | 0.894        | 0.012                     | 1,338             | 1,225            | 1.436                      | 0.013                                   | 0.870             | 0.918            |
| Received measles and rubella vaccination  | 0.905        | 0.011                     | 1,338             | 1,225            | 1.338                      | 0.012                                   | 0.883             | 0.926            |
| Received all basic vaccinations (12-23 months)  | 0.739        | 0.015                     | 1,338             | 1,225            | 1.283                      | 0.021                                   | 0.709             | 0.770            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.383        | 0.018                     | 1,338             | 1,225            | 1.342                      | 0.047                                   | 0.348             | 0.419            |
| Received measles 2 vaccination  | 0.636        | 0.019                     | 1,313             | 1,204            | 1.453                      | 0.031                                   | 0.597             | 0.675            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.275        | 0.016                     | 1,313             | 1,204            | 1.309                      | 0.059                                   | 0.243             | 0.307            |
| Height-for-age (-2 SD)  | 0.359        | 0.007                     | 6,744             | 6,289            | 1.207                      | 0.020                                   | 0.344             | 0.373            |
| Weight-for-height (-2 SD)   | 0.038        | 0.003                     | 6,743             | 6,287            | 1.334                      | 0.084                                   | 0.032             | 0.045            |
| Weight-for-age (-2 SD)  | 0.124        | 0.005                     | 6,809             | 6,348            | 1.180                      | 0.040                                   | 0.114             | 0.134            |
| Prevalence of anaemia (children 6-59 months)  | 0.582        | 0.009                     | 6,050             | 5,641            | 1.390                      | 0.015                                   | 0.564             | 0.599            |
| Prevalence of anaemia (women 15-49)   | 0.302        | 0.007                     | 7,933             | 7,104            | 1.455                      | 0.025                                   | 0.287             | 0.317            |
| Ever experienced any physical violence since age 15   | 0.372        | 0.011                     | 6,026             | 5,120            | 1.770                      | 0.030                                   | 0.350             | 0.394            |
| Ever experienced any sexual violence  | 0.145        | 0.008                     | 6,026             | 5,120            | 1.727                      | 0.054                                   | 0.130             | 0.161            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.411        | 0.012                     | 4,899             | 3,858            | 1.771                      | 0.030                                   | 0.386             | 0.436            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.494        | 0.013                     | 4,899             | 3,858            | 1.802                      | 0.026                                   | 0.468             | 0.520            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.323        | 0.011                     | 4,899             | 3,858            | 1.578                      | 0.033                                   | 0.302             | 0.344            |
| Had 2+ sexual partners in past 12 months  | 0.012        | 0.001                     | 8,170             | 7,309            | 1.145                      | 0.115                                   | 0.009             | 0.015            |
| Condom use at last sex  | 0.272        | 0.053                     | 94                | 88               | 1.150                      | 0.195                                   | 0.166             | 0.379            |
| Abstinance among never-married youth (never had sex)  | 0.445        | 0.015                     | 1,923             | 1,663            | 1.328                      | 0.034                                   | 0.415             | 0.475            |
| Had an HIV test and received results in past 12 months  | 0.615        | 0.010                     | 8,170             | 7,309            | 1.856                      | 0.016                                   | 0.595             | 0.635            |
| Discriminatory attitudes towards people living with HIV   | 0.334        | 0.010                     | 7,912             | 7,056            | 1.831                      | 0.029                                   | 0.315             | 0.354            |
| Total fertility rate (last 3 years)   | 5.832        | 0.112                     | 22,644            | 20,270           | 1.541                      | 0.019                                   | 5.608             | 6.056            |
| Neonatal mortality (last 0-4 years)   | 26.108       | 2.354                     | 6,953             | 6,329            | 1.159                      | 0.090                                   | 21.401            | 30.815           |
| Postneonatal mortality (last 0-4 years)   | 14.898       | 1.709                     | 6,965             | 6,336            | 1.177                      | 0.115                                   | 11.479            | 18.317           |
| Infant mortality (last 0-4 years)   | 41.006       | 2.863                     | 6,961             | 6,339            | 1.146                      | 0.070                                   | 35.280            | 46.732           |
| Child mortality (last 0-4 years)  | 18.004       | 1.873                     | 6,811             | 6,191            | 1.044                      | 0.104                                   | 14.259            | 21.750           |
| Under-5 mortality (last 0-4 years)  | 58.272       | 3.507                     | 7,010             | 6,381            | 1.152                      | 0.060                                   | 51.257            | 65.287           |
| HIV prevalence among women 15-49  | 0.089        | 0.005                     | 7,913             | 6,846            | 1.517                      | 0.055                                   | 0.079             | 0.099            |
| HIV prevalence among pregnant women 15-49   | 0.065        | 0.010                     | 771               | 684              | 1.148                      | 0.157                                   | 0.045             | 0.086            |
| HIV prevalence among young women 15-24  | 0.040        | 0.005                     | 3,358             | 2,903            | 1.394                      | 0.118                                   | 0.030             | 0.049            |

*Continued...*

**Table B.4—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.000        | 0.000                     | 6,913             | 6,165            | na                         | na                                      | 0.000             | 0.000            |
| Literacy  | 0.743        | 0.009                     | 6,913             | 6,165            | 1.659                      | 0.012                                   | 0.725             | 0.760            |
| No education  | 0.060        | 0.006                     | 6,913             | 6,165            | 1.947                      | 0.093                                   | 0.049             | 0.071            |
| Secondary or higher education                           | 0.429        | 0.011                     | 6,913             | 6,165            | 1.836                      | 0.025                                   | 0.407             | 0.451            |
| Never married (in union)                                | 0.418        | 0.008                     | 6,913             | 6,165            | 1.275                      | 0.018                                   | 0.403             | 0.434            |
| Currently married (in union)                            | 0.552        | 0.008                     | 6,913             | 6,165            | 1.309                      | 0.014                                   | 0.536             | 0.568            |
| Had first sexual intercourse before age 18              | 0.518        | 0.011                     | 5,081             | 4,539            | 1.529                      | 0.021                                   | 0.496             | 0.539            |
| Knows any contraceptive method                          | 0.999        | 0.001                     | 3,754             | 3,402            | 1.028                      | 0.001                                   | 0.997             | 1.000            |
| Knows any modern contraceptive method                   | 0.999        | 0.001                     | 3,754             | 3,402            | 1.028                      | 0.001                                   | 0.997             | 1.000            |
| Want no more children                                   | 0.272        | 0.009                     | 3,754             | 3,402            | 1.220                      | 0.033                                   | 0.254             | 0.289            |
| Want to delay birth at least 2 years                    | 0.475        | 0.010                     | 3,754             | 3,402            | 1.286                      | 0.022                                   | 0.454             | 0.496            |
| Ideal number of children                                | 5.475        | 0.071                     | 6,796             | 6,041            | 1.958                      | 0.013                                   | 5.333             | 5.617            |
| Had 2+ sexual partners in past 12 months                | 0.183        | 0.008                     | 6,913             | 6,165            | 1.620                      | 0.041                                   | 0.167             | 0.198            |
| Condom use at last sex                                  | 0.235        | 0.014                     | 1,124             | 1,125            | 1.107                      | 0.060                                   | 0.207             | 0.263            |
| Abstinence among never-married youth (never had sex)    | 0.360        | 0.013                     | 2,587             | 2,283            | 1.386                      | 0.036                                   | 0.333             | 0.386            |
| Had paid sex in past 12 months                          | 0.066        | 0.004                     | 6,913             | 6,165            | 1.450                      | 0.066                                   | 0.057             | 0.074            |
| Had HIV test and received results in past 12 months     | 0.496        | 0.008                     | 6,913             | 6,165            | 1.370                      | 0.017                                   | 0.480             | 0.513            |
| Discriminatory attitudes towards people living with HIV | 0.281        | 0.009                     | 6,830             | 6,097            | 1.691                      | 0.033                                   | 0.262             | 0.299            |
| HIV prevalence among men 15-49                          | 0.050        | 0.004                     | 6,666             | 6,035            | 1.333                      | 0.071                                   | 0.043             | 0.057            |
| HIV prevalence among young men 15-24                    | 0.010        | 0.002                     | 2,927             | 2,636            | 1.056                      | 0.194                                   | 0.006             | 0.014            |
| HIV prevalence among men 15-59                          | 0.059        | 0.004                     | 7,366             | 6,648            | 1.347                      | 0.063                                   | 0.051             | 0.066            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.071        | 0.004                     | 14,579            | 12,881           | 1.727                      | 0.052                                   | 0.064             | 0.078            |
| HIV prevalence among respondents 15-24                  | 0.026        | 0.003                     | 6,285             | 5,539            | 1.313                      | 0.102                                   | 0.020             | 0.031            |

na = Not applicable

**Table B.5 Sampling errors: Central sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.714        | 0.023                     | 1,308             | 1,134            | 1.834                      | 0.032                                   | 0.668             | 0.760            |
| De facto population with access to an ITN   | 0.533        | 0.027                     | 6,468             | 5,650            | 2.181                      | 0.051                                   | 0.478             | 0.587            |
| Household population that slept under an ITN last night   | 0.358        | 0.019                     | 6,468             | 5,650            | 1.613                      | 0.054                                   | 0.319             | 0.397            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.323        | 0.018                     | 1,397             | 1,165            | 1.452                      | 0.056                                   | 0.286             | 0.359            |
| Literacy  | 0.739        | 0.021                     | 1,397             | 1,165            | 1.766                      | 0.028                                   | 0.697             | 0.780            |
| No education  | 0.062        | 0.010                     | 1,397             | 1,165            | 1.604                      | 0.167                                   | 0.041             | 0.083            |
| Secondary or higher education   | 0.487        | 0.027                     | 1,397             | 1,165            | 2.012                      | 0.055                                   | 0.433             | 0.541            |
| Never married (never in union)  | 0.307        | 0.015                     | 1,397             | 1,165            | 1.220                      | 0.049                                   | 0.277             | 0.337            |
| Currently married (in union)  | 0.561        | 0.017                     | 1,397             | 1,165            | 1.305                      | 0.031                                   | 0.527             | 0.596            |
| Married before age 18   | 0.398        | 0.019                     | 1,041             | 869              | 1.280                      | 0.049                                   | 0.359             | 0.437            |
| Had sexual intercourse before age 18  | 0.683        | 0.023                     | 1,041             | 869              | 1.621                      | 0.034                                   | 0.636             | 0.729            |
| Currently pregnant  | 0.084        | 0.006                     | 1,397             | 1,165            | 0.866                      | 0.077                                   | 0.071             | 0.096            |
| Know any contraceptive method   | 0.999        | 0.001                     | 774               | 654              | 1.076                      | 0.001                                   | 0.996             | 1.001            |
| Know a modern method  | 0.999        | 0.001                     | 774               | 654              | 1.076                      | 0.001                                   | 0.996             | 1.001            |
| Currently using any method  | 0.509        | 0.024                     | 774               | 654              | 1.324                      | 0.047                                   | 0.461             | 0.556            |
| Currently using a modern method   | 0.497        | 0.024                     | 774               | 654              | 1.309                      | 0.047                                   | 0.450             | 0.544            |
| Currently using IUD   | 0.007        | 0.003                     | 774               | 654              | 1.027                      | 0.449                                   | 0.001             | 0.013            |
| Currently using pill  | 0.073        | 0.011                     | 774               | 654              | 1.152                      | 0.148                                   | 0.051             | 0.094            |
| Currently using male condoms  | 0.035        | 0.006                     | 774               | 654              | 0.975                      | 0.183                                   | 0.022             | 0.048            |
| Currently using injectables   | 0.270        | 0.021                     | 774               | 654              | 1.329                      | 0.079                                   | 0.228             | 0.313            |
| Currently using implants  | 0.084        | 0.013                     | 774               | 654              | 1.312                      | 0.156                                   | 0.057             | 0.110            |
| Currently using female sterilisation  | 0.003        | 0.002                     | 774               | 654              | 0.942                      | 0.580                                   | 0.000             | 0.007            |
| Currently using withdrawal  | 0.011        | 0.004                     | 774               | 654              | 0.981                      | 0.337                                   | 0.004             | 0.018            |
| Currently using rhythm  | 0.001        | 0.001                     | 774               | 654              | 0.782                      | 1.011                                   | 0.000             | 0.002            |
| Using public sector source  | 0.928        | 0.012                     | 456               | 386              | 0.986                      | 0.013                                   | 0.904             | 0.952            |
| Want no more children   | 0.358        | 0.018                     | 774               | 654              | 1.042                      | 0.050                                   | 0.322             | 0.394            |
| Want to delay next birth at least 2 years   | 0.293        | 0.025                     | 774               | 654              | 1.524                      | 0.085                                   | 0.243             | 0.343            |
| Ideal number of children  | 4.745        | 0.103                     | 1,376             | 1,147            | 1.825                      | 0.022                                   | 4.538             | 4.952            |
| Mothers protected against tetanus for last birth  | 0.731        | 0.025                     | 748               | 640              | 1.553                      | 0.034                                   | 0.681             | 0.781            |
| Mothers received antenatal care for last birth  | 0.972        | 0.012                     | 748               | 640              | 1.903                      | 0.012                                   | 0.949             | 0.995            |
| Births with skilled attendant at delivery   | 0.713        | 0.034                     | 998               | 855              | 2.079                      | 0.048                                   | 0.645             | 0.782            |
| Received 3+ doses of SP/Fansidar  | 0.608        | 0.030                     | 396               | 343              | 1.219                      | 0.049                                   | 0.549             | 0.668            |
| Treated with ORS  | 0.688        | 0.042                     | 109               | 88               | 0.878                      | 0.060                                   | 0.605             | 0.771            |
| Sought medical treatment for diarrhoea  | 0.785        | 0.042                     | 109               | 88               | 1.016                      | 0.054                                   | 0.700             | 0.870            |
| Ever had vaccination card   | 0.981        | 0.011                     | 198               | 171              | 1.117                      | 0.011                                   | 0.959             | 1.002            |
| Received BCG vaccination  | 0.989        | 0.008                     | 198               | 171              | 1.088                      | 0.008                                   | 0.973             | 1.005            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.935        | 0.022                     | 198               | 171              | 1.279                      | 0.024                                   | 0.891             | 0.980            |
| Received birth dose polio 0 vaccination   | 0.676        | 0.045                     | 198               | 171              | 1.351                      | 0.067                                   | 0.586             | 0.766            |
| Received polio vaccination (3 doses)  | 0.858        | 0.026                     | 198               | 171              | 1.028                      | 0.030                                   | 0.806             | 0.909            |
| Received pneumococcal vaccination (3 doses)   | 0.928        | 0.024                     | 198               | 171              | 1.323                      | 0.026                                   | 0.879             | 0.976            |
| Received rotavirus vaccination (2 doses)  | 0.921        | 0.019                     | 198               | 171              | 0.985                      | 0.020                                   | 0.884             | 0.959            |
| Received measles and rubella vaccination  | 0.916        | 0.025                     | 198               | 171              | 1.220                      | 0.027                                   | 0.866             | 0.966            |
| Received all basic vaccinations (12-23 months)  | 0.788        | 0.033                     | 198               | 171              | 1.097                      | 0.041                                   | 0.723             | 0.853            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.483        | 0.049                     | 198               | 171              | 1.366                      | 0.101                                   | 0.385             | 0.580            |
| Received measles 2 vaccination  | 0.747        | 0.038                     | 190               | 156              | 1.175                      | 0.051                                   | 0.670             | 0.823            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.275        | 0.041                     | 190               | 156              | 1.238                      | 0.151                                   | 0.192             | 0.358            |
| Height-for-age (-2 SD)  | 0.334        | 0.019                     | 976               | 866              | 1.219                      | 0.057                                   | 0.296             | 0.371            |
| Weight-for-height (-2 SD)   | 0.046        | 0.009                     | 971               | 860              | 1.227                      | 0.185                                   | 0.029             | 0.063            |
| Weight-for-age (-2 SD)  | 0.114        | 0.012                     | 986               | 875              | 1.092                      | 0.102                                   | 0.091             | 0.137            |
| Prevalence of anaemia (children 6-59 months)  | 0.500        | 0.025                     | 873               | 773              | 1.466                      | 0.050                                   | 0.449             | 0.550            |
| Prevalence of anaemia (women 15-49)   | 0.238        | 0.014                     | 1,372             | 1,145            | 1.230                      | 0.059                                   | 0.210             | 0.267            |
| Ever experienced any physical violence since age 15   | 0.279        | 0.037                     | 929               | 821              | 2.473                      | 0.131                                   | 0.206             | 0.352            |
| Ever experienced any sexual violence  | 0.076        | 0.012                     | 929               | 821              | 1.361                      | 0.156                                   | 0.052             | 0.099            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.318        | 0.042                     | 703               | 560              | 2.407                      | 0.133                                   | 0.233             | 0.403            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.376        | 0.048                     | 703               | 560              | 2.616                      | 0.128                                   | 0.280             | 0.472            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.228        | 0.029                     | 703               | 560              | 1.806                      | 0.126                                   | 0.171             | 0.286            |
| Had 2+ sexual partners in past 12 months  | 0.013        | 0.003                     | 1,397             | 1,165            | 1.137                      | 0.267                                   | 0.006             | 0.020            |
| Condom use at last sex  | 0.393        | 0.125                     | 16                | 15               | 0.995                      | 0.319                                   | 0.142             | 0.643            |
| Abstinance among never-married youth (never had sex)  | 0.504        | 0.030                     | 392               | 320              | 1.175                      | 0.059                                   | 0.444             | 0.563            |
| Had an HIV test and received results in past 12 months  | 0.654        | 0.018                     | 1,397             | 1,165            | 1.433                      | 0.028                                   | 0.618             | 0.691            |
| Discriminatory attitudes towards people living with HIV   | 0.196        | 0.020                     | 1,389             | 1,160            | 1.828                      | 0.099                                   | 0.157             | 0.235            |
| Total fertility rate (last 3 years)   | 4.753        | 0.300                     | 3,847             | 3,212            | 1.546                      | 0.063                                   | 4.153             | 5.352            |
| Neonatal mortality (last 0-9 years)   | 16.210       | 3.102                     | 1,942             | 1,662            | 1.026                      | 0.191                                   | 10.006            | 22.413           |
| Postneonatal mortality (last 0-9 years)   | 13.659       | 3.061                     | 1,939             | 1,660            | 1.077                      | 0.224                                   | 7.537             | 19.780           |
| Infant mortality (last 0-9 years)   | 29.868       | 4.667                     | 1,944             | 1,664            | 1.103                      | 0.156                                   | 20.535            | 39.202           |
| Child mortality (last 0-9 years)  | 17.803       | 3.497                     | 1,923             | 1,645            | 1.134                      | 0.196                                   | 10.808            | 24.798           |
| Under-5 mortality (last 0-9 years)  | 47.139       | 5.567                     | 1,951             | 1,669            | 1.051                      | 0.118                                   | 36.005            | 58.273           |
| HIV prevalence among women 15-49  | 0.154        | 0.010                     | 1,371             | 1,092            | 1.053                      | 0.067                                   | 0.133             | 0.175            |
| HIV prevalence among pregnant women 15-49   | 0.080        | 0.024                     | 119               | 91               | 0.977                      | 0.304                                   | 0.031             | 0.129            |
| HIV prevalence among young women 15-24  | 0.065        | 0.009                     | 601               | 477              | 0.897                      | 0.139                                   | 0.047             | 0.083            |

*Continued...*

**Table B.5—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.282        | 0.019                     | 1,211             | 979              | 1.445                      | 0.066                                   | 0.245             | 0.320            |
| Literacy  | 0.776        | 0.023                     | 1,211             | 979              | 1.927                      | 0.030                                   | 0.730             | 0.822            |
| No education  | 0.028        | 0.006                     | 1,211             | 979              | 1.196                      | 0.202                                   | 0.017             | 0.040            |
| Secondary or higher education                           | 0.552        | 0.029                     | 1,211             | 979              | 2.014                      | 0.052                                   | 0.494             | 0.609            |
| Never married (in union)                                | 0.464        | 0.019                     | 1,211             | 979              | 1.292                      | 0.040                                   | 0.427             | 0.501            |
| Currently married (in union)                            | 0.496        | 0.018                     | 1,211             | 979              | 1.266                      | 0.037                                   | 0.460             | 0.533            |
| Had first sexual intercourse before age 18              | 0.384        | 0.019                     | 887               | 717              | 1.171                      | 0.050                                   | 0.345             | 0.422            |
| Knows any contraceptive method                          | 1.000        | 0.000                     | 592               | 486              | na                         | 0.000                                   | 1.000             | 1.000            |
| Knows any modern contraceptive method                   | 1.000        | 0.000                     | 592               | 486              | na                         | 0.000                                   | 1.000             | 1.000            |
| Want no more children                                   | 0.308        | 0.020                     | 592               | 486              | 1.042                      | 0.064                                   | 0.268             | 0.348            |
| Want to delay birth at least 2 years                    | 0.428        | 0.025                     | 592               | 486              | 1.216                      | 0.058                                   | 0.379             | 0.478            |
| Ideal number of children                                | 5.088        | 0.183                     | 1,208             | 977              | 2.647                      | 0.036                                   | 4.722             | 5.453            |
| Had 2+ sexual partners in past 12 months                | 0.122        | 0.012                     | 1,211             | 979              | 1.266                      | 0.098                                   | 0.098             | 0.145            |
| Condom use at last sex                                  | 0.227        | 0.033                     | 143               | 119              | 0.943                      | 0.146                                   | 0.160             | 0.293            |
| Abstinence among never-married youth (never had sex)    | 0.450        | 0.026                     | 468               | 375              | 1.120                      | 0.057                                   | 0.398             | 0.502            |
| Had paid sex in past 12 months                          | 0.037        | 0.008                     | 1,211             | 979              | 1.517                      | 0.221                                   | 0.021             | 0.054            |
| Had HIV test and received results in past 12 months     | 0.534        | 0.018                     | 1,211             | 979              | 1.284                      | 0.034                                   | 0.497             | 0.571            |
| Discriminatory attitudes towards people living with HIV | 0.182        | 0.024                     | 1,205             | 975              | 2.113                      | 0.129                                   | 0.135             | 0.229            |
| HIV prevalence among men 15-49                          | 0.090        | 0.011                     | 1,187             | 960              | 1.330                      | 0.122                                   | 0.068             | 0.113            |
| HIV prevalence among young men 15-24                    | 0.023        | 0.006                     | 524               | 422              | 0.962                      | 0.277                                   | 0.010             | 0.035            |
| HIV prevalence among men 15-59                          | 0.102        | 0.011                     | 1,305             | 1,054            | 1.327                      | 0.109                                   | 0.080             | 0.124            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.124        | 0.009                     | 2,558             | 2,052            | 1.377                      | 0.072                                   | 0.106             | 0.142            |
| HIV prevalence among respondents 15-24                  | 0.045        | 0.006                     | 1,125             | 898              | 0.928                      | 0.127                                   | 0.034             | 0.057            |

na = Not applicable

**Table B.6 Sampling errors: Copperbelt sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.810        | 0.014                     | 1,445             | 1,863            | 1.372                      | 0.018                                   | 0.781             | 0.838            |
| De facto population with access to an ITN   | 0.647        | 0.016                     | 6,802             | 8,862            | 1.547                      | 0.025                                   | 0.614             | 0.680            |
| Household population that slept under an ITN last night   | 0.485        | 0.018                     | 6,802             | 8,862            | 1.577                      | 0.038                                   | 0.448             | 0.522            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.864        | 0.015                     | 1,615             | 2,201            | 1.810                      | 0.018                                   | 0.833             | 0.895            |
| Literacy  | 0.771        | 0.020                     | 1,615             | 2,201            | 1.935                      | 0.026                                   | 0.730             | 0.811            |
| No education  | 0.027        | 0.008                     | 1,615             | 2,201            | 1.944                      | 0.290                                   | 0.011             | 0.043            |
| Secondary or higher education   | 0.651        | 0.030                     | 1,615             | 2,201            | 2.507                      | 0.046                                   | 0.592             | 0.711            |
| Never married (never in union)  | 0.385        | 0.020                     | 1,615             | 2,201            | 1.616                      | 0.051                                   | 0.346             | 0.424            |
| Currently married (in union)  | 0.474        | 0.020                     | 1,615             | 2,201            | 1.615                      | 0.042                                   | 0.434             | 0.514            |
| Married before age 18   | 0.266        | 0.019                     | 1,252             | 1,710            | 1.527                      | 0.072                                   | 0.228             | 0.304            |
| Had sexual intercourse before age 18  | 0.573        | 0.022                     | 1,252             | 1,710            | 1.548                      | 0.038                                   | 0.529             | 0.616            |
| Currently pregnant  | 0.063        | 0.006                     | 1,615             | 2,201            | 1.020                      | 0.098                                   | 0.051             | 0.075            |
| Know any contraceptive method   | 1.000        | 0.000                     | 790               | 1,043            | na                         | 0.000                                   | 1.000             | 1.000            |
| Know a modern method  | 1.000        | 0.000                     | 790               | 1,043            | na                         | 0.000                                   | 1.000             | 1.000            |
| Currently using any method  | 0.535        | 0.022                     | 790               | 1,043            | 1.266                      | 0.042                                   | 0.490             | 0.580            |
| Currently using a modern method   | 0.528        | 0.022                     | 790               | 1,043            | 1.224                      | 0.041                                   | 0.484             | 0.571            |
| Currently using IUD   | 0.011        | 0.004                     | 790               | 1,043            | 1.130                      | 0.389                                   | 0.002             | 0.019            |
| Currently using pill  | 0.096        | 0.013                     | 790               | 1,043            | 1.228                      | 0.134                                   | 0.071             | 0.122            |
| Currently using male condoms  | 0.044        | 0.009                     | 790               | 1,043            | 1.203                      | 0.199                                   | 0.027             | 0.062            |
| Currently using injectables   | 0.264        | 0.015                     | 790               | 1,043            | 0.953                      | 0.057                                   | 0.234             | 0.294            |
| Currently using implants  | 0.100        | 0.012                     | 790               | 1,043            | 1.097                      | 0.117                                   | 0.076             | 0.123            |
| Currently using female sterilisation  | 0.007        | 0.004                     | 790               | 1,043            | 1.185                      | 0.493                                   | 0.000             | 0.014            |
| Currently using withdrawal  | 0.005        | 0.003                     | 790               | 1,043            | 1.079                      | 0.561                                   | 0.000             | 0.010            |
| Currently using rhythm  | 0.003        | 0.002                     | 790               | 1,043            | 0.991                      | 0.665                                   | 0.000             | 0.007            |
| Using public sector source  | 0.877        | 0.016                     | 537               | 723              | 1.125                      | 0.018                                   | 0.846             | 0.909            |
| Want no more children   | 0.417        | 0.016                     | 790               | 1,043            | 0.922                      | 0.039                                   | 0.385             | 0.449            |
| Want to delay next birth at least 2 years   | 0.369        | 0.020                     | 790               | 1,043            | 1.159                      | 0.054                                   | 0.329             | 0.409            |
| Ideal number of children  | 4.246        | 0.082                     | 1,583             | 2,164            | 1.818                      | 0.019                                   | 4.082             | 4.411            |
| Mothers protected against tetanus for last birth  | 0.882        | 0.015                     | 732               | 969              | 1.267                      | 0.017                                   | 0.851             | 0.912            |
| Mothers received antenatal care for last birth  | 0.994        | 0.003                     | 732               | 969              | 0.954                      | 0.003                                   | 0.989             | 1.000            |
| Births with skilled attendant at delivery   | 0.907        | 0.015                     | 925               | 1,209            | 1.374                      | 0.017                                   | 0.876             | 0.937            |
| Received 3+ doses of SP/Fansidar  | 0.698        | 0.040                     | 350               | 473              | 1.650                      | 0.058                                   | 0.617             | 0.779            |
| Treated with ORS  | 0.669        | 0.047                     | 126               | 164              | 1.072                      | 0.070                                   | 0.576             | 0.763            |
| Sought medical treatment for diarrhoea  | 0.669        | 0.039                     | 126               | 164              | 0.901                      | 0.058                                   | 0.592             | 0.746            |
| Ever had vaccination card   | 0.991        | 0.007                     | 176               | 241              | 1.014                      | 0.007                                   | 0.976             | 1.005            |
| Received BCG vaccination  | 0.989        | 0.008                     | 176               | 241              | 1.040                      | 0.008                                   | 0.973             | 1.005            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.956        | 0.018                     | 176               | 241              | 1.181                      | 0.019                                   | 0.920             | 0.992            |
| Received birth dose polio 0 vaccination   | 0.879        | 0.033                     | 176               | 241              | 1.372                      | 0.038                                   | 0.812             | 0.946            |
| Received polio vaccination (3 doses)  | 0.914        | 0.027                     | 176               | 241              | 1.265                      | 0.029                                   | 0.861             | 0.967            |
| Received pneumococcal vaccination (3 doses)   | 0.933        | 0.027                     | 176               | 241              | 1.467                      | 0.029                                   | 0.878             | 0.988            |
| Received rotavirus vaccination (2 doses)  | 0.922        | 0.023                     | 176               | 241              | 1.166                      | 0.025                                   | 0.876             | 0.969            |
| Received measles and rubella vaccination  | 0.882        | 0.023                     | 176               | 241              | 0.942                      | 0.026                                   | 0.837             | 0.928            |
| Received all basic vaccinations (12-23 months)  | 0.826        | 0.026                     | 176               | 241              | 0.933                      | 0.032                                   | 0.773             | 0.879            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.691        | 0.045                     | 176               | 241              | 1.307                      | 0.065                                   | 0.601             | 0.782            |
| Received measles 2 vaccination  | 0.685        | 0.051                     | 169               | 215              | 1.364                      | 0.075                                   | 0.583             | 0.788            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.498        | 0.052                     | 169               | 215              | 1.303                      | 0.105                                   | 0.393             | 0.602            |
| Height-for-age (-2 SD)  | 0.297        | 0.020                     | 936               | 1,230            | 1.333                      | 0.067                                   | 0.257             | 0.337            |
| Weight-for-height (-2 SD)   | 0.054        | 0.008                     | 932               | 1,226            | 1.114                      | 0.148                                   | 0.038             | 0.070            |
| Weight-for-age (-2 SD)  | 0.121        | 0.013                     | 941               | 1,236            | 1.117                      | 0.104                                   | 0.096             | 0.146            |
| Prevalence of anaemia (children 6-59 months)  | 0.572        | 0.016                     | 836               | 1,104            | 0.936                      | 0.028                                   | 0.540             | 0.603            |
| Prevalence of anaemia (women 15-49)   | 0.292        | 0.019                     | 1,547             | 2,114            | 1.645                      | 0.065                                   | 0.254             | 0.330            |
| Ever experienced any physical violence since age 15   | 0.417        | 0.022                     | 1,065             | 1,481            | 1.474                      | 0.053                                   | 0.372             | 0.461            |
| Ever experienced any sexual violence  | 0.175        | 0.016                     | 1,065             | 1,481            | 1.384                      | 0.092                                   | 0.143             | 0.207            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.482        | 0.028                     | 790               | 923              | 1.547                      | 0.057                                   | 0.427             | 0.537            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.562        | 0.033                     | 790               | 923              | 1.893                      | 0.060                                   | 0.495             | 0.629            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.352        | 0.031                     | 790               | 923              | 1.838                      | 0.089                                   | 0.290             | 0.415            |
| Had 2+ sexual partners in past 12 months  | 0.017        | 0.004                     | 1,615             | 2,201            | 1.279                      | 0.239                                   | 0.009             | 0.026            |
| Condom use at last sex  | 0.322        | 0.108                     | 26                | 38               | 1.153                      | 0.337                                   | 0.105             | 0.538            |
| Abstinance among never-married youth (never had sex)  | 0.538        | 0.026                     | 500               | 709              | 1.153                      | 0.048                                   | 0.487             | 0.590            |
| Had an HIV test and received results in past 12 months  | 0.625        | 0.017                     | 1,615             | 2,201            | 1.389                      | 0.027                                   | 0.592             | 0.659            |
| Discriminatory attitudes towards people living with HIV   | 0.170        | 0.016                     | 1,610             | 2,198            | 1.661                      | 0.092                                   | 0.139             | 0.201            |
| Total fertility rate (last 3 years)   | 3.421        | 0.152                     | 4,529             | 6,190            | 1.115                      | 0.044                                   | 3.118             | 3.724            |
| Neonatal mortality (last 0-9 years)   | 19.488       | 4.216                     | 1,813             | 2,371            | 1.213                      | 0.216                                   | 11.055            | 27.920           |
| Postneonatal mortality (last 0-9 years)   | 13.713       | 2.500                     | 1,807             | 2,351            | 0.881                      | 0.182                                   | 8.713             | 18.712           |
| Infant mortality (last 0-9 years)   | 33.201       | 5.053                     | 1,815             | 2,374            | 1.147                      | 0.152                                   | 23.094            | 43.307           |
| Child mortality (last 0-9 years)  | 16.929       | 3.480                     | 1,798             | 2,342            | 1.075                      | 0.206                                   | 9.969             | 23.889           |
| Under-5 mortality (last 0-9 years)  | 49.568       | 5.990                     | 1,821             | 2,381            | 1.119                      | 0.121                                   | 37.587            | 61.549           |
| HIV prevalence among women 15-49  | 0.199        | 0.017                     | 1,512             | 2,062            | 1.700                      | 0.088                                   | 0.164             | 0.234            |
| HIV prevalence among pregnant women 15-49   | 0.163        | 0.038                     | 102               | 131              | 1.033                      | 0.233                                   | 0.087             | 0.239            |
| HIV prevalence among young women 15-24  | 0.091        | 0.026                     | 641               | 870              | 2.251                      | 0.281                                   | 0.040             | 0.143            |

**Table B.6—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.826        | 0.019                     | 1,313             | 1,727            | 1.841                      | 0.023                                   | 0.787             | 0.864            |
| Literacy  | 0.898        | 0.013                     | 1,313             | 1,727            | 1.538                      | 0.014                                   | 0.872             | 0.924            |
| No education  | 0.016        | 0.004                     | 1,313             | 1,727            | 1.116                      | 0.245                                   | 0.008             | 0.023            |
| Secondary or higher education                           | 0.758        | 0.022                     | 1,313             | 1,727            | 1.893                      | 0.030                                   | 0.713             | 0.802            |
| Never married (in union)                                | 0.519        | 0.017                     | 1,313             | 1,727            | 1.239                      | 0.033                                   | 0.485             | 0.553            |
| Currently married (in union)                            | 0.422        | 0.017                     | 1,313             | 1,727            | 1.270                      | 0.041                                   | 0.387             | 0.456            |
| Had first sexual intercourse before age 18              | 0.301        | 0.021                     | 992               | 1,315            | 1.465                      | 0.071                                   | 0.259             | 0.344            |
| Knows any contraceptive method                          | 0.999        | 0.001                     | 558               | 728              | 0.675                      | 0.001                                   | 0.998             | 1.001            |
| Knows any modern contraceptive method                   | 0.999        | 0.001                     | 558               | 728              | 0.675                      | 0.001                                   | 0.998             | 1.001            |
| Want no more children                                   | 0.291        | 0.017                     | 558               | 728              | 0.906                      | 0.060                                   | 0.256             | 0.326            |
| Want to delay birth at least 2 years                    | 0.455        | 0.028                     | 558               | 728              | 1.320                      | 0.061                                   | 0.399             | 0.511            |
| Ideal number of children                                | 4.490        | 0.093                     | 1,306             | 1,718            | 1.637                      | 0.021                                   | 4.303             | 4.677            |
| Had 2+ sexual partners in past 12 months                | 0.062        | 0.007                     | 1,313             | 1,727            | 0.989                      | 0.106                                   | 0.049             | 0.075            |
| Condom use at last sex                                  | 0.276        | 0.049                     | 84                | 107              | 1.002                      | 0.178                                   | 0.178             | 0.374            |
| Abstinence among never-married youth (never had sex)    | 0.538        | 0.028                     | 521               | 697              | 1.260                      | 0.051                                   | 0.482             | 0.593            |
| Had paid sex in past 12 months                          | 0.035        | 0.007                     | 1,313             | 1,727            | 1.376                      | 0.201                                   | 0.021             | 0.048            |
| Had HIV test and received results in past 12 months     | 0.543        | 0.019                     | 1,313             | 1,727            | 1.359                      | 0.034                                   | 0.506             | 0.581            |
| Discriminatory attitudes towards people living with HIV | 0.196        | 0.017                     | 1,295             | 1,705            | 1.503                      | 0.085                                   | 0.163             | 0.230            |
| HIV prevalence among men 15-49                          | 0.101        | 0.011                     | 1,219             | 1,691            | 1.293                      | 0.111                                   | 0.078             | 0.123            |
| HIV prevalence among young men 15-24                    | 0.013        | 0.005                     | 524               | 727              | 1.107                      | 0.428                                   | 0.002             | 0.023            |
| HIV prevalence among men 15-59                          | 0.112        | 0.011                     | 1,322             | 1,813            | 1.311                      | 0.101                                   | 0.090             | 0.135            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.155        | 0.012                     | 2,731             | 3,752            | 1.782                      | 0.080                                   | 0.130             | 0.179            |
| HIV prevalence among respondents 15-24                  | 0.056        | 0.015                     | 1,165             | 1,598            | 2.198                      | 0.266                                   | 0.026             | 0.085            |

na = Not applicable

**Table B.7 Sampling errors: Eastern sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.847        | 0.015                     | 1,452             | 1,556            | 1.539                      | 0.017                                   | 0.818             | 0.876            |
| De facto population with access to an ITN   | 0.629        | 0.020                     | 7,332             | 7,963            | 2.037                      | 0.031                                   | 0.589             | 0.668            |
| Household population that slept under an ITN last night   | 0.539        | 0.024                     | 7,332             | 7,963            | 2.133                      | 0.045                                   | 0.491             | 0.587            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.132        | 0.017                     | 1,536             | 1,605            | 1.923                      | 0.126                                   | 0.098             | 0.165            |
| Literacy  | 0.497        | 0.018                     | 1,536             | 1,605            | 1.448                      | 0.037                                   | 0.460             | 0.534            |
| No education  | 0.132        | 0.014                     | 1,536             | 1,605            | 1.661                      | 0.109                                   | 0.103             | 0.161            |
| Secondary or higher education   | 0.259        | 0.020                     | 1,536             | 1,605            | 1.761                      | 0.076                                   | 0.220             | 0.298            |
| Never married (never in union)  | 0.216        | 0.013                     | 1,536             | 1,605            | 1.199                      | 0.058                                   | 0.191             | 0.242            |
| Currently married (in union)  | 0.670        | 0.016                     | 1,536             | 1,605            | 1.322                      | 0.024                                   | 0.638             | 0.701            |
| Married before age 18   | 0.505        | 0.019                     | 1,210             | 1,263            | 1.354                      | 0.039                                   | 0.467             | 0.544            |
| Had sexual intercourse before age 18  | 0.766        | 0.018                     | 1,210             | 1,263            | 1.444                      | 0.023                                   | 0.731             | 0.802            |
| Currently pregnant  | 0.101        | 0.010                     | 1,536             | 1,605            | 1.247                      | 0.095                                   | 0.082             | 0.120            |
| Know any contraceptive method   | 0.997        | 0.002                     | 997               | 1,075            | 0.998                      | 0.002                                   | 0.994             | 1.000            |
| Know a modern method  | 0.997        | 0.002                     | 997               | 1,075            | 0.998                      | 0.002                                   | 0.994             | 1.000            |
| Currently using any method  | 0.550        | 0.019                     | 997               | 1,075            | 1.181                      | 0.034                                   | 0.513             | 0.587            |
| Currently using a modern method   | 0.537        | 0.018                     | 997               | 1,075            | 1.134                      | 0.033                                   | 0.501             | 0.573            |
| Currently using IUD   | 0.005        | 0.002                     | 997               | 1,075            | 0.998                      | 0.468                                   | 0.000             | 0.009            |
| Currently using pill  | 0.052        | 0.008                     | 997               | 1,075            | 1.159                      | 0.157                                   | 0.036             | 0.068            |
| Currently using male condoms  | 0.026        | 0.006                     | 997               | 1,075            | 1.118                      | 0.219                                   | 0.014             | 0.037            |
| Currently using injectables   | 0.328        | 0.017                     | 997               | 1,075            | 1.169                      | 0.053                                   | 0.293             | 0.363            |
| Currently using implants  | 0.081        | 0.014                     | 997               | 1,075            | 1.601                      | 0.171                                   | 0.054             | 0.109            |
| Currently using female sterilisation  | 0.041        | 0.010                     | 997               | 1,075            | 1.602                      | 0.245                                   | 0.021             | 0.061            |
| Currently using withdrawal  | 0.012        | 0.003                     | 997               | 1,075            | 0.953                      | 0.275                                   | 0.005             | 0.018            |
| Currently using rhythm  | 0.000        | 0.000                     | 997               | 1,075            | na                         | na                                      | 0.000             | 0.000            |
| Using public sector source  | 0.892        | 0.021                     | 659               | 685              | 1.716                      | 0.023                                   | 0.850             | 0.933            |
| Want no more children   | 0.384        | 0.020                     | 997               | 1,075            | 1.274                      | 0.051                                   | 0.344             | 0.423            |
| Want to delay next birth at least 2 years   | 0.384        | 0.021                     | 997               | 1,075            | 1.335                      | 0.054                                   | 0.343             | 0.425            |
| Ideal number of children  | 4.422        | 0.068                     | 1,476             | 1,541            | 1.493                      | 0.015                                   | 4.286             | 4.559            |
| Mothers protected against tetanus for last birth  | 0.698        | 0.024                     | 898               | 983              | 1.550                      | 0.034                                   | 0.651             | 0.745            |
| Mothers received antenatal care for last birth  | 0.964        | 0.010                     | 898               | 983              | 1.695                      | 0.011                                   | 0.943             | 0.985            |
| Births with skilled attendant at delivery   | 0.842        | 0.021                     | 1,192             | 1,321            | 1.946                      | 0.025                                   | 0.800             | 0.885            |
| Received 3+ doses of SP/Fansidar  | 0.645        | 0.024                     | 511               | 569              | 1.151                      | 0.037                                   | 0.597             | 0.693            |
| Treated with ORS  | 0.664        | 0.046                     | 170               | 186              | 1.244                      | 0.069                                   | 0.573             | 0.756            |
| Sought medical treatment for diarrhoea  | 0.785        | 0.035                     | 170               | 186              | 1.131                      | 0.044                                   | 0.715             | 0.854            |
| Ever had vaccination card   | 0.984        | 0.009                     | 249               | 274              | 1.205                      | 0.010                                   | 0.966             | 1.003            |
| Received BCG vaccination  | 0.971        | 0.012                     | 249               | 274              | 1.132                      | 0.012                                   | 0.947             | 0.995            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.944        | 0.014                     | 249               | 274              | 0.997                      | 0.015                                   | 0.915             | 0.973            |
| Received birth dose polio 0 vaccination   | 0.555        | 0.035                     | 249               | 274              | 1.100                      | 0.062                                   | 0.485             | 0.624            |
| Received polio vaccination (3 doses)  | 0.846        | 0.027                     | 249               | 274              | 1.208                      | 0.032                                   | 0.791             | 0.900            |
| Received pneumococcal vaccination (3 doses)   | 0.921        | 0.019                     | 249               | 274              | 1.141                      | 0.021                                   | 0.883             | 0.960            |
| Received rotavirus vaccination (2 doses)  | 0.938        | 0.022                     | 249               | 274              | 1.390                      | 0.023                                   | 0.894             | 0.981            |
| Received measles and rubella vaccination  | 0.932        | 0.018                     | 249               | 274              | 1.151                      | 0.020                                   | 0.895             | 0.968            |
| Received all basic vaccinations (12-23 months)  | 0.791        | 0.029                     | 249               | 274              | 1.134                      | 0.037                                   | 0.733             | 0.849            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.424        | 0.030                     | 249               | 274              | 0.953                      | 0.070                                   | 0.365             | 0.484            |
| Received measles 2 vaccination  | 0.707        | 0.043                     | 209               | 232              | 1.312                      | 0.060                                   | 0.622             | 0.792            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.355        | 0.034                     | 209               | 232              | 1.041                      | 0.096                                   | 0.287             | 0.424            |
| Height-for-age (-2 SD)  | 0.342        | 0.015                     | 1,129             | 1,266            | 1.020                      | 0.044                                   | 0.312             | 0.372            |
| Weight-for-height (-2 SD)   | 0.022        | 0.005                     | 1,128             | 1,262            | 1.189                      | 0.227                                   | 0.012             | 0.033            |
| Weight-for-age (-2 SD)  | 0.092        | 0.010                     | 1,132             | 1,269            | 1.085                      | 0.107                                   | 0.072             | 0.111            |
| Prevalence of anaemia (children 6-59 months)  | 0.559        | 0.020                     | 1,013             | 1,134            | 1.287                      | 0.035                                   | 0.519             | 0.598            |
| Prevalence of anaemia (women 15-49)   | 0.276        | 0.017                     | 1,484             | 1,555            | 1.472                      | 0.062                                   | 0.242             | 0.310            |
| Ever experienced any physical violence since age 15   | 0.420        | 0.020                     | 1,108             | 1,095            | 1.342                      | 0.047                                   | 0.380             | 0.460            |
| Ever experienced any sexual violence  | 0.143        | 0.015                     | 1,108             | 1,095            | 1.406                      | 0.104                                   | 0.113             | 0.172            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.412        | 0.019                     | 947               | 875              | 1.213                      | 0.047                                   | 0.373             | 0.451            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.515        | 0.023                     | 947               | 875              | 1.396                      | 0.044                                   | 0.470             | 0.560            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.331        | 0.025                     | 947               | 875              | 1.615                      | 0.075                                   | 0.282             | 0.381            |
| Had 2+ sexual partners in past 12 months  | 0.017        | 0.003                     | 1,536             | 1,605            | 0.981                      | 0.189                                   | 0.011             | 0.024            |
| Condom use at last sex  | 0.341        | 0.107                     | 26                | 28               | 1.119                      | 0.313                                   | 0.128             | 0.554            |
| Abstinance among never-married youth (never had sex)  | 0.414        | 0.038                     | 326               | 319              | 1.378                      | 0.091                                   | 0.339             | 0.490            |
| Had an HIV test and received results in past 12 months  | 0.633        | 0.023                     | 1,536             | 1,605            | 1.870                      | 0.036                                   | 0.587             | 0.679            |
| Discriminatory attitudes towards people living with HIV   | 0.299        | 0.018                     | 1,442             | 1,498            | 1.529                      | 0.062                                   | 0.262             | 0.336            |
| Total fertility rate (last 3 years)   | 5.493        | 0.245                     | 4,303             | 4,489            | 1.440                      | 0.045                                   | 5.003             | 5.983            |
| Neonatal mortality (last 0-9 years)   | 24.889       | 3.523                     | 2,314             | 2,547            | 1.060                      | 0.142                                   | 17.843            | 31.934           |
| Postneonatal mortality (last 0-9 years)   | 15.493       | 2.664                     | 2,314             | 2,546            | 1.055                      | 0.172                                   | 10.164            | 20.822           |
| Infant mortality (last 0-9 years)   | 40.382       | 4.429                     | 2,316             | 2,550            | 1.019                      | 0.110                                   | 31.524            | 49.239           |
| Child mortality (last 0-9 years)  | 24.573       | 3.593                     | 2,272             | 2,502            | 1.120                      | 0.146                                   | 17.388            | 31.759           |
| Under-5 mortality (last 0-9 years)  | 63.963       | 5.432                     | 2,333             | 2,567            | 1.016                      | 0.085                                   | 53.099            | 74.827           |
| HIV prevalence among women 15-49  | 0.101        | 0.010                     | 1,477             | 1,503            | 1.258                      | 0.098                                   | 0.082             | 0.121            |
| HIV prevalence among pregnant women 15-49   | 0.078        | 0.023                     | 138               | 152              | 1.005                      | 0.295                                   | 0.032             | 0.124            |
| HIV prevalence among young women 15-24  | 0.028        | 0.006                     | 640               | 645              | 0.951                      | 0.221                                   | 0.016             | 0.041            |

*Continued...*

**Table B.7—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-SE)   | Upper<br>(R+2SE) |
| <b>MEN</b>  |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.112        | 0.012                     | 1,346             | 1,476            | 1.442                      | 0.111                                   | 0.087             | 0.137            |
| Literacy  | 0.667        | 0.021                     | 1,346             | 1,476            | 1.663                      | 0.032                                   | 0.624             | 0.709            |
| No education  | 0.131        | 0.020                     | 1,346             | 1,476            | 2.151                      | 0.151                                   | 0.092             | 0.171            |
| Secondary or higher education                           | 0.360        | 0.023                     | 1,346             | 1,476            | 1.730                      | 0.063                                   | 0.315             | 0.406            |
| Never married (in union)                                | 0.392        | 0.019                     | 1,346             | 1,476            | 1.445                      | 0.049                                   | 0.354             | 0.431            |
| Currently married (in union)                            | 0.581        | 0.019                     | 1,346             | 1,476            | 1.403                      | 0.033                                   | 0.543             | 0.619            |
| Had first sexual intercourse before age 18              | 0.595        | 0.026                     | 1,030             | 1,130            | 1.723                      | 0.044                                   | 0.542             | 0.648            |
| Knows any contraceptive method                          | 1.000        | 0.000                     | 765               | 857              | na                         | 0.000                                   | 1.000             | 1.000            |
| Knows any modern contraceptive method                   | 1.000        | 0.000                     | 765               | 857              | na                         | 0.000                                   | 1.000             | 1.000            |
| Want no more children                                   | 0.305        | 0.022                     | 765               | 857              | 1.316                      | 0.072                                   | 0.261             | 0.348            |
| Want to delay birth at least 2 years                    | 0.471        | 0.026                     | 765               | 857              | 1.412                      | 0.054                                   | 0.420             | 0.522            |
| Ideal number of children                                | 4.749        | 0.092                     | 1,304             | 1,425            | 1.705                      | 0.019                                   | 4.565             | 4.932            |
| Had 2+ sexual partners in past 12 months                | 0.246        | 0.017                     | 1,346             | 1,476            | 1.489                      | 0.071                                   | 0.211             | 0.281            |
| Condom use at last sex                                  | 0.267        | 0.026                     | 315               | 363              | 1.058                      | 0.099                                   | 0.214             | 0.319            |
| Abstinence among never-married youth (never had sex)    | 0.247        | 0.027                     | 469               | 506              | 1.347                      | 0.109                                   | 0.193             | 0.301            |
| Had paid sex in past 12 months                          | 0.045        | 0.008                     | 1,346             | 1,476            | 1.458                      | 0.182                                   | 0.029             | 0.062            |
| Had HIV test and received results in past 12 months     | 0.537        | 0.018                     | 1,346             | 1,476            | 1.303                      | 0.033                                   | 0.502             | 0.573            |
| Discriminatory attitudes towards people living with HIV | 0.220        | 0.019                     | 1,330             | 1,459            | 1.695                      | 0.088                                   | 0.181             | 0.259            |
| HIV prevalence among men 15-49                          | 0.045        | 0.006                     | 1,283             | 1,443            | 1.032                      | 0.133                                   | 0.033             | 0.057            |
| HIV prevalence among young men 15-24                    | 0.002        | 0.002                     | 557               | 627              | 0.887                      | 0.825                                   | 0.000             | 0.005            |
| HIV prevalence among men 15-59                          | 0.054        | 0.006                     | 1,381             | 1,561            | 0.985                      | 0.111                                   | 0.042             | 0.066            |
| <b>WOMEN AND MEN</b>                                    |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.074        | 0.007                     | 2,760             | 2,946            | 1.331                      | 0.090                                   | 0.061             | 0.087            |
| HIV prevalence among respondents 15-24                  | 0.015        | 0.003                     | 1,197             | 1,273            | 0.898                      | 0.208                                   | 0.009             | 0.022            |

na = Not applicable

**Table B.8 Sampling errors: Luapula sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.837        | 0.018                     | 1,342             | 1,049            | 1.761                      | 0.021                                   | 0.802             | 0.873            |
| De facto population with access to an ITN   | 0.622        | 0.022                     | 6,818             | 5,326            | 2.066                      | 0.035                                   | 0.579             | 0.666            |
| Household population that slept under an ITN last night   | 0.626        | 0.022                     | 6,818             | 5,326            | 1.918                      | 0.035                                   | 0.582             | 0.670            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.235        | 0.022                     | 1,414             | 1,071            | 1.911                      | 0.092                                   | 0.192             | 0.278            |
| Literacy  | 0.504        | 0.030                     | 1,414             | 1,071            | 2.264                      | 0.060                                   | 0.443             | 0.564            |
| No education  | 0.110        | 0.018                     | 1,414             | 1,071            | 2.149                      | 0.163                                   | 0.074             | 0.146            |
| Secondary or higher education   | 0.326        | 0.028                     | 1,414             | 1,071            | 2.270                      | 0.087                                   | 0.269             | 0.383            |
| Never married (never in union)  | 0.298        | 0.016                     | 1,414             | 1,071            | 1.337                      | 0.055                                   | 0.265             | 0.330            |
| Currently married (in union)  | 0.570        | 0.016                     | 1,414             | 1,071            | 1.196                      | 0.028                                   | 0.539             | 0.602            |
| Married before age 18   | 0.411        | 0.023                     | 1,076             | 817              | 1.554                      | 0.057                                   | 0.365             | 0.458            |
| Had sexual intercourse before age 18  | 0.681        | 0.022                     | 1,076             | 817              | 1.564                      | 0.033                                   | 0.637             | 0.726            |
| Currently pregnant  | 0.099        | 0.010                     | 1,414             | 1,071            | 1.230                      | 0.099                                   | 0.079             | 0.119            |
| Know any contraceptive method   | 0.997        | 0.003                     | 794               | 611              | 1.413                      | 0.003                                   | 0.992             | 1.003            |
| Know a modern method  | 0.997        | 0.003                     | 794               | 611              | 1.413                      | 0.003                                   | 0.992             | 1.003            |
| Currently using any method  | 0.391        | 0.026                     | 794               | 611              | 1.487                      | 0.066                                   | 0.339             | 0.442            |
| Currently using a modern method   | 0.386        | 0.025                     | 794               | 611              | 1.464                      | 0.066                                   | 0.335             | 0.436            |
| Currently using IUD   | 0.004        | 0.003                     | 794               | 611              | 1.305                      | 0.712                                   | 0.000             | 0.010            |
| Currently using pill  | 0.038        | 0.009                     | 794               | 611              | 1.373                      | 0.246                                   | 0.019             | 0.056            |
| Currently using male condoms  | 0.010        | 0.004                     | 794               | 611              | 1.062                      | 0.373                                   | 0.003             | 0.018            |
| Currently using injectables   | 0.241        | 0.020                     | 794               | 611              | 1.289                      | 0.081                                   | 0.202             | 0.280            |
| Currently using implants  | 0.071        | 0.017                     | 794               | 611              | 1.823                      | 0.235                                   | 0.038             | 0.104            |
| Currently using female sterilisation  | 0.015        | 0.005                     | 794               | 611              | 1.206                      | 0.351                                   | 0.004             | 0.025            |
| Currently using withdrawal  | 0.001        | 0.001                     | 794               | 611              | 0.738                      | 0.727                                   | 0.000             | 0.003            |
| Currently using rhythm  | 0.003        | 0.002                     | 794               | 611              | 1.075                      | 0.718                                   | 0.000             | 0.007            |
| Using public sector source  | 0.936        | 0.016                     | 410               | 294              | 1.303                      | 0.017                                   | 0.904             | 0.968            |
| Want no more children   | 0.386        | 0.025                     | 794               | 611              | 1.465                      | 0.066                                   | 0.336             | 0.437            |
| Want to delay next birth at least 2 years   | 0.404        | 0.020                     | 794               | 611              | 1.135                      | 0.049                                   | 0.365             | 0.444            |
| Ideal number of children  | 5.188        | 0.083                     | 1,351             | 1,012            | 1.577                      | 0.016                                   | 5.021             | 5.355            |
| Mothers protected against tetanus for last birth  | 0.733        | 0.019                     | 829               | 640              | 1.226                      | 0.026                                   | 0.696             | 0.771            |
| Mothers received antenatal care for last birth  | 0.914        | 0.015                     | 829               | 640              | 1.558                      | 0.017                                   | 0.884             | 0.944            |
| Births with skilled attendant at delivery   | 0.724        | 0.025                     | 1,215             | 950              | 1.674                      | 0.034                                   | 0.674             | 0.774            |
| Received 3+ doses of SP/Fansidar  | 0.587        | 0.045                     | 479               | 375              | 2.036                      | 0.077                                   | 0.497             | 0.678            |
| Treated with ORS  | 0.713        | 0.045                     | 195               | 152              | 1.394                      | 0.063                                   | 0.623             | 0.802            |
| Sought medical treatment for diarrhoea  | 0.800        | 0.041                     | 195               | 152              | 1.422                      | 0.051                                   | 0.718             | 0.882            |
| Ever had vaccination card   | 0.932        | 0.020                     | 228               | 174              | 1.223                      | 0.022                                   | 0.891             | 0.973            |
| Received BCG vaccination  | 0.973        | 0.012                     | 228               | 174              | 1.126                      | 0.012                                   | 0.949             | 0.997            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.913        | 0.023                     | 228               | 174              | 1.242                      | 0.025                                   | 0.867             | 0.960            |
| Received birth dose polio 0 vaccination   | 0.705        | 0.045                     | 228               | 174              | 1.469                      | 0.063                                   | 0.616             | 0.795            |
| Received polio vaccination (3 doses)  | 0.764        | 0.037                     | 228               | 174              | 1.322                      | 0.049                                   | 0.689             | 0.839            |
| Received pneumococcal vaccination (3 doses)   | 0.903        | 0.023                     | 228               | 174              | 1.162                      | 0.025                                   | 0.858             | 0.949            |
| Received rotavirus vaccination (2 doses)  | 0.885        | 0.024                     | 228               | 174              | 1.125                      | 0.027                                   | 0.838             | 0.933            |
| Received measles and rubella vaccination  | 0.908        | 0.027                     | 228               | 174              | 1.395                      | 0.030                                   | 0.854             | 0.961            |
| Received all basic vaccinations (12-23 months)  | 0.667        | 0.047                     | 228               | 174              | 1.494                      | 0.070                                   | 0.573             | 0.761            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.425        | 0.051                     | 228               | 174              | 1.541                      | 0.121                                   | 0.322             | 0.527            |
| Received measles 2 vaccination  | 0.662        | 0.036                     | 223               | 176              | 1.135                      | 0.054                                   | 0.591             | 0.733            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.308        | 0.034                     | 223               | 176              | 1.109                      | 0.110                                   | 0.240             | 0.375            |
| Height-for-age (-2 SD)  | 0.449        | 0.023                     | 1,112             | 892              | 1.469                      | 0.052                                   | 0.402             | 0.495            |
| Weight-for-height (-2 SD)   | 0.062        | 0.013                     | 1,116             | 895              | 1.726                      | 0.216                                   | 0.035             | 0.089            |
| Weight-for-age (-2 SD)  | 0.152        | 0.010                     | 1,128             | 904              | 0.938                      | 0.068                                   | 0.132             | 0.173            |
| Prevalence of anaemia (children 6-59 months)  | 0.707        | 0.021                     | 999               | 796              | 1.451                      | 0.030                                   | 0.664             | 0.749            |
| Prevalence of anaemia (women 15-49)   | 0.298        | 0.015                     | 1,284             | 978              | 1.209                      | 0.052                                   | 0.267             | 0.329            |
| Ever experienced any physical violence since age 15   | 0.440        | 0.035                     | 988               | 745              | 2.199                      | 0.079                                   | 0.371             | 0.510            |
| Ever experienced any sexual violence  | 0.201        | 0.018                     | 988               | 745              | 1.442                      | 0.092                                   | 0.164             | 0.237            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.474        | 0.034                     | 774               | 527              | 1.881                      | 0.071                                   | 0.406             | 0.542            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.581        | 0.035                     | 774               | 527              | 1.993                      | 0.061                                   | 0.510             | 0.652            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.382        | 0.026                     | 774               | 527              | 1.514                      | 0.069                                   | 0.329             | 0.435            |
| Had 2+ sexual partners in past 12 months  | 0.009        | 0.003                     | 1,414             | 1,071            | 1.333                      | 0.363                                   | 0.003             | 0.016            |
| Condom use at last sex  | 0.235        | 0.132                     | 14                | 10               | 1.111                      | 0.561                                   | 0.000             | 0.499            |
| Abstinance among never-married youth (never had sex)  | 0.500        | 0.035                     | 387               | 283              | 1.360                      | 0.069                                   | 0.431             | 0.569            |
| Had an HIV test and received results in past 12 months  | 0.538        | 0.020                     | 1,414             | 1,071            | 1.474                      | 0.036                                   | 0.499             | 0.577            |
| Discriminatory attitudes towards people living with HIV   | 0.466        | 0.022                     | 1,344             | 1,013            | 1.583                      | 0.046                                   | 0.422             | 0.509            |
| Total fertility rate (last 3 years)   | 5.966        | 0.330                     | 3,913             | 2,968            | 1.606                      | 0.055                                   | 5.305             | 6.627            |
| Neonatal mortality (last 0-9 years)   | 32.338       | 4.618                     | 2,334             | 1,811            | 1.140                      | 0.143                                   | 23.102            | 41.575           |
| Postneonatal mortality (last 0-9 years)   | 34.619       | 4.986                     | 2,330             | 1,804            | 1.209                      | 0.144                                   | 24.648            | 44.590           |
| Infant mortality (last 0-9 years)   | 66.957       | 7.197                     | 2,335             | 1,812            | 1.226                      | 0.107                                   | 52.564            | 81.351           |
| Child mortality (last 0-9 years)  | 46.431       | 6.167                     | 2,309             | 1,787            | 1.374                      | 0.133                                   | 34.097            | 58.765           |
| Under-5 mortality (last 0-9 years)  | 110.279      | 9.936                     | 2,351             | 1,824            | 1.373                      | 0.090                                   | 90.408            | 130.150          |
| HIV prevalence among women 15-49  | 0.099        | 0.008                     | 1,272             | 1,003            | 0.977                      | 0.082                                   | 0.083             | 0.116            |
| HIV prevalence among pregnant women 15-49   | 0.059        | 0.029                     | 122               | 99               | 1.354                      | 0.493                                   | 0.001             | 0.117            |
| HIV prevalence among young women 15-24  | 0.063        | 0.012                     | 544               | 424              | 1.115                      | 0.185                                   | 0.040             | 0.086            |

*Continued...*

**Table B.8—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.239        | 0.020                     | 1,140             | 849              | 1.563                      | 0.083                                   | 0.200             | 0.279            |
| Literacy  | 0.804        | 0.018                     | 1,140             | 849              | 1.554                      | 0.023                                   | 0.767             | 0.840            |
| No education  | 0.042        | 0.011                     | 1,140             | 849              | 1.921                      | 0.273                                   | 0.019             | 0.065            |
| Secondary or higher education                           | 0.482        | 0.024                     | 1,140             | 849              | 1.613                      | 0.050                                   | 0.435             | 0.530            |
| Never married (in union)                                | 0.465        | 0.017                     | 1,140             | 849              | 1.172                      | 0.037                                   | 0.431             | 0.500            |
| Currently married (in union)                            | 0.506        | 0.017                     | 1,140             | 849              | 1.160                      | 0.034                                   | 0.471             | 0.540            |
| Had first sexual intercourse before age 18              | 0.432        | 0.021                     | 817               | 611              | 1.209                      | 0.049                                   | 0.390             | 0.474            |
| Knows any contraceptive method                          | 1.000        | 0.000                     | 566               | 429              | na                         | 0.000                                   | 1.000             | 1.000            |
| Knows any modern contraceptive method                   | 1.000        | 0.000                     | 566               | 429              | na                         | 0.000                                   | 1.000             | 1.000            |
| Want no more children                                   | 0.194        | 0.020                     | 566               | 429              | 1.190                      | 0.102                                   | 0.155             | 0.234            |
| Want to delay birth at least 2 years                    | 0.570        | 0.023                     | 566               | 429              | 1.106                      | 0.040                                   | 0.523             | 0.616            |
| Ideal number of children                                | 5.567        | 0.150                     | 1,140             | 849              | 1.669                      | 0.027                                   | 5.268             | 5.867            |
| Had 2+ sexual partners in past 12 months                | 0.090        | 0.012                     | 1,140             | 849              | 1.395                      | 0.132                                   | 0.066             | 0.113            |
| Condom use at last sex                                  | 0.249        | 0.041                     | 98                | 76               | 0.942                      | 0.166                                   | 0.167             | 0.332            |
| Abstinence among never-married youth (never had sex)    | 0.404        | 0.028                     | 478               | 351              | 1.240                      | 0.069                                   | 0.348             | 0.460            |
| Had paid sex in past 12 months                          | 0.064        | 0.011                     | 1,140             | 849              | 1.504                      | 0.171                                   | 0.042             | 0.086            |
| Had HIV test and received results in past 12 months     | 0.417        | 0.022                     | 1,140             | 849              | 1.522                      | 0.053                                   | 0.373             | 0.462            |
| Discriminatory attitudes towards people living with HIV | 0.387        | 0.023                     | 1,123             | 836              | 1.591                      | 0.060                                   | 0.340             | 0.433            |
| HIV prevalence among men 15-49                          | 0.054        | 0.008                     | 1,005             | 832              | 1.126                      | 0.148                                   | 0.038             | 0.070            |
| HIV prevalence among young men 15-24                    | 0.014        | 0.006                     | 481               | 393              | 1.114                      | 0.429                                   | 0.002             | 0.026            |
| HIV prevalence among men 15-59                          | 0.063        | 0.009                     | 1,102             | 918              | 1.194                      | 0.139                                   | 0.046             | 0.081            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.079        | 0.006                     | 2,277             | 1,835            | 1.130                      | 0.081                                   | 0.066             | 0.092            |
| HIV prevalence among respondents 15-24                  | 0.039        | 0.007                     | 1,025             | 816              | 1.137                      | 0.176                                   | 0.025             | 0.053            |

na = Not applicable

**Table B.9 Sampling errors: Lusaka sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.640        | 0.018                     | 1,545             | 2,328            | 1.467                      | 0.028                                   | 0.604             | 0.676            |
| De facto population with access to an ITN   | 0.505        | 0.017                     | 7,014             | 10,591           | 1.481                      | 0.034                                   | 0.471             | 0.539            |
| Household population that slept under an ITN last night   | 0.288        | 0.018                     | 7,014             | 10,591           | 1.607                      | 0.062                                   | 0.253             | 0.324            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.874        | 0.016                     | 1,775             | 2,733            | 2.032                      | 0.018                                   | 0.842             | 0.906            |
| Literacy  | 0.800        | 0.020                     | 1,775             | 2,733            | 2.086                      | 0.025                                   | 0.761             | 0.840            |
| No education  | 0.046        | 0.007                     | 1,775             | 2,733            | 1.351                      | 0.146                                   | 0.033             | 0.060            |
| Secondary or higher education   | 0.671        | 0.026                     | 1,775             | 2,733            | 2.287                      | 0.038                                   | 0.620             | 0.722            |
| Never married (never in union)  | 0.357        | 0.018                     | 1,775             | 2,733            | 1.580                      | 0.050                                   | 0.321             | 0.393            |
| Currently married (in union)  | 0.506        | 0.017                     | 1,775             | 2,733            | 1.412                      | 0.033                                   | 0.473             | 0.540            |
| Married before age 18   | 0.287        | 0.021                     | 1,464             | 2,258            | 1.814                      | 0.075                                   | 0.244             | 0.330            |
| Had sexual intercourse before age 18  | 0.555        | 0.027                     | 1,464             | 2,258            | 2.067                      | 0.048                                   | 0.501             | 0.609            |
| Currently pregnant  | 0.062        | 0.005                     | 1,775             | 2,733            | 0.834                      | 0.077                                   | 0.053             | 0.072            |
| Know any contraceptive method   | 1.000        | 0.000                     | 927               | 1,384            | 0.667                      | 0.000                                   | 0.999             | 1.000            |
| Know a modern method  | 1.000        | 0.000                     | 927               | 1,384            | 0.667                      | 0.000                                   | 0.999             | 1.000            |
| Currently using any method  | 0.565        | 0.022                     | 927               | 1,384            | 1.357                      | 0.039                                   | 0.520             | 0.609            |
| Currently using a modern method   | 0.543        | 0.021                     | 927               | 1,384            | 1.294                      | 0.039                                   | 0.501             | 0.586            |
| Currently using IUD   | 0.016        | 0.004                     | 927               | 1,384            | 1.033                      | 0.270                                   | 0.007             | 0.024            |
| Currently using pill  | 0.117        | 0.011                     | 927               | 1,384            | 1.039                      | 0.094                                   | 0.095             | 0.139            |
| Currently using male condoms  | 0.048        | 0.008                     | 927               | 1,384            | 1.100                      | 0.161                                   | 0.033             | 0.064            |
| Currently using injectables   | 0.246        | 0.020                     | 927               | 1,384            | 1.385                      | 0.080                                   | 0.207             | 0.285            |
| Currently using implants  | 0.084        | 0.014                     | 927               | 1,384            | 1.575                      | 0.171                                   | 0.056             | 0.113            |
| Currently using female sterilisation  | 0.014        | 0.005                     | 927               | 1,384            | 1.178                      | 0.323                                   | 0.005             | 0.023            |
| Currently using withdrawal  | 0.016        | 0.004                     | 927               | 1,384            | 1.035                      | 0.264                                   | 0.008             | 0.025            |
| Currently using rhythm  | 0.005        | 0.003                     | 927               | 1,384            | 1.108                      | 0.512                                   | 0.000             | 0.010            |
| Using public sector source  | 0.797        | 0.024                     | 647               | 982              | 1.531                      | 0.030                                   | 0.749             | 0.846            |
| Want no more children   | 0.411        | 0.018                     | 927               | 1,384            | 1.110                      | 0.044                                   | 0.375             | 0.447            |
| Want to delay next birth at least 2 years   | 0.304        | 0.019                     | 927               | 1,384            | 1.266                      | 0.063                                   | 0.265             | 0.342            |
| Ideal number of children  | 3.971        | 0.058                     | 1,747             | 2,708            | 1.506                      | 0.015                                   | 3.855             | 4.087            |
| Mothers protected against tetanus for last birth  | 0.861        | 0.017                     | 825               | 1,219            | 1.366                      | 0.019                                   | 0.827             | 0.894            |
| Mothers received antenatal care for last birth  | 0.986        | 0.006                     | 825               | 1,219            | 1.354                      | 0.006                                   | 0.975             | 0.997            |
| Births with skilled attendant at delivery   | 0.908        | 0.011                     | 1,050             | 1,532            | 1.075                      | 0.012                                   | 0.887             | 0.930            |
| Received 3+ doses of SP/Fansidar  | 0.618        | 0.027                     | 387               | 558              | 1.076                      | 0.044                                   | 0.563             | 0.672            |
| Treated with ORS  | 0.807        | 0.040                     | 120               | 200              | 1.122                      | 0.050                                   | 0.726             | 0.888            |
| Sought medical treatment for diarrhoea  | 0.613        | 0.062                     | 120               | 200              | 1.443                      | 0.100                                   | 0.490             | 0.737            |
| Ever had vaccination card   | 0.978        | 0.011                     | 191               | 267              | 0.952                      | 0.011                                   | 0.956             | 0.999            |
| Received BCG vaccination  | 0.997        | 0.003                     | 191               | 267              | 0.697                      | 0.003                                   | 0.992             | 1.003            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.946        | 0.020                     | 191               | 267              | 1.167                      | 0.021                                   | 0.907             | 0.986            |
| Received birth dose polio 0 vaccination   | 0.906        | 0.021                     | 191               | 267              | 0.940                      | 0.023                                   | 0.865             | 0.948            |
| Received polio vaccination (3 doses)  | 0.766        | 0.035                     | 191               | 267              | 1.071                      | 0.045                                   | 0.697             | 0.835            |
| Received pneumococcal vaccination (3 doses)   | 0.891        | 0.029                     | 191               | 267              | 1.233                      | 0.033                                   | 0.833             | 0.949            |
| Received rotavirus vaccination (2 doses)  | 0.937        | 0.020                     | 191               | 267              | 0.995                      | 0.021                                   | 0.898             | 0.976            |
| Received measles and rubella vaccination  | 0.947        | 0.019                     | 191               | 267              | 1.093                      | 0.020                                   | 0.910             | 0.984            |
| Received all basic vaccinations (12-23 months)  | 0.729        | 0.034                     | 191               | 267              | 1.019                      | 0.047                                   | 0.660             | 0.798            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.584        | 0.040                     | 191               | 267              | 1.055                      | 0.068                                   | 0.505             | 0.663            |
| Received measles 2 vaccination  | 0.687        | 0.048                     | 205               | 304              | 1.446                      | 0.070                                   | 0.591             | 0.783            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.469        | 0.041                     | 205               | 304              | 1.123                      | 0.087                                   | 0.388             | 0.550            |
| Height-for-age (-2 SD)  | 0.356        | 0.016                     | 1,010             | 1,476            | 0.980                      | 0.045                                   | 0.324             | 0.388            |
| Weight-for-height (-2 SD)   | 0.055        | 0.011                     | 1,005             | 1,463            | 1.421                      | 0.196                                   | 0.033             | 0.076            |
| Weight-for-age (-2 SD)  | 0.106        | 0.015                     | 1,017             | 1,485            | 1.457                      | 0.137                                   | 0.077             | 0.136            |
| Prevalence of anaemia (children 6-59 months)  | 0.579        | 0.025                     | 910               | 1,334            | 1.447                      | 0.044                                   | 0.528             | 0.630            |
| Prevalence of anaemia (women 15-49)   | 0.356        | 0.019                     | 1,745             | 2,686            | 1.696                      | 0.055                                   | 0.317             | 0.395            |
| Ever experienced any physical violence since age 15   | 0.276        | 0.015                     | 1,184             | 1,931            | 1.159                      | 0.055                                   | 0.246             | 0.306            |
| Ever experienced any sexual violence  | 0.075        | 0.010                     | 1,184             | 1,931            | 1.253                      | 0.128                                   | 0.056             | 0.094            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.304        | 0.020                     | 891               | 1,250            | 1.275                      | 0.065                                   | 0.264             | 0.343            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.362        | 0.020                     | 891               | 1,250            | 1.254                      | 0.056                                   | 0.321             | 0.402            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.245        | 0.017                     | 891               | 1,250            | 1.166                      | 0.069                                   | 0.212             | 0.279            |
| Had 2+ sexual partners in past 12 months  | 0.018        | 0.004                     | 1,775             | 2,733            | 1.129                      | 0.199                                   | 0.011             | 0.025            |
| Condom use at last sex  | 0.560        | 0.100                     | 32                | 48               | 1.114                      | 0.178                                   | 0.361             | 0.760            |
| Abstinence among never-married youth (never had sex)  | 0.518        | 0.027                     | 467               | 752              | 1.154                      | 0.052                                   | 0.464             | 0.571            |
| Had an HIV test and received results in past 12 months  | 0.688        | 0.014                     | 1,775             | 2,733            | 1.261                      | 0.020                                   | 0.660             | 0.716            |
| Discriminatory attitudes towards people living with HIV   | 0.224        | 0.020                     | 1,763             | 2,720            | 1.982                      | 0.088                                   | 0.185             | 0.263            |
| Total fertility rate (last 3 years)   | 3.451        | 0.159                     | 5,053             | 7,790            | 1.464                      | 0.046                                   | 3.133             | 3.768            |
| Neonatal mortality (last 0-9 years)   | 27.111       | 5.599                     | 2,048             | 3,021            | 1.286                      | 0.207                                   | 15.913            | 38.309           |
| Postneonatal mortality (last 0-9 years)   | 20.124       | 4.039                     | 2,057             | 3,041            | 1.244                      | 0.201                                   | 12.046            | 28.202           |
| Infant mortality (last 0-9 years)   | 47.235       | 7.696                     | 2,049             | 3,024            | 1.447                      | 0.163                                   | 31.844            | 62.627           |
| Child mortality (last 0-9 years)  | 17.510       | 3.339                     | 2,057             | 3,040            | 1.042                      | 0.191                                   | 10.832            | 24.188           |
| Under-5 mortality (last 0-9 years)  | 63.918       | 7.802                     | 2,060             | 3,037            | 1.280                      | 0.122                                   | 48.313            | 79.523           |
| HIV prevalence among women 15-49  | 0.192        | 0.014                     | 1,745             | 2,560            | 1.446                      | 0.071                                   | 0.165             | 0.219            |
| HIV prevalence among pregnant women 15-49   | 0.202        | 0.057                     | 113               | 162              | 1.497                      | 0.283                                   | 0.088             | 0.317            |
| HIV prevalence among young women 15-24  | 0.055        | 0.011                     | 680               | 1,003            | 1.217                      | 0.194                                   | 0.033             | 0.076            |

*Continued...*

**Table B.9—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.860        | 0.017                     | 1,415             | 2,166            | 1.856                      | 0.020                                   | 0.826             | 0.895            |
| Literacy  | 0.896        | 0.010                     | 1,415             | 2,166            | 1.208                      | 0.011                                   | 0.877             | 0.916            |
| No education  | 0.016        | 0.004                     | 1,415             | 2,166            | 1.101                      | 0.226                                   | 0.009             | 0.024            |
| Secondary or higher education                           | 0.736        | 0.018                     | 1,415             | 2,166            | 1.556                      | 0.025                                   | 0.700             | 0.773            |
| Never married (in union)                                | 0.466        | 0.019                     | 1,415             | 2,166            | 1.444                      | 0.041                                   | 0.428             | 0.505            |
| Currently married (in union)                            | 0.472        | 0.018                     | 1,415             | 2,166            | 1.359                      | 0.038                                   | 0.436             | 0.508            |
| Had first sexual intercourse before age 18              | 0.352        | 0.022                     | 1,123             | 1,719            | 1.550                      | 0.063                                   | 0.308             | 0.396            |
| Knows any contraceptive method                          | 1.000        | 0.000                     | 681               | 1,022            | na                         | 0.000                                   | 1.000             | 1.000            |
| Knows any modern contraceptive method                   | 1.000        | 0.000                     | 681               | 1,022            | na                         | 0.000                                   | 1.000             | 1.000            |
| Want no more children                                   | 0.256        | 0.019                     | 681               | 1,022            | 1.140                      | 0.075                                   | 0.218             | 0.294            |
| Want to delay birth at least 2 years                    | 0.464        | 0.025                     | 681               | 1,022            | 1.286                      | 0.053                                   | 0.415             | 0.513            |
| Ideal number of children                                | 4.146        | 0.067                     | 1,384             | 2,127            | 1.466                      | 0.016                                   | 4.012             | 4.279            |
| Had 2+ sexual partners in past 12 months                | 0.143        | 0.012                     | 1,415             | 2,166            | 1.253                      | 0.082                                   | 0.120             | 0.166            |
| Condom use at last sex                                  | 0.363        | 0.033                     | 195               | 310              | 0.946                      | 0.090                                   | 0.298             | 0.428            |
| Abstinence among never-married youth (never had sex)    | 0.493        | 0.027                     | 498               | 781              | 1.205                      | 0.055                                   | 0.439             | 0.547            |
| Had paid sex in past 12 months                          | 0.064        | 0.010                     | 1,415             | 2,166            | 1.498                      | 0.153                                   | 0.044             | 0.083            |
| Had HIV test and received results in past 12 months     | 0.542        | 0.017                     | 1,415             | 2,166            | 1.309                      | 0.032                                   | 0.507             | 0.576            |
| Discriminatory attitudes towards people living with HIV | 0.160        | 0.014                     | 1,399             | 2,146            | 1.447                      | 0.089                                   | 0.132             | 0.189            |
| HIV prevalence among men 15-49                          | 0.102        | 0.011                     | 1,379             | 2,128            | 1.294                      | 0.104                                   | 0.081             | 0.123            |
| HIV prevalence among young men 15-24                    | 0.050        | 0.012                     | 538               | 837              | 1.256                      | 0.237                                   | 0.026             | 0.074            |
| HIV prevalence among men 15-59                          | 0.104        | 0.010                     | 1,475             | 2,248            | 1.314                      | 0.100                                   | 0.083             | 0.125            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.151        | 0.011                     | 3,124             | 4,688            | 1.667                      | 0.071                                   | 0.130             | 0.172            |
| HIV prevalence among respondents 15-24                  | 0.053        | 0.008                     | 1,218             | 1,840            | 1.299                      | 0.158                                   | 0.036             | 0.069            |

na = Not applicable

**Table B.10 Sampling errors: Muchinga sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.867        | 0.016                     | 1,075             | 710              | 1.511                      | 0.018                                   | 0.836             | 0.898            |
| De facto population with access to an ITN   | 0.658        | 0.017                     | 5,431             | 3,652            | 1.563                      | 0.026                                   | 0.624             | 0.692            |
| Household population that slept under an ITN last night   | 0.563        | 0.015                     | 5,431             | 3,652            | 1.130                      | 0.027                                   | 0.533             | 0.594            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.198        | 0.023                     | 1,183             | 754              | 1.978                      | 0.116                                   | 0.152             | 0.244            |
| Literacy  | 0.522        | 0.040                     | 1,183             | 754              | 2.723                      | 0.076                                   | 0.443             | 0.602            |
| No education  | 0.154        | 0.038                     | 1,183             | 754              | 3.585                      | 0.245                                   | 0.079             | 0.230            |
| Secondary or higher education   | 0.311        | 0.031                     | 1,183             | 754              | 2.325                      | 0.101                                   | 0.248             | 0.373            |
| Never married (never in union)  | 0.250        | 0.018                     | 1,183             | 754              | 1.428                      | 0.072                                   | 0.214             | 0.286            |
| Currently married (in union)  | 0.624        | 0.023                     | 1,183             | 754              | 1.659                      | 0.038                                   | 0.577             | 0.670            |
| Married before age 18   | 0.469        | 0.019                     | 892               | 563              | 1.143                      | 0.041                                   | 0.431             | 0.507            |
| Had sexual intercourse before age 18  | 0.704        | 0.026                     | 892               | 563              | 1.704                      | 0.037                                   | 0.652             | 0.756            |
| Currently pregnant  | 0.085        | 0.009                     | 1,183             | 754              | 1.093                      | 0.105                                   | 0.067             | 0.102            |
| Know any contraceptive method   | 1.000        | 0.000                     | 723               | 470              | na                         | 0.000                                   | 1.000             | 1.000            |
| Know a modern method  | 1.000        | 0.000                     | 723               | 470              | na                         | 0.000                                   | 1.000             | 1.000            |
| Currently using any method  | 0.580        | 0.024                     | 723               | 470              | 1.297                      | 0.041                                   | 0.533             | 0.628            |
| Currently using a modern method   | 0.520        | 0.024                     | 723               | 470              | 1.309                      | 0.047                                   | 0.471             | 0.569            |
| Currently using IUD   | 0.005        | 0.002                     | 723               | 470              | 0.937                      | 0.500                                   | 0.000             | 0.010            |
| Currently using pill  | 0.069        | 0.009                     | 723               | 470              | 0.940                      | 0.128                                   | 0.051             | 0.087            |
| Currently using male condoms  | 0.035        | 0.010                     | 723               | 470              | 1.439                      | 0.283                                   | 0.015             | 0.054            |
| Currently using injectables   | 0.235        | 0.024                     | 723               | 470              | 1.491                      | 0.100                                   | 0.188             | 0.282            |
| Currently using implants  | 0.135        | 0.016                     | 723               | 470              | 1.236                      | 0.116                                   | 0.104             | 0.167            |
| Currently using female sterilisation  | 0.017        | 0.005                     | 723               | 470              | 0.999                      | 0.286                                   | 0.007             | 0.026            |
| Currently using withdrawal  | 0.055        | 0.010                     | 723               | 470              | 1.232                      | 0.190                                   | 0.034             | 0.076            |
| Currently using rhythm  | 0.003        | 0.002                     | 723               | 470              | 0.974                      | 0.720                                   | 0.000             | 0.006            |
| Using public sector source  | 0.922        | 0.016                     | 420               | 263              | 1.197                      | 0.017                                   | 0.891             | 0.953            |
| Want no more children   | 0.413        | 0.020                     | 723               | 470              | 1.118                      | 0.050                                   | 0.372             | 0.454            |
| Want to delay next birth at least 2 years   | 0.408        | 0.022                     | 723               | 470              | 1.188                      | 0.053                                   | 0.364             | 0.451            |
| Ideal number of children  | 4.868        | 0.082                     | 1,174             | 748              | 1.442                      | 0.017                                   | 4.704             | 5.031            |
| Mothers protected against tetanus for last birth  | 0.782        | 0.040                     | 661               | 433              | 2.506                      | 0.051                                   | 0.702             | 0.862            |
| Mothers received antenatal care for last birth  | 0.930        | 0.041                     | 661               | 433              | 4.168                      | 0.044                                   | 0.847             | 1.013            |
| Births with skilled attendant at delivery   | 0.749        | 0.050                     | 916               | 605              | 2.846                      | 0.066                                   | 0.650             | 0.849            |
| Received 3+ doses of SP/Fansidar  | 0.520        | 0.039                     | 339               | 227              | 1.480                      | 0.076                                   | 0.442             | 0.599            |
| Treated with ORS  | 0.544        | 0.067                     | 159               | 105              | 1.631                      | 0.123                                   | 0.410             | 0.678            |
| Sought medical treatment for diarrhoea  | 0.616        | 0.077                     | 159               | 105              | 1.949                      | 0.124                                   | 0.462             | 0.769            |
| Ever had vaccination card   | 0.957        | 0.031                     | 164               | 113              | 1.998                      | 0.032                                   | 0.895             | 1.018            |
| Received BCG vaccination  | 0.934        | 0.032                     | 164               | 113              | 1.682                      | 0.034                                   | 0.871             | 0.998            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.868        | 0.061                     | 164               | 113              | 2.370                      | 0.070                                   | 0.746             | 0.990            |
| Received birth dose polio 0 vaccination   | 0.512        | 0.063                     | 164               | 113              | 1.632                      | 0.124                                   | 0.385             | 0.639            |
| Received polio vaccination (3 doses)  | 0.760        | 0.060                     | 164               | 113              | 1.847                      | 0.079                                   | 0.640             | 0.880            |
| Received pneumococcal vaccination (3 doses)   | 0.863        | 0.061                     | 164               | 113              | 2.329                      | 0.070                                   | 0.742             | 0.985            |
| Received rotavirus vaccination (2 doses)  | 0.884        | 0.052                     | 164               | 113              | 2.148                      | 0.059                                   | 0.779             | 0.988            |
| Received measles and rubella vaccination  | 0.854        | 0.054                     | 164               | 113              | 2.006                      | 0.063                                   | 0.746             | 0.962            |
| Received all basic vaccinations (12-23 months)  | 0.679        | 0.059                     | 164               | 113              | 1.651                      | 0.087                                   | 0.561             | 0.797            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.339        | 0.059                     | 164               | 113              | 1.612                      | 0.175                                   | 0.220             | 0.458            |
| Received measles 2 vaccination  | 0.599        | 0.054                     | 190               | 123              | 1.506                      | 0.090                                   | 0.491             | 0.707            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.276        | 0.048                     | 190               | 123              | 1.466                      | 0.174                                   | 0.180             | 0.372            |
| Height-for-age (-2 SD)  | 0.321        | 0.023                     | 856               | 595              | 1.434                      | 0.072                                   | 0.275             | 0.368            |
| Weight-for-height (-2 SD)   | 0.082        | 0.015                     | 857               | 597              | 1.429                      | 0.177                                   | 0.053             | 0.111            |
| Weight-for-age (-2 SD)  | 0.153        | 0.015                     | 868               | 604              | 1.202                      | 0.098                                   | 0.123             | 0.183            |
| Prevalence of anaemia (children 6-59 months)  | 0.535        | 0.030                     | 770               | 535              | 1.640                      | 0.056                                   | 0.475             | 0.595            |
| Prevalence of anaemia (women 15-49)   | 0.276        | 0.028                     | 1,167             | 745              | 2.109                      | 0.100                                   | 0.221             | 0.331            |
| Ever experienced any physical violence since age 15   | 0.531        | 0.027                     | 839               | 535              | 1.542                      | 0.050                                   | 0.478             | 0.584            |
| Ever experienced any sexual violence  | 0.242        | 0.026                     | 839               | 535              | 1.747                      | 0.107                                   | 0.190             | 0.294            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.578        | 0.030                     | 695               | 412              | 1.587                      | 0.051                                   | 0.519             | 0.638            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.689        | 0.026                     | 695               | 412              | 1.492                      | 0.038                                   | 0.636             | 0.741            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.463        | 0.022                     | 695               | 412              | 1.172                      | 0.048                                   | 0.419             | 0.508            |
| Had 2+ sexual partners in past 12 months  | 0.016        | 0.004                     | 1,183             | 754              | 1.006                      | 0.229                                   | 0.009             | 0.023            |
| Condom use at last sex  | 0.368        | 0.112                     | 21                | 12               | 1.034                      | 0.304                                   | 0.144             | 0.591            |
| Abstinance among never-married youth (never had sex)  | 0.622        | 0.039                     | 290               | 180              | 1.363                      | 0.063                                   | 0.544             | 0.700            |
| Had an HIV test and received results in past 12 months  | 0.474        | 0.034                     | 1,183             | 754              | 2.361                      | 0.073                                   | 0.405             | 0.542            |
| Discriminatory attitudes towards people living with HIV   | 0.357        | 0.025                     | 1,174             | 747              | 1.792                      | 0.070                                   | 0.307             | 0.407            |
| Total fertility rate (last 3 years)   | 5.666        | 0.314                     | 3,253             | 2,066            | 1.286                      | 0.055                                   | 5.039             | 6.294            |
| Neonatal mortality (last 0-9 years)   | 32.542       | 6.187                     | 1,857             | 1,218            | 1.253                      | 0.190                                   | 20.167            | 44.916           |
| Postneonatal mortality (last 0-9 years)   | 18.171       | 4.147                     | 1,869             | 1,224            | 1.358                      | 0.228                                   | 9.877             | 26.464           |
| Infant mortality (last 0-9 years)   | 50.712       | 7.250                     | 1,861             | 1,220            | 1.289                      | 0.143                                   | 36.212            | 65.213           |
| Child mortality (last 0-9 years)  | 25.487       | 4.223                     | 1,868             | 1,226            | 1.118                      | 0.166                                   | 17.040            | 33.933           |
| Under-5 mortality (last 0-9 years)  | 74.907       | 8.400                     | 1,873             | 1,228            | 1.282                      | 0.112                                   | 58.108            | 91.706           |
| HIV prevalence among women 15-49  | 0.064        | 0.009                     | 1,166             | 707              | 1.264                      | 0.142                                   | 0.046             | 0.082            |
| HIV prevalence among pregnant women 15-49   | 0.082        | 0.023                     | 99                | 60               | 0.833                      | 0.282                                   | 0.036             | 0.128            |
| HIV prevalence among young women 15-24  | 0.015        | 0.006                     | 492               | 301              | 1.120                      | 0.408                                   | 0.003             | 0.027            |

*Continued...*

**Table B.10—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.198        | 0.024                     | 968               | 599              | 1.873                      | 0.121                                   | 0.150             | 0.246            |
| Literacy  | 0.766        | 0.023                     | 968               | 599              | 1.657                      | 0.029                                   | 0.721             | 0.811            |
| No education  | 0.034        | 0.012                     | 968               | 599              | 2.015                      | 0.346                                   | 0.010             | 0.057            |
| Secondary or higher education                           | 0.492        | 0.034                     | 968               | 599              | 2.117                      | 0.069                                   | 0.424             | 0.560            |
| Never married (in union)                                | 0.414        | 0.019                     | 968               | 599              | 1.188                      | 0.045                                   | 0.376             | 0.452            |
| Currently married (in union)                            | 0.554        | 0.020                     | 968               | 599              | 1.278                      | 0.037                                   | 0.514             | 0.595            |
| Had first sexual intercourse before age 18              | 0.357        | 0.024                     | 687               | 426              | 1.305                      | 0.067                                   | 0.309             | 0.405            |
| Knows any contraceptive method                          | 0.984        | 0.007                     | 527               | 332              | 1.229                      | 0.007                                   | 0.971             | 0.998            |
| Knows any modern contraceptive method                   | 0.984        | 0.007                     | 527               | 332              | 1.229                      | 0.007                                   | 0.971             | 0.998            |
| Want no more children                                   | 0.350        | 0.020                     | 527               | 332              | 0.949                      | 0.056                                   | 0.310             | 0.389            |
| Want to delay birth at least 2 years                    | 0.363        | 0.027                     | 527               | 332              | 1.294                      | 0.075                                   | 0.309             | 0.417            |
| Ideal number of children                                | 4.814        | 0.132                     | 964               | 597              | 1.648                      | 0.027                                   | 4.550             | 5.078            |
| Had 2+ sexual partners in past 12 months                | 0.108        | 0.013                     | 968               | 599              | 1.326                      | 0.123                                   | 0.081             | 0.134            |
| Condom use at last sex                                  | 0.181        | 0.043                     | 107               | 64               | 1.136                      | 0.235                                   | 0.096             | 0.266            |
| Abstinence among never-married youth (never had sex)    | 0.553        | 0.040                     | 369               | 225              | 1.533                      | 0.072                                   | 0.474             | 0.633            |
| Had paid sex in past 12 months                          | 0.061        | 0.010                     | 968               | 599              | 1.330                      | 0.167                                   | 0.041             | 0.082            |
| Had HIV test and received results in past 12 months     | 0.380        | 0.034                     | 968               | 599              | 2.185                      | 0.090                                   | 0.312             | 0.448            |
| Discriminatory attitudes towards people living with HIV | 0.220        | 0.024                     | 961               | 595              | 1.762                      | 0.107                                   | 0.173             | 0.268            |
| HIV prevalence among men 15-49                          | 0.043        | 0.008                     | 937               | 587              | 1.253                      | 0.192                                   | 0.027             | 0.060            |
| HIV prevalence among young men 15-24                    | 0.005        | 0.003                     | 423               | 263              | 0.997                      | 0.690                                   | 0.000             | 0.012            |
| HIV prevalence among men 15-59                          | 0.052        | 0.009                     | 1,040             | 652              | 1.244                      | 0.165                                   | 0.035             | 0.069            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.054        | 0.008                     | 2,103             | 1,293            | 1.527                      | 0.139                                   | 0.039             | 0.070            |
| HIV prevalence among respondents 15-24                  | 0.010        | 0.004                     | 915               | 564              | 1.081                      | 0.349                                   | 0.003             | 0.018            |

na = Not applicable

**Table B.11 Sampling errors: Northern sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.822        | 0.016                     | 1,246             | 1,081            | 1.486                      | 0.020                                   | 0.790             | 0.855            |
| De facto population with access to an ITN   | 0.630        | 0.020                     | 6,152             | 5,333            | 1.882                      | 0.032                                   | 0.589             | 0.670            |
| Household population that slept under an ITN last night   | 0.579        | 0.023                     | 6,152             | 5,333            | 1.854                      | 0.040                                   | 0.533             | 0.626            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.202        | 0.027                     | 1,239             | 1,054            | 2.381                      | 0.135                                   | 0.148             | 0.256            |
| Literacy  | 0.473        | 0.025                     | 1,239             | 1,054            | 1.793                      | 0.054                                   | 0.422             | 0.524            |
| No education  | 0.109        | 0.017                     | 1,239             | 1,054            | 1.896                      | 0.154                                   | 0.076             | 0.143            |
| Secondary or higher education   | 0.280        | 0.027                     | 1,239             | 1,054            | 2.100                      | 0.096                                   | 0.226             | 0.334            |
| Never married (never in union)  | 0.259        | 0.015                     | 1,239             | 1,054            | 1.170                      | 0.056                                   | 0.230             | 0.288            |
| Currently married (in union)  | 0.634        | 0.016                     | 1,239             | 1,054            | 1.201                      | 0.026                                   | 0.601             | 0.667            |
| Married before age 18   | 0.497        | 0.021                     | 949               | 806              | 1.315                      | 0.043                                   | 0.454             | 0.539            |
| Had sexual intercourse before age 18  | 0.674        | 0.022                     | 949               | 806              | 1.423                      | 0.032                                   | 0.631             | 0.718            |
| Currently pregnant  | 0.084        | 0.008                     | 1,239             | 1,054            | 1.027                      | 0.096                                   | 0.068             | 0.100            |
| Know any contraceptive method   | 0.990        | 0.006                     | 758               | 668              | 1.720                      | 0.006                                   | 0.978             | 1.003            |
| Know a modern method  | 0.986        | 0.007                     | 758               | 668              | 1.657                      | 0.007                                   | 0.971             | 1.000            |
| Currently using any method  | 0.439        | 0.028                     | 758               | 668              | 1.555                      | 0.064                                   | 0.383             | 0.496            |
| Currently using a modern method   | 0.365        | 0.030                     | 758               | 668              | 1.723                      | 0.083                                   | 0.305             | 0.425            |
| Currently using IUD   | 0.005        | 0.005                     | 758               | 668              | 1.944                      | 0.991                                   | 0.000             | 0.015            |
| Currently using pill  | 0.054        | 0.011                     | 758               | 668              | 1.283                      | 0.195                                   | 0.033             | 0.075            |
| Currently using male condoms  | 0.011        | 0.004                     | 758               | 668              | 1.112                      | 0.377                                   | 0.003             | 0.020            |
| Currently using injectables   | 0.228        | 0.022                     | 758               | 668              | 1.425                      | 0.095                                   | 0.184             | 0.271            |
| Currently using implants  | 0.061        | 0.013                     | 758               | 668              | 1.466                      | 0.209                                   | 0.036             | 0.087            |
| Currently using female sterilisation  | 0.003        | 0.001                     | 758               | 668              | 0.763                      | 0.520                                   | 0.000             | 0.006            |
| Currently using withdrawal  | 0.071        | 0.013                     | 758               | 668              | 1.359                      | 0.178                                   | 0.046             | 0.097            |
| Currently using rhythm  | 0.000        | 0.000                     | 758               | 668              | na                         | na                                      | 0.000             | 0.000            |
| Using public sector source  | 0.956        | 0.013                     | 323               | 276              | 1.098                      | 0.013                                   | 0.931             | 0.981            |
| Want no more children   | 0.335        | 0.020                     | 758               | 668              | 1.167                      | 0.060                                   | 0.295             | 0.375            |
| Want to delay next birth at least 2 years   | 0.441        | 0.023                     | 758               | 668              | 1.297                      | 0.053                                   | 0.394             | 0.488            |
| Ideal number of children  | 5.089        | 0.091                     | 1,198             | 1,021            | 1.483                      | 0.018                                   | 4.908             | 5.271            |
| Mothers protected against tetanus for last birth  | 0.774        | 0.024                     | 692               | 615              | 1.515                      | 0.031                                   | 0.726             | 0.821            |
| Mothers received antenatal care for last birth  | 0.984        | 0.007                     | 692               | 615              | 1.373                      | 0.007                                   | 0.971             | 0.997            |
| Births with skilled attendant at delivery   | 0.700        | 0.045                     | 1,006             | 890              | 2.636                      | 0.065                                   | 0.610             | 0.791            |
| Received 3+ doses of SP/Fansidar  | 0.638        | 0.033                     | 401               | 347              | 1.365                      | 0.051                                   | 0.573             | 0.704            |
| Treated with ORS  | 0.667        | 0.044                     | 141               | 118              | 1.070                      | 0.066                                   | 0.579             | 0.754            |
| Sought medical treatment for diarrhoea  | 0.693        | 0.047                     | 141               | 118              | 1.153                      | 0.067                                   | 0.599             | 0.786            |
| Ever had vaccination card   | 0.970        | 0.018                     | 188               | 155              | 1.439                      | 0.019                                   | 0.933             | 1.007            |
| Received BCG vaccination  | 0.962        | 0.019                     | 188               | 155              | 1.325                      | 0.020                                   | 0.925             | 1.000            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.887        | 0.041                     | 188               | 155              | 1.747                      | 0.047                                   | 0.804             | 0.970            |
| Received birth dose polio 0 vaccination   | 0.538        | 0.050                     | 188               | 155              | 1.352                      | 0.094                                   | 0.437             | 0.639            |
| Received polio vaccination (3 doses)  | 0.817        | 0.048                     | 188               | 155              | 1.676                      | 0.059                                   | 0.720             | 0.914            |
| Received pneumococcal vaccination (3 doses)   | 0.858        | 0.040                     | 188               | 155              | 1.533                      | 0.047                                   | 0.778             | 0.938            |
| Received rotavirus vaccination (2 doses)  | 0.887        | 0.035                     | 188               | 155              | 1.462                      | 0.039                                   | 0.817             | 0.956            |
| Received measles and rubella vaccination  | 0.885        | 0.026                     | 188               | 155              | 1.096                      | 0.030                                   | 0.833             | 0.938            |
| Received all basic vaccinations (12-23 months)  | 0.762        | 0.047                     | 188               | 155              | 1.464                      | 0.061                                   | 0.669             | 0.856            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.430        | 0.047                     | 188               | 155              | 1.262                      | 0.109                                   | 0.336             | 0.523            |
| Received measles 2 vaccination  | 0.515        | 0.056                     | 183               | 176              | 1.569                      | 0.108                                   | 0.404             | 0.627            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.246        | 0.054                     | 183               | 176              | 1.764                      | 0.217                                   | 0.139             | 0.354            |
| Height-for-age (-2 SD)  | 0.458        | 0.019                     | 962               | 860              | 1.171                      | 0.041                                   | 0.420             | 0.496            |
| Weight-for-height (-2 SD)   | 0.031        | 0.005                     | 960               | 860              | 0.964                      | 0.170                                   | 0.020             | 0.041            |
| Weight-for-age (-2 SD)  | 0.141        | 0.013                     | 981               | 876              | 1.109                      | 0.092                                   | 0.115             | 0.167            |
| Prevalence of anaemia (children 6-59 months)  | 0.613        | 0.024                     | 868               | 773              | 1.434                      | 0.039                                   | 0.564             | 0.661            |
| Prevalence of anaemia (women 15-49)   | 0.280        | 0.020                     | 1,228             | 1,048            | 1.549                      | 0.071                                   | 0.241             | 0.320            |
| Ever experienced any physical violence since age 15   | 0.339        | 0.020                     | 916               | 727              | 1.271                      | 0.059                                   | 0.299             | 0.379            |
| Ever experienced any sexual violence  | 0.192        | 0.026                     | 916               | 727              | 2.004                      | 0.136                                   | 0.140             | 0.244            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.409        | 0.031                     | 743               | 535              | 1.696                      | 0.075                                   | 0.347             | 0.470            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.511        | 0.027                     | 743               | 535              | 1.457                      | 0.052                                   | 0.458             | 0.565            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.302        | 0.021                     | 743               | 535              | 1.242                      | 0.069                                   | 0.260             | 0.344            |
| Had 2+ sexual partners in past 12 months  | 0.015        | 0.003                     | 1,239             | 1,054            | 0.999                      | 0.231                                   | 0.008             | 0.022            |
| Condom use at last sex  | 0.480        | 0.140                     | 20                | 16               | 1.209                      | 0.292                                   | 0.199             | 0.760            |
| Abstinance among never-married youth (never had sex)  | 0.597        | 0.042                     | 304               | 251              | 1.475                      | 0.070                                   | 0.514             | 0.680            |
| Had an HIV test and received results in past 12 months  | 0.537        | 0.024                     | 1,239             | 1,054            | 1.708                      | 0.045                                   | 0.488             | 0.585            |
| Discriminatory attitudes towards people living with HIV   | 0.431        | 0.026                     | 1,178             | 1,001            | 1.816                      | 0.061                                   | 0.378             | 0.483            |
| Total fertility rate (last 3 years)   | 5.562        | 0.307                     | 3,428             | 2,919            | 1.384                      | 0.055                                   | 4.947             | 6.176            |
| Neonatal mortality (last 0-9 years)   | 22.080       | 4.258                     | 1,996             | 1,758            | 1.221                      | 0.193                                   | 13.565            | 30.596           |
| Postneonatal mortality (last 0-9 years)   | 16.449       | 4.414                     | 1,991             | 1,751            | 1.438                      | 0.268                                   | 7.621             | 25.278           |
| Infant mortality (last 0-9 years)   | 38.530       | 7.537                     | 1,997             | 1,758            | 1.593                      | 0.196                                   | 23.455            | 53.604           |
| Child mortality (last 0-9 years)  | 28.090       | 5.979                     | 1,979             | 1,741            | 1.446                      | 0.213                                   | 16.132            | 40.048           |
| Under-5 mortality (last 0-9 years)  | 65.537       | 11.308                    | 2,012             | 1,772            | 1.776                      | 0.173                                   | 42.921            | 88.154           |
| HIV prevalence among women 15-49  | 0.067        | 0.010                     | 1,224             | 987              | 1.458                      | 0.155                                   | 0.046             | 0.088            |
| HIV prevalence among pregnant women 15-49   | 0.040        | 0.023                     | 100               | 84               | 1.154                      | 0.572                                   | 0.000             | 0.085            |
| HIV prevalence among young women 15-24  | 0.036        | 0.008                     | 536               | 430              | 1.044                      | 0.233                                   | 0.019             | 0.053            |

*Continued...*

**Table B.11—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.222        | 0.035                     | 976               | 855              | 2.649                      | 0.159                                   | 0.151             | 0.293            |
| Literacy  | 0.830        | 0.019                     | 976               | 855              | 1.598                      | 0.023                                   | 0.791             | 0.868            |
| No education  | 0.035        | 0.007                     | 976               | 855              | 1.240                      | 0.209                                   | 0.020             | 0.049            |
| Secondary or higher education                           | 0.477        | 0.030                     | 976               | 855              | 1.892                      | 0.063                                   | 0.417             | 0.538            |
| Never married (in union)                                | 0.429        | 0.020                     | 976               | 855              | 1.272                      | 0.047                                   | 0.389             | 0.470            |
| Currently married (in union)                            | 0.556        | 0.020                     | 976               | 855              | 1.251                      | 0.036                                   | 0.516             | 0.595            |
| Had first sexual intercourse before age 18              | 0.468        | 0.033                     | 727               | 628              | 1.762                      | 0.070                                   | 0.403             | 0.534            |
| Knows any contraceptive method                          | 1.000        | 0.000                     | 536               | 475              | na                         | 0.000                                   | 1.000             | 1.000            |
| Knows any modern contraceptive method                   | 1.000        | 0.000                     | 536               | 475              | na                         | 0.000                                   | 1.000             | 1.000            |
| Want no more children                                   | 0.269        | 0.022                     | 536               | 475              | 1.155                      | 0.082                                   | 0.224             | 0.313            |
| Want to delay birth at least 2 years                    | 0.540        | 0.019                     | 536               | 475              | 0.861                      | 0.034                                   | 0.502             | 0.577            |
| Ideal number of children                                | 5.327        | 0.108                     | 961               | 841              | 1.743                      | 0.020                                   | 5.111             | 5.544            |
| Had 2+ sexual partners in past 12 months                | 0.111        | 0.014                     | 976               | 855              | 1.427                      | 0.129                                   | 0.083             | 0.140            |
| Condom use at last sex                                  | 0.233        | 0.038                     | 110               | 95               | 0.946                      | 0.164                                   | 0.157             | 0.310            |
| Abstinence among never-married youth (never had sex)    | 0.466        | 0.037                     | 370               | 325              | 1.430                      | 0.080                                   | 0.392             | 0.540            |
| Had paid sex in past 12 months                          | 0.027        | 0.006                     | 976               | 855              | 1.223                      | 0.234                                   | 0.014             | 0.040            |
| Had HIV test and received results in past 12 months     | 0.434        | 0.020                     | 976               | 855              | 1.250                      | 0.046                                   | 0.394             | 0.473            |
| Discriminatory attitudes towards people living with HIV | 0.292        | 0.028                     | 969               | 850              | 1.906                      | 0.096                                   | 0.236             | 0.348            |
| HIV prevalence among men 15-49                          | 0.044        | 0.010                     | 960               | 837              | 1.459                      | 0.221                                   | 0.024             | 0.063            |
| HIV prevalence among young men 15-24                    | 0.018        | 0.008                     | 415               | 358              | 1.207                      | 0.434                                   | 0.002             | 0.034            |
| HIV prevalence among men 15-59                          | 0.045        | 0.009                     | 1,072             | 929              | 1.416                      | 0.200                                   | 0.027             | 0.063            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.056        | 0.009                     | 2,184             | 1,824            | 1.853                      | 0.162                                   | 0.038             | 0.075            |
| HIV prevalence among respondents 15-24                  | 0.028        | 0.005                     | 951               | 788              | 0.970                      | 0.185                                   | 0.018             | 0.038            |

na = Not applicable

**Table B.12 Sampling errors: North Western sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.784        | 0.033                     | 1,010             | 685              | 2.546                      | 0.042                                   | 0.718             | 0.850            |
| De facto population with access to an ITN   | 0.602        | 0.036                     | 4,826             | 3,313            | 2.664                      | 0.059                                   | 0.531             | 0.673            |
| Household population that slept under an ITN last night   | 0.453        | 0.032                     | 4,826             | 3,313            | 2.206                      | 0.070                                   | 0.390             | 0.516            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.245        | 0.034                     | 1,081             | 718              | 2.624                      | 0.140                                   | 0.176             | 0.314            |
| Literacy  | 0.644        | 0.025                     | 1,081             | 718              | 1.741                      | 0.039                                   | 0.594             | 0.695            |
| No education  | 0.078        | 0.013                     | 1,081             | 718              | 1.549                      | 0.162                                   | 0.053             | 0.103            |
| Secondary or higher education   | 0.528        | 0.029                     | 1,081             | 718              | 1.884                      | 0.054                                   | 0.471             | 0.586            |
| Never married (never in union)  | 0.379        | 0.022                     | 1,081             | 718              | 1.492                      | 0.058                                   | 0.335             | 0.423            |
| Currently married (in union)  | 0.500        | 0.023                     | 1,081             | 718              | 1.535                      | 0.047                                   | 0.453             | 0.547            |
| Married before age 18   | 0.282        | 0.025                     | 808               | 531              | 1.606                      | 0.090                                   | 0.231             | 0.333            |
| Had sexual intercourse before age 18  | 0.797        | 0.029                     | 808               | 531              | 2.010                      | 0.036                                   | 0.740             | 0.854            |
| Currently pregnant  | 0.079        | 0.014                     | 1,081             | 718              | 1.664                      | 0.173                                   | 0.052             | 0.107            |
| Know any contraceptive method   | 0.998        | 0.002                     | 537               | 359              | 1.006                      | 0.002                                   | 0.994             | 1.002            |
| Know a modern method  | 0.998        | 0.002                     | 537               | 359              | 1.006                      | 0.002                                   | 0.994             | 1.002            |
| Currently using any method  | 0.468        | 0.027                     | 537               | 359              | 1.269                      | 0.058                                   | 0.413             | 0.523            |
| Currently using a modern method   | 0.459        | 0.027                     | 537               | 359              | 1.277                      | 0.060                                   | 0.404             | 0.514            |
| Currently using IUD   | 0.001        | 0.001                     | 537               | 359              | 0.805                      | 1.007                                   | 0.000             | 0.004            |
| Currently using pill  | 0.066        | 0.014                     | 537               | 359              | 1.331                      | 0.217                                   | 0.037             | 0.094            |
| Currently using male condoms  | 0.014        | 0.006                     | 537               | 359              | 1.226                      | 0.446                                   | 0.002             | 0.026            |
| Currently using injectables   | 0.250        | 0.025                     | 537               | 359              | 1.343                      | 0.100                                   | 0.200             | 0.301            |
| Currently using implants  | 0.078        | 0.010                     | 537               | 359              | 0.882                      | 0.131                                   | 0.057             | 0.098            |
| Currently using female sterilisation  | 0.049        | 0.013                     | 537               | 359              | 1.447                      | 0.277                                   | 0.022             | 0.076            |
| Currently using withdrawal  | 0.005        | 0.003                     | 537               | 359              | 0.892                      | 0.544                                   | 0.000             | 0.010            |
| Currently using rhythm  | 0.000        | 0.000                     | 537               | 359              | na                         | na                                      | 0.000             | 0.000            |
| Using public sector source  | 0.862        | 0.036                     | 387               | 253              | 2.041                      | 0.042                                   | 0.790             | 0.934            |
| Want no more children   | 0.326        | 0.023                     | 537               | 359              | 1.155                      | 0.072                                   | 0.279             | 0.373            |
| Want to delay next birth at least 2 years   | 0.367        | 0.023                     | 537               | 359              | 1.099                      | 0.062                                   | 0.322             | 0.413            |
| Ideal number of children  | 4.832        | 0.092                     | 1,060             | 702              | 1.693                      | 0.019                                   | 4.648             | 5.016            |
| Mothers protected against tetanus for last birth  | 0.852        | 0.020                     | 609               | 404              | 1.427                      | 0.024                                   | 0.811             | 0.893            |
| Mothers received antenatal care for last birth  | 0.972        | 0.008                     | 609               | 404              | 1.164                      | 0.008                                   | 0.957             | 0.988            |
| Births with skilled attendant at delivery   | 0.790        | 0.037                     | 800               | 531              | 2.258                      | 0.047                                   | 0.716             | 0.864            |
| Received 3+ doses of SP/Fansidar  | 0.643        | 0.031                     | 324               | 219              | 1.182                      | 0.048                                   | 0.581             | 0.705            |
| Treated with ORS  | 0.623        | 0.077                     | 107               | 78               | 1.676                      | 0.124                                   | 0.468             | 0.778            |
| Sought medical treatment for diarrhoea  | 0.752        | 0.062                     | 107               | 78               | 1.461                      | 0.082                                   | 0.628             | 0.876            |
| Ever had vaccination card   | 0.945        | 0.029                     | 156               | 109              | 1.627                      | 0.031                                   | 0.887             | 1.003            |
| Received BCG vaccination  | 0.981        | 0.015                     | 156               | 109              | 1.373                      | 0.015                                   | 0.951             | 1.010            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.906        | 0.027                     | 156               | 109              | 1.188                      | 0.030                                   | 0.852             | 0.960            |
| Received birth dose polio 0 vaccination   | 0.660        | 0.053                     | 156               | 109              | 1.419                      | 0.080                                   | 0.554             | 0.766            |
| Received polio vaccination (3 doses)  | 0.813        | 0.032                     | 156               | 109              | 1.061                      | 0.040                                   | 0.749             | 0.878            |
| Received pneumococcal vaccination (3 doses)   | 0.883        | 0.040                     | 156               | 109              | 1.610                      | 0.046                                   | 0.803             | 0.964            |
| Received rotavirus vaccination (2 doses)  | 0.908        | 0.058                     | 156               | 109              | 2.568                      | 0.064                                   | 0.791             | 1.024            |
| Received measles and rubella vaccination  | 0.872        | 0.029                     | 156               | 109              | 1.127                      | 0.034                                   | 0.813             | 0.931            |
| Received all basic vaccinations (12-23 months)  | 0.747        | 0.039                     | 156               | 109              | 1.143                      | 0.052                                   | 0.670             | 0.825            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.437        | 0.044                     | 156               | 109              | 1.143                      | 0.101                                   | 0.348             | 0.525            |
| Received measles 2 vaccination  | 0.592        | 0.058                     | 157               | 102              | 1.451                      | 0.098                                   | 0.476             | 0.708            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.238        | 0.046                     | 157               | 102              | 1.329                      | 0.191                                   | 0.147             | 0.329            |
| Height-for-age (-2 SD)  | 0.319        | 0.029                     | 788               | 536              | 1.544                      | 0.089                                   | 0.262             | 0.376            |
| Weight-for-height (-2 SD)   | 0.024        | 0.007                     | 786               | 536              | 1.175                      | 0.277                                   | 0.011             | 0.037            |
| Weight-for-age (-2 SD)  | 0.104        | 0.018                     | 797               | 545              | 1.509                      | 0.171                                   | 0.068             | 0.139            |
| Prevalence of anaemia (children 6-59 months)  | 0.616        | 0.020                     | 715               | 492              | 1.100                      | 0.032                                   | 0.577             | 0.656            |
| Prevalence of anaemia (women 15-49)   | 0.322        | 0.022                     | 1,057             | 696              | 1.497                      | 0.067                                   | 0.279             | 0.365            |
| Ever experienced any physical violence since age 15   | 0.209        | 0.015                     | 735               | 521              | 1.003                      | 0.072                                   | 0.179             | 0.239            |
| Ever experienced any sexual violence  | 0.058        | 0.010                     | 735               | 521              | 1.147                      | 0.170                                   | 0.039             | 0.078            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.239        | 0.019                     | 518               | 318              | 0.999                      | 0.078                                   | 0.201             | 0.276            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.318        | 0.022                     | 518               | 318              | 1.077                      | 0.069                                   | 0.274             | 0.363            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.179        | 0.018                     | 518               | 318              | 1.063                      | 0.100                                   | 0.143             | 0.215            |
| Had 2+ sexual partners in past 12 months  | 0.011        | 0.004                     | 1,081             | 718              | 1.270                      | 0.364                                   | 0.003             | 0.019            |
| Condom use at last sex  | 0.163        | 0.114                     | 12                | 8                | 1.018                      | 0.698                                   | 0.000             | 0.390            |
| Abstinance among never-married youth (never had sex)  | 0.350        | 0.032                     | 341               | 230              | 1.253                      | 0.093                                   | 0.285             | 0.415            |
| Had an HIV test and received results in past 12 months  | 0.593        | 0.028                     | 1,081             | 718              | 1.841                      | 0.047                                   | 0.538             | 0.648            |
| Discriminatory attitudes towards people living with HIV   | 0.310        | 0.029                     | 1,060             | 704              | 2.038                      | 0.094                                   | 0.252             | 0.368            |
| Total fertility rate (last 3 years)   | 4.945        | 0.251                     | 3,005             | 1,987            | 1.521                      | 0.051                                   | 4.443             | 5.447            |
| Neonatal mortality (last 0-9 years)   | 8.920        | 2.536                     | 1,572             | 1,042            | 1.033                      | 0.284                                   | 3.847             | 13.992           |
| Postneonatal mortality (last 0-9 years)   | 10.491       | 2.481                     | 1,582             | 1,049            | 0.947                      | 0.237                                   | 5.528             | 15.453           |
| Infant mortality (last 0-9 years)   | 19.410       | 3.080                     | 1,574             | 1,044            | 0.862                      | 0.159                                   | 13.251            | 25.570           |
| Child mortality (last 0-9 years)  | 6.802        | 2.456                     | 1,548             | 1,025            | 1.126                      | 0.361                                   | 1.890             | 11.714           |
| Under-5 mortality (last 0-9 years)  | 26.080       | 4.125                     | 1,576             | 1,045            | 0.979                      | 0.158                                   | 17.831            | 34.330           |
| HIV prevalence among women 15-49  | 0.085        | 0.013                     | 1,054             | 672              | 1.488                      | 0.150                                   | 0.060             | 0.111            |
| HIV prevalence among pregnant women 15-49   | 0.055        | 0.027                     | 82                | 54               | 1.081                      | 0.500                                   | 0.000             | 0.109            |
| HIV prevalence among young women 15-24  | 0.066        | 0.020                     | 479               | 324              | 1.764                      | 0.305                                   | 0.026             | 0.106            |

*Continued...*

**Table B.12—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.251        | 0.036                     | 847               | 556              | 2.422                      | 0.144                                   | 0.178             | 0.323            |
| Literacy  | 0.806        | 0.022                     | 847               | 556              | 1.614                      | 0.027                                   | 0.763             | 0.850            |
| No education  | 0.025        | 0.006                     | 847               | 556              | 1.176                      | 0.254                                   | 0.012             | 0.037            |
| Secondary or higher education                           | 0.659        | 0.025                     | 847               | 556              | 1.504                      | 0.037                                   | 0.610             | 0.708            |
| Never married (in union)                                | 0.488        | 0.019                     | 847               | 556              | 1.123                      | 0.040                                   | 0.449             | 0.526            |
| Currently married (in union)                            | 0.488        | 0.021                     | 847               | 556              | 1.229                      | 0.043                                   | 0.446             | 0.531            |
| Had first sexual intercourse before age 18              | 0.577        | 0.031                     | 616               | 404              | 1.549                      | 0.054                                   | 0.515             | 0.638            |
| Knows any contraceptive method                          | 1.000        | 0.000                     | 413               | 271              | na                         | 0.000                                   | 1.000             | 1.000            |
| Knows any modern contraceptive method                   | 1.000        | 0.000                     | 413               | 271              | na                         | 0.000                                   | 1.000             | 1.000            |
| Want no more children                                   | 0.312        | 0.021                     | 413               | 271              | 0.927                      | 0.068                                   | 0.270             | 0.354            |
| Want to delay birth at least 2 years                    | 0.404        | 0.020                     | 413               | 271              | 0.844                      | 0.051                                   | 0.363             | 0.445            |
| Ideal number of children                                | 5.491        | 0.158                     | 841               | 552              | 1.680                      | 0.029                                   | 5.176             | 5.806            |
| Had 2+ sexual partners in past 12 months                | 0.175        | 0.015                     | 847               | 556              | 1.178                      | 0.088                                   | 0.144             | 0.206            |
| Condom use at last sex                                  | 0.275        | 0.041                     | 134               | 97               | 1.049                      | 0.148                                   | 0.193             | 0.356            |
| Abstinence among never-married youth (never had sex)    | 0.283        | 0.031                     | 349               | 229              | 1.282                      | 0.109                                   | 0.221             | 0.345            |
| Had paid sex in past 12 months                          | 0.131        | 0.013                     | 847               | 556              | 1.088                      | 0.097                                   | 0.105             | 0.156            |
| Had HIV test and received results in past 12 months     | 0.504        | 0.020                     | 847               | 556              | 1.163                      | 0.040                                   | 0.464             | 0.544            |
| Discriminatory attitudes towards people living with HIV | 0.275        | 0.033                     | 838               | 549              | 2.134                      | 0.120                                   | 0.209             | 0.341            |
| HIV prevalence among men 15-49                          | 0.031        | 0.006                     | 818               | 545              | 1.013                      | 0.197                                   | 0.019             | 0.044            |
| HIV prevalence among young men 15-24                    | 0.003        | 0.002                     | 381               | 251              | 0.829                      | 0.751                                   | 0.000             | 0.008            |
| HIV prevalence among men 15-59                          | 0.033        | 0.006                     | 885               | 585              | 1.021                      | 0.185                                   | 0.021             | 0.046            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.061        | 0.008                     | 1,872             | 1,218            | 1.514                      | 0.137                                   | 0.044             | 0.078            |
| HIV prevalence among respondents 15-24                  | 0.038        | 0.012                     | 860               | 575              | 1.773                      | 0.304                                   | 0.015             | 0.062            |

na = Not applicable

**Table B.13 Sampling errors: Southern sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.828        | 0.014                     | 1,289             | 1,579            | 1.343                      | 0.017                                   | 0.800             | 0.856            |
| De facto population with access to an ITN   | 0.641        | 0.024                     | 6,298             | 7,594            | 2.020                      | 0.037                                   | 0.593             | 0.689            |
| Household population that slept under an ITN last night   | 0.426        | 0.034                     | 6,298             | 7,594            | 2.564                      | 0.080                                   | 0.358             | 0.495            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.332        | 0.082                     | 1,347             | 1,574            | 6.324                      | 0.248                                   | 0.167             | 0.497            |
| Literacy  | 0.722        | 0.021                     | 1,347             | 1,574            | 1.729                      | 0.029                                   | 0.680             | 0.764            |
| No education  | 0.044        | 0.009                     | 1,347             | 1,574            | 1.689                      | 0.214                                   | 0.025             | 0.063            |
| Secondary or higher education   | 0.480        | 0.034                     | 1,347             | 1,574            | 2.524                      | 0.072                                   | 0.411             | 0.548            |
| Never married (never in union)  | 0.252        | 0.027                     | 1,347             | 1,574            | 2.290                      | 0.108                                   | 0.198             | 0.306            |
| Currently married (in union)  | 0.631        | 0.028                     | 1,347             | 1,574            | 2.156                      | 0.045                                   | 0.574             | 0.688            |
| Married before age 18   | 0.424        | 0.021                     | 1,040             | 1,247            | 1.387                      | 0.050                                   | 0.381             | 0.466            |
| Had sexual intercourse before age 18  | 0.754        | 0.016                     | 1,040             | 1,247            | 1.224                      | 0.022                                   | 0.721             | 0.786            |
| Currently pregnant  | 0.118        | 0.021                     | 1,347             | 1,574            | 2.340                      | 0.175                                   | 0.077             | 0.159            |
| Know any contraceptive method   | 0.998        | 0.001                     | 774               | 993              | 0.830                      | 0.001                                   | 0.996             | 1.001            |
| Know a modern method  | 0.998        | 0.001                     | 774               | 993              | 0.830                      | 0.001                                   | 0.996             | 1.001            |
| Currently using any method  | 0.439        | 0.022                     | 774               | 993              | 1.248                      | 0.051                                   | 0.394             | 0.483            |
| Currently using a modern method   | 0.424        | 0.023                     | 774               | 993              | 1.313                      | 0.055                                   | 0.377             | 0.471            |
| Currently using IUD   | 0.004        | 0.003                     | 774               | 993              | 1.180                      | 0.646                                   | 0.000             | 0.010            |
| Currently using pill  | 0.078        | 0.010                     | 774               | 993              | 1.065                      | 0.131                                   | 0.058             | 0.099            |
| Currently using male condoms  | 0.027        | 0.007                     | 774               | 993              | 1.256                      | 0.270                                   | 0.013             | 0.042            |
| Currently using injectables   | 0.237        | 0.018                     | 774               | 993              | 1.200                      | 0.078                                   | 0.200             | 0.273            |
| Currently using implants  | 0.057        | 0.015                     | 774               | 993              | 1.816                      | 0.267                                   | 0.026             | 0.087            |
| Currently using female sterilisation  | 0.007        | 0.003                     | 774               | 993              | 1.155                      | 0.496                                   | 0.000             | 0.014            |
| Currently using withdrawal  | 0.003        | 0.002                     | 774               | 993              | 0.971                      | 0.614                                   | 0.000             | 0.007            |
| Currently using rhythm  | 0.009        | 0.004                     | 774               | 993              | 1.169                      | 0.437                                   | 0.001             | 0.017            |
| Using public sector source  | 0.949        | 0.013                     | 438               | 518              | 1.284                      | 0.014                                   | 0.922             | 0.976            |
| Want no more children   | 0.312        | 0.014                     | 774               | 993              | 0.857                      | 0.046                                   | 0.283             | 0.340            |
| Want to delay next birth at least 2 years   | 0.315        | 0.032                     | 774               | 993              | 1.909                      | 0.102                                   | 0.251             | 0.378            |
| Ideal number of children  | 4.949        | 0.135                     | 1,338             | 1,561            | 2.112                      | 0.027                                   | 4.679             | 5.219            |
| Mothers protected against tetanus for last birth  | 0.799        | 0.015                     | 748               | 946              | 1.045                      | 0.019                                   | 0.769             | 0.829            |
| Mothers received antenatal care for last birth  | 0.981        | 0.006                     | 748               | 946              | 1.242                      | 0.006                                   | 0.969             | 0.994            |
| Births with skilled attendant at delivery   | 0.813        | 0.036                     | 1,019             | 1,308            | 2.608                      | 0.044                                   | 0.742             | 0.884            |
| Received 3+ doses of SP/Fansidar  | 0.418        | 0.040                     | 420               | 525              | 1.685                      | 0.097                                   | 0.337             | 0.499            |
| Treated with ORS  | 0.550        | 0.048                     | 129               | 192              | 1.188                      | 0.088                                   | 0.453             | 0.647            |
| Sought medical treatment for diarrhoea  | 0.566        | 0.080                     | 129               | 192              | 1.989                      | 0.141                                   | 0.406             | 0.725            |
| Ever had vaccination card   | 0.997        | 0.003                     | 208               | 257              | 0.758                      | 0.003                                   | 0.992             | 1.003            |
| Received BCG vaccination  | 0.980        | 0.009                     | 208               | 257              | 0.927                      | 0.009                                   | 0.962             | 0.998            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.930        | 0.020                     | 208               | 257              | 1.139                      | 0.022                                   | 0.889             | 0.970            |
| Received birth dose polio 0 vaccination   | 0.518        | 0.044                     | 208               | 257              | 1.266                      | 0.086                                   | 0.430             | 0.607            |
| Received polio vaccination (3 doses)  | 0.790        | 0.031                     | 208               | 257              | 1.089                      | 0.039                                   | 0.729             | 0.852            |
| Received pneumococcal vaccination (3 doses)   | 0.909        | 0.023                     | 208               | 257              | 1.130                      | 0.025                                   | 0.864             | 0.954            |
| Received rotavirus vaccination (2 doses)  | 0.914        | 0.020                     | 208               | 257              | 1.037                      | 0.022                                   | 0.873             | 0.954            |
| Received measles and rubella vaccination  | 0.945        | 0.019                     | 208               | 257              | 1.199                      | 0.020                                   | 0.906             | 0.983            |
| Received all basic vaccinations (12-23 months)  | 0.749        | 0.028                     | 208               | 257              | 0.922                      | 0.037                                   | 0.694             | 0.805            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.294        | 0.057                     | 208               | 257              | 1.758                      | 0.194                                   | 0.180             | 0.408            |
| Received measles 2 vaccination  | 0.576        | 0.085                     | 203               | 263              | 2.478                      | 0.147                                   | 0.406             | 0.745            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.267        | 0.049                     | 203               | 263              | 1.601                      | 0.184                                   | 0.169             | 0.366            |
| Height-for-age (-2 SD)  | 0.294        | 0.016                     | 1,027             | 1,274            | 1.038                      | 0.054                                   | 0.263             | 0.326            |
| Weight-for-height (-2 SD)   | 0.023        | 0.006                     | 1,030             | 1,278            | 1.240                      | 0.251                                   | 0.011             | 0.034            |
| Weight-for-age (-2 SD)  | 0.097        | 0.017                     | 1,032             | 1,279            | 1.841                      | 0.175                                   | 0.063             | 0.130            |
| Prevalence of anaemia (children 6-59 months)  | 0.557        | 0.023                     | 928               | 1,145            | 1.448                      | 0.042                                   | 0.510             | 0.604            |
| Prevalence of anaemia (women 15-49)   | 0.353        | 0.023                     | 1,301             | 1,501            | 1.707                      | 0.065                                   | 0.307             | 0.399            |
| Ever experienced any physical violence since age 15   | 0.387        | 0.031                     | 949               | 1,105            | 1.930                      | 0.079                                   | 0.326             | 0.448            |
| Ever experienced any sexual violence  | 0.138        | 0.037                     | 949               | 1,105            | 3.267                      | 0.266                                   | 0.065             | 0.212            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.444        | 0.035                     | 734               | 839              | 1.885                      | 0.078                                   | 0.375             | 0.514            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.528        | 0.029                     | 734               | 839              | 1.565                      | 0.055                                   | 0.470             | 0.586            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.435        | 0.031                     | 734               | 839              | 1.689                      | 0.071                                   | 0.373             | 0.497            |
| Had 2+ sexual partners in past 12 months  | 0.009        | 0.003                     | 1,347             | 1,574            | 1.076                      | 0.313                                   | 0.003             | 0.014            |
| Condom use at last sex  | 0.214        | 0.107                     | 14                | 14               | 0.943                      | 0.498                                   | 0.001             | 0.428            |
| Abstinance among never-married youth (never had sex)  | 0.366        | 0.028                     | 353               | 338              | 1.095                      | 0.077                                   | 0.310             | 0.423            |
| Had an HIV test and received results in past 12 months  | 0.768        | 0.021                     | 1,347             | 1,574            | 1.804                      | 0.027                                   | 0.727             | 0.810            |
| Discriminatory attitudes towards people living with HIV   | 0.202        | 0.021                     | 1,331             | 1,557            | 1.900                      | 0.104                                   | 0.160             | 0.244            |
| Total fertility rate (last 3 years)   | 5.504        | 0.389                     | 3,717             | 4,403            | 1.810                      | 0.071                                   | 4.727             | 6.282            |
| Neonatal mortality (last 0-9 years)   | 32.987       | 9.733                     | 1,987             | 2,573            | 1.943                      | 0.295                                   | 13.520            | 52.454           |
| Postneonatal mortality (last 0-9 years)   | 13.096       | 3.987                     | 1,990             | 2,573            | 1.472                      | 0.304                                   | 5.122             | 21.070           |
| Infant mortality (last 0-9 years)   | 46.083       | 12.244                    | 1,987             | 2,573            | 1.911                      | 0.266                                   | 21.594            | 70.572           |
| Child mortality (last 0-9 years)  | 25.263       | 11.956                    | 1,946             | 2,540            | 2.883                      | 0.473                                   | 1.351             | 49.174           |
| Under-5 mortality (last 0-9 years)  | 70.182       | 22.995                    | 1,994             | 2,581            | 2.765                      | 0.328                                   | 24.191            | 116.172          |
| HIV prevalence among women 15-49  | 0.158        | 0.023                     | 1,297             | 1,474            | 2.260                      | 0.145                                   | 0.112             | 0.204            |
| HIV prevalence among pregnant women 15-49   | 0.088        | 0.032                     | 110               | 156              | 1.167                      | 0.361                                   | 0.024             | 0.151            |
| HIV prevalence among young women 15-24  | 0.058        | 0.018                     | 548               | 602              | 1.812                      | 0.314                                   | 0.021             | 0.094            |

Continued...

**Table B.13—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| <b>MEN</b>  |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.351        | 0.103                     | 1,117             | 1,395            | 7.030                      | 0.292                                   | 0.146             | 0.556            |
| Literacy  | 0.830        | 0.014                     | 1,117             | 1,395            | 1.275                      | 0.017                                   | 0.802             | 0.859            |
| No education  | 0.022        | 0.006                     | 1,117             | 1,395            | 1.306                      | 0.261                                   | 0.011             | 0.034            |
| Secondary or higher education                           | 0.582        | 0.041                     | 1,117             | 1,395            | 2.798                      | 0.071                                   | 0.499             | 0.664            |
| Never married (in union)                                | 0.455        | 0.015                     | 1,117             | 1,395            | 0.988                      | 0.032                                   | 0.426             | 0.485            |
| Currently married (in union)                            | 0.504        | 0.017                     | 1,117             | 1,395            | 1.156                      | 0.034                                   | 0.470             | 0.539            |
| Had first sexual intercourse before age 18              | 0.529        | 0.043                     | 824               | 1,035            | 2.492                      | 0.082                                   | 0.442             | 0.616            |
| Knows any contraceptive method                          | 1.000        | 0.000                     | 543               | 704              | na                         | 0.000                                   | 1.000             | 1.000            |
| Knows any modern contraceptive method                   | 1.000        | 0.000                     | 543               | 704              | na                         | 0.000                                   | 1.000             | 1.000            |
| Want no more children                                   | 0.241        | 0.041                     | 543               | 704              | 2.220                      | 0.170                                   | 0.159             | 0.322            |
| Want to delay birth at least 2 years                    | 0.466        | 0.024                     | 543               | 704              | 1.137                      | 0.052                                   | 0.417             | 0.515            |
| Ideal number of children                                | 5.387        | 0.251                     | 1,087             | 1,347            | 2.174                      | 0.047                                   | 4.884             | 5.889            |
| Had 2+ sexual partners in past 12 months                | 0.254        | 0.031                     | 1,117             | 1,395            | 2.393                      | 0.123                                   | 0.191             | 0.316            |
| Condom use at last sex                                  | 0.271        | 0.035                     | 290               | 354              | 1.353                      | 0.131                                   | 0.200             | 0.342            |
| Abstinence among never-married youth (never had sex)    | 0.338        | 0.029                     | 437               | 554              | 1.268                      | 0.085                                   | 0.281             | 0.396            |
| Had paid sex in past 12 months                          | 0.086        | 0.011                     | 1,117             | 1,395            | 1.371                      | 0.134                                   | 0.063             | 0.109            |
| Had HIV test and received results in past 12 months     | 0.606        | 0.028                     | 1,117             | 1,395            | 1.942                      | 0.047                                   | 0.549             | 0.663            |
| Discriminatory attitudes towards people living with HIV | 0.258        | 0.017                     | 1,107             | 1,385            | 1.282                      | 0.065                                   | 0.224             | 0.292            |
| HIV prevalence among men 15-49                          | 0.088        | 0.011                     | 1,058             | 1,365            | 1.225                      | 0.121                                   | 0.067             | 0.109            |
| HIV prevalence among young men 15-24                    | 0.009        | 0.004                     | 469               | 623              | 0.964                      | 0.472                                   | 0.001             | 0.017            |
| HIV prevalence among men 15-59                          | 0.105        | 0.013                     | 1,160             | 1,496            | 1.440                      | 0.123                                   | 0.079             | 0.131            |
| <b>WOMEN AND MEN</b>                                    |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.124        | 0.015                     | 2,355             | 2,839            | 2.247                      | 0.123                                   | 0.094             | 0.155            |
| HIV prevalence among respondents 15-24                  | 0.033        | 0.008                     | 1,017             | 1,225            | 1.466                      | 0.250                                   | 0.016             | 0.049            |

na = Not applicable

**Table B.14 Sampling errors: Western sample, Zambia DHS 2018**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| HOUSEHOLDS AND POPULATION   |              |                           |                   |                  |                            |   |                   |                  |
| Ownership of at least one ITN   | 0.815        | 0.023                     | 1,119             | 846              | 1.950                      | 0.028                                   | 0.770             | 0.861            |
| De facto population with access to an ITN   | 0.567        | 0.019                     | 5,201             | 3,908            | 1.666                      | 0.034                                   | 0.528             | 0.606            |
| Household population that slept under an ITN last night   | 0.510        | 0.021                     | 5,201             | 3,908            | 1.695                      | 0.042                                   | 0.467             | 0.553            |
| WOMEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.229        | 0.020                     | 1,096             | 808              | 1.603                      | 0.089                                   | 0.188             | 0.270            |
| Literacy  | 0.633        | 0.029                     | 1,096             | 808              | 2.006                      | 0.046                                   | 0.574             | 0.692            |
| No education  | 0.133        | 0.022                     | 1,096             | 808              | 2.155                      | 0.166                                   | 0.089             | 0.178            |
| Secondary or higher education   | 0.382        | 0.034                     | 1,096             | 808              | 2.285                      | 0.088                                   | 0.315             | 0.449            |
| Never married (never in union)  | 0.366        | 0.022                     | 1,096             | 808              | 1.510                      | 0.060                                   | 0.322             | 0.410            |
| Currently married (in union)  | 0.485        | 0.022                     | 1,096             | 808              | 1.460                      | 0.046                                   | 0.441             | 0.529            |
| Married before age 18   | 0.241        | 0.018                     | 839               | 618              | 1.221                      | 0.075                                   | 0.205             | 0.277            |
| Had sexual intercourse before age 18  | 0.824        | 0.017                     | 839               | 618              | 1.271                      | 0.020                                   | 0.791             | 0.858            |
| Currently pregnant  | 0.086        | 0.010                     | 1,096             | 808              | 1.209                      | 0.119                                   | 0.065             | 0.106            |
| Know any contraceptive method   | 0.986        | 0.006                     | 523               | 392              | 1.111                      | 0.006                                   | 0.974             | 0.997            |
| Know a modern method  | 0.986        | 0.006                     | 523               | 392              | 1.111                      | 0.006                                   | 0.974             | 0.997            |
| Currently using any method  | 0.312        | 0.030                     | 523               | 392              | 1.456                      | 0.095                                   | 0.253             | 0.371            |
| Currently using a modern method   | 0.300        | 0.029                     | 523               | 392              | 1.465                      | 0.098                                   | 0.242             | 0.359            |
| Currently using IUD   | 0.000        | 0.000                     | 523               | 392              | na                         | na                                      | 0.000             | 0.000            |
| Currently using pill  | 0.063        | 0.012                     | 523               | 392              | 1.127                      | 0.191                                   | 0.039             | 0.087            |
| Currently using male condoms  | 0.014        | 0.005                     | 523               | 392              | 0.981                      | 0.359                                   | 0.004             | 0.024            |
| Currently using injectables   | 0.194        | 0.023                     | 523               | 392              | 1.332                      | 0.119                                   | 0.148             | 0.241            |
| Currently using implants  | 0.028        | 0.008                     | 523               | 392              | 1.073                      | 0.276                                   | 0.013             | 0.044            |
| Currently using female sterilisation  | 0.001        | 0.001                     | 523               | 392              | 0.786                      | 1.010                                   | 0.000             | 0.003            |
| Currently using withdrawal  | 0.010        | 0.004                     | 523               | 392              | 1.009                      | 0.433                                   | 0.001             | 0.019            |
| Currently using rhythm  | 0.000        | 0.000                     | 523               | 392              | na                         | na                                      | 0.000             | 0.000            |
| Using public sector source  | 0.941        | 0.012                     | 290               | 223              | 0.902                      | 0.013                                   | 0.916             | 0.966            |
| Want no more children   | 0.346        | 0.025                     | 523               | 392              | 1.177                      | 0.071                                   | 0.297             | 0.395            |
| Want to delay next birth at least 2 years   | 0.287        | 0.021                     | 523               | 392              | 1.064                      | 0.073                                   | 0.245             | 0.329            |
| Ideal number of children  | 4.766        | 0.097                     | 1,037             | 764              | 1.444                      | 0.020                                   | 4.573             | 4.960            |
| Mothers protected against tetanus for last birth  | 0.662        | 0.023                     | 630               | 477              | 1.250                      | 0.035                                   | 0.615             | 0.708            |
| Mothers received antenatal care for last birth  | 0.944        | 0.016                     | 630               | 477              | 1.706                      | 0.016                                   | 0.913             | 0.975            |
| Births with skilled attendant at delivery   | 0.711        | 0.031                     | 838               | 641              | 1.758                      | 0.044                                   | 0.649             | 0.774            |
| Received 3+ doses of SP/Fansidar  | 0.457        | 0.030                     | 351               | 269              | 1.145                      | 0.066                                   | 0.397             | 0.517            |
| Treated with ORS  | 0.691        | 0.048                     | 176               | 139              | 1.407                      | 0.069                                   | 0.596             | 0.787            |
| Sought medical treatment for diarrhoea  | 0.740        | 0.036                     | 176               | 139              | 1.152                      | 0.049                                   | 0.667             | 0.813            |
| Ever had vaccination card   | 0.962        | 0.015                     | 170               | 130              | 1.061                      | 0.016                                   | 0.931             | 0.993            |
| Received BCG vaccination  | 0.924        | 0.029                     | 170               | 130              | 1.438                      | 0.031                                   | 0.867             | 0.982            |
| Received DPT-HepB-Hib vaccination (3 doses)   | 0.826        | 0.046                     | 170               | 130              | 1.604                      | 0.056                                   | 0.734             | 0.919            |
| Received birth dose polio 0 vaccination   | 0.505        | 0.047                     | 170               | 130              | 1.237                      | 0.093                                   | 0.410             | 0.599            |
| Received polio vaccination (3 doses)  | 0.734        | 0.048                     | 170               | 130              | 1.433                      | 0.065                                   | 0.638             | 0.830            |
| Received pneumococcal vaccination (3 doses)   | 0.822        | 0.046                     | 170               | 130              | 1.586                      | 0.056                                   | 0.730             | 0.914            |
| Received rotavirus vaccination (2 doses)  | 0.781        | 0.044                     | 170               | 130              | 1.395                      | 0.056                                   | 0.693             | 0.868            |
| Received measles and rubella vaccination  | 0.868        | 0.039                     | 170               | 130              | 1.507                      | 0.044                                   | 0.791             | 0.946            |
| Received all basic vaccinations (12-23 months)  | 0.681        | 0.051                     | 170               | 130              | 1.449                      | 0.075                                   | 0.578             | 0.784            |
| Received all age-appropriate vaccinations (12-23 months)  | 0.358        | 0.049                     | 170               | 130              | 1.335                      | 0.136                                   | 0.261             | 0.456            |
| Received measles 2 vaccination  | 0.513        | 0.057                     | 156               | 116              | 1.404                      | 0.111                                   | 0.399             | 0.626            |
| Received all age-appropriate vaccinations (24-35 months)  | 0.140        | 0.027                     | 156               | 116              | 0.982                      | 0.194                                   | 0.086             | 0.195            |
| Height-for-age (-2 SD)  | 0.290        | 0.021                     | 797               | 615              | 1.293                      | 0.073                                   | 0.247             | 0.332            |
| Weight-for-height (-2 SD)   | 0.030        | 0.007                     | 801               | 615              | 1.131                      | 0.230                                   | 0.016             | 0.044            |
| Weight-for-age (-2 SD)  | 0.141        | 0.014                     | 798               | 616              | 1.118                      | 0.101                                   | 0.113             | 0.170            |
| Prevalence of anaemia (children 6-59 months)  | 0.609        | 0.023                     | 695               | 537              | 1.245                      | 0.037                                   | 0.564             | 0.655            |
| Prevalence of anaemia (women 15-49)   | 0.379        | 0.017                     | 1,041             | 767              | 1.161                      | 0.046                                   | 0.344             | 0.414            |
| Ever experienced any physical violence since age 15   | 0.322        | 0.031                     | 790               | 541              | 1.881                      | 0.097                                   | 0.259             | 0.384            |
| Ever experienced any sexual violence  | 0.145        | 0.020                     | 790               | 541              | 1.608                      | 0.139                                   | 0.104             | 0.185            |
| Ever experienced any physical/sexual violence by husband/partner                                | 0.376        | 0.037                     | 563               | 359              | 1.815                      | 0.099                                   | 0.302             | 0.451            |
| Ever experienced any emotional/physical/sexual violence by any husband/partner                  | 0.456        | 0.040                     | 563               | 359              | 1.899                      | 0.088                                   | 0.376             | 0.536            |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | 0.300        | 0.027                     | 563               | 359              | 1.418                      | 0.091                                   | 0.245             | 0.355            |
| Had 2+ sexual partners in past 12 months  | 0.021        | 0.005                     | 1,096             | 808              | 1.225                      | 0.255                                   | 0.010             | 0.031            |
| Condom use at last sex  | 0.314        | 0.102                     | 24                | 17               | 1.047                      | 0.323                                   | 0.111             | 0.517            |
| Abstinance among never-married youth (never had sex)  | 0.242        | 0.028                     | 321               | 235              | 1.168                      | 0.116                                   | 0.186             | 0.298            |
| Had an HIV test and received results in past 12 months  | 0.738        | 0.021                     | 1,096             | 808              | 1.597                      | 0.029                                   | 0.696             | 0.781            |
| Discriminatory attitudes towards people living with HIV   | 0.294        | 0.029                     | 1,079             | 795              | 2.076                      | 0.098                                   | 0.236             | 0.352            |
| Total fertility rate (last 3 years)   | 5.372        | 0.214                     | 3,031             | 2,227            | 1.055                      | 0.040                                   | 4.944             | 5.801            |
| Neonatal mortality (last 0-9 years)   | 25.180       | 4.110                     | 1,632             | 1,236            | 1.043                      | 0.163                                   | 16.961            | 33.399           |
| Postneonatal mortality (last 0-9 years)   | 17.012       | 3.492                     | 1,623             | 1,229            | 1.054                      | 0.205                                   | 10.029            | 23.996           |
| Infant mortality (last 0-9 years)   | 42.192       | 5.403                     | 1,632             | 1,236            | 1.013                      | 0.128                                   | 31.387            | 52.997           |
| Child mortality (last 0-9 years)  | 15.860       | 3.669                     | 1,596             | 1,212            | 1.062                      | 0.231                                   | 8.521             | 23.198           |
| Under-5 mortality (last 0-9 years)  | 57.382       | 6.230                     | 1,633             | 1,237            | 1.025                      | 0.109                                   | 44.923            | 69.842           |
| HIV prevalence among women 15-49  | 0.132        | 0.014                     | 1,037             | 757              | 1.288                      | 0.103                                   | 0.105             | 0.159            |
| HIV prevalence among pregnant women 15-49   | 0.076        | 0.033                     | 88                | 67               | 1.158                      | 0.434                                   | 0.010             | 0.142            |
| HIV prevalence among young women 15-24  | 0.049        | 0.012                     | 432               | 316              | 1.188                      | 0.252                                   | 0.024             | 0.074            |

*Continued...*

**Table B.14—Continued**

| Variable  | Value<br>(R) | Standard<br>error<br>(SE) | Number of cases   |                  | Design<br>effect<br>(DEFT) | Relative<br>standard<br>error<br>(SE/R) | Confidence limits |                  |
|---|--------------|---------------------------|-------------------|------------------|----------------------------|---|-------------------|------------------|
|   |              |                           | Unweighted<br>(N) | Weighted<br>(WN) |                            |   | Lower<br>(R-2SE)  | Upper<br>(R+2SE) |
| MEN   |              |                           |                   |                  |                            |   |                   |                  |
| Urban residence   | 0.245        | 0.030                     | 771               | 574              | 1.936                      | 0.123                                   | 0.185             | 0.305            |
| Literacy  | 0.779        | 0.025                     | 771               | 574              | 1.661                      | 0.032                                   | 0.730             | 0.829            |
| No education  | 0.056        | 0.012                     | 771               | 574              | 1.496                      | 0.221                                   | 0.031             | 0.081            |
| Secondary or higher education                           | 0.451        | 0.039                     | 771               | 574              | 2.155                      | 0.086                                   | 0.373             | 0.528            |
| Never married (in union)                                | 0.498        | 0.029                     | 771               | 574              | 1.589                      | 0.058                                   | 0.440             | 0.555            |
| Currently married (in union)                            | 0.465        | 0.030                     | 771               | 574              | 1.655                      | 0.064                                   | 0.406             | 0.525            |
| Had first sexual intercourse before age 18              | 0.625        | 0.023                     | 549               | 412              | 1.111                      | 0.037                                   | 0.579             | 0.671            |
| Knows any contraceptive method                          | 1.000        | 0.000                     | 353               | 267              | na                         | 0.000                                   | 1.000             | 1.000            |
| Knows any modern contraceptive method                   | 1.000        | 0.000                     | 353               | 267              | na                         | 0.000                                   | 1.000             | 1.000            |
| Want no more children                                   | 0.167        | 0.026                     | 353               | 267              | 1.302                      | 0.155                                   | 0.115             | 0.219            |
| Want to delay birth at least 2 years                    | 0.469        | 0.030                     | 353               | 267              | 1.125                      | 0.064                                   | 0.409             | 0.529            |
| Ideal number of children                                | 6.057        | 0.212                     | 766               | 570              | 1.437                      | 0.035                                   | 5.634             | 6.480            |
| Had 2+ sexual partners in past 12 months                | 0.225        | 0.017                     | 771               | 574              | 1.128                      | 0.075                                   | 0.191             | 0.259            |
| Condom use at last sex                                  | 0.272        | 0.041                     | 172               | 129              | 1.190                      | 0.149                                   | 0.191             | 0.353            |
| Abstinence among never-married youth (never had sex)    | 0.195        | 0.026                     | 337               | 247              | 1.198                      | 0.133                                   | 0.143             | 0.246            |
| Had paid sex in past 12 months                          | 0.095        | 0.016                     | 771               | 574              | 1.526                      | 0.170                                   | 0.063             | 0.128            |
| Had HIV test and received results in past 12 months     | 0.607        | 0.020                     | 771               | 574              | 1.158                      | 0.034                                   | 0.567             | 0.648            |
| Discriminatory attitudes towards people living with HIV | 0.332        | 0.024                     | 764               | 570              | 1.406                      | 0.072                                   | 0.284             | 0.380            |
| HIV prevalence among men 15-49                          | 0.071        | 0.010                     | 723               | 562              | 1.074                      | 0.144                                   | 0.051             | 0.092            |
| HIV prevalence among young men 15-24                    | 0.011        | 0.007                     | 339               | 261              | 1.220                      | 0.628                                   | 0.000             | 0.025            |
| HIV prevalence among men 15-59                          | 0.081        | 0.012                     | 805               | 629              | 1.199                      | 0.143                                   | 0.058             | 0.104            |
| WOMEN AND MEN   |              |                           |                   |                  |                            |   |                   |                  |
| HIV prevalence among respondents 15-49                  | 0.106        | 0.010                     | 1,760             | 1,319            | 1.423                      | 0.098                                   | 0.085             | 0.127            |
| HIV prevalence among respondents 15-24                  | 0.032        | 0.007                     | 771               | 577              | 1.114                      | 0.221                                   | 0.018             | 0.046            |

na = Not applicable

# DATA QUALITY TABLES

# Appendix C

**Table C.1 Household age distribution**

Single-year age distribution of the de facto household population by sex (weighted), Zambia DHS 2018

| Age | Female |         | Male   |         | Age                    | Female |         | Male   |         |     |
|-----|--------|---------|--------|---------|------------------------|--------|---------|--------|---------|-----|
|     | Number | Percent | Number | Percent |                        | Number | Percent | Number | Percent |     |
| 0   | 1,014  | 3.1     | 988    | 3.3     | 37                     | 285    | 0.9     | 222    | 0.7     |     |
| 1   | 986    | 3.0     | 1,000  | 3.4     | 38                     | 353    | 1.1     | 329    | 1.1     |     |
| 2   | 1,057  | 3.2     | 963    | 3.2     | 39                     | 302    | 0.9     | 233    | 0.8     |     |
| 3   | 1,027  | 3.2     | 1,017  | 3.4     | 40                     | 317    | 1.0     | 353    | 1.2     |     |
| 4   | 957    | 2.9     | 998    | 3.4     | 41                     | 209    | 0.6     | 227    | 0.8     |     |
| 5   | 932    | 2.9     | 968    | 3.3     | 42                     | 306    | 0.9     | 279    | 0.9     |     |
| 6   | 1,062  | 3.3     | 1,071  | 3.6     | 43                     | 257    | 0.8     | 208    | 0.7     |     |
| 7   | 1,052  | 3.2     | 1,048  | 3.5     | 44                     | 230    | 0.7     | 207    | 0.7     |     |
| 8   | 1,115  | 3.4     | 1,020  | 3.4     | 45                     | 218    | 0.7     | 237    | 0.8     |     |
| 9   | 961    | 3.0     | 1,035  | 3.5     | 46                     | 213    | 0.7     | 221    | 0.7     |     |
| 10  | 1,152  | 3.5     | 1,090  | 3.7     | 47                     | 145    | 0.4     | 144    | 0.5     |     |
| 11  | 924    | 2.8     | 931    | 3.1     | 48                     | 198    | 0.6     | 187    | 0.6     |     |
| 12  | 1,004  | 3.1     | 978    | 3.3     | 49                     | 145    | 0.4     | 147    | 0.5     |     |
| 13  | 935    | 2.9     | 900    | 3.0     | 50                     | 218    | 0.7     | 194    | 0.7     |     |
| 14  | 944    | 2.9     | 928    | 3.1     | 51                     | 139    | 0.4     | 95     | 0.3     |     |
| 15  | 697    | 2.1     | 615    | 2.1     | 52                     | 147    | 0.5     | 130    | 0.4     |     |
| 16  | 564    | 1.7     | 578    | 1.9     | 53                     | 147    | 0.5     | 93     | 0.3     |     |
| 17  | 571    | 1.8     | 565    | 1.9     | 54                     | 191    | 0.6     | 156    | 0.5     |     |
| 18  | 808    | 2.5     | 811    | 2.7     | 55                     | 129    | 0.4     | 80     | 0.3     |     |
| 19  | 581    | 1.8     | 481    | 1.6     | 56                     | 152    | 0.5     | 108    | 0.4     |     |
| 20  | 687    | 2.1     | 497    | 1.7     | 57                     | 85     | 0.3     | 66     | 0.2     |     |
| 21  | 535    | 1.6     | 539    | 1.8     | 58                     | 114    | 0.4     | 79     | 0.3     |     |
| 22  | 625    | 1.9     | 425    | 1.4     | 59                     | 79     | 0.2     | 59     | 0.2     |     |
| 23  | 514    | 1.6     | 392    | 1.3     | 60                     | 136    | 0.4     | 163    | 0.6     |     |
| 24  | 535    | 1.6     | 405    | 1.4     | 61                     | 99     | 0.3     | 94     | 0.3     |     |
| 25  | 550    | 1.7     | 455    | 1.5     | 62                     | 90     | 0.3     | 116    | 0.4     |     |
| 26  | 529    | 1.6     | 411    | 1.4     | 63                     | 73     | 0.2     | 76     | 0.3     |     |
| 27  | 439    | 1.4     | 377    | 1.3     | 64                     | 83     | 0.3     | 52     | 0.2     |     |
| 28  | 482    | 1.5     | 305    | 1.0     | 65                     | 101    | 0.3     | 75     | 0.3     |     |
| 29  | 384    | 1.2     | 286    | 1.0     | 66                     | 71     | 0.2     | 52     | 0.2     |     |
| 30  | 443    | 1.4     | 389    | 1.3     | 67                     | 33     | 0.1     | 36     | 0.1     |     |
| 31  | 334    | 1.0     | 246    | 0.8     | 68                     | 72     | 0.2     | 41     | 0.1     |     |
| 32  | 459    | 1.4     | 343    | 1.2     | 69                     | 56     | 0.2     | 43     | 0.1     |     |
| 33  | 345    | 1.1     | 285    | 1.0     | 70+                    | 694    | 2.1     | 524    | 1.8     |     |
| 34  | 359    | 1.1     | 310    | 1.0     | Don't know/<br>missing |        | 31      | 0.1    | 65      | 0.2 |
| 35  | 398    | 1.2     | 328    | 1.1     | Total                  | 32,517 | 100.0   | 29,673 | 100.0   |     |
| 36  | 436    | 1.3     | 306    | 1.0     |                        |        |         |        |         |     |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview.

**Table C.2.1 Age distribution of eligible and interviewed women**

De facto household population of women age 10-54, number and percent distribution of interviewed women age 15-49, and percentage of eligible women who were interviewed (weighted), by 5-year age groups, Zambia DHS 2018

| Age group | Household population of women age 10-54 | Interviewed women age 15-49 |            | Percentage of eligible women interviewed |
|-----------|---|-----------------------------|------------|--|
|           |   | Number                      | Percentage |  |
| 10-14     | 4,959                                   | na                          | na         | na                                       |
| 15-19     | 3,222                                   | 3,066                       | 22.0       | 95.2                                     |
| 20-24     | 2,895                                   | 2,798                       | 20.0       | 96.7                                     |
| 25-29     | 2,384                                   | 2,322                       | 16.6       | 97.4                                     |
| 30-34     | 1,940                                   | 1,879                       | 13.5       | 96.8                                     |
| 35-39     | 1,773                                   | 1,717                       | 12.3       | 96.8                                     |
| 40-44     | 1,319                                   | 1,292                       | 9.3        | 97.9                                     |
| 45-49     | 920                                     | 888                         | 6.4        | 96.5                                     |
| 50-54     | 843                                     | na                          | na         | na                                       |
| 15-49     | 14,454                                  | 13,962                      | 100.0      | 96.6                                     |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both the household population of women and interviewed women are household weights. Age is based on the Household Questionnaire.

na = Not applicable

**Table C.2.2 Age distribution of eligible and interviewed men**

De facto household population of men age 10-64, number and percent distribution of interviewed men age 15-59, and percentage of eligible men who were interviewed (weighted), by 5-year age groups, Zambia DHS 2018

| Age group | Household population of men age 10-64 | Interviewed men age 15-59 |            | Percentage of eligible men interviewed |
|-----------|---------------------------------------|---------------------------|------------|--|
|           |                                       | Number                    | Percentage |  |
| 10-14     | 4,827                                 | na                        | na         | na                                     |
| 15-19     | 3,049                                 | 2,817                     | 23.0       | 92.4                                   |
| 20-24     | 2,258                                 | 2,063                     | 16.9       | 91.4                                   |
| 25-29     | 1,835                                 | 1,684                     | 13.8       | 91.8                                   |
| 30-34     | 1,573                                 | 1,419                     | 11.6       | 90.2                                   |
| 35-39     | 1,417                                 | 1,257                     | 10.3       | 88.7                                   |
| 40-44     | 1,274                                 | 1,166                     | 9.5        | 91.5                                   |
| 45-49     | 936                                   | 854                       | 7.0        | 91.2                                   |
| 50-54     | 668                                   | 601                       | 4.9        | 90.0                                   |
| 55-59     | 393                                   | 372                       | 3.0        | 94.8                                   |
| 60-64     | 502                                   | na                        | na         | na                                     |
| 15-59     | 13,402                                | 12,234                    | 100.0      | 91.3                                   |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both the household population of men and interviewed men are household weights. Age is based on the Household Questionnaire.

na = Not applicable

**Table C.3 Completeness of reporting**

Percentage of observations missing information for selected demographic and health questions (weighted), Zambia DHS 2018

| Subject   | Percentage with information missing | Number of cases |
|---|-------------------------------------|-----------------|
| Birth date, day only (births in the 15 years preceding the survey)                  | 1.50                                | 27,006          |
| Birth date, month only (births in the 15 years preceding the survey)                | 1.62                                | 27,006          |
| Birth date, month and year (births in the 15 years preceding the survey)            | 0.19                                | 27,006          |
| Age at death (deceased children born in the 15 years preceding the survey)          | 0.00                                | 1,792           |
| Age/date at first union <sup>1</sup> (ever-married women age 15-49)                 | 0.00                                | 9,411           |
| Age/date at first union (ever-married men age 15-59)                                | 0.47                                | 6,967           |
| Respondent's education (all women age 15-49)  | 0.00                                | 13,683          |
| Respondent's education (all men age 15-59)  | 0.00                                | 12,132          |
| Diarrhoea in last 2 weeks (living children age 0-59 months)                         | 1.90                                | 9,361           |
| Height (living children age 0-59 months from the Biomarker Questionnaire)           | 4.05                                | 10,109          |
| Weight (living children age 0-59 months from the Biomarker Questionnaire)           | 3.87                                | 10,109          |
| Height or weight (living children age 0-59 months from the Biomarker Questionnaire) | 4.07                                | 10,109          |
| Anaemia (living children age 6-59 months from the Biomarker Questionnaire)          | 5.45                                | 9,120           |
| Anaemia (all women from the Biomarker Questionnaire)                                | 6.53                                | 14,454          |

<sup>1</sup> Both year and age missing

**Table C.4 Births by calendar years**

Number of births, percentage with complete birth date, sex ratio at birth, and calendar year ratio by calendar year, according to living, dead, and total children (weighted), Zambia DHS 2018

| Calendar year | Number of births |       |        | Percentage with year and month of birth given |       |       | Sex ratio at birth <sup>1</sup> |       |       | Calendar year ratio <sup>2</sup> |       |       |
|---------------|------------------|-------|--------|---|-------|-------|---------------------------------|-------|-------|----------------------------------|-------|-------|
|               | Living           | Dead  | Total  | Living  | Dead  | Total | Living                          | Dead  | Total | Living                           | Dead  | Total |
| 2019          | 3                | 0     | 3      | 100.0   | na    | 100.0 | 119.0                           | na    | 119.0 | na                               | na    | na    |
| 2018          | 1,533            | 56    | 1,589  | 100.0   | 100.0 | 100.0 | 97.0                            | 176.1 | 99.0  | na                               | na    | na    |
| 2017          | 1,854            | 84    | 1,938  | 100.0   | 100.0 | 100.0 | 96.5                            | 167.7 | 98.7  | 106.9                            | 111.2 | 107.1 |
| 2016          | 1,936            | 96    | 2,032  | 100.0   | 100.0 | 100.0 | 99.4                            | 129.7 | 100.6 | 105.3                            | 93.6  | 104.6 |
| 2015          | 1,825            | 120   | 1,946  | 100.0   | 100.0 | 100.0 | 102.7                           | 96.9  | 102.3 | 97.2                             | 119.2 | 98.3  |
| 2014          | 1,819            | 106   | 1,926  | 100.0   | 100.0 | 100.0 | 100.0                           | 134.5 | 101.6 | 100.7                            | 105.6 | 100.9 |
| 2013          | 1,790            | 81    | 1,871  | 100.0   | 100.0 | 100.0 | 99.5                            | 115.8 | 100.1 | 97.1                             | 68.3  | 95.4  |
| 2012          | 1,865            | 131   | 1,996  | 98.2  | 92.6  | 97.8  | 102.0                           | 105.2 | 102.2 | 109.7                            | 126.1 | 110.6 |
| 2011          | 1,612            | 126   | 1,738  | 98.0  | 92.0  | 97.5  | 100.0                           | 59.5  | 96.4  | 86.6                             | 88.7  | 86.8  |
| 2010          | 1,855            | 154   | 2,009  | 97.2  | 92.1  | 96.8  | 96.3                            | 132.5 | 98.7  | 112.5                            | 121.0 | 113.1 |
| 2015-2019     | 7,152            | 356   | 7,508  | 100.0   | 100.0 | 100.0 | 98.9                            | 130.5 | 100.2 | na                               | na    | na    |
| 2010-2014     | 8,940            | 598   | 9,539  | 98.7  | 94.7  | 98.4  | 99.5                            | 104.9 | 99.8  | na                               | na    | na    |
| 2005-2009     | 7,601            | 695   | 8,296  | 97.5  | 85.9  | 96.5  | 98.7                            | 127.7 | 100.8 | na                               | na    | na    |
| 2000-2004     | 5,295            | 662   | 5,957  | 97.3  | 84.8  | 95.9  | 97.3                            | 131.4 | 100.6 | na                               | na    | na    |
| <2000         | 5,265            | 1,062 | 6,327  | 96.0  | 84.3  | 94.0  | 100.5                           | 103.9 | 101.1 | na                               | na    | na    |
| All           | 34,253           | 3,374 | 37,627 | 98.1  | 88.2  | 97.2  | 99.0                            | 116.4 | 100.5 | na                               | na    | na    |

na = Not applicable

<sup>1</sup> (Bm/Bf)×100, where Bm and Bf are the numbers of male and female births, respectively

<sup>2</sup> [2Bx/(Bx+1+Bx+1)]×100, where Bx is the number of births in calendar year x

**Table C.5 Reporting of age at death in days**

Distribution of reported deaths under age 1 month by age at death in days and percentage of neonatal deaths reported to occur at ages 0-6 days, for 5-year periods preceding the survey (weighted), Zambia DHS 2018

| Age at death<br>(days)                    | Number of years preceding the survey |      |       |       |            |
|---|--------------------------------------|------|-------|-------|------------|
|   | 0-4                                  | 5-9  | 10-14 | 15-19 | Total 0-19 |
| <1  | 122                                  | 87   | 67    | 55    | 332        |
| 1   | 33                                   | 30   | 18    | 10    | 91         |
| 2   | 21                                   | 13   | 29    | 9     | 72         |
| 3   | 20                                   | 13   | 7     | 6     | 46         |
| 4   | 7                                    | 6    | 7     | 0     | 20         |
| 5   | 3                                    | 13   | 3     | 1     | 19         |
| 6   | 1                                    | 0    | 0     | 3     | 4          |
| 7   | 37                                   | 19   | 15    | 18    | 89         |
| 8   | 1                                    | 0    | 1     | 1     | 2          |
| 9   | 2                                    | 0    | 1     | 1     | 4          |
| 10  | 2                                    | 2    | 0     | 0     | 4          |
| 12  | 4                                    | 0    | 1     | 0     | 5          |
| 14  | 12                                   | 19   | 7     | 12    | 50         |
| 16  | 0                                    | 1    | 0     | 0     | 1          |
| 18  | 0                                    | 1    | 1     | 0     | 2          |
| 20  | 0                                    | 1    | 1     | 0     | 1          |
| 21  | 6                                    | 4    | 6     | 8     | 24         |
| 28  | 1                                    | 0    | 0     | 0     | 1          |
| 29  | 1                                    | 0    | 0     | 0     | 1          |
| 30  | 1                                    | 0    | 3     | 1     | 5          |
| Total 0-30                                | 273                                  | 209  | 166   | 124   | 772        |
| Percentage early<br>neonatal <sup>1</sup> | 75.5                                 | 77.7 | 78.7  | 67.8  | 75.6       |

<sup>1</sup> 0-6 days/0-30 days

**Table C.6 Reporting of age at death in months**

Distribution of reported deaths under age 2 by age at death in months and percentage of infant deaths reported to occur under age 1 month, for 5-year periods preceding the survey (weighted), Zambia DHS 2018

| Age at death<br>(months)            | Number of years preceding the survey |      |       |       |            |
|-------------------------------------|--------------------------------------|------|-------|-------|------------|
|                                     | 0-4                                  | 5-9  | 10-14 | 15-19 | Total 0-19 |
| <1 <sup>a</sup>                     | 273                                  | 209  | 166   | 124   | 772        |
| 1                                   | 39                                   | 25   | 27    | 18    | 109        |
| 2                                   | 13                                   | 20   | 21    | 18    | 72         |
| 3                                   | 21                                   | 15   | 16    | 30    | 82         |
| 4                                   | 6                                    | 20   | 16    | 13    | 55         |
| 5                                   | 3                                    | 11   | 20    | 21    | 55         |
| 6                                   | 7                                    | 21   | 22    | 20    | 70         |
| 7                                   | 7                                    | 25   | 12    | 19    | 63         |
| 8                                   | 9                                    | 10   | 12    | 18    | 50         |
| 9                                   | 8                                    | 17   | 38    | 25    | 87         |
| 10                                  | 5                                    | 5    | 6     | 6     | 22         |
| 11                                  | 8                                    | 16   | 12    | 12    | 48         |
| 12                                  | 11                                   | 27   | 30    | 33    | 102        |
| 13                                  | 4                                    | 4    | 11    | 5     | 24         |
| 14                                  | 5                                    | 10   | 12    | 12    | 39         |
| 15                                  | 9                                    | 6    | 8     | 9     | 32         |
| 16                                  | 1                                    | 3    | 2     | 6     | 12         |
| 17                                  | 3                                    | 4    | 3     | 7     | 17         |
| 18                                  | 1                                    | 17   | 13    | 15    | 46         |
| 19                                  | 1                                    | 3    | 4     | 2     | 9          |
| 20                                  | 10                                   | 4    | 6     | 2     | 23         |
| 21                                  | 2                                    | 4    | 3     | 2     | 12         |
| 22                                  | 0                                    | 0    | 3     | 2     | 5          |
| 23                                  | 11                                   | 0    | 5     | 2     | 18         |
| Total 0-11                          | 399                                  | 394  | 367   | 324   | 1,483      |
| Percentage<br>neonatal <sup>1</sup> | 68.5                                 | 53.1 | 45.2  | 38.2  | 52.0       |

<sup>a</sup> Includes deaths under month reported in days

<sup>1</sup> Under one month / under one year

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**Table C.7 Completeness of information on siblings**

Completeness of data on survival status of sisters and brothers reported by interviewed women, age of living siblings, and age at death (AD) and years since death (YSD) of dead siblings (unweighted), Zambia DHS 2018

|                         | Sisters |         | Brothers |         | All siblings |         |
|-------------------------|---------|---------|----------|---------|--------------|---------|
|                         | Number  | Percent | Number   | Percent | Number       | Percent |
| <b>All siblings</b>     | 36,114  | 100.0   | 36,074   | 100.0   | 72,188       | 100.0   |
| Living                  | 32,104  | 88.9    | 31,650   | 87.7    | 63,754       | 88.3    |
| Dead                    | 3,986   | 11.0    | 4,398    | 12.2    | 8,384        | 11.6    |
| Survival status unknown | 24      | 0.1     | 26       | 0.1     | 50           | 0.1     |
| <b>Living siblings</b>  | 32,104  | 100.0   | 31,650   | 100.0   | 63,754       | 100.0   |
| Age reported            | 32,104  | 100.0   | 31,650   | 100.0   | 63,754       | 100.0   |
| <b>Dead siblings</b>    | 3,986   | 100.0   | 4,398    | 100.0   | 8,384        | 100.0   |
| AD and YSD reported     | 3,986   | 100.0   | 4,398    | 100.0   | 8,384        | 100.0   |

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**Table C.8 Sibship size and sex ratio of siblings**

Mean sibship size and sex ratio of siblings at birth, Zambia DHS 2018

| Age of respondents | Mean sibship size <sup>1</sup> | Sex ratio of siblings at birth <sup>2</sup> |
|--------------------|--------------------------------|---|
| 15-19              | 5.8                            | 96.7  |
| 20-24              | 6.0                            | 100.0                                       |
| 25-29              | 6.2                            | 99.8  |
| 30-34              | 6.4                            | 100.9                                       |
| 35-39              | 6.5                            | 105.5                                       |
| 40-44              | 6.5                            | 99.6  |
| 45-49              | 6.8                            | 103.4                                       |
| Total              | 6.2                            | 100.3                                       |

---

<sup>1</sup> Includes the respondent

<sup>2</sup> Excludes the respondent

**Table C.9 Height and weight data completeness and quality for children**

Among children under age 5 (age 0-59 months) who were eligible for anthropometry, percentage with incomplete or missing height and/or weight measurements and/or date of birth; percentage with out-of-range height-for-age, and/or weight-for-height, and/or weight-for-age data; and percentage with valid data, according to background characteristics (unweighted), Zambia DHS 2018

| Background characteristic                             | Percentage with data missing or incomplete: |                     |                            | Percentage with out-of-range data for <sup>a</sup> : |                                |                             | Percentage with valid data for <sup>b</sup> : |                   |                | Number of children |
|---|---|---------------------|----------------------------|--|--------------------------------|-----------------------------|---|-------------------|----------------|--------------------|
|   | Height <sup>c</sup>                         | Weight <sup>d</sup> | Age in months <sup>e</sup> | Height-for-age <sup>f</sup>                          | Weight-for-height <sup>g</sup> | Weight-for-age <sup>h</sup> | Height-for-age                                | Weight-for-height | Weight-for-age |                    |
| <b>Age in months</b>                                  |   |                     |                            |  |                                |                             |   |                   |                |                    |
| <6  | 4.9   | 4.4                 | 0.6                        | 1.5  | 4.5                            | 0.1                         | 93.6  | 90.5              | 95.5           | 1,057              |
| 6-8   | 3.0   | 2.1                 | 0.4                        | 1.1  | 2.1                            | 0.0                         | 96.0  | 94.9              | 97.9           | 474                |
| 9-11  | 2.4   | 2.4                 | 0.4                        | 1.4  | 1.6                            | 0.2                         | 96.2  | 96.0              | 97.4           | 501                |
| 12-17   | 3.3   | 3.3                 | 0.4                        | 0.9  | 0.5                            | 0.1                         | 95.8  | 96.1              | 96.6           | 992                |
| 18-23   | 2.5   | 2.4                 | 0.6                        | 0.8  | 0.3                            | 0.0                         | 96.7  | 97.2              | 97.6           | 1,004              |
| 24-35   | 3.6   | 3.1                 | 0.8                        | 0.6  | 0.7                            | 0.0                         | 95.5  | 95.7              | 96.6           | 2,038              |
| 36-47   | 4.2   | 4.2                 | 1.3                        | 0.3  | 0.3                            | 0.0                         | 95.0  | 95.5              | 95.3           | 2,026              |
| 48-59   | 5.5   | 5.4                 | 1.2                        | 0.2  | 0.3                            | 0.0                         | 93.7  | 94.1              | 94.0           | 2,002              |
| <b>Sex</b>  |   |                     |                            |  |                                |                             |   |                   |                |                    |
| Male  | 4.1   | 4.0                 | 0.9                        | 1.0  | 1.2                            | 0.0                         | 94.7  | 94.6              | 95.8           | 4,991              |
| Female  | 3.9   | 3.6                 | 0.9                        | 0.4  | 0.8                            | 0.0                         | 95.4  | 95.3              | 96.0           | 5,103              |
| <b>Mother's interview status</b>                      |   |                     |                            |  |                                |                             |   |                   |                |                    |
| Interviewed   | 2.9   | 2.7                 | 0.0                        | 0.7  | 1.1                            | 0.0                         | 96.5  | 96.1              | 97.3           | 9,039              |
| Not interviewed but in household                      | 32.5  | 32.5                | 16.7                       | 0.6  | 0.6                            | 0.3                         | 65.4  | 66.6              | 65.7           | 335                |
| Not interviewed and not in the household <sup>i</sup> | 5.3   | 4.9                 | 4.3                        | 0.7  | 0.4                            | 0.0                         | 91.0  | 94.3              | 92.1           | 720                |
| <b>Residence</b>                                      |   |                     |                            |  |                                |                             |   |                   |                |                    |
| Urban   | 4.2   | 4.0                 | 1.0                        | 0.6  | 1.0                            | 0.0                         | 95.0  | 94.8              | 95.7           | 2,999              |
| Rural   | 3.9   | 3.7                 | 0.8                        | 0.7  | 1.0                            | 0.0                         | 95.1  | 95.0              | 96.0           | 7,095              |
| <b>Province</b>                                       |   |                     |                            |  |                                |                             |   |                   |                |                    |
| Central   | 1.3   | 1.3                 | 0.4                        | 1.0  | 1.9                            | 0.0                         | 97.3  | 96.8              | 98.3           | 1,003              |
| Copperbelt  | 3.7   | 3.6                 | 0.9                        | 0.4  | 0.8                            | 0.0                         | 95.9  | 95.5              | 96.4           | 976                |
| Eastern   | 6.2   | 6.0                 | 1.4                        | 0.1  | 0.7                            | 0.0                         | 93.2  | 93.1              | 93.4           | 1,212              |
| Luapula   | 8.3   | 7.7                 | 0.3                        | 0.7  | 0.6                            | 0.1                         | 90.8  | 91.1              | 92.1           | 1,225              |
| Lusaka  | 2.1   | 2.0                 | 1.0                        | 0.6  | 1.3                            | 0.0                         | 97.1  | 96.6              | 97.8           | 1,040              |
| Muchinga  | 2.5   | 2.5                 | 0.6                        | 1.5  | 1.5                            | 0.1                         | 96.0  | 96.1              | 97.3           | 892                |
| Northern  | 4.1   | 3.5                 | 0.6                        | 1.3  | 1.6                            | 0.0                         | 94.5  | 94.3              | 96.4           | 1,018              |
| North Western   | 1.4   | 1.1                 | 0.1                        | 0.9  | 1.1                            | 0.0                         | 97.8  | 97.5              | 98.9           | 806                |
| Southern  | 2.9   | 2.8                 | 0.7                        | 0.5  | 0.6                            | 0.1                         | 96.3  | 96.5              | 96.7           | 1,067              |
| Western   | 6.0   | 6.0                 | 2.7                        | 0.1  | 0.4                            | 0.0                         | 93.2  | 93.7              | 93.3           | 855                |
| <b>Mother's education</b>                             |   |                     |                            |  |                                |                             |   |                   |                |                    |
| No education  | 5.7   | 5.2                 | 0.7                        | 1.4  | 0.8                            | 0.2                         | 92.8  | 93.4              | 94.5           | 1,015              |
| Primary   | 3.8   | 3.7                 | 0.4                        | 0.5  | 1.0                            | 0.0                         | 95.6  | 95.2              | 96.2           | 4,907              |
| Secondary   | 3.3   | 3.0                 | 0.9                        | 0.7  | 1.3                            | 0.0                         | 96.0  | 95.4              | 96.9           | 3,053              |
| Higher  | 4.6   | 4.6                 | 0.5                        | 1.0  | 1.0                            | 0.0                         | 94.4  | 94.4              | 95.4           | 391                |
| Missing   | 37.5  | 37.5                | 25.0                       | 0.0  | 0.0                            | 0.0                         | 62.5  | 62.5              | 62.5           | 8                  |
| Total   | 4.0   | 3.8                 | 0.9                        | 0.7  | 1.0                            | 0.0                         | 95.0  | 95.0              | 95.9           | 10,094             |

<sup>1</sup> Child's height in centimetres is missing, child was not present, child refused, and "other" result codes

<sup>2</sup> Child's weight in kilograms is missing, child was not present, child refused, and "other" result codes

<sup>3</sup> Incomplete date of birth; a complete date of birth is month/day/year or month/year.

<sup>4</sup> Cases with missing or incomplete data are not considered to be out-of-range cases.

<sup>5</sup> Out-of-range cases for height-for-age are defined as more than 6 standard deviations (SD) above or below the standard population median (Z-scores) based on the WHO Child Growth Standards.

<sup>6</sup> Out-of-range cases for weight-for-height are defined as more than 5 SD above or below the standard population median (Z-scores) based on the WHO Child Growth Standards.

<sup>7</sup> Out-of-range cases for weight-for-age are defined as more than 6 SD below or 5 SD above the standard population median (Z-scores) based on the WHO Child Growth Standards.

<sup>8</sup> No missing data, incomplete data, or out-of-range data

<sup>i</sup> Includes children whose mothers are deceased

**Table C.10 Number of enumeration areas completed by month, according to province, Zambia DHS 2018**

| Province      | Month     |             |                |              |               |               |              | Total |
|---------------|-----------|-------------|----------------|--------------|---------------|---------------|--------------|-------|
|               | July 2018 | August 2018 | September 2018 | October 2018 | November 2018 | December 2018 | January 2019 |       |
| Central       | 2         | 9           | 10             | 6            | 7             | 14            | 7            | 55    |
| Copperbelt    | 2         | 12          | 16             | 12           | 15            | 4             | 0            | 61    |
| Eastern       | 3         | 10          | 12             | 12           | 10            | 10            | 5            | 62    |
| Luapula       | 4         | 8           | 11             | 12           | 10            | 9             | 0            | 54    |
| Lusaka        | 2         | 10          | 15             | 12           | 18            | 8             | 1            | 66    |
| Muchinga      | 2         | 11          | 11             | 5            | 9             | 7             | 0            | 45    |
| Northern      | 4         | 12          | 9              | 10           | 10            | 8             | 0            | 53    |
| North Western | 3         | 8           | 10             | 8            | 8             | 6             | 0            | 43    |
| Southern      | 2         | 11          | 8              | 9            | 8             | 12            | 7            | 57    |
| Western       | 0         | 10          | 12             | 9            | 11            | 7             | 0            | 49    |
| Percent       | 4.4       | 18.5        | 20.9           | 17.4         | 19.4          | 15.6          | 3.7          | 100.0 |
| Total         | 24        | 101         | 114            | 95           | 106           | 85            | 20           | 545   |

Note: Enumeration areas are classified by month according to the date by which the last Biomarker Questionnaire in the enumeration area was completed.



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## QUESTIONNAIRES

## Appendix E

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2018 ZAMBIA DEMOGRAPHIC AND HEALTH SURVEY  
 HOUSEHOLD QUESTIONNAIRE  
 ZAMBIA  
 MINISTRY OF HEALTH/CENTRAL STATISTICAL OFFICE

| IDENTIFICATION   |  |                         |   |   |
|--|--|-------------------------|---|---|
| LOCALITY NAME  |  |                         |   |   |
| NAME OF HOUSEHOLD HEAD   |  |                         |   |   |
| CLUSTER NUMBER   | <input type="text"/> <input type="text"/> <input type="text"/><br><input type="text"/> <input type="text"/> <input type="text"/> |                         |   |   |
| HOUSEHOLD NUMBER   |  |                         |   |   |
| INTERVIEWER VISITS   |  |                         |   |   |
|  | 1  | 2                       | 3   | FINAL VISIT   |
| DATE   | <input type="text"/>   | <input type="text"/>    | <input type="text"/>  | DAY <input type="text"/><br>MONTH <input type="text"/><br>YEAR <input type="text"/> <input type="text"/><br>INT. NO. <input type="text"/> <input type="text"/><br>RESULT* <input type="text"/>  |
| INTERVIEWER'S NAME   | <input type="text"/>   | <input type="text"/>    | <input type="text"/>  |   |
| RESULT*  | <input type="text"/>   | <input type="text"/>    | <input type="text"/>  |   |
| NEXT VISIT: DATE   | <input type="text"/>   | <input type="text"/>    |   |   |
| TIME   | <input type="text"/>   | <input type="text"/>    |   | TOTAL NUMBER OF VISITS <input type="text"/>   |
| <b>*RESULT CODES:</b><br>1 COMPLETED<br>2 NO HOUSEHOLD MEMBER AT HOME OR NO COMPETENT RESPONDENT AT HOME AT TIME OF VISIT<br>3 ENTIRE HOUSEHOLD ABSENT FOR EXTENDED PERIOD OF TIME<br>4 POSTPONED<br>5 REFUSED<br>6 DWELLING VACANT OR ADDRESS NOT A DWELLING<br>7 DWELLING DESTROYED<br>8 DWELLING NOT FOUND<br>9 OTHER <input type="text"/><br>(SPECIFY) |  |                         |   | TOTAL PERSONS IN HOUSEHOLD <input type="text"/> <input type="text"/><br><br>TOTAL ELIGIBLE WOMEN <input type="text"/> <input type="text"/><br><br>TOTAL ELIGIBLE MEN <input type="text"/> <input type="text"/><br><br>LINE NO. OF RESPONDENT TO HOUSEHOLD QUESTIONNAIRE <input type="text"/> <input type="text"/> |
| LANGUAGE OF QUESTIONNAIRE**  | <b>0</b> <b>1</b>  | LANGUAGE OF INTERVIEW** | <input type="text"/> <input type="text"/>   | NATIVE LANGUAGE OF RESPONDENT** <input type="text"/> <input type="text"/> TRANSLATOR USED (YES = 1, NO = 2) <input type="text"/>  |
| LANGUAGE OF QUESTIONNAIRE**  | <b>ENGLISH</b>   |                         | <b>**LANGUAGE CODES:</b><br>01 ENGLISH 04 LOZI 07 NYANJA<br>02 BEMBA 05 LUNDA 08 TONGA<br>03 KAONDE 06 LUVALE |   |
| SUPERVISOR<br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>NAME _____ NUMBER _____   |  |                         |   |   |

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## INTRODUCTION AND CONSENT

Hello. My name is \_\_\_\_\_. I am working with the Ministry of Health in collaboration with Central Statistical Office (CSO). We are conducting a survey about health and other topics all over Zambia. The information we collect will help the government to plan health services. Your household was selected for the survey. I would like to ask you some questions about your household. The questions usually take about 20 to 30 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time. In case you need more information about the survey, you may contact the person listed on this card.

### GIVE CARD WITH CONTACT INFORMATION

Do you have any questions?

May I begin the interview now?

SIGNATURE OF INTERVIEWER \_\_\_\_\_ DATE \_\_\_\_\_

RESPONDENT AGREES  
TO BE INTERVIEWED .. 1

RESPONDENT DOES NOT AGREE  
TO BE INTERVIEWED .. 2 → END

|     |                  |                              |  |  |  |  |  |  |  |  |  |
|-----|------------------|------------------------------|--|--|--|--|--|--|--|--|--|
| 100 | RECORD THE TIME. | HOURS .....<br>MINUTES ..... | <table border="1" style="margin-left: auto; margin-right: 0;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table> |  |  |  |  |  |  |  |  |
|     |                  |                              |  |  |  |  |  |  |  |  |  |
|     |                  |                              |  |  |  |  |  |  |  |  |  |
|     |                  |                              |  |  |  |  |  |  |  |  |  |
|     |                  |                              |  |  |  |  |  |  |  |  |  |

**HOUSEHOLD SCHEDULE**

|          |  |   |                           |                                |                                  | <b>IF AGE 15 OR OLDER</b>                             |   |   |   |  |  |  |   |  |    |    |    |
|----------|--|---|---------------------------|--------------------------------|----------------------------------|---|---|---|---|--|--|--|---|--|----|----|----|
| LINE NO. | USUAL RESIDENTS AND VISITORS   | RELATIONSHIP TO HEAD OF HOUSEHOLD   | SEX                       | RESIDENCE                      | AGE                              | MARITAL STATUS  | ELIGIBILITY   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  | 3   | 4                         | 5                              | 6                                | 7   | 8   | 9   | 10                                      | 11   |  |  |   |  |    |    |    |
|          | Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household.<br><br>AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE.<br><br>THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-20 FOR EACH PERSON. | What is the relationship of (NAME) to the head of the household?<br><br>SEE CODES BELOW.  | Is (NAME) male or female? | Does (NAME) usually live here? | Did (NAME) stay here last night? | How old is (NAME)?<br><br>IF 95 OR MORE, RECORD '95.' | What is (NAME)'s current marital status?<br><br>1 = MARRIED OR LIVING TOGETHER<br>2 = DIVORCED/SEPARATED<br>3 = WIDOWED<br>4 = NEVER-MARRIED AND NEVER LIVED TOGETHER | CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49 | CIRCLE LINE NUMBER OF ALL MEN AGE 15-59 | CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5   |  |  |   |  |    |    |    |
| 01       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 01 | 01 | 01 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 02       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 02 | 02 | 02 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 03       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 03 | 03 | 03 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 04       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 04 | 04 | 04 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 05       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 05 | 05 | 05 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 06       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 06 | 06 | 06 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 07       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 07 | 07 | 07 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 08       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 08 | 08 | 08 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 09       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 09 | 09 | 09 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 10       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  | 10 | 10 | 10 |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
| 1        | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |
|          |  |   |                           |                                |                                  |   |   |   |   |  |  |  |   |  |    |    |    |

- 2A) Just to make sure that I have a complete listing: are there any other people such as small children or infants that we have not listed? YES  → ADD TO TABLE NO
- 2B) Are there any other people who may not be members of your family, such as domestic servants, lodgers, or friends who usually live here? YES  → ADD TO TABLE NO
- 2C) Are there any guests or temporary visitors staying here, or anyone else who stayed here last night, who have not been listed? YES  → ADD TO TABLE NO

**CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD**

- 01 = HEAD  
02 = WIFE OR HUSBAND  
03 = SON OR DAUGHTER  
04 = SON-IN-LAW OR DAUGHTER-IN-LAW  
05 = GRANDCHILD  
06 = PARENT  
07 = PARENT-IN-LAW  
08 = BROTHER OR SISTER  
09 = OTHER RELATIVE  
10 = ADOPTED/FOSTER/STEPCHILD  
11 = NOT RELATED  
98 = DON'T KNOW

**HOUSEHOLD SCHEDULE**

|          | IF AGE 0-17 YEARS                                |  |                                   |   | IF AGE 2 YEARS OR OLDER                                     |   | IF AGE 2-24 YEARS  |   | IF AGE 0-4 YEARS; IF 5 OR OLDER GO TO 31  |
|----------|--|--|-----------------------------------|---|---|---|--|---|---|
| LINE NO. | SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS |  |                                   |   | EVER ATTENDED SCHOOL  |   | CURRENT/RECENT SCHOOL ATTENDANCE   |   | BIRTH REGISTRATION  |
|          | 12   | 13   | 14                                | 15  | 16  | 17  | 18   | 19  | 20  |
|          | Is (NAME)'s natural mother alive?                | Does (NAME)'s natural mother usually live in this household or was she a guest last night? | Is (NAME)'s natural father alive? | Does (NAME)'s natural father usually live in this household or was he a guest last night? | Has (NAME) ever attended school or a nursery/kin dergarten? | What is the highest level of school (NAME) has attended?  | Did (NAME) attend school or a (nursery/kin dergarten) at any time during the 2018 school year? | During the 2018 school year, what level and year at that level [is/was] (NAME) attending?                               | Does (NAME) have a birth certificate?<br><br>IF NO, PROBE:<br>Has (NAME)'s birth ever been registered with the civil authority? |
|          |  | IF YES: What is her name?  |                                   | IF YES: What is his name?   |   | What is the highest year (NAME) completed at that level?  |  |   |   |
|          | RECORD MOTHER'S LINE NUMBER.                     |  | RECORD FATHER'S LINE NUMBER.      |   |   | SEE CODES BELOW.  | SEE CODES BELOW.   |   |   |
|          | IF NO, RECORD '00'.                              |  | IF NO, RECORD '00'.               |   |   |   |  |   | 1 = HAS CERTIFICATE<br>2 = REGISTERED<br>3 = NEITHER<br>8 = DON'T KNOW  |
| 01       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |
| 02       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |
| 03       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |
| 04       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |
| 05       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |
| 06       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |
| 07       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |
| 08       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |
| 09       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |
| 10       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="checkbox"/><br><input type="checkbox"/>                                       | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="checkbox"/><br><input type="checkbox"/>                                      | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL<br>YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>  |

**CODES FOR Qs. 17 AND 19: EDUCATION**

| LEVEL                    | YEAR                            |
|--------------------------|---------------------------------|
| 0 = NURSERY/KINDERGARDEN | 00 = LESS THAN 1 YEAR COMPLETED |
| 1 = PRIMARY              | (USE '00' FOR Q. 17 ONLY.)      |
| 2 = SECONDARY            | THIS CODE IS NOT ALLOWED        |
| 3 = HIGHER               | FOR Q. 19.)                     |
| 8 = DON'T KNOW           | 98 = DON'T KNOW                 |

**HOUSEHOLD SCHEDULE**

|   |  |   |                           |                                |                                  |   | <b>IF AGE 15 OR OLDER</b>   |   |   |  |  |  |  |  |  |    |    |    |
|---|--|---|---------------------------|--------------------------------|----------------------------------|---|---|---|---|--|--|--|--|--|--|----|----|----|
| LINE NO.  | USUAL RESIDENTS AND VISITORS   | RELATIONSHIP TO HEAD OF HOUSEHOLD   | SEX                       | RESIDENCE                      | AGE                              | MARITAL STATUS  | ELIGIBILITY   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  | 3   | 4                         | 5                              | 6                                | 7   | 8   | 9   | 10                                      | 11   |  |  |  |  |  |    |    |    |
|   | Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household.<br><br>AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE.<br><br>THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-20 FOR EACH PERSON. | What is the relationship of (NAME) to the head of the household?<br><br>SEE CODES BELOW.  | Is (NAME) male or female? | Does (NAME) usually live here? | Did (NAME) stay here last night? | How old is (NAME)?<br><br>IF 95 OR MORE, RECORD '95'. | What is (NAME)'s current marital status?<br><br>1 = MARRIED OR LIVING TOGETHER<br>2 = DIVORCED/SEPARATED<br>3 = WIDOWED<br>4 = NEVER-MARRIED AND NEVER LIVED TOGETHER | CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49 | CIRCLE LINE NUMBER OF ALL MEN AGE 15-59 | CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5   |  |  |  |  |  |    |    |    |
| 11  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | 11 | 11 | 11 |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
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|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
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|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 14  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | 14 | 14 | 14 |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 15  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | 15 | 15 | 15 |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 16  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | 16 | 16 | 16 |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 17  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | 17 | 17 | 17 |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 18  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td>1</td><td>2</td></tr></table> |                           |                                | 1                                | 2   | M F<br>1 2  | Y N<br>1 2                                | Y N<br>1 2                              | IN YEARS<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | 18 | 18 | 18 |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
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|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
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|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| 1   | 2  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
|   |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |
| TICK HERE IF CONTINUATION SHEET USED <input type="checkbox"/> |  |   |                           |                                |                                  |   |   |   |   |  |  |  |  |  |  |    |    |    |

**CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD**

- |                                    |                               |
|------------------------------------|-------------------------------|
| 01 = HEAD                          | 07 = PARENT-IN-LAW            |
| 02 = WIFE OR HUSBAND               | 08 = BROTHER OR SISTER        |
| 03 = SON OR DAUGHTER               | 09 = OTHER RELATIVE           |
| 04 = SON-IN-LAW OR DAUGHTER-IN-LAW | 10 = ADOPTED/FOSTER/STEPCHILD |
| 05 = GRANDCHILD                    | 11 = NOT RELATED              |
| 06 = PARENT                        | 98 = DONT KNOW                |

**HOUSEHOLD SCHEDULE**

|          | IF AGE 0-17 YEARS  |  |  |   | IF AGE 2 YEARS OR OLDER                                     |  | IF AGE 2-24 YEARS  |  | IF AGE 0-4 YEARS; IF 5 OR OLDER GO TO 31   |
|----------|--|--|--|---|---|--|--|--|--|
| LINE NO. | SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS                   |  |  |   | EVER ATTENDED SCHOOL  |  | CURRENT/RECENT SCHOOL ATTENDANCE   |  | BIRTH REGISTRATION   |
|          | 12   | 13   | 14   | 15  | 16  | 17   | 18   | 19   | 20   |
|          | Is (NAME)'s natural mother alive?<br><br>IF YES: What is her name? | Does (NAME)'s natural mother usually live in this household or was she a guest last night? | Is (NAME)'s natural father alive?<br><br>IF YES: What is his name? | Does (NAME)'s natural father usually live in this household or was he a guest last night? | Has (NAME) ever attended school or a nursery/kin dergarten? | What is the highest level of school (NAME) has attended?<br><br>What is the highest year (NAME) completed at that level? | Did (NAME) attend school or a (nursery/kin dergarten) at any time during the 2018 school year? | During the 2018 school year, what level and year at that level [is/was] (NAME) attending?                            | Does (NAME) have a birth certificate?<br><br>IF NO, PROBE: Has (NAME)'s birth ever been registered with the civil authority? |
|          |  | RECORD MOTHER'S LINE NUMBER.   |  | RECORD FATHER'S LINE NUMBER.  |   | SEE CODES BELOW.   | SEE CODES BELOW.   |  | 1 = HAS CERTIFICATE<br>2 = REGISTERED<br>3 = NEITHER<br>8 = DON'T KNOW   |
| 11       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |
| 12       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |
| 13       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |
| 14       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |
| 15       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |
| 16       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |
| 17       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |
| 18       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |
| 19       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |
| 20       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                                   | <input type="checkbox"/> <input type="checkbox"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16                                   | <input type="checkbox"/> <input type="checkbox"/>   | Y N<br>1 2<br>↓<br>GO TO 20                                 | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>     | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL YEAR<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>   |

**CODES FOR Qs. 17 AND 19: EDUCATION**

| LEVEL          | YEAR                            |
|----------------|---------------------------------|
| 0 = PRESCHOOL  | 00 = LESS THAN 1 YEAR COMPLETED |
| 1 = PRIMARY    | (USE '00' FOR Q. 17 ONLY.)      |
| 2 = SECONDARY  | THIS CODE IS NOT ALLOWED        |
| 3 = HIGHER     | FOR Q. 19.)                     |
| 8 = DON'T KNOW | 98 = DON'T KNOW                 |

**SELECTION OF WOMAN FOR THE DOMESTIC VIOLENCE QUESTIONS (PAPER OPTION)**

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES | SKIP |   |   |   |   |   |   |
|--|--|-------------------|------|---|---|---|---|---|---|
| 31   | CHECK COL.9 IN THE HOUSEHOLD SCHEDULE AND WRITE THE TOTAL NUMBER OF WOMEN AGE 15-49 YEARS.<br><br>TOTAL NUMBER ..... <input type="text"/> <input type="text"/>   |                   |      |   |   |   |   |   |   |
| 32   | CHECK THE NUMBER OF WOMEN AGE 15-49 YEARS IN 31:<br><br>ZERO <input type="checkbox"/> <span style="float: right;">→ 101</span><br><br>TWO OR MORE <input type="checkbox"/> ↓ <span style="float: right;">→ 33</span><br><br>ONE <input type="checkbox"/> |                   |      |   |   |   |   |   |   |
| <p>LOOK AT THE LAST DIGIT OF THE HOUSEHOLD NUMBER ON THE COVER PAGE. THIS IS THE ROW NUMBER YOU SHOULD GO TO. CHECK THE TOTAL NUMBER OF ELIGIBLE WOMEN (COLUMN 9) IN THE HOUSEHOLD SCHEDULE. THIS IS THE COLUMN NUMBER YOU SHOULD GO TO. FOLLOW THE SELECTED ROW AND COLUMN TO THE CELL WHERE THEY MEET AND CIRCLE THE NUMBER IN THE CELL. THIS IS THE NUMBER OF THE WOMAN SELECTED FOR THE DOMESTIC VIOLENCE QUESTIONS FROM THE LIST OF ELIGIBLE WOMEN IN COLUMN 9 OF THE HOUSEHOLD SCHEDULE. WRITE THE NAME AND LINE NUMBER OF THE SELECTED WOMAN IN THE SPACE BELOW THE TABLE.</p> <p><b>EXAMPLE:</b> THE HOUSEHOLD NUMBER IS '16' AND THE HOUSEHOLD SCHEDULE COLUMN 9 SHOWS THAT THERE ARE THREE ELIGIBLE WOMEN AGE 15-49 IN THE HOUSEHOLD (LINE NUMBERS 02, 04, AND 05). SINCE THE LAST DIGIT OF THE HOUSEHOLD SERIAL NUMBER IS '6' GO TO ROW '6' AND SINCE THERE ARE THREE ELIGIBLE WOMEN IN THE HOUSEHOLD, GO TO COLUMN '3'. FOLLOW THE ROW AND COLUMN AND FIND THE NUMBER IN THE CELL WHERE THEY MEET ('2') AND CIRCLE THE NUMBER. NOW GO TO THE HOUSEHOLD SCHEDULE AND FIND THE SECOND WOMAN WHO IS ELIGIBLE FOR THE WOMAN'S INTERVIEW (LINE NUMBER '04' IN THIS EXAMPLE). WRITE HER NAME AND LINE NUMBER IN THE SPACE BELOW THE TABLE.</p> |  |                   |      |   |   |   |   |   |   |
| <b>LAST DIGIT<br/>OF THE<br/>HOUSEHOLD<br/>NUMBER</b>  | <b>TOTAL NUMBER OF ELIGIBLE WOMEN AGE 15-49 IN HOUSEHOLD SCHEDULE COLUMN 9</b>   |                   |      |   |   |   |   |   |   |
|  | 1  | 2                 | 3    | 4 | 5   | 6 | 7 | 8+  |   |
|  | 0  | 1                 | 2    | 2 | 4   | 3 | 6 | 5   | 4 |
|  | 1  | 1                 | 1    | 3 | 1   | 4 | 1 | 6   | 5 |
|  | 2  | 1                 | 2    | 1 | 2   | 5 | 2 | 7   | 6 |
|  | 3  | 1                 | 1    | 2 | 3   | 1 | 3 | 1   | 7 |
|  | 4  | 1                 | 2    | 3 | 4   | 2 | 4 | 2   | 8 |
|  | 5  | 1                 | 1    | 1 | 1   | 3 | 5 | 3   | 1 |
|  | 6  | 1                 | 2    | 2 | 2   | 4 | 6 | 4   | 2 |
|  | 7  | 1                 | 1    | 3 | 3   | 5 | 1 | 5   | 3 |
|  | 8  | 1                 | 2    | 1 | 4   | 1 | 2 | 6   | 4 |
| 9  | 1  | 1                 | 2    | 1 | 2   | 3 | 7 | 5   |   |
| 33   | NAME<br>OF SELECTED WOMAN _____  |                   |      |   | HH LINE NUMBER<br>OF SELECTED WOMAN _____ |   |   | <input type="text"/> <input type="text"/> |   |

HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|-----|---|---|-------|
| 101 | What is the main source of drinking water for members of your household?                                    | <b>PIPED WATER</b><br>PIPED INTO DWELLING ..... 11<br>PIPED TO YARD/PLOT ..... 12<br>PIPED TO NEIGHBOR ..... 13<br>PUBLIC TAP/STANDPIPE ..... 14<br><br><b>TUBE WELL OR BOREHOLE</b> ..... 21<br><b>DUG WELL</b><br>PROTECTED WELL ..... 31<br>UNPROTECTED WELL ..... 32<br><b>WATER FROM SPRING</b><br>PROTECTED SPRING ..... 41<br>UNPROTECTED SPRING ..... 42<br><br>RAINWATER ..... 51<br>TANKER TRUCK ..... 61<br>CART WITH SMALL TANK ..... 71<br>SURFACE WATER (RIVER/DAM/<br>LAKE/POND/STREAM/CANAL/<br>IRRIGATION CHANNEL) ..... 81<br>BOTTLED WATER ..... 91<br><br>OTHER _____ 96<br>(SPECIFY) → 103 | → 106 |
| 102 | What is the main source of water used by your household for other purposes such as cooking and handwashing? | <b>PIPED WATER</b><br>PIPED INTO DWELLING ..... 11<br>PIPED TO YARD/PLOT ..... 12<br>PIPED TO NEIGHBOR ..... 13<br>PUBLIC TAP/STANDPIPE ..... 14<br><br><b>TUBE WELL OR BOREHOLE</b> ..... 21<br><b>DUG WELL</b><br>PROTECTED WELL ..... 31<br>UNPROTECTED WELL ..... 32<br><b>WATER FROM SPRING</b><br>PROTECTED SPRING ..... 41<br>UNPROTECTED SPRING ..... 42<br><br>RAINWATER ..... 51<br>TANKER TRUCK ..... 61<br>CART WITH SMALL TANK ..... 71<br>SURFACE WATER (RIVER/DAM/<br>LAKE/POND/STREAM/CANAL/<br>IRRIGATION CHANNEL) ..... 81<br><br>OTHER _____ 96<br>(SPECIFY)                                 | → 106 |
| 103 | Where is that water source located?   | IN OWN DWELLING ..... 1<br>IN OWN YARD/PLOT ..... 2<br>ELSEWHERE ..... 3  | → 105 |
| 104 | How long does it take to go there, wait, get water, and come back?  | MINUTES ..... <input type="text"/><br>DON'T KNOW ..... 998  |       |
| 105 | CHECK 101 AND 102: CODE '14' OR '21' CIRCLED?<br><br>YES <input type="checkbox"/><br>↓                      | NO <input type="checkbox"/>   | → 107 |

HOUSEHOLD CHARACTERISTICS

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP   |
|------|---|--|--------|
| 106  | In the past two weeks, was the water from this source not available for at least one full day?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |        |
| 107  | Do you do anything to the water to make it safer to drink?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | → 108A |
| 108  | What do you usually do to make the water safer to drink?<br><br>Anything else?<br><br>RECORD ALL MENTIONED.   | BOIL ..... A<br>ADD BLEACH/CHLORINE ..... B<br>STRAIN THROUGH A CLOTH ..... C<br>USE WATER FILTER (CERAMIC/<br>SAND/COMPOSITE/ETC) ..... D<br>SOLAR DISINFECTION ..... E<br>LET IT STAND AND SETTLE ..... F<br><br>OTHER _____ X<br>(SPECIFY)<br><br>DON'T KNOW ..... Z  |        |
| 108A | How do you store your drinking water?   | CLOSED CONTAINER/JERRY CAN ..... 1<br>OPEN CONTAINER/BUCKET ..... 2<br>DOES NOT STORE WATER ..... 3<br>OTHER _____ 6<br>(SPECIFY)  |        |
| 109  | What kind of toilet facility do members of your household usually use?<br><br>IF NOT POSSIBLE TO DETERMINE, ASK PERMISSION TO OBSERVE THE FACILITY. | <b>FLUSH OR POUR FLUSH TOILET</b><br>FLUSH TO PIPED SEWER SYSTEM ..... 11<br>FLUSH TO SEPTIC TANK ..... 12<br>FLUSH TO PIT LATRINE ..... 13<br>FLUSH TO SOMEWHERE ELSE ..... 14<br>FLUSH, DON'T KNOW WHERE ..... 15<br><b>PIT LATRINE</b><br>VENTILATED IMPROVED PIT LATRINE ..... 21<br>PIT LATRINE WITH SLAB ..... 22<br>PIT LATRINE WITHOUT SLAB/OPEN PIT ..... 23<br><br>COMPOSTING TOILET ..... 31<br>BUCKET TOILET ..... 41<br>HANGING TOILET/HANGING LATRINE ..... 51<br>NO FACILITY/BUSH/FIELD ..... 61<br><br>OTHER _____ 96<br>(SPECIFY) | → 113  |
| 110  | Do you share this toilet facility with other households?  | YES ..... 1<br>NO ..... 2  | → 112  |
| 111  | Including your own household, how many households use this toilet facility?   | NO. OF HOUSEHOLDS<br>IF LESS THAN 10 ..... 0<br><br>10 OR MORE HOUSEHOLDS ..... 95<br>DON'T KNOW ..... 98  |        |
| 112  | Where is this toilet facility located?  | IN OWN DWELLING ..... 1<br>IN OWN YARD/PLOT ..... 2<br>ELSEWHERE ..... 3   |        |

HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|---|---|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 113 | What type of fuel does your household mainly use for cooking?   | ELECTRICITY ..... 01<br>SOLAR POWER ..... 02<br>LIQUID PROPANE GAS (LPG) ..... 03<br>NATURAL GAS ..... 04<br>BIOGAS ..... 05<br>KEROSENE ..... 06<br>COAL, LIGNITE ..... 07<br>CHARCOAL ..... 08<br>WOOD ..... 09<br>STRAW/SHRUBS/GRASS ..... 10<br>AGRICULTURAL CROP ..... 11<br>ANIMAL DUNG ..... 12<br><br>NO FOOD COOKED IN HOUSEHOLD ..... 95 → 116<br><br>OTHER _____ 96<br>(SPECIFY)   |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 114 | Is the cooking usually done in the house, in a separate building, or outdoors?  | IN THE HOUSE ..... 1<br>IN A SEPARATE BUILDING ..... 2<br>OUTDOORS ..... 3<br><br>OTHER _____ 6<br>(SPECIFY)  | → 116 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115 | Do you have a separate room which is used as a kitchen?   | YES ..... 1<br>NO ..... 2   |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 116 | How many rooms in this household are used for sleeping?   | ROOMS .....   |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 117 | Does this household own any livestock, herds, other farm animals, or poultry?   | YES ..... 1<br>NO ..... 2 → 119   |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 118 | How many of the following animals does this household own?<br>IF NONE, RECORD '00'.<br>IF 95 OR MORE, RECORD '95'.<br>IF UNKNOWN, RECORD '98'.<br><br>a) Traditional cattle?<br>b) Dairy cattle?<br>c) Beef cattle?<br>d) Horses, donkeys, or mules?<br>e) Goats?<br>f) Sheep?<br>g) Chickens?<br>h) Pigs?<br>i) Rabbits/Other Poultry? | a) TRADITIONAL CATTLE .....<br>b) DAIRYCATTLE .....<br>c) BEEF CATTLE .....<br>d) HORSES/DONKEYS/MULES .....<br>e) GOATS .....<br>f) SHEEP .....<br>g) CHICKENS .....<br>h) PIGS .....<br>i) RABBITS/OTHER POULTR ....<br><br><table border="1" style="float: right; margin-right: 10px;"> <tr><td></td><td></td></tr> </table> |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|     |   |   |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 119 | Does any member of this household own any agricultural land?  | YES ..... 1<br>NO ..... 2 → 121   |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

HOUSEHOLD CHARACTERISTICS

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES                  |     |  | SKIP  |  |  |  |
|------|--|------------------------------------|-----|--|-------|--|--|--|
| 120  | How much hectares, acres, or lima of agricultural land do members of this household own?<br><br>IF 95 OR MORE HECTARES, CIRCLE '950'.<br>IF 95 OR MORE ACRES, CIRCLE '951'.<br>IF 95 OR MORE LIMA, CIRCLE '952'.   | HECTARES .....                     | 1   | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . |       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table> |  |
|      |  |                                    |     |  |       |  |  |  |
|      |  |                                    |     |  |       |  |  |  |
|      |  | ACRES .....                        | 2   | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . |       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table> |  |
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|      |  | LIMA .....                         | 3   | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . |       |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table> |  |
|      |  |                                    |     |  |       |  |  |  |
|      |  |                                    |     |  |       |  |  |  |
|      |  | 95 OR MORE HECTARES .....          | 950 |  |       |  |  |  |
|      |  | 95 OR MORE ACRES .....             | 951 |  |       |  |  |  |
|      |  | 95 OR MORE LIMA .....              | 952 |  |       |  |  |  |
|      |  | DON'T KNOW .....                   | 998 |  |       |  |  |  |
| 121  | Does your household have:<br><br>a) Electricity?<br>b) A radio?<br>c) A television?<br>d) A computer?<br>e) A refrigerator?<br><br>f) Access to Internet?<br><br>g) A bed?<br>h) A table?<br>i) A sofa?<br>j) A washing machine?<br>k) An air conditioner?<br>l) A generator?<br>m) A microwave?<br>n) A geyser (water heater)?<br>o) A grain grinder?<br>p) A plough?<br>q) A tractor?<br>r) A hammer mill? | YES                                | NO  |  |       |  |  |  |
|      | a) ELECTRICITY .....   | 1                                  | 2   |  |       |  |  |  |
|      | b) RADIO .....   | 1                                  | 2   |  |       |  |  |  |
|      | c) TELEVISION .....  | 1                                  | 2   |  |       |  |  |  |
|      | d) COMPUTER .....  | 1                                  | 2   |  |       |  |  |  |
|      | e) REFRIGERATOR .....  | 1                                  | 2   |  |       |  |  |  |
|      | f) INTERNET .....  | 1                                  | 2   |  |       |  |  |  |
|      | g) BED .....   | 1                                  | 2   |  |       |  |  |  |
|      | h) TABLE .....   | 1                                  | 2   |  |       |  |  |  |
|      | i) SOFA .....  | 1                                  | 2   |  |       |  |  |  |
|      | j) WASHING MACHINE .....   | 1                                  | 2   |  |       |  |  |  |
|      | k) AIR CONDITIONER .....   | 1                                  | 2   |  |       |  |  |  |
|      | l) GENERATOR .....   | 1                                  | 2   |  |       |  |  |  |
|      | m) MICROWAVE .....   | 1                                  | 2   |  |       |  |  |  |
|      | n) GEYSER .....  | 1                                  | 2   |  |       |  |  |  |
|      | o) GRAIN GRINDER .....   | 1                                  | 2   |  |       |  |  |  |
|      | p) PLOUGH .....  | 1                                  | 2   |  |       |  |  |  |
|      | q) TRACTOR .....   | 1                                  | 2   |  |       |  |  |  |
|      | r) HAMMER MILL .....   | 1                                  | 2   |  |       |  |  |  |
| 122  | Does any member of this household own:<br><br>a) A watch?<br>b) A mobile phone?<br>c) A bicycle?<br>d) A motorcycle or motor scooter?<br>e) An animal-drawn cart?<br>f) A car or truck?<br>g) A boat with a motor?<br>h) A banana boat?  | YES                                | NO  |  |       |  |  |  |
|      | a) WATCH .....   | 1                                  | 2   |  |       |  |  |  |
|      | b) MOBILE PHONE .....  | 1                                  | 2   |  |       |  |  |  |
|      | c) BICYCLE .....   | 1                                  | 2   |  |       |  |  |  |
|      | d) MOTORCYCLE/SCOOTER .....  | 1                                  | 2   |  |       |  |  |  |
|      | e) ANIMAL-DRAWN CART .....   | 1                                  | 2   |  |       |  |  |  |
|      | f) CAR/TRUCK .....   | 1                                  | 2   |  |       |  |  |  |
|      | g) BOAT WITH MOTOR .....   | 1                                  | 2   |  |       |  |  |  |
|      | h) BANANA BOAT .....   | 1                                  | 2   |  |       |  |  |  |
| 123  | Does any member of this household have a bank account?   | YES .....                          | 1   |  |       |  |  |  |
|      |  | NO .....                           | 2   |  |       |  |  |  |
| 124  | How often does anyone smoke inside your house? Would you say daily, weekly, monthly, less than monthly, or never?  | DAILY .....                        | 1   |  |       |  |  |  |
|      |  | WEEKLY .....                       | 2   |  |       |  |  |  |
|      |  | MONTHLY .....                      | 3   |  |       |  |  |  |
|      |  | LESS OFTEN THAN ONCE A MONTH ..... | 4   |  |       |  |  |  |
|      |  | NEVER .....                        | 5   |  |       |  |  |  |
| 124A | At any time in the past 12 months, has anyone come into your dwelling to spray the interior walls against mosquitoes?  | YES .....                          | 1   |  |       |  |  |  |
|      |  | NO .....                           | 2   |  |       |  |  |  |
|      |  | DON'T KNOW .....                   | 8   |  | → 127 |  |  |  |

HOUSEHOLD CHARACTERISTICS

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |
|------|--|---|-------|
| 124B | Who sprayed the dwelling?  | GOVERNMENT WORKER/PROGRAM ..... A<br>PRIVATE COMPANY ..... B<br>NGO ..... C<br><br>OTHER _____ X<br><br>(SPECIFY)<br><br>DON'T KNOW ..... Y |       |
| 127  | Does your household have any mosquito nets that can be used while sleeping?            | YES ..... 1<br>NO ..... 2   | → 139 |
| 128  | How many mosquito nets does your household have?<br><br>IF 7 OR MORE NETS, RECORD '7'. | NUMBER OF NETS ..... <input type="text"/>   |       |

**MOSQUITO NETS**

|     |  | NET #1  | NET #2  | NET #3  |   |  |  |   |  |  |
|-----|--|---|---|---|---|--|--|---|--|--|
| 129 | ASK THE RESPONDENT TO SHOW YOU ALL THE NETS IN THE HOUSEHOLD.<br><br>IF MORE THAN 3 NETS, USE ADDITIONAL QUESTIONNAIRE(S).                                     | OBSERVED ..... 1<br>NOT OBSERVED ..... 2  | OBSERVED ..... 1<br>NOT OBSERVED ..... 2  | OBSERVED ..... 1<br>NOT OBSERVED ..... 2  |   |  |  |   |  |  |
| 130 | How many months ago did your household get the mosquito net?<br><br>IF LESS THAN ONE MONTH AGO, RECORD '00'.   | MONTHS AGO ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table>   |   |   | MONTHS AGO ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | MONTHS AGO ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  |
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|     |  |   |   |   |   |  |  |   |  |  |
|     |  | MORE THAN 36 MONTHS AGO ..... 95<br>NOT SURE ..... 98   | MORE THAN 36 MONTHS AGO ..... 95<br>NOT SURE ..... 98   | MORE THAN 36 MONTHS AGO ..... 95<br>NOT SURE ..... 98   |   |  |  |   |  |  |
| 131 | OBSERVE OR ASK BRAND/TYPE OF MOSQUITO NET.<br><br>IF BRAND IS UNKNOWN AND YOU CANNOT OBSERVE THE NET, SHOW PICTURES OF TYPICAL NET TYPES/BRANDS TO RESPONDENT. | LONG-LASTING INSECTICIDE-TREATED NET (LLIN)<br><br>PermaNET ..... 11<br>OLICET ..... 12<br>TANA NET ..... 13<br>OTHER/DON'T KNOW BRAND ..... 16<br><br>OTHER TYPE ..... 96<br>DON'T KNOW TYPE .. 98 | LONG-LASTING INSECTICIDE-TREATED NET (LLIN)<br><br>PermaNET ..... 11<br>OLICET ..... 12<br>TANA NET ..... 13<br>OTHER/DON'T KNOW BRAND ..... 16<br><br>OTHER TYPE ..... 96<br>DON'T KNOW TYPE .. 98 | LONG-LASTING INSECTICIDE-TREATED NET (LLIN)<br><br>PermaNET ..... 11<br>OLICET ..... 12<br>TANA NET ..... 13<br>OTHER/DON'T KNOW BRAND ..... 16<br><br>OTHER TYPE ..... 96<br>DON'T KNOW TYPE .. 98 |   |  |  |   |  |  |
| 134 | Did you get the net through a mass distribution campaign, school distribution, during an antenatal care visit, or during an under five visit?                  | YES, MASS DIST.<br>CAMPAIGN ..... 1<br>YES, SCHOOL ..... 2<br>YES, ANC ..... 3<br><br>YES, UNDER FIVE VISIT ..... 4<br>(SKIP TO 136) ←<br>NO ..... 5  | YES, MASS DIST.<br>CAMPAIGN ..... 1<br>YES, SCHOOL ..... 2<br>YES, ANC ..... 3<br><br>YES, UNDER FIVE VISIT ..... 4<br>(SKIP TO 136) ←<br>NO ..... 5  | YES, MASS DIST.<br>CAMPAIGN ..... 1<br>YES, SCHOOL ..... 2<br>YES, ANC ..... 3<br><br>YES, UNDER FIVE VISIT ..... 4<br>(SKIP TO 136) ←<br>NO ..... 5  |   |  |  |   |  |  |
| 135 | Where did you get the net?   | GOVT. HEALTH FACILITY ..... 01<br>PRIVATE HEALTH FACILITY ..... 02<br>PHARMACY ..... 03<br>SHOP/MARKET ..... 04<br>CHW ..... 05<br>OTHER ..... 96<br>DON'T KNOW ..... 98                            | GOVT. HEALTH FACILITY ..... 01<br>PRIVATE HEALTH FACILITY ..... 02<br>PHARMACY ..... 03<br>SHOP/MARKET ..... 04<br>CHW ..... 05<br>OTHER ..... 96<br>DON'T KNOW ..... 98                            | GOVT. HEALTH FACILITY ..... 01<br>PRIVATE HEALTH FACILITY ..... 02<br>PHARMACY ..... 03<br>SHOP/MARKET ..... 04<br>CHW ..... 05<br>OTHER ..... 96<br>DON'T KNOW ..... 98                            |   |  |  |   |  |  |

**MOSQUITO NETS**

|     |  | NET #1  | NET #2  | NET #3  |
|-----|--|---|---|---|
| 136 | Did anyone sleep under this mosquito net last night?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 138) ←<br>NOT SURE ..... 8  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 138) ←<br>NOT SURE ..... 8  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 138) ←<br>NOT SURE ..... 8  |
| 137 | Who slept under this mosquito net last night?<br><br>RECORD THE PERSON'S NAME AND LINE NUMBER FROM HOUSEHOLD SCHEDULE. | NAME _____<br>LINE NO. .... <table border="1" style="display: inline-table; vertical-align: middle; font-size: small;">  </table> | NAME _____<br>LINE NO. .... <table border="1" style="display: inline-table; vertical-align: middle; font-size: small;">  </table> | NAME _____<br>LINE NO. .... <table border="1" style="display: inline-table; vertical-align: middle; font-size: small;">  </table> |
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| 138 |  | GO BACK TO 129 FOR NEXT NET; OR, IF NO MORE NETS, GO TO 139.  | GO BACK TO 129 FOR NEXT NET; OR, IF NO MORE NETS, GO TO 139.  | GO TO 129 IN FIRST COLUMN OF A NEW QUESTIONNAIRE; OR, IF NO MORE NETS, GO TO 139.   |

#### **ADDITIONAL HOUSEHOLD CHARACTERISTICS**

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP |
|-----|--|---|------|
| 139 | We would like to learn about the places that households use to wash their hands. Can you please show me where members of your household most often wash their hands? | OBSERVED, FIXED PLACE ..... 1<br>OBSERVED, MOBILE ..... 2<br>NOT OBSERVED,<br>NOT IN DWELLING/YARD/PLOT ..... 3<br>NOT OBSERVED, NO PERMISSION TO SEE ..... 4<br>NOT OBSERVED, OTHER REASON ..... 5   | 142  |
| 140 | OBSERVE PRESENCE OF WATER AT THE PLACE FOR HANDWASHING.<br><br>RECORD OBSERVATION.   | WATER IS AVAILABLE ..... 1<br>WATER IS NOT AVAILABLE ..... 2  |      |
| 141 | OBSERVE PRESENCE OF SOAP, DETERGENT, OR OTHER CLEANSING AGENT AT THE PLACE FOR HANDWASHING.<br><br>RECORD OBSERVATION.   | SOAP OR DETERGENT<br>(BAR, LIQUID, POWDER, PASTE) ..... A<br>ASH, MUD, SAND ..... B<br>NONE ..... Y   |      |
| 142 | OBSERVE MAIN MATERIAL OF THE FLOOR OF THE DWELLING.<br><br>RECORD OBSERVATION.   | <b>NATURAL FLOOR</b><br>EARTH/SAND ..... 11<br>DUNG ..... 12<br><b>RUDIMENTARY FLOOR</b><br>WOOD PLANKS ..... 21<br>PALM/BAMBOO/REEDS ..... 22<br><b>FINISHED FLOOR</b><br>PARQUET OR POLISHED WOOD ..... 31<br>VINYL (PVC) OR ASPHALT STRIPS ..... 32<br>CERAMIC/TERRAZZO TILES ..... 33<br>CEMENT ..... 34<br>CARPET ..... 35<br><br>OTHER _____ 96<br>(SPECIFY)  |      |
| 143 | OBSERVE MAIN MATERIAL OF THE ROOF OF THE DWELLING.<br><br>RECORD OBSERVATION.  | <b>NATURAL ROOFING</b><br>NO ROOF ..... 11<br>THATCH/PALM LEAF ..... 12<br><b>RUDIMENTARY ROOFING</b><br>RUSTIC MAT ..... 21<br>PALM/BAMBOO ..... 22<br>WOOD PLANKS ..... 23<br>CARDBOARD ..... 24<br><b>FINISHED ROOFING</b><br>METAL/IRON SHEETS ..... 31<br>WOOD ..... 32<br>CALAMINE/CEMENT FIBER ..... 33<br>CERAMIC TILES/HARVEY TILES ..... 34<br>CEMENT ..... 35<br>ROOFING SHINGLES ..... 36<br>MUD TILES ..... 37<br>ASBESTOS ..... 38<br><br>OTHER _____ 96<br>(SPECIFY) |      |

#### ADDITIONAL HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES            | SKIP |
|-----|---|------------------------------|------|
| 144 | OBSERVE MAIN MATERIAL OF THE EXTERIOR WALLS OF THE DWELLING.  | <b>NATURAL WALLS</b>         |      |
|     | RECORD OBSERVATION.   | NO WALLS .....               | 11   |
|     |   | CANE/PALM/TRUNKS .....       | 12   |
|     |   | MUD .....                    | 13   |
|     |   | <b>RUDIMENTARY WALLS</b>     |      |
|     |   | MUDBRICK .....               | 21   |
|     |   | BAMBOO WITH MUD .....        | 22   |
|     |   | STONE WITH MUD .....         | 23   |
|     |   | UNCOVERED ADOBE .....        | 24   |
|     |   | PLYWOOD .....                | 25   |
|     |   | CARDBOARD .....              | 26   |
|     |   | REUSED WOOD .....            | 27   |
|     |   | <b>FINISHED WALLS</b>        |      |
|     |   | CEMENT .....                 | 31   |
|     |   | STONE WITH LIME/CEMENT ..... | 32   |
|     |   | BURNED BRICKS .....          | 33   |
|     |   | CEMENT BLOCKS .....          | 34   |
|     |   | COVERED ADOBE .....          | 35   |
|     |   | WOOD PLANKS/SHINGLES .....   | 36   |
|     |   | OTHER _____                  | 96   |
|     |   | (SPECIFY)                    |      |
| 145 | I would like to check whether the salt used in your household is iodized. May I have a sample of the salt used to cook meals in your household? | IODINE PRESENT .....         | 1    |
|     | TEST SALT FOR IODINE.   | NO IODINE .....              | 2    |
|     |   | NO SALT IN HOUSEHOLD .....   | 3    |
|     |   | SALT NOT TESTED _____        | 6    |
|     |   | (SPECIFY REASON)             |      |
| 146 | RECORD THE TIME.  | HOURS .....                  |      |
|     |   | MINUTES .....                |      |
|     |   |                              |      |
|     |   |                              |      |
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|     |   |                              |      |

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT INTERVIEW:

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COMMENTS ON SPECIFIC QUESTIONS:

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ANY OTHER COMMENTS:

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SUPERVISOR'S OBSERVATIONS

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EDITOR'S OBSERVATIONS

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2018 ZAMBIA DEMOGRAPHIC AND HEALTH SURVEY  
 WOMAN'S QUESTIONNAIRE  
 ZAMBIA  
 MINISTRY OF HEALTH/CENTRAL STATISTICAL OFFICE

| IDENTIFICATION   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PLACE NAME   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NAME OF HOUSEHOLD HEAD   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLUSTER NUMBER   | <table border="1" style="float: right; margin-right: 10px;"> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </table> |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| HOUSEHOLD NUMBER   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NAME AND LINE NUMBER OF WOMAN  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CHECK HOUSEHOLD QUESTIONNAIRE Q.33: WOMAN SELECTED FOR DV MODULE? (1=YES, 2=NO)  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INTERVIEWER VISITS   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1  | 2     | 3  | FINAL VISIT  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE   | _____  | _____ | _____  | DAY <table border="1" style="float: right; margin-right: 10px;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table><br>MONTH <table border="1" style="float: right; margin-right: 10px;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table><br>YEAR <table border="1" style="float: right; margin-right: 10px;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table><br>INT. NO. <table border="1" style="float: right; margin-right: 10px;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table><br>RESULT* <table border="1" style="float: right; margin-right: 10px;"> <tr><td></td></tr> </table> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| INTERVIEWER'S NAME   | _____  | _____ | _____  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RESULT*  | _____  | _____ | _____  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NEXT VISIT: DATE   | _____  | _____ | _____  | TOTAL NUMBER OF VISITS   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TIME   | _____  | _____ |  | <table border="1" style="float: right; margin-right: 10px;"> <tr><td></td></tr> </table>   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| *RESULT CODES: 1 COMPLETED      4 REFUSED<br>2 NOT AT HOME      5 PARTLY COMPLETED      7 OTHER _____<br>3 POSTPONED      6 INCAPACITATED      SPECIFY _____ |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LANGUAGE OF QUESTIONNAIRE**  | 0 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>0</td><td>1</td></tr></table>   | 0     | 1  | LANGUAGE OF INTERVIEW**  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |  |  | NATIVE LANGUAGE OF RESPONDENT** <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> TRANSLATOR USED (YES = 1, NO = 2) <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| LANGUAGE OF QUESTIONNAIRE**  | <b>ENGLISH</b>   |       | <b>**LANGUAGE CODES:</b><br>01 ENGLISH      04 LOZI      07 NYANJA<br>02 BEMBA      05 LUNDA      08 TONGA<br>03 KAONDE      06 LUVALE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SUPERVISOR   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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## INTRODUCTION AND CONSENT

Hello. My name is \_\_\_\_\_. I am working with the Ministry of Health in collaboration with Central Statistical Office (CSO). We are conducting a survey about health and other topics all over Zambia. The information we collect will help the government to plan health services. Your household was selected for the survey. The questions usually take about 30 to 60 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time.

In case you need more information about the survey, you may contact the person listed on the card that has already been given to your household.

Do you have any questions?  
May I begin the interview now?

SIGNATURE OF INTERVIEWER \_\_\_\_\_ DATE \_\_\_\_\_

RESPONDENT AGREES  
TO BE INTERVIEWED ... 1  
RESPONDENT DOES NOT AGREE  
TO BE INTERVIEWED ... 2 → END

### SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |  |  |  |  |  |  |  |  |
|-----|--|--|---|--|--|--|--|--|--|--|--|
| 101 | RECORD THE TIME.   | HOURS .....<br><br>MINUTES .....   | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table> |  |  |  |  |  |  |  |  |
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| 102 | How long have you been living continuously in (NAME OF CURRENT CITY, TOWN OR VILLAGE OF RESIDENCE)?<br><br>IF LESS THAN ONE YEAR, RECORD '00' YEARS. | YEARS .....<br><br>ALWAYS ..... 95<br>VISITOR ..... 96   | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> → 105  |  |  |  |  |  |  |  |  |
|     |  |  |   |  |  |  |  |  |  |  |  |
| 103 | Just before you moved here, did you live in Lusaka, another city, in a town, or in a village?  | CITY ..... 1<br>TOWN ..... 2<br>RURAL AREA ..... 3   |   |  |  |  |  |  |  |  |  |
| 104 | Before you moved here, which province did you live in?   | CENTRAL ..... 01<br>COPPERBELT ..... 02<br>EASTERN ..... 03<br>LUAPULA ..... 04<br>LUSAKA ..... 05<br>MUCHINGA ..... 06<br>NORTHERN ..... 07<br>NORTHWESTERN ..... 08<br>SOUTHERN ..... 09<br>WESTERN ..... 10<br>OUTSIDE OF ZAMBIA ..... 96 |   |  |  |  |  |  |  |  |  |
| 105 | In what month and year were you born?  | MONTH .....<br><br>DON'T KNOW MONTH ..... 98<br><br>YEAR .....<br><br>DON'T KNOW YEAR ..... 9998   | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table>  |  |  |  |  |  |  |  |  |
|     |  |  |   |  |  |  |  |  |  |  |  |
| 106 | How old were you at your last birthday?<br><br>COMPARE AND CORRECT 105 AND/OR 106 IF INCONSISTENT.   | AGE IN COMPLETED YEARS .....   | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table>  |  |  |  |  |  |  |  |  |
|     |  |  |   |  |  |  |  |  |  |  |  |
| 107 | Have you ever attended school?   | YES ..... 1<br>NO ..... 2  | → 111   |  |  |  |  |  |  |  |  |

SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP  |
|-----|---|--|-------|
| 108 | What is the highest level of school you attended:<br>primary, secondary, or higher?   | PRIMARY ..... 1<br>SECONDARY ..... 2<br>HIGHER ..... 3   |       |
| 109 | What is the highest year you completed at that level?<br><br>IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.  | YEAR ..... <input type="text"/> <input type="text"/>   |       |
| 110 | CHECK 108:<br><br>PRIMARY OR <input type="checkbox"/><br>SECONDARY ↓  | HIGHER <input type="checkbox"/>  | → 113 |
| 111 | Now I would like you to read this sentence to me.<br><br>SHOW CARD TO RESPONDENT.<br><br>IF RESPONDENT CANNOT READ WHOLE SENTENCE,<br>PROBE: Can you read any part of the sentence to me? | CANNOT READ AT ALL ..... 1<br>ABLE TO READ ONLY PART OF THE SENTENCE ..... 2<br>ABLE TO READ WHOLE SENTENCE ..... 3<br>NO CARD WITH REQUIRED LANGUAGE ..... 4<br><br>(SPECIFY LANGUAGE)<br><br>BLIND/VISUALLY IMPAIRED ..... 5 |       |
| 112 | CHECK 111:<br><br>CODE '2', '3'<br>OR '4'<br>CIRCLED ↓  | CODE '1' OR '5'<br>CIRCLED <input type="checkbox"/>  | → 114 |
| 113 | Do you read a newspaper or magazine almost every day, at least once a week, less than once a week or not at all?  | ALMOST EVERY DAY ..... 1<br>AT LEAST ONCE A WEEK ..... 2<br><br>LESS THAN ONCE A WEEK ..... 3<br>NOT AT ALL ..... 4  |       |
| 114 | Do you listen to the radio almost every day, at least once a week, less than once a week or not at all?   | ALMOST EVERY DAY ..... 1<br>AT LEAST ONCE A WEEK ..... 2<br><br>LESS THAN ONCE A WEEK ..... 3<br>NOT AT ALL ..... 4  |       |
| 115 | Do you watch television almost every day, at least once a week, less than once a week or not at all?  | ALMOST EVERY DAY ..... 1<br>AT LEAST ONCE A WEEK ..... 2<br><br>LESS THAN ONCE A WEEK ..... 3<br>NOT AT ALL ..... 4  |       |
| 116 | Do you own a mobile telephone?  | YES ..... 1<br>NO ..... 2  | → 118 |
| 117 | Do you use your mobile phone for any financial transactions?  | YES ..... 1<br><br>NO ..... 2  |       |
| 118 | Do you have an account in a bank or other financial institution that you yourself use?  | YES ..... 1<br>NO ..... 2  |       |
| 119 | Have you ever used the internet?  | YES ..... 1<br>NO ..... 2  | → 122 |
| 120 | In the last 12 months, have you used the internet?<br><br>IF NECESSARY, PROBE FOR USE FROM ANY LOCATION, WITH ANY DEVICE.   | YES ..... 1<br>NO ..... 2  | → 122 |
| 121 | During the last one month, how often did you use the internet: almost every day, at least once a week, less than once a week, or not at all?  | ALMOST EVERY DAY ..... 1<br>AT LEAST ONCE A WEEK ..... 2<br>LESS THAN ONCE A WEEK ..... 3<br>NOT AT ALL ..... 4  |       |

SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP |  |  |
|-----|---|--|------|--|--|
| 122 | What is your religion?  | CATHOLIC ..... 1<br>PROTESTANT ..... 2<br>MUSLIM ..... 3<br><br>OTHER _____ 96<br>(SPECIFY)  |      |  |  |
| 124 | In the last 12 months, on how many separate occasions have you traveled away from your home community and slept away? | NUMBER OF TIMES ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> |      |  |  |
|     |   |  |      |  |  |
|     |   | NONE ..... 00 → 201  |      |  |  |
| 125 | In the last 12 months, have you been away from your home community for more than one month at a time?                 | YES ..... 1<br><br>NO ..... 2  |      |  |  |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP  |  |  |  |  |  |  |  |  |
|-----|---|--|-------|--|--|--|--|--|--|--|--|
| 201 | Now I would like to ask about all the births you have had during your life. Have you ever given birth?  | YES ..... 1<br>NO ..... 2 → 206  |       |  |  |  |  |  |  |  |  |
| 202 | Do you have any sons or daughters to whom you have given birth who are now living with you?   | YES ..... 1<br>NO ..... 2 → 204  |       |  |  |  |  |  |  |  |  |
| 203 | a) How many sons live with you?<br><br>b) How many daughters live with you?<br><br>IF NONE, RECORD '00'.  | a) SONS AT HOME .....<br><br>b) DAUGHTERS AT HOME .....<br><br><table border="1" style="float: right; margin-left: 10px; border-collapse: collapse;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>     |       |  |  |  |  |  |  |  |  |
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| 204 | Do you have any sons or daughters to whom you have given birth who are alive but do not live with you?  | YES ..... 1<br>NO ..... 2 → 206  |       |  |  |  |  |  |  |  |  |
| 205 | a) How many sons are alive but do not live with you?<br><br>b) How many daughters are alive but do not live with you?<br><br>IF NONE, RECORD '00'.  | a) SONS ELSEWHERE .....<br><br>b) DAUGHTERS ELSEWHERE .....<br><br><table border="1" style="float: right; margin-left: 10px; border-collapse: collapse;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table> |       |  |  |  |  |  |  |  |  |
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|     |   |  |       |  |  |  |  |  |  |  |  |
| 206 | Have you ever given birth to a boy or girl who was born alive but later died?<br><br>IF NO, PROBE: Any baby who cried, who made any movement, sound, or effort to breathe, or who showed any other signs of life even if for a very short time? | YES ..... 1<br>NO ..... 2 → 208  |       |  |  |  |  |  |  |  |  |
| 207 | a) How many boys have died?<br><br>b) How many girls have died<br><br>IF NONE, RECORD '00'.   | a) BOYS DEAD .....<br><br>b) GIRLS DEAD .....<br><br><table border="1" style="float: right; margin-left: 10px; border-collapse: collapse;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>               |       |  |  |  |  |  |  |  |  |
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| 208 | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'.  | TOTAL BIRTHS .....<br><br><table border="1" style="float: right; margin-left: 10px; border-collapse: collapse;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>  |       |  |  |  |  |  |  |  |  |
|     |   |  |       |  |  |  |  |  |  |  |  |
|     |   |  |       |  |  |  |  |  |  |  |  |
| 209 | CHECK 208:<br><br>Just to make sure that I have this right: you have had in TOTAL _____ births during your life. Is that correct?<br><br>YES<br>↓<br><br>NO <input type="checkbox"/><br><br>PROBE AND CORRECT 201-208 AS NECESSARY.             |  |       |  |  |  |  |  |  |  |  |
| 210 | CHECK 208:<br><br>ONE OR MORE <input type="checkbox"/> BIRTHS ↓<br><br>NO BIRTHS <input type="checkbox"/>   |  | → 226 |  |  |  |  |  |  |  |  |

**SECTION 2. REPRODUCTION**

211 Now I would like to record the names of all your births, whether still alive or not, starting with the first one you had.  
 RECORD NAMES OF ALL THE BIRTHS IN 212. RECORD TWINS AND TRIPLETS ON SEPARATE ROWS. IF THERE ARE MORE THAN 10 BIRTHS, USE AN ADDITIONAL QUESTIONNAIRE, STARTING WITH THE SECOND ROW.

| 212   | 213                        | 214                             | 215  | 216  | 217<br>IF ALIVE:                             | 218<br>IF ALIVE:                    | 219<br>IF ALIVE:   | 220<br>IF DEAD:  | 221  |  |   |  |  |  |  |  |  |  |  |  |  |
|---|----------------------------|---------------------------------|--|--|--|-------------------------------------|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|
| What name was given to your (first/next) baby?<br><br>RECORD NAME.<br>BIRTH HISTORY NUMBER. | Is (NAME) a boy or a girl? | Were any of these births twins? | On what day, month, and year was (NAME) born?  | Is (NAME) still alive?<br><br>RECORD AGE IN COMPLETED YEARS. | How old was (NAME) at his/her last birthday? | Is (NAME) living with you?          | RECORD HOUSEHOLD LINE NUMBER OF CHILD. RECORD '00' IF CHILD NOT LISTED IN HOUSEHOLD.                   | How old was (NAME) when (he/she) died?<br>IF '12 MONTHS' OR '1 YR', ASK: Did (NAME) have (his/her) first birthday?<br><br>THEN ASK: Exactly how many months old was (NAME) when (he/she) died? | How old was (NAME) when (he/she) died?<br>RECORD DAYS IF LESS THAN 1 MONTH; MONTHS IF LESS THAN TWO YEARS; OR YEARS. | Were there any other live births between (NAME OF PREVIOUS BIRTH) and (NAME), including any children who died after birth? |   |  |  |  |  |  |  |  |  |  |  |
| 01  | BOY 1                      | SING 1                          | DAY <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 220) | AGE IN YEARS<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(NEXT BIRTH)   | HOUSEHOLD LINE NUMBER<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>↓<br>(NEXT BIRTH)  |  |  | DAYS 1 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>MONTHS 2 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>YEARS 3 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  |  |  |  |  |  |
|   |                            |                                 |  |  |  |                                     |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |
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| 02  | BOY 1                      | SING 1                          | DAY <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 220) | AGE IN YEARS<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 221)  | HOUSEHOLD LINE NUMBER<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>↓<br>(SKIP TO 221) |  |  | DAYS 1 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>MONTHS 2 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>YEARS 3 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  |  |  |  |  | YES 1<br>(ADD BIRTH)<br>NO 2<br>(NEXT BIRTH) |
|   |                            |                                 |  |  |  |                                     |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |
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| 03  | BOY 1                      | SING 1                          | DAY <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 220) | AGE IN YEARS<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 221)  | HOUSEHOLD LINE NUMBER<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>↓<br>(SKIP TO 221) |  |  | DAYS 1 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>MONTHS 2 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>YEARS 3 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  |  |  |  |  | YES 1<br>(ADD BIRTH)<br>NO 2<br>(NEXT BIRTH) |
|   |                            |                                 |  |  |  |                                     |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |
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| 04  | BOY 1                      | SING 1                          | DAY <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 220) | AGE IN YEARS<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 221)  | HOUSEHOLD LINE NUMBER<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>↓<br>(SKIP TO 221) |  |  | DAYS 1 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>MONTHS 2 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>YEARS 3 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  |  |  |  |  | YES 1<br>(ADD BIRTH)<br>NO 2<br>(NEXT BIRTH) |
|   |                            |                                 |  |  |  |                                     |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |
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| 05  | BOY 1                      | SING 1                          | DAY <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 220) | AGE IN YEARS<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 221)  | HOUSEHOLD LINE NUMBER<br><table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>↓<br>(SKIP TO 221) |  |  | DAYS 1 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>MONTHS 2 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>YEARS 3 <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table> |  |  |  |  |  |  | YES 1<br>(ADD BIRTH)<br>NO 2<br>(NEXT BIRTH) |
|   |                            |                                 |  |  |  |                                     |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |
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|---------------------------------------|--------|---|---|--------------------------------|---|---|--|---|--|-------------------------------------|--|--------------------|--------------------|---|--|--|--|--|--|--|---|
| 212                                   | 213    | 214   | 215   | 216                            | 217<br>IF ALIVE:<br>Is (NAME)<br>still alive? | 218<br>IF ALIVE:<br>How old<br>was<br>(NAME) at<br>his/her<br>last<br>birthday? | 219<br>IF ALIVE:<br>RECORD<br>HOUSEHOLD<br>LINE<br>NUMBER OF<br>CHILD.<br>RECORD '00'<br>IF CHILD NOT<br>LISTED IN<br>HOUSEHOLD. | 220<br>IF DEAD:<br>How old was (NAME)<br>when (he/she) died?<br><br>IF '12 MONTHS' OR<br>'1 YR', ASK: Did<br>(NAME) have<br>(his/her) first<br>birthday?<br><br>THEN ASK: Exactly<br>how many months old<br>was (NAME) when<br>(he/she) died? | 221<br>Were there<br>any other<br>live births<br>between<br>(NAME OF<br>PREVIOUS<br>BIRTH) and<br>(NAME),<br>including<br>any children<br>who died<br>after birth? |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| RECORD NAME.<br>BIRTH HISTORY NUMBER. |        |   |   | RECORD AGE IN COMPLETED YEARS. |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| 06                                    | BOY 1  | SING 1  | DAY <table border="1"><tr><td></td><td></td></tr></table> |                                |   | YES 1<br>NO 2<br>↓<br>(SKIP TO 220)   | AGE IN YEARS<br><table border="1"><tr><td></td><td></td></tr></table>  |   |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 221) | HOUSEHOLD LINE NUMBER<br><table border="1"><tr><td></td><td></td></tr></table><br>↓<br>(SKIP TO 221) |                    |                    | DAYS 1 <table border="1"><tr><td></td><td></td></tr></table><br>MONTHS 2 <table border="1"><tr><td></td><td></td></tr></table><br>YEARS 3 <table border="1"><tr><td></td><td></td></tr></table> |  |  |  |  |  |  | YES 1<br>(ADD BIRTH)<br>↓<br>NO 2<br>(NEXT BIRTH) |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| GIRL 2                                | MULT 2 | MONTH <table border="1"><tr><td></td><td></td></tr></table><br><br><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> YEAR |   |                                |   |   |  |   | ↓<br>(SKIP TO 220)   | ↓<br>(SKIP TO 221)                  | ↓<br>(SKIP TO 221)   | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221)  |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| 07                                    | BOY 1  | SING 1  | DAY <table border="1"><tr><td></td><td></td></tr></table> |                                |   | YES 1<br>NO 2<br>↓<br>(SKIP TO 220)   | AGE IN YEARS<br><table border="1"><tr><td></td><td></td></tr></table>  |   |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 221) | HOUSEHOLD LINE NUMBER<br><table border="1"><tr><td></td><td></td></tr></table><br>↓<br>(SKIP TO 221) |                    |                    | DAYS 1 <table border="1"><tr><td></td><td></td></tr></table><br>MONTHS 2 <table border="1"><tr><td></td><td></td></tr></table><br>YEARS 3 <table border="1"><tr><td></td><td></td></tr></table> |  |  |  |  |  |  | YES 1<br>(ADD BIRTH)<br>↓<br>NO 2<br>(NEXT BIRTH) |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| GIRL 2                                | MULT 2 | MONTH <table border="1"><tr><td></td><td></td></tr></table><br><br><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> YEAR |   |                                |   |   |  |   | ↓<br>(SKIP TO 220)   | ↓<br>(SKIP TO 221)                  | ↓<br>(SKIP TO 221)   | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221)  |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| 08                                    | BOY 1  | SING 1  | DAY <table border="1"><tr><td></td><td></td></tr></table> |                                |   | YES 1<br>NO 2<br>↓<br>(SKIP TO 220)   | AGE IN YEARS<br><table border="1"><tr><td></td><td></td></tr></table>  |   |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 221) | HOUSEHOLD LINE NUMBER<br><table border="1"><tr><td></td><td></td></tr></table><br>↓<br>(SKIP TO 221) |                    |                    | DAYS 1 <table border="1"><tr><td></td><td></td></tr></table><br>MONTHS 2 <table border="1"><tr><td></td><td></td></tr></table><br>YEARS 3 <table border="1"><tr><td></td><td></td></tr></table> |  |  |  |  |  |  | YES 1<br>(ADD BIRTH)<br>↓<br>NO 2<br>(NEXT BIRTH) |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
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|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| GIRL 2                                | MULT 2 | MONTH <table border="1"><tr><td></td><td></td></tr></table><br><br><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> YEAR |   |                                |   |   |  |   | ↓<br>(SKIP TO 220)   | ↓<br>(SKIP TO 221)                  | ↓<br>(SKIP TO 221)   | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221)  |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| 09                                    | BOY 1  | SING 1  | DAY <table border="1"><tr><td></td><td></td></tr></table> |                                |   | YES 1<br>NO 2<br>↓<br>(SKIP TO 220)   | AGE IN YEARS<br><table border="1"><tr><td></td><td></td></tr></table>  |   |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 221) | HOUSEHOLD LINE NUMBER<br><table border="1"><tr><td></td><td></td></tr></table><br>↓<br>(SKIP TO 221) |                    |                    | DAYS 1 <table border="1"><tr><td></td><td></td></tr></table><br>MONTHS 2 <table border="1"><tr><td></td><td></td></tr></table><br>YEARS 3 <table border="1"><tr><td></td><td></td></tr></table> |  |  |  |  |  |  | YES 1<br>(ADD BIRTH)<br>↓<br>NO 2<br>(NEXT BIRTH) |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
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| GIRL 2                                | MULT 2 | MONTH <table border="1"><tr><td></td><td></td></tr></table><br><br><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> YEAR |   |                                |   |   |  |   | ↓<br>(SKIP TO 220)   | ↓<br>(SKIP TO 221)                  | ↓<br>(SKIP TO 221)   | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221)  |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| 10                                    | BOY 1  | SING 1  | DAY <table border="1"><tr><td></td><td></td></tr></table> |                                |   | YES 1<br>NO 2<br>↓<br>(SKIP TO 220)   | AGE IN YEARS<br><table border="1"><tr><td></td><td></td></tr></table>  |   |  | YES 1<br>NO 2<br>↓<br>(SKIP TO 221) | HOUSEHOLD LINE NUMBER<br><table border="1"><tr><td></td><td></td></tr></table><br>↓<br>(SKIP TO 221) |                    |                    | DAYS 1 <table border="1"><tr><td></td><td></td></tr></table><br>MONTHS 2 <table border="1"><tr><td></td><td></td></tr></table><br>YEARS 3 <table border="1"><tr><td></td><td></td></tr></table> |  |  |  |  |  |  | YES 1<br>(ADD BIRTH)<br>↓<br>NO 2<br>(NEXT BIRTH) |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
| GIRL 2                                | MULT 2 | MONTH <table border="1"><tr><td></td><td></td></tr></table><br><br><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> YEAR |   |                                |   |   |  |   | ↓<br>(SKIP TO 220)   | ↓<br>(SKIP TO 221)                  | ↓<br>(SKIP TO 221)   | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221) | ↓<br>(SKIP TO 221)  |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |
|                                       |        |   |   |                                |   |   |  |   |  |                                     |  |                    |                    |   |  |  |  |  |  |  |   |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|-----|---|---|-------|
| 222 | Have you had any live births since the birth of (NAME OF LAST BIRTH)?   | YES ..... 1<br>(RECORD BIRTH(S) IN TABLE) ←<br>NO ..... 2   |       |
| 223 | COMPARE 208 WITH NUMBER OF BIRTHS IN BIRTH HISTORY<br><br>NUMBERS ARE SAME<br>↓   | NUMBERS ARE DIFFERENT <input type="checkbox"/><br><br>(PROBE AND RECONCILE) ←   |       |
| 224 | CHECK 215: ENTER THE NUMBER OF BIRTHS IN 2013-2018  | NUMBER OF BIRTHS ..... <input type="checkbox"/><br><br>NONE ..... 0   | → 226 |
| 225 | <b>C</b> FOR EACH BIRTH IN 2013-2018, ENTER 'B' IN THE MONTH OF BIRTH IN THE CALENDAR. WRITE THE NAME OF THE CHILD TO THE LEFT OF THE 'B' CODE. FOR EACH BIRTH, ASK THE NUMBER OF COMPLETED MONTHS THE PREGNANCY LASTED AND RECORD 'P' IN EACH OF THE PRECEDING MONTHS ACCORDING TO THE DURATION OF PREGNANCY. (NOTE: THE NUMBER OF 'P's MUST BE ONE LESS THAN THE NUMBER OF MONTHS THAT THE PREGNANCY LASTED.) |   |       |
| 226 | Are you pregnant now?   | YES ..... 1<br>NO ..... 2<br>UNSURE ..... 8   | → 230 |
| 227 | How many months pregnant are you?<br><br>RECORD NUMBER OF COMPLETED MONTHS.<br><br><b>C</b> ENTER 'P's IN THE CALENDAR, BEGINNING WITH THE MONTH OF INTERVIEW AND FOR THE TOTAL NUMBER OF COMPLETED MONTHS.   | MONTHS ..... <input type="checkbox"/> <input type="checkbox"/>  |       |
| 228 | When you got pregnant, did you want to get pregnant at that time?   | YES ..... 1<br>NO ..... 2   | → 230 |
| 229 | CHECK 208: TOTAL NUMBER OF BIRTHS<br><br>ONE OR MORE <input type="checkbox"/>   NONE <input type="checkbox"/><br>a) Did you want to have a baby later on or did you not want any more children?   b) Did you want to have a baby later on or did you not want any children?   | LATER ..... 1<br>NO MORE/NONE ..... 2   |       |
| 230 | Have you ever had a pregnancy that miscarried, was aborted, or ended in a stillbirth?   | YES ..... 1<br>NO ..... 2   | → 239 |
| 231 | When did the last such pregnancy end?   | MONTH ..... <input type="checkbox"/> <input type="checkbox"/><br>YEAR ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |       |

SECTION 2. REPRODUCTION

| NO.      | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP   |                      |
|----------|---|---|--|----------------------|
| 232      | <p>CHECK 231:</p> <p>LAST PREGNANCY <input type="checkbox"/><br/>ENDED IN 2013-2018</p>   | <p>LAST PREGNANCY <input type="checkbox"/><br/>ENDED IN 2012 OR<br/>EARLIER</p>                               | → 234<br>→ 239   |                      |
| LINE NO. | 233<br><br>In what month and year did the preceding such pregnancy end?   | 234<br><br>How many months pregnant were you when that pregnancy ended?                                       | 235<br><br>Since January 2013, have you had any other pregnancies that did not result in a live birth? |                      |
| 01       |   | <input type="text"/> <input type="text"/><br>NUMBER OF MONTHS   | YES ..... 1<br>NO ..... 2  | → NEXT LINE<br>→ 236 |
| 02       | <input type="text"/> <input type="text"/><br>MONTH <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR  | <input type="text"/> <input type="text"/><br>NUMBER OF MONTHS   | YES ..... 1<br>NO ..... 2  | → NEXT LINE<br>→ 236 |
| 03       | <input type="text"/> <input type="text"/><br>MONTH <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR  | <input type="text"/> <input type="text"/><br>NUMBER OF MONTHS   | YES ..... 1<br>NO ..... 2  | → NEXT LINE<br>→ 236 |
| 04       | <input type="text"/> <input type="text"/><br>MONTH <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR  | <input type="text"/> <input type="text"/><br>NUMBER OF MONTHS   | YES ..... 1<br>NO ..... 2  | → 236                |
| 236      | <b>C</b> FOR EACH PREGNANCY THAT DID NOT END IN A LIVE BIRTH IN 2013-2018 OR LATER, ENTER 'T' IN THE CALENDAR IN THE MONTH THAT THE PREGNANCY TERMINATED AND 'P' FOR THE REMAINING NUMBER OF COMPLETED MONTHS OF PREGNANCY.<br><br>IF THERE ARE MORE THAN FOUR PREGNANCIES THAT DID NOT END IN A LIVE BIRTH, USE AN ADDITIONAL QUESTIONNAIRE STARTING ON THE SECOND LINE. |   |  |                      |
| 237      | Did you have any miscarriages, abortions or stillbirths that ended before 2013?   | YES ..... 1<br>NO ..... 2   |  | → 239                |
| 238      | When did the last such pregnancy that terminated before 2013 end?   | MONTH .....<br>YEAR ..... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |  |                      |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP                           |
|-----|--|---|--------------------------------|
| 239 | When did your last menstrual period start?<br><br><hr style="border-top: 1px solid black;"/><br>(DATE, IF GIVEN)                 | DAYS AGO ..... 1<br>WEEKS AGO ..... 2<br>MONTHS AGO ..... 3<br>YEARS AGO ..... 4<br><br>IN MENOPAUSE/<br>HAS HAD HYSTERECTOMY ..... 994<br><br>BEFORE LAST BIRTH ..... 995<br><br>NEVER MENSTRUATED ..... 996 |                                |
| 240 | From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant?                    | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | <input type="checkbox"/> → 242 |
| 241 | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods? | JUST BEFORE HER PERIOD BEGINS ..... 1<br>DURING HER PERIOD ..... 2<br>RIGHT AFTER HER PERIOD HAS ENDED ..... 3<br>HALFWAY BETWEEN TWO PERIODS ..... 4<br><br>OTHER _____ 6<br>(SPECIFY)<br>DON'T KNOW ..... 8 |                                |
| 242 | After the birth of a child, can a woman become pregnant before her menstrual period has returned?                                | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |                                |

**SECTION 3. CONTRACEPTION**

|     |   |  |        |
|-----|---|--|--------|
| 301 | <p>Now I would like to talk about family planning - the various ways or methods that a couple can use to delay or avoid a pregnancy. Have you ever heard of (METHOD)?</p> <p>PROCEED DOWN COLUMN 301, READING THE NAME AND DESCRIPTION OF EACH METHOD. CIRCLE CODE 1 IF METHOD IS RECOGNIZED, AND CODE 2 IF NOT RECOGNIZED.</p> |  |        |
| 01  | Female Sterilization.<br>PROBE: Women can have an operation to avoid having any more children.  | YES .....  | 1<br>2 |
| 02  | Male Sterilization.<br>PROBE: Men can have an operation to avoid having any more children.  | YES .....  | 1<br>2 |
| 03  | IUD.<br>PROBE: Women can have a loop or coil placed inside them by a doctor, nurse, or clinic officer which can prevent pregnancy for one or more years.  | YES .....  | 1<br>2 |
| 04  | Injectables.<br>PROBE: Women can have an injection by a doctor, nurse, or clinic officer that stops them from becoming pregnant for one or more months.   | YES .....  | 1<br>2 |
| 05  | Implants.<br>PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years.   | YES .....  | 1<br>2 |
| 06  | Pill.<br>PROBE: Women can take a pill every day to avoid becoming pregnant.   | YES .....  | 1<br>2 |
| 07  | Male Condom.<br>PROBE: Men can put a rubber sheath on their penis before sexual intercourse.  | YES .....  | 1<br>2 |
| 08  | Female Condom.<br>PROBE: Women can place a sheath in their vagina before sexual intercourse.  | YES .....  | 1<br>2 |
| 09  | Emergency Contraception.<br>PROBE: As an emergency measure, within five days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy.   | YES .....  | 1<br>2 |
| 10  | Standard Days Method (Cycle Beads).<br>PROBE: A woman uses a string of colored beads to know the days she can get pregnant. On the days she can get pregnant, she uses a condom or does not have sexual intercourse.  | YES .....  | 1<br>2 |
| 11  | Lactational Amenorrhea Method (LAM).<br>PROBE: Up to six months after childbirth, before the menstrual period has returned, women use a method requiring frequent breastfeeding day and night.  | YES .....  | 1<br>2 |
| 12  | Rhythm Method.<br>PROBE: To avoid pregnancy, women do not have sexual intercourse on the days of the month they think they can get pregnant.  | YES .....  | 1<br>2 |
| 13  | Withdrawal.<br>PROBE: Men can be careful and pull out before climax.  | YES .....  | 1<br>2 |
| 14  | Have you heard of any other ways or methods that women or men can use to avoid pregnancy?   | <p>YES, MODERN METHOD<br/>_____ (SPECIFY) A</p> <p>YES, TRADITIONAL METHOD<br/>_____ (SPECIFY) B</p> <p>NO .....</p> |        |

SECTION 3. CONTRACEPTION

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP                                       |
|------|--|--|--|
| 302  | CHECK 226:<br><br>NOT PREGNANT <input type="checkbox"/><br>OR UNSURE <input type="checkbox"/>  | PREGNANT <input type="checkbox"/>  | → 312                                      |
| 303  | Are you or your partner currently doing something or using any method to delay or avoid getting pregnant?  | YES ..... 1<br>NO ..... 2  | → 312                                      |
| 304  | Which method are you using?<br><br>RECORD ALL MENTIONED.<br><br>IF MORE THAN ONE METHOD MENTIONED,<br>FOLLOW SKIP INSTRUCTION FOR HIGHEST<br>METHOD IN LIST. | FEMALE STERILIZATION ..... A<br>MALE STERILIZATION ..... B<br>IUD ..... C<br>INJECTABLES ..... D → 309<br>IMPLANTS ..... E<br>PILL ..... F<br>CONDOM ..... G → 306<br>FEMALE CONDOM ..... H → 306A<br>EMERGENCY CONTRACEPTION ..... I<br>STANDARD DAYS METHOD ..... J<br>LACTATIONAL AMENORRHEA METHOD ..... K<br>RHYTHM METHOD ..... L<br>WITHDRAWAL ..... M<br>OTHER MODERN METHOD ..... X<br>OTHER TRADITIONAL METHOD ..... Y | → 307<br>→ 309<br>→ 306<br>→ 306A<br>→ 309 |
| 305  | What is the brand name of the pills you are using?<br><br>IF DON'T KNOW THE BRAND, ASK TO SEE THE<br>PACKAGE.  | SAFE PLAN ..... 01<br>MICROGYNON ..... 02<br>MICROLUT ..... 03<br>EUGYNON ..... 04<br>LOGYNON ..... 05<br>NORDETTE ..... 06<br>ORALCON F ..... 07<br><br>OTHER ..... 96<br>(SPECIFY)<br><br>DON'T KNOW ..... 98  | → 309                                      |
| 306  | What is the brand name of the condoms you are using?<br><br>IF DON'T KNOW THE BRAND, ASK TO SEE THE<br>PACKAGE.  | MAXIMUM CLASSIC ..... 01<br>MAXIMUM SCENTED ..... 02<br>ROUGH RIDER ..... 03<br>DUREX ..... 04<br>REALITY ..... 05<br>PUBLIC SECTOR:<br>UNBRANDED (WHITE COLOUR FOIL) ..... 06<br><br>OTHER ..... 96<br>(SPECIFY)<br><br>DON'T KNOW ..... 98   | → 309                                      |
| 306A | What is the brand name of the female condoms you are using?<br><br>IF DON'T KNOW THE BRAND, ASK TO SEE THE<br>PACKAGE.                                       | CARE FEMALE CONDOM ..... 01<br>FEMIDOM ..... 02<br><br>OTHER ..... 96<br>(SPECIFY)<br><br>DON'T KNOW ..... 98  | → 309                                      |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP |  |  |  |  |  |  |  |  |  |       |
|-----|--|--|------|--|--|--|--|--|--|--|--|--|-------|
| 307 | <p>In what facility did the sterilization take place?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <hr/> <p>(NAME OF PLACE)</p>  | <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL ..... 11<br/>     GOVERNMENT HEALTH CENTER ..... 12<br/>     GOVERNMENT HEALTH POST ..... 13<br/>     MOBILE HOSPITAL/CLINIC ..... 14<br/>     OTHER PUBLIC SECTOR</p> <hr/> <p style="text-align: right;">16<br/>(SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/CLINIC ..... 21<br/>     MISSION HOSPITAL/CLINIC ..... 22<br/>     PRIVATE DOCTOR'S OFFICE ..... 23<br/>     MOBILE HOSPITAL/CLINIC ..... 24<br/>     OTHER PRIVATE MEDICAL SECTOR</p> <hr/> <p style="text-align: right;">26<br/>(SPECIFY)</p> <p>OTHER ..... 96<br/>(SPECIFY)</p> <p>DON'T KNOW ..... 98</p> |      |  |  |  |  |  |  |  |  |  |       |
| 308 | <p>In what month and year was the sterilization performed?</p>   | <p>MONTH ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>YEAR ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table></p>   |      |  |  |  |  |  |  |  |  |  | → 310 |
|     |  |  |      |  |  |  |  |  |  |  |  |  |       |
|     |  |  |      |  |  |  |  |  |  |  |  |  |       |
|     |  |  |      |  |  |  |  |  |  |  |  |  |       |
|     |  |  |      |  |  |  |  |  |  |  |  |  |       |
| 309 | <p>Since what month and year have you been using (CURRENT METHOD) without stopping?</p> <p>PROBE: For how long have you been using (CURRENT METHOD) now without stopping?</p>  | <p>MONTH ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>YEAR ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table></p>   |      |  |  |  |  |  |  |  |  |  |       |
|     |  |  |      |  |  |  |  |  |  |  |  |  |       |
|     |  |  |      |  |  |  |  |  |  |  |  |  |       |
|     |  |  |      |  |  |  |  |  |  |  |  |  |       |
|     |  |  |      |  |  |  |  |  |  |  |  |  |       |
| 310 | <p>CHECK 308 AND 309, 215 AND 231: ANY BIRTH OR PREGNANCY TERMINATION AFTER MONTH AND YEAR OF START OF USE OF CONTRACEPTION IN 308 OR 309</p> <p>NO <input style="vertical-align: middle;" type="checkbox"/> <span style="margin-left: 100px;">YES <input style="vertical-align: middle;" type="checkbox"/></span></p> <p style="text-align: center;">GO BACK TO 308 OR 309, PROBE AND RECORD MONTH AND YEAR AT START OF CONTINUOUS USE OF CURRENT METHOD (MUST BE AFTER LAST BIRTH OR PREGNANCY TERMINATION).</p> |  |      |  |  |  |  |  |  |  |  |  |       |

SECTION 3. CONTRACEPTION

|     |   |   |
|-----|---|---|
| 311 | <p>CHECK 308 AND 309:</p> <p>YEAR IS 2013-2018 <input type="checkbox"/></p> <p><b>C</b> ENTER CODE FOR METHOD USED IN MONTH OF INTERVIEW IN THE CALENDAR AND IN EACH MONTH BACK TO THE DATE STARTED USING.</p> <p>THEN CONTINUE </p>   | <p>YEAR IS 2012 OR EARLIER <input type="checkbox"/></p> <p><b>C</b> ENTER CODE FOR METHOD USED IN MONTH OF INTERVIEW IN THE CALENDAR AND EACH MONTH BACK TO JANUARY 2013 .</p> <p>THEN </p> <p>(SKIP TO 324) </p> |
| 312 | <p>I would like to ask you some questions about the times you or your partner may have used a method to avoid getting pregnant during the last few years.</p> <p>USE CALENDAR TO PROBE FOR EARLIER PERIODS OF USE AND NONUSE, STARTING WITH MOST RECENT USE, BACK TO JANUARY 2013 USE NAMES OF CHILDREN, DATES OF BIRTH, AND PERIODS OF PREGNANCY AS REFERENCE POINTS.</p> <p><b>C</b> IN COLUMN 1, ENTER METHOD USE CODE OR '0' FOR NONUSE IN EACH BLANK MONTH.</p> <p>ILLUSTRATIVE QUESTIONS:</p> <ul style="list-style-type: none"> <li>a) When was the last time you used a method? Which method was that?</li> <li>b) When did you start using that method? How long after the birth of (NAME)?</li> <li>c) How long did you use the method then?</li> </ul> <p><b>C</b> IN COLUMN 2, ENTER CODES FOR DISCONTINUATION NEXT TO THE LAST MONTH OF USE. NUMBER OF CODES IN COLUMN 2 MUST BE SAME AS NUMBER OF INTERRUPTIONS OF METHOD USE IN COLUMN 1.</p> <p><b>C</b> ASK WHY SHE STOPPED USING THE METHOD. IF A PREGNANCY FOLLOWED, ASK WHETHER SHE BECAME PREGNANT UNINTENTIONALLY WHILE USING THE METHOD OR DELIBERATELY STOPPED TO GET PREGNANT.</p> <p>ILLUSTRATIVE QUESTIONS:</p> <ul style="list-style-type: none"> <li>d) Why did you stop using the (METHOD)? Did you become pregnant while using (METHOD), or did you stop to get pregnant, or did you stop for some other reason?</li> <li>e) IF DELIBERATELY STOPPED TO BECOME PREGNANT, ASK: How many months did it take you to get pregnant after you stopped using (METHOD)? AND ENTER '0' IN EACH SUCH MONTH IN COLUMN 1.</li> </ul> |   |

**SECTION 3. CONTRACEPTION**

| 311  | <p>CHECK 308 AND 309:</p> <p align="center">YEAR IS 2013-2018 <input type="checkbox"/></p> <p><b>C</b> ENTER CODE FOR METHOD USED IN MONTH OF INTERVIEW IN THE CALENDAR AND IN EACH MONTH BACK TO THE DATE STARTED USING.</p> <p align="center">THEN CONTINUE</p> <p align="right">↓</p>   |  | <p align="center">YEAR IS 2012 OR EARLIER <input type="checkbox"/></p> <p><b>C</b> ENTER CODE FOR METHOD USED IN MONTH OF INTERVIEW IN THE CALENDAR AND EACH MONTH BACK TO JANUARY 2013 .</p> <p align="center">THEN</p> <p align="right">(SKIP TO 324) ←</p> |  |
|------|--|--|---|--|
| 312  | <p>I would like to ask you some questions about the times you or your partner may have used a method to avoid getting pregnant during the last few years.</p> <p><b>C</b> USE CALENDAR TO PROBE FOR EARLIER PERIODS OF USE AND NONUSE, STARTING WITH MOST RECENT USE, BACK TO JANUARY 2013. USE NAMES OF CHILDREN, DATES OF BIRTH, AND PERIODS OF PREGNANCY AS REFERENCE POINTS.</p> |  |   |  |
|      |  | COLUMN 1   | COLUMN 2  | COLUMN 3   |
| 312A | MONTH AND YEAR OF START OF INTERVAL OF USE OR NON-USE.   | MONTH <input type="text"/> <input type="text"/><br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR | MONTH <input type="text"/> <input type="text"/><br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR  | MONTH <input type="text"/> <input type="text"/><br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR |
| 312B | Between (EVENT) in (MONTH/YEAR) and (EVENT) in (MONTH/YEAR), did you or your partner use any method of contraception?  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 312I) ←  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 312I) ←   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 312I) ←  |
| 312C | Which method was that?   | METHOD CODE .. <input type="text"/>  | METHOD CODE .. <input type="text"/>   | METHOD CODE .. <input type="text"/>  |
| 312D | How many months after (EVENT) in (MONTH/YEAR) did you start to use (METHOD)?<br><br>CIRCLE '95' IF RESPONDENT GIVES THE DATE OF STARTING TO USE THE METHOD.  | IMMEDIATELY ..... 00<br><br>MONTHS .. <input type="text"/> <input type="text"/><br>(SKIP TO 312F) ←<br><br>DATE GIVEN ..... 95                     | IMMEDIATELY ..... 00<br><br>MONTHS .. <input type="text"/> <input type="text"/><br>(SKIP TO 312F) ←<br><br>DATE GIVEN ..... 95  | IMMEDIATELY ..... 00<br><br>MONTHS .. <input type="text"/> <input type="text"/><br>(SKIP TO 312F) ←<br><br>DATE GIVEN ..... 95                     |
| 312E | RECORD MONTH AND YEAR RESPONDENT STARTED USING METHOD.   | MONTH <input type="text"/> <input type="text"/><br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR | MONTH <input type="text"/> <input type="text"/><br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR  | MONTH <input type="text"/> <input type="text"/><br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR |
| 312F | For how many months did you use (METHOD)?<br><br>CIRCLE '95' IF RESPONDENT GIVES THE DATE OF TERMINATION OF USE.   | MONTHS .. <input type="text"/> <input type="text"/><br>(SKIP TO 312H) ←<br><br>DATE GIVEN ..... 95   | MONTHS .. <input type="text"/> <input type="text"/><br>(SKIP TO 312H) ←<br><br>DATE GIVEN ..... 95  | MONTHS .. <input type="text"/> <input type="text"/><br>(SKIP TO 312H) ←<br><br>DATE GIVEN ..... 95   |
| 312G | RECORD MONTH AND YEAR RESPONDENT STOPPED USING METHOD.   | MONTH <input type="text"/> <input type="text"/><br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR | MONTH <input type="text"/> <input type="text"/><br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR  | MONTH <input type="text"/> <input type="text"/><br><br><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>YEAR |
| 312H | Why did you stop using (METHOD)?   | REASON STOPPED ..... <input type="text"/>  | REASON STOPPED ..... <input type="text"/>   | REASON STOPPED ..... <input type="text"/>  |
| 312I |  | GO BACK TO 312A IN NEXT COLUMN; OR, IF NO MORE GAPS, GO TO 313.  | GO BACK TO 312A IN NEXT COLUMN; OR, IF NO MORE GAPS, GO TO 313.   | GO BACK TO 312A IN NEW QUESTIONNAIRE; OR, IF NO MORE GAPS, GO TO 313.  |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP   |
|-----|--|---|--|
| 313 | CHECK THE CALENDAR FOR USE OF ANY CONTRACEPTIVE METHOD IN ANY MONTH<br><br>NO METHOD USED <input type="checkbox"/>   | ANY METHOD USED <input type="checkbox"/>  | → 315  |
| 314 | Have you ever used anything or tried in any way to delay or avoid getting pregnant?  | YES ..... 1<br>NO ..... 2   | → 326  |
| 315 | CHECK 304:<br><br>CIRCLE METHOD CODE:<br><br>IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST.  | NO CODE CIRCLED ..... 00<br>FEMALE STERILIZATION ..... 01<br>MALE STERILIZATION ..... 02<br>IUD ..... 03<br>INJECTABLES ..... 04<br>IMPLANTS ..... 05<br>PILL ..... 06<br>CONDOM ..... 07<br>FEMALE CONDOM ..... 08<br>EMERGENCY CONTRACEPTION ..... 09<br>STANDARD DAYS METHOD ..... 10<br>LACTATIONAL AMENORRHEA METHOD ..... 11<br>RHYTHM METHOD ..... 12<br>WITHDRAWAL ..... 13<br>OTHER MODERN METHOD ..... 95<br>OTHER TRADITIONAL METHOD ..... 96  | → 326<br>→ 319<br>→ 327<br><br>→ 323   |
| 316 | You first started using (CURRENT METHOD) in (DATE FROM 309). Where did you get it at that time?<br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____<br>(NAME OF PLACE) | <b>PUBLIC SECTOR</b><br>GOVERNMENT HOSPITAL ..... 11<br>GOVERNMENT HEALTH CENTER ..... 12<br>GOVERNMENT HEALTH POST ..... 13<br>MOBILE CLINIC/HOSPITAL ..... 14<br>COMMUNITY BASED<br>AGENT/FIELDWORKER ..... 15<br>OTHER PUBLIC SECTOR<br><br>_____<br>(SPECIFY)<br><br><b>PRIVATE MEDICAL SECTOR</b><br>PRIVATE HOSPITAL/CLINIC ..... 21<br>MISSION HOSPITAL/CLINIC ..... 22<br>PHARMACY ..... 23<br>PRIVATE DOCTOR ..... 24<br>MOBILE HOSPITAL/CLINIC ..... 25<br>COMMUNITY BASED<br>AGENT/FIELDWORKER ..... 26<br><br>OTHER PRIVATE MEDICAL SECTOR<br><br>_____<br>(SPECIFY)<br><br><b>OTHER SOURCE</b><br>SHOP ..... 31<br>CHURCH ..... 32<br>FRIEND/RELATIVE ..... 33<br><br>OTHER _____<br>(SPECIFY) | 16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>96 |
| 317 | CHECK 304:<br><br>CIRCLE METHOD CODE:<br><br>IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST.  | IUD ..... 03<br>INJECTABLES ..... 04<br>IMPLANTS ..... 05<br>PILL ..... 06<br>CONDOM ..... 07<br>FEMALE CONDOM ..... 08<br>EMERGENCY CONTRACEPTION ..... 09<br>STANDARD DAYS METHOD ..... 10<br>OTHER MODERN METHOD ..... 95<br>OTHER TRADITIONAL METHOD ..... 96   | → 323<br><br>→ 322<br><br>→ 323  |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP                            |
|-----|---|--|---------------------------------|
| 318 | At that time, were you told about side effects or problems you might have with the method?  | YES ..... 1<br>NO ..... 2  | → 321<br>→ 320                  |
| 319 | When you got sterilized, were you told about side effects or problems you might have with the method?   | YES ..... 1<br>NO ..... 2  | → 321<br>→ 320                  |
| 320 | Were you ever told by a health or family planning worker about side effects or problems you might have with the method?   | YES ..... 1<br>NO ..... 2  | → 322                           |
| 321 | Were you told what to do if you experienced side effects or problems?   | YES ..... 1<br>NO ..... 2  |                                 |
| 322 | CHECK 318 AND 319:<br><br>ANY <input type="checkbox"/><br>'YES' ↓<br>a) At that time, were you told about other methods of family planning that you could use?<br><br>OTHER <input type="checkbox"/><br>↓<br>b) When you obtained (CURRENT METHOD FROM 315) from (SOURCE OF METHOD FROM 307 OR 316), were you told about other methods of family planning that you could use? | YES ..... 1<br>NO ..... 2  | → 324                           |
| 323 | Were you ever told by a health or family planning worker about other methods of family planning that you could use?   | YES ..... 1<br>NO ..... 2  |                                 |
| 324 | CHECK 304:<br><br>CIRCLE METHOD CODE:<br><br>IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST.   | FEMALE STERILIZATION ..... 01<br>MALE STERILIZATION ..... 02<br>IUD ..... 03<br>INJECTABLES ..... 04<br>IMPLANTS ..... 05<br>PILL ..... 06<br>CONDOM ..... 07<br>FEMALE CONDOM ..... 08<br>EMERGENCY CONTRACEPTION ..... 09<br>STANDARD DAYS METHOD ..... 10<br>LACTATIONAL AMENORRHEA METHOD ..... 11<br>RHYTHM METHOD ..... 12<br>WITHDRAWAL ..... 13<br>OTHER MODERN METHOD ..... 95<br>OTHER TRADITIONAL METHOD ..... 96 | → 327<br><br>→ 327<br><br>→ 327 |

SECTION 3. CONTRACEPTION

| NO.                            | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP                      |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
|--------------------------------|---|--|---------------------------|----|--------------------------------|----|------------------------------|----|------------------------------|----|-----------------|--|-------------------------|----|---------------------|--|-------------------------------|----|-------------------------------|----|----------------|----|----------------------|----|------------------------------|----|-----------------|--|-------------------------|----|------------|----|--------------|----|-----------------------|----|--|
| 325                            | <p>Where did you obtain (CURRENT METHOD) the last time?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <hr/> <p>(NAME OF PLACE)</p>   | <p><b>PUBLIC SECTOR</b></p> <table> <tr><td>GOVERNMENT HOSPITAL .....</td><td>11</td></tr> <tr><td>GOVERNMENT HEALTH CENTER .....</td><td>12</td></tr> <tr><td>GOVERNMENT HEALTH POST .....</td><td>13</td></tr> <tr><td>MOBILE CLINIC/HOSPITAL .....</td><td>14</td></tr> <tr><td>COMMUNITY BASED</td><td></td></tr> <tr><td>    AGENT/FIELDWORKER .....</td><td>15</td></tr> <tr><td>    OTHER PUBLIC SECTOR</td><td></td></tr> </table> <hr/> <p style="text-align: right;">16</p> <p>(SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <table> <tr><td>PRIVATE HOSPITAL/CLINIC .....</td><td>21</td></tr> <tr><td>MISSION HOSPITAL/CLINIC .....</td><td>22</td></tr> <tr><td>PHARMACY .....</td><td>23</td></tr> <tr><td>PRIVATE DOCTOR .....</td><td>24</td></tr> <tr><td>MOBILE HOSPITAL/CLINIC .....</td><td>25</td></tr> <tr><td>COMMUNITY BASED</td><td></td></tr> <tr><td>    AGENT/FIELDWORKER .....</td><td>26</td></tr> </table> <p>OTHER PRIVATE MEDICAL SECTOR</p> <hr/> <p style="text-align: right;">27</p> <p>(SPECIFY)</p> <p><b>OTHER SOURCE</b></p> <table> <tr><td>SHOP .....</td><td>31</td></tr> <tr><td>CHURCH .....</td><td>32</td></tr> <tr><td>FRIEND/RELATIVE .....</td><td>33</td></tr> </table> <p>OTHER</p> <hr/> <p style="text-align: right;">96</p> <p>(SPECIFY)</p> | GOVERNMENT HOSPITAL ..... | 11 | GOVERNMENT HEALTH CENTER ..... | 12 | GOVERNMENT HEALTH POST ..... | 13 | MOBILE CLINIC/HOSPITAL ..... | 14 | COMMUNITY BASED |  | AGENT/FIELDWORKER ..... | 15 | OTHER PUBLIC SECTOR |  | PRIVATE HOSPITAL/CLINIC ..... | 21 | MISSION HOSPITAL/CLINIC ..... | 22 | PHARMACY ..... | 23 | PRIVATE DOCTOR ..... | 24 | MOBILE HOSPITAL/CLINIC ..... | 25 | COMMUNITY BASED |  | AGENT/FIELDWORKER ..... | 26 | SHOP ..... | 31 | CHURCH ..... | 32 | FRIEND/RELATIVE ..... | 33 |  |
| GOVERNMENT HOSPITAL .....      | 11  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| GOVERNMENT HEALTH CENTER ..... | 12  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| GOVERNMENT HEALTH POST .....   | 13  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| MOBILE CLINIC/HOSPITAL .....   | 14  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| COMMUNITY BASED                |   |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| AGENT/FIELDWORKER .....        | 15  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| OTHER PUBLIC SECTOR            |   |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| PRIVATE HOSPITAL/CLINIC .....  | 21  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| MISSION HOSPITAL/CLINIC .....  | 22  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| PHARMACY .....                 | 23  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| PRIVATE DOCTOR .....           | 24  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| MOBILE HOSPITAL/CLINIC .....   | 25  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| COMMUNITY BASED                |   |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| AGENT/FIELDWORKER .....        | 26  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| SHOP .....                     | 31  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| CHURCH .....                   | 32  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| FRIEND/RELATIVE .....          | 33  |  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| 326                            | Do you know of a place where you can obtain a method of family planning?  | YES ..... 1<br>NO ..... 2  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| 327                            | In the last 12 months, were you visited by a community health worker?   | YES ..... 1<br>NO ..... 2  | → 329                     |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| 328                            | Did the community health worker talk to you about family planning?  | YES ..... 1<br>NO ..... 2  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| 329                            | <p>CHECK 202: CHILDREN LIVING WITH THE RESPONDENT</p> <p>YES <input type="checkbox"/> </p> <p>a) In the last 12 months, have you visited a health facility for care for yourself or your children?</p> <p>NO <input type="checkbox"/> </p> <p>b) In the last 12 months, have you visited a health facility for care for yourself?</p> | <p>YES ..... 1<br/>NO ..... 2</p>  | → 401                     |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |
| 330                            | Did any health worker at the health facility speak to you about family planning methods?  | YES ..... 1<br>NO ..... 2  |                           |    |                                |    |                              |    |                              |    |                 |  |                         |    |                     |  |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |            |    |              |    |                       |    |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE

|     |   |  |  |
|-----|---|--|--|
| 401 | CHECK 224:<br>ONE OR MORE BIRTHS <input type="checkbox"/> IN 2013-2018 <input type="checkbox"/> NO BIRTHS IN 2013-2018 → 648  |  |  |
| 402 | CHECK 215. RECORD THE BIRTH HISTORY NUMBER IN 403 AND THE NAME AND SURVIVAL STATUS IN 404 FOR EACH BIRTH IN 2013-2018. ASK THE QUESTIONS ABOUT ALL OF THESE BIRTHS. BEGIN WITH THE LAST BIRTH.<br>IF THERE ARE MORE THAN 2 BIRTHS, USE LAST COLUMN OF ADDITIONAL QUESTIONNAIRE(S).<br><br>Now I would like to ask you some questions about the health of all your children born in the last five years. (We will talk about each separately.) |  |  |
| 403 | BIRTH HISTORY NUMBER FROM 212 IN BIRTH HISTORY.   | LAST BIRTH<br>BIRTH HISTORY NUMBER ..... <input type="checkbox"/> <input type="checkbox"/>   | NEXT-TO-LAST BIRTH<br>BIRTH HISTORY NUMBER ..... <input type="checkbox"/> <input type="checkbox"/>                                 |
| 404 | FROM 212 AND 216:   | NAME _____<br>LIVING <input type="checkbox"/> DEAD <input type="checkbox"/><br>↓ ↓   | NAME _____<br>LIVING <input type="checkbox"/> DEAD <input type="checkbox"/><br>↓ ↓   |
| 405 | When you got pregnant with (NAME), did you want to get pregnant at that time?   | YES ..... 1<br>(SKIP TO 408) ←<br>NO ..... 2   | YES ..... 1<br>(SKIP TO 426) ←<br>NO ..... 2   |
| 406 | CHECK 208:<br><br>ONLY ONE <input type="checkbox"/> BIRTH      MORE THAN ONE <input type="checkbox"/> BIRTH<br>a) Did you want to have a baby later on, or did you not want any children?      b) Did you want to have a baby later on, or did you not want any more children?  | LATER ..... 1<br>NO MORE/NONE ..... 2<br>(SKIP TO 408) ←   | LATER ..... 1<br>NO MORE/NONE ..... 2<br>(SKIP TO 426) ←   |
| 407 | How much longer would you have liked to wait?   | MONTHS ..... 1 <input type="checkbox"/> <input type="checkbox"/><br>YEARS ..... 2 <input type="checkbox"/><br>DON'T KNOW ..... 998   | MONTHS ..... 1 <input type="checkbox"/> <input type="checkbox"/><br>YEARS ..... 2 <input type="checkbox"/><br>DON'T KNOW ..... 998 |
| 408 | Did you see anyone for antenatal care for this pregnancy?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 414) ←   |  |
| 409 | Whom did you see?<br><br>Anyone else?<br><br>PROBE TO IDENTIFY EACH TYPE OF PERSON AND RECORD ALL MENTIONED.  | <b>HEALTH PERSONNEL</b><br>DOCTOR ..... A<br>NURSE/MIDWIFE ..... B<br>CLINICAL OFFICER ..... C<br><b>OTHER PERSON</b><br>COMMUNITY/<br>VILLAGE HEALTH<br>ASSISTANT ..... D<br>TRADITIONAL BIRTH<br>ATTENDANT ..... E<br>COMMUNITY/<br>VILLAGE HEALTH<br>WORKER ..... F<br>OTHER _____ X<br>(SPECIFY) |  |

**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____ |  |  |
|-----|--|---|----------------------------------|--|--|
| 410 | <p>Where did you receive antenatal care for this pregnancy?</p> <p>Anywhere else?</p> <p><b>PROBE TO IDENTIFY THE TYPE OF SOURCE.</b></p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____ (NAME OF PLACE)</p> | <p><b>HOME</b><br/>           HER HOME ..... A<br/>           OTHER HOME ..... B</p> <p><b>PUBLIC SECTOR</b><br/>           GOVERNMENT HOSPITAL.. C<br/>           GOVERNMENT HEALTH CENTER ..... D<br/>           GOVERNMENT HEALTH POST ..... E<br/>           MOBILE HOSPITAL/CLINIC.. F<br/>           OTHER PUBLIC SECTOR<br/>           _____ G<br/>           (SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b><br/>           PRIVATE HOSPITAL/ CLINIC ..... H<br/>           MISSION HOSPITAL/ CLINIC ..... I<br/>           OTHER PRIVATE MEDICAL SECTOR<br/>           _____ J<br/>           (SPECIFY)</p> <p>OTHER _____ X<br/>           (SPECIFY)</p> |                                  |  |  |
| 411 | How many months pregnant were you when you first received antenatal care for this pregnancy?   | MONTHS ..... <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr></table><br>DON'T KNOW ..... 98  |                                  |  |  |
|     |  |   |                                  |  |  |
| 412 | How many times did you receive antenatal care during this pregnancy?   | NUMBER OF TIMES ..... <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr></table><br>DON'T KNOW ..... 98   |                                  |  |  |
|     |  |   |                                  |  |  |
| 413 | As part of your antenatal care during this pregnancy, were any of the following done at least once:  | YES      NO<br>a) BP ..... 1      2<br>b) URINE ..... 1      2<br>c) BLOOD ..... 1      2<br>d) WEIGHED ..... 1      2  |                                  |  |  |
| 414 | During this pregnancy, were you given an injection in the arm to prevent the baby from getting tetanus, that is, convulsions after birth?  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 417) ←<br>DON'T KNOW ..... 8  |                                  |  |  |
| 415 | During this pregnancy, how many times did you get this tetanus injection?  | TIMES ..... <table border="1" style="display: inline-table;"><tr><td></td></tr></table><br>DON'T KNOW ..... 8   |                                  |  |  |
|     |  |   |                                  |  |  |

**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____ |
|-----|---|---|----------------------------------|
| 416 | CHECK 415:  | 2 OR MORE TIMES <input type="checkbox"/><br>OTHER <input type="checkbox"/><br>(SKIP TO 420) ← ↓       |                                  |
| 417 | At any time before this pregnancy, did you receive any tetanus injections?  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 420) ← ↓<br>DON'T KNOW ..... 8                                  |                                  |
| 418 | Before this pregnancy, how many other times did you receive a tetanus injection?<br><br>IF 7 OR MORE TIMES, RECORD '7'.   | TIMES ..... <input type="text"/><br><br>DON'T KNOW ..... 8  |                                  |
| 419 | CHECK 418:<br><br>ONLY <input type="checkbox"/> ONE ↓      MORE <input type="checkbox"/> THAN ONE ↓<br>a) How many years ago did you receive that tetanus injection?<br>b) How many years ago did you receive the last tetanus injection before this pregnancy? | YEARS AGO ..... <input type="text"/> <input type="text"/>   |                                  |
| 420 | During this pregnancy, were you given or did you buy any iron tablets or iron syrup?<br><br>SHOW TABLETS/SYRUP.   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 422) ← ↓<br>DON'T KNOW ..... 8                                  |                                  |
| 421 | During the whole pregnancy, for how many days did you take the tablets or syrup?<br><br>IF ANSWER IS NOT NUMERIC, PROBE FOR APPROXIMATE NUMBER OF DAYS.   | DAYS ..... <input type="text"/> <input type="text"/> <input type="text"/><br><br>DON'T KNOW ..... 998 |                                  |
| 422 | During this pregnancy, did you take any drug for intestinal worms?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |                                  |
| 423 | During this pregnancy, did you take SP/Fansidar to keep you from getting malaria?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 426) ← ↓<br>DON'T KNOW ..... 8                                  |                                  |
| 424 | How many times did you take SP/Fansidar during this pregnancy?  | TIMES ..... <input type="text"/> <input type="text"/>   |                                  |
| 425 | Did you get the SP/Fansidar during any antenatal care visit, during another visit to a health facility or from another source?<br><br>IF MORE THAN ONE SOURCE, RECORD THE HIGHEST SOURCE ON THE LIST.   | ANTENATAL VISIT ..... 1<br><br>ANOTHER FACILITY VISIT ..... 2<br>OTHER SOURCE ..... 6                 |                                  |

## SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH   | NEXT-TO-LAST BIRTH   |
|-----|--|--|--|
| 426 | When (NAME) was born, was he/she very large, larger than average, average, smaller than average, or very small?  | VERY LARGE ..... 1<br>LARGER THAN .....<br>AVERAGE ..... 2<br>AVERAGE ..... 3<br>SMALLER THAN .....<br>AVERAGE ..... 4<br>VERY SMALL ..... 5<br>DONT KNOW ..... 8  | VERY LARGE ..... 1<br>LARGER THAN .....<br>AVERAGE ..... 2<br>AVERAGE ..... 3<br>SMALLER THAN .....<br>AVERAGE ..... 4<br>VERY SMALL ..... 5<br>DONT KNOW ..... 8  |
| 427 | Was (NAME) weighed at birth?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 429) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 429) ←<br>DON'T KNOW ..... 8   |
| 428 | How much did (NAME) weigh?<br><br>RECORD WEIGHT IN KILOGRAMS FROM HEALTH CARD, IF AVAILABLE.   | KG FROM CARD<br>1 <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br>KG FROM RECALL<br>2 <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br>DON'T KNOW ..... 99998   | KG FROM CARD<br>1 <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br>KG FROM RECALL<br>2 <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br>DON'T KNOW ..... 99998   |
| 429 | Who assisted with the delivery of (NAME)?<br><br>Anyone else?<br>PROBE FOR THE TYPE(S) OF PERSON(S) AND RECORD ALL MENTIONED.<br><br>IF RESPONDENT SAYS NO ONE ASSISTED, PROBE TO DETERMINE WHETHER ANY ADULTS WERE PRESENT AT THE DELIVERY. | <b>HEALTH PERSONNEL</b><br>DOCTOR ..... A<br>NURSE/MIDWIFE ..... B<br>CLINICAL OFFICER ..... C<br><b>OTHER PERSON</b><br>COMMUNITY/<br>VILLAGE HEALTH<br>ASSISTANT ..... D<br>TRADITIONAL BIRTH<br>ATTENDANT ..... E<br>COMMUNITY/<br>VILLAGE HEALTH<br>WORKER ..... F<br>RELATIVE/FRIEND ..... G<br>OTHER ..... X<br>(SPECIFY)<br>NO ONE ASSISTED ..... Y | <b>HEALTH PERSONNEL</b><br>DOCTOR ..... A<br>NURSE/MIDWIFE ..... B<br>CLINICAL OFFICER ..... C<br><b>OTHER PERSON</b><br>COMMUNITY/<br>VILLAGE HEALTH<br>ASSISTANT ..... D<br>TRADITIONAL BIRTH<br>ATTENDANT ..... E<br>COMMUNITY/<br>VILLAGE HEALTH<br>WORKER ..... F<br>RELATIVE/FRIEND ..... G<br>OTHER ..... X<br>(SPECIFY)<br>NO ONE ASSISTED ..... Y |

**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO.  | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| 430  | <p>Where did you give birth to (NAME)?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br/>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <hr/> <p>(NAME OF PLACE)</p> | <p><b>HOME</b></p> <p>HER HOME ..... 11<br/>(SKIP TO 434) ←</p> <p>OTHER HOME ..... 12</p> <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL.. 21<br/>GOVERNMENT HEALTH CENTER ..... 22<br/>GOVERNMENT HEALTH POST ..... 23<br/>OTHER PUBLIC SECTOR</p> <hr/> <p>26<br/>(SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/ CLINIC ..... 31<br/>MISSION HOSPITAL/ CLINIC ..... 32<br/>OTHER PRIVATE MEDICAL SECTOR</p> <hr/> <p>36<br/>(SPECIFY)</p> <p>OTHER ..... 96<br/>(SPECIFY)<br/>(SKIP TO 434) ←</p> | <p><b>HOME</b></p> <p>HER HOME ..... 11<br/>(SKIP TO 434) ←</p> <p>OTHER HOME ..... 12</p> <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL.. 21<br/>GOVERNMENT HEALTH CENTER ..... 22<br/>GOVERNMENT HEALTH POST ..... 23<br/>OTHER PUBLIC SECTOR</p> <hr/> <p>26<br/>(SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/ CLINIC ..... 31<br/>MISSION HOSPITAL/ CLINIC ..... 32<br/>OTHER PRIVATE MEDICAL SECTOR</p> <hr/> <p>36<br/>(SPECIFY)</p> <p>OTHER ..... 96<br/>(SPECIFY)<br/>(SKIP TO 434) ←</p> |  |  |  |  |  |  |  |  |  |  |  |  |
| 431  | <p>How long after (NAME) was delivered did you stay there?</p> <p>IF LESS THAN ONE DAY, RECORD HOURS;<br/>IF LESS THAN ONE WEEK, RECORD DAYS.</p>   | <p>HOURS ..... 1 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>DAYS ..... 2 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>WEEKS ..... 3 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>DON'T KNOW ..... 998</p>                 |   |  |  |  |  |  |  |  |  |  |  |  |  |
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| 432  | <p>Was (NAME) delivered by caesarean, that is, did they cut your belly open to take the baby out?</p>   | <p>YES ..... 1<br/>NO ..... 2</p> <p>(SKIP TO 434) ←</p>  | <p>YES ..... 1<br/>NO ..... 2</p> <p>(SKIP TO 434) ←</p>  |  |  |  |  |  |  |  |  |  |  |  |  |
| 433  | <p>When was the decision made to have the caesarean section? Was it before or after your labor pains started?</p>   | <p>BEFORE ..... 1<br/>AFTER ..... 2</p>   | <p>BEFORE ..... 1<br/>AFTER ..... 2</p>   |  |  |  |  |  |  |  |  |  |  |  |  |
| 434  | <p>Immediately after the birth, was (NAME) put on your chest?</p>   | <p>YES ..... 1<br/>NO ..... 2</p> <p>(SKIP TO 434B) ←</p> <p>DON'T KNOW ..... 8</p>   | <p>YES ..... 1<br/>NO ..... 2</p> <p>(SKIP TO 459) ←</p> <p>DON'T KNOW ..... 8</p>  |  |  |  |  |  |  |  |  |  |  |  |  |
| 434A | <p>Was (NAME)'s bare skin touching your bare skin?</p>  | <p>YES ..... 1<br/>NO ..... 2<br/>DON'T KNOW ..... 8</p>  | <p>YES ..... 1<br/>NO ..... 2<br/>DON'T KNOW ..... 8</p>  |  |  |  |  |  |  |  |  |  |  |  |  |
| 434B | <p>CHECK 430: PLACE OF DELIVERY</p>   | <p>CODE<br/>11, 12, OR 96 <input type="checkbox"/> CIRCLED<br/>(SKIP TO 449) ←</p> <p>OTHER <input type="checkbox"/><br/>↓</p>  |   |  |  |  |  |  |  |  |  |  |  |  |  |

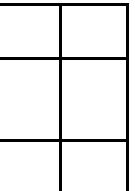
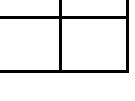
**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|--|---|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 435 | <p>I would like to talk to you about checks on your health after delivery, for example, someone asking you questions about your health or examining you. Did anyone check on your health while you were still in the facility?</p>                     | <p>YES ..... 1<br/>         NO ..... 2<br/>                                 (SKIP TO 438) ←</p>   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 436 | <p>How long after delivery did the first check take place?<br/><br/>         IF LESS THAN ONE DAY,<br/>         RECORD HOURS;<br/>         IF LESS THAN ONE WEEK,<br/>         RECORD DAYS.</p>  | <p>HOURS ..... 1      <table border="1" data-bbox="917 489 1049 646" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br/>         DAYS ..... 2      <table border="1" data-bbox="917 646 1049 714" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br/>         WEEKS ..... 3      <table border="1" data-bbox="917 714 1049 714" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br/>         DON'T KNOW ..... 998</p>       |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 437 | <p>Who checked on your health at that time?<br/><br/>         PROBE FOR MOST QUALIFIED PERSON.</p>   | <p><b>HEALTH PERSONNEL</b><br/>         DOCTOR ..... 11<br/>         NURSE/MIDWIFE ..... 12<br/>         CLINICAL OFFICER ..... 13<br/> <b>OTHER PERSON</b><br/>         COMMUNITY/<br/>             VILLAGE HEALTH<br/>             ASSISTANT ..... 21<br/>         TRADITIONAL BIRTH<br/>             ATTENDANT ..... 22<br/>         COMMUNITY/<br/>             VILLAGE HEALTH<br/>             WORKER ..... 23<br/>         RELATIVE/FRIEND ..... 24<br/>         OTHER ..... 96<br/>                                 (SPECIFY)</p>  |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 438 | <p>Now I would like to talk to you about checks on (NAME)'s health after delivery – for example, someone examining (NAME), checking the cord, or seeing if (NAME) is OK. Did anyone check on (NAME)'s health while you were still in the facility?</p> | <p>YES ..... 1<br/>         NO ..... 2<br/>                                 (SKIP TO 441) ←<br/>         DON'T KNOW ..... 8</p>   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 439 | <p>How long after delivery was (NAME)'s health first checked?<br/><br/>         IF LESS THAN ONE DAY,<br/>         RECORD HOURS;<br/>         IF LESS THAN ONE WEEK,<br/>         RECORD DAYS.</p>   | <p>HOURS ..... 1      <table border="1" data-bbox="917 1495 1049 1653" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br/>         DAYS ..... 2      <table border="1" data-bbox="917 1653 1049 1720" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br/>         WEEKS ..... 3      <table border="1" data-bbox="917 1720 1049 1720" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br/>         DON'T KNOW ..... 998</p> |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____ |  |  |  |  |  |  |  |  |  |
|-----|--|---|----------------------------------|--|--|--|--|--|--|--|--|--|
| 440 | <p>Who checked on (NAME)'s health at that time?</p> <p>PROBE FOR MOST QUALIFIED PERSON.</p>  | <b>HEALTH PERSONNEL</b><br>DOCTOR ..... 11<br>NURSE/MIDWIFE ..... 12<br>CLINICAL OFFICER ..... 13<br><b>OTHER PERSON</b><br>COMMUNITY/<br>VILLAGE HEALTH<br>ASSISTANT ..... 21<br>TRADITIONAL BIRTH<br>ATTENDANT ..... 22<br>COMMUNITY/<br>VILLAGE HEALTH<br>WORKER ..... 23<br>OTHER _____ 96<br>(SPECIFY)   |                                  |  |  |  |  |  |  |  |  |  |
| 441 | <p>Now I want to talk to you about what happened after you left the facility. Did anyone check on your health after you left the facility?</p>       | YES ..... 1<br>NO ..... 2<br>(SKIP TO 445) ←  |                                  |  |  |  |  |  |  |  |  |  |
| 442 | <p>How long after delivery did that check take place?</p> <p>IF LESS THAN ONE DAY,<br/>RECORD HOURS;<br/>IF LESS THAN ONE WEEK,<br/>RECORD DAYS.</p> | HOURS ..... 1 <table border="1" data-bbox="917 893 1049 968"><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr></table><br>DAYS ..... 2 <table border="1" data-bbox="917 968 1049 1042"><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr></table><br>WEEKS ..... 3 <table border="1" data-bbox="917 1042 1049 1116"><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr></table><br>DON'T KNOW ..... 998 |                                  |  |  |  |  |  |  |  |  |  |
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| 443 | <p>Who checked on your health at that time?</p> <p>PROBE FOR MOST QUALIFIED PERSON.</p>  | <b>HEALTH PERSONNEL</b><br>DOCTOR ..... 11<br>NURSE/MIDWIFE ..... 12<br>CLINICAL OFFICER ..... 13<br><b>OTHER PERSON</b><br>COMMUNITY/<br>VILLAGE HEALTH<br>ASSISTANT ..... 21<br>TRADITIONAL BIRTH<br>ATTENDANT ..... 22<br>COMMUNITY/<br>VILLAGE HEALTH<br>WORKER ..... 23<br>OTHER _____ 96<br>(SPECIFY)   |                                  |  |  |  |  |  |  |  |  |  |

**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____ |
|-----|---|--|----------------------------------|
| 444 | <p>Where did the check take place?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <hr/> <p>(NAME OF PLACE)</p>  | <p><b>HOME</b></p> <p>HER HOME ..... 11<br/>OTHER HOME ..... 12</p> <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL.. 21<br/>GOVERNMENT HEALTH CENTER ..... 22<br/>GOVERNMENT HEALTH POST ..... 23<br/>OTHER PUBLIC SECTOR</p> <hr/> <p>26<br/>(SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/<br/>CLINIC ..... 31<br/>MISSION HOSPITAL/<br/>CLINIC ..... 32<br/>OTHER PRIVATE<br/>MEDICAL SECTOR</p> <hr/> <p>36<br/>(SPECIFY)</p> <p>OTHER ..... 96<br/>(SPECIFY)</p> |                                  |
| 445 | <p>I would like to talk to you about checks on (NAME)'s health after you left (FACILITY IN 430). Did any health care provider or a traditional birth attendant check on (NAME)'s health in the two months after you left (FACILITY IN 430)?</p> | <p>YES ..... 1<br/>NO ..... 2<br/><b>(SKIP TO 457) ←</b><br/>DON'T KNOW ..... 8</p>  |                                  |
| 446 | <p>How many hours, days or weeks after the birth of (NAME) did that check take place?</p> <p>IF LESS THAN ONE DAY,<br/>RECORD HOURS;<br/>IF LESS THAN ONE WEEK,<br/>RECORD DAYS.</p>  | <p>HOURS ..... 1 </p> <p>DAYS ..... 2 </p> <p>WEEKS ..... 3 </p> <p>DON'T KNOW ..... 998</p>   |                                  |
| 447 | <p>Who checked on (NAME)'s health at that time?</p> <p>PROBE FOR MOST QUALIFIED PERSON.</p>   | <p><b>HEALTH PERSONNEL</b></p> <p>DOCTOR ..... 11<br/>NURSE/MIDWIFE ..... 12<br/>CLINICAL OFFICER ..... 13</p> <p><b>OTHER PERSON</b></p> <p>COMMUNITY/<br/>VILLAGE HEALTH<br/>ASSISTANT ..... 21<br/>TRADITIONAL BIRTH<br/>ATTENDANT ..... 22<br/>COMMUNITY/<br/>VILLAGE HEALTH<br/>WORKER ..... 23<br/>OTHER ..... 96<br/>(SPECIFY)</p>  |                                  |

**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____ |
|-----|---|--|----------------------------------|
| 448 | <p>Where did this check of (NAME) take place?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <hr style="border-top: 1px solid black; margin-bottom: 10px;"/> <p>(NAME OF PLACE)</p> | <b>HOME</b><br>HER HOME ..... 11<br>OTHER HOME ..... 12<br><br><b>PUBLIC SECTOR</b><br>GOVERNMENT HOSPITAL.. 21<br>GOVERNMENT HEALTH<br>CENTER ..... 22<br>GOVERNMENT HEALTH<br>POST ..... 23<br>OTHER PUBLIC SECTOR<br><br><hr style="border-top: 1px solid black; margin-top: 10px;"/> <p>26<br/>         (SPECIFY)</p><br><b>PRIVATE MEDICAL SECTOR</b><br>PRIVATE HOSPITAL/<br>CLINIC ..... 31<br>MISSION HOSPITAL/<br>CLINIC ..... 32<br>OTHER PRIVATE<br>MEDICAL SECTOR<br><br><hr style="border-top: 1px solid black; margin-top: 10px;"/> <p>36<br/>         (SPECIFY)</p><br>OTHER ..... 96<br>(SPECIFY)<br><br><p style="text-align: right;">(SKIP TO 457) ←</p> |                                  |

**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____ |
|-----|---|---|----------------------------------|
| 449 | I would like to talk to you about checks on your health after delivery, for example, someone asking you questions about your health or examining you. Did anyone check on your health after you gave birth to (NAME)? | YES ..... 1<br>NO ..... 2<br><br>(SKIP TO 453) ←  |                                  |
| 450 | How long after delivery did the first check take place?<br><br>IF LESS THAN ONE DAY,<br>RECORD HOURS;<br>IF LESS THAN ONE WEEK,<br>RECORD DAYS.   | HOURS ..... 1<br><br>DAYS ..... 2<br><br>WEEKS ..... 3<br><br>DON'T KNOW ..... 998  |                                  |
| 451 | Who checked on your health at that time?<br><br>PROBE FOR MOST QUALIFIED PERSON.  | <b>HEALTH PERSONNEL</b><br>DOCTOR ..... 11<br>NURSE/MIDWIFE ..... 12<br>CLINICAL OFFICER ..... 13<br><b>OTHER PERSON</b><br>COMMUNITY/<br>VILLAGE HEALTH<br>ASSISTANT ..... 21<br>TRADITIONAL BIRTH<br>ATTENDANT ..... 22<br>COMMUNITY/<br>VILLAGE HEALTH<br>WORKER ..... 23<br>OTHER ..... 96<br>(SPECIFY)   |                                  |
| 452 | Where did this first check take place?<br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____<br>(NAME OF PLACE)           | <b>HOME</b><br>HER HOME ..... 11<br>OTHER HOME ..... 12<br><br><b>PUBLIC SECTOR</b><br>GOVERNMENT HOSPITAL.. 21<br>GOVERNMENT HEALTH<br>CENTER ..... 22<br>GOVERNMENT HEALTH<br>POST ..... 23<br>OTHER PUBLIC SECTOR<br><br>_____<br>(SPECIFY)<br><br><b>PRIVATE MEDICAL SECTOR</b><br>PRIVATE HOSPITAL/<br>CLINIC ..... 31<br>MISSION HOSPITAL/<br>CLINIC ..... 32<br>OTHER PRIVATE<br>MEDICAL SECTOR<br><br>_____<br>(SPECIFY)<br><br>OTHER ..... 96<br>(SPECIFY) |                                  |

**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____ |  |  |  |  |  |  |  |  |
|-----|--|---|----------------------------------|--|--|--|--|--|--|--|--|
| 453 | I would like to talk to you about checks on (NAME)'s health after delivery – for example, someone examining (NAME), checking the cord, or seeing if (NAME) is OK. In the two months after (NAME) was born, did any health care provider or a traditional birth attendant check on (NAME)'s health? | <p>YES ..... 1</p> <p>NO ..... 2</p> <p style="text-align: right;">(SKIP TO 457) ←</p> <p>DON'T KNOW ..... 8</p>  |                                  |  |  |  |  |  |  |  |  |
| 454 | <p>How many hours, days or weeks after the birth of (NAME) did the first check take place?</p> <p>IF LESS THAN ONE DAY, RECORD HOURS;<br/>IF LESS THAN ONE WEEK, RECORD DAYS.</p>  | <p>HOURS AFTER<br/>BIRTH ..... 1</p> <table border="1" data-bbox="913 595 1049 759"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table> <p>DAYS AFTER<br/>BIRTH ..... 2</p> <p>WEEKS AFTER<br/>BIRTH ..... 3</p> <p>DON'T KNOW ..... 998</p>  |                                  |  |  |  |  |  |  |  |  |
|     |  |   |                                  |  |  |  |  |  |  |  |  |
|     |  |   |                                  |  |  |  |  |  |  |  |  |
|     |  |   |                                  |  |  |  |  |  |  |  |  |
|     |  |   |                                  |  |  |  |  |  |  |  |  |
| 455 | <p>Who checked on (NAME)'s health at that time?</p> <p>PROBE FOR MOST QUALIFIED PERSON.</p>  | <p><b>HEALTH PERSONNEL</b></p> <p>DOCTOR ..... 11</p> <p>NURSE/MIDWIFE ..... 12</p> <p>CLINICAL OFFICER ..... 13</p> <p><b>OTHER PERSON</b></p> <p>COMMUNITY/</p> <p>VILLAGE HEALTH ASSISTANT ..... 21</p> <p>TRADITIONAL BIRTH ATTENDANT ..... 22</p> <p>COMMUNITY/</p> <p>VILLAGE HEALTH WORKER ..... 23</p> <p>OTHER ..... 96</p> <p>(SPECIFY)</p>   |                                  |  |  |  |  |  |  |  |  |
| 456 | <p>Where did this first check of (NAME) take place?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <hr/> <p>(NAME OF PLACE)</p>  | <p><b>HOME</b></p> <p>HER HOME ..... 11</p> <p>OTHER HOME ..... 12</p> <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL.. 21</p> <p>GOVERNMENT HEALTH CENTER ..... 22</p> <p>GOVERNMENT HEALTH POST ..... 23</p> <p>OTHER PUBLIC SECTOR</p> <hr/> <p>..... 26</p> <p>(SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/<br/>CLINIC ..... 31</p> <p>MISSION HOSPITAL/<br/>CLINIC ..... 32</p> <p>OTHER PRIVATE<br/>MEDICAL SECTOR</p> <hr/> <p>..... 36</p> <p>(SPECIFY)</p> <p>OTHER ..... 96</p> <p>SPECIFY</p> |                                  |  |  |  |  |  |  |  |  |

**SECTION 4. PREGNANCY AND POSTNATAL CARE**

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____                        |  |   |  |  |
|-----|---|---|---|--|---|--|--|
| 457 | <p>During the first two days after (NAME)'s birth, did any health care provider do the following:</p> <p>a) Examine the cord?<br/> b) Measure (NAME)'s temperature?<br/> <br/> c) Counsel you on danger signs for newborns?<br/> <br/> d) Counsel you on breastfeeding?<br/> <br/> e) Observe (NAME) breastfeeding?</p> | <p style="text-align: center;">YES    NO    DK</p> <p>a) CORD ..... 1    2    8<br/> b) TEMP. ..... 1    2    8<br/> <br/> c) SIGNS ..... 1    2    8<br/> <br/> d) COUNSEL<br/>BREAST-<br/>FEED ..... 1    2    8<br/> e) OBSERVE<br/>BREAST-<br/>FEED ..... 1    2    8</p>   |   |  |   |  |  |
| 458 | Has your menstrual period returned since the birth of (NAME)?   | <p>YES ..... 1<br/> (SKIP TO 460) ←</p> <p>NO ..... 2<br/> (SKIP TO 461) ←</p>  |   |  |   |  |  |
| 459 | Did your period return between the birth of (NAME) and your next pregnancy?   |   | <p>YES ..... 1<br/> NO ..... 2<br/> (SKIP TO 463) ←</p> |  |   |  |  |
| 460 | For how many months after the birth of (NAME) did you not have a period?  | <p>MONTHS ..... <table border="1" data-bbox="917 994 1044 1051" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table></p> <p>DON'T KNOW ..... 98</p>   |   |  | <p>MONTHS ..... <table border="1" data-bbox="1322 994 1449 1051" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table></p> <p>DON'T KNOW ..... 98</p>  |  |  |
|     |   |   |   |  |   |  |  |
|     |   |   |   |  |   |  |  |
| 461 | CHECK 226: IS RESPONDENT PREGNANT?  | <p>NOT PREGNANT <input type="checkbox"/><br/> PREGNANT <input type="checkbox"/> OR<br/> UNSURE <input type="checkbox"/><br/> (SKIP TO 463) ←</p>  |   |  |   |  |  |
| 462 | Have you had sexual intercourse since the birth of (NAME)?  | <p>YES ..... 1<br/> NO ..... 2<br/> (SKIP TO 464) ←</p>   |   |  |   |  |  |
| 463 | For how many months after the birth of (NAME) did you not have sexual intercourse?  | <p>MONTHS ..... <table border="1" data-bbox="917 1376 1044 1432" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table></p> <p>DON'T KNOW ..... 98</p>  |   |  | <p>MONTHS ..... <table border="1" data-bbox="1322 1376 1449 1432" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table></p> <p>DON'T KNOW ..... 98</p> |  |  |
|     |   |   |   |  |   |  |  |
|     |   |   |   |  |   |  |  |
| 464 | Did you ever breastfeed (NAME)?   | <p>YES ..... 1<br/> (SKIP TO 466) ←</p> <p>NO ..... 2</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p>                    |  |   |  |  |
| 465 | CHECK 404: IS CHILD LIVING?   | <p>LIVING <input type="checkbox"/> DEAD <input type="checkbox"/><br/> (SKIP TO 470) ← (SKIP TO 471) ←</p>   |   |  |   |  |  |
| 466 | <p>How long after birth did you first put (NAME) to the breast?<br/> <br/> IF LESS THAN 1 HOUR,<br/> RECORD '00' HOURS;<br/> IF LESS THAN 24 HOURS,<br/> RECORD HOURS;<br/> OTHERWISE, RECORD DAYS.</p>   | <p>IMMEDIATELY ..... 000</p> <p>HOURS ..... 1 <table border="1" data-bbox="917 1848 1044 1904" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table></p> <p>DAYS ..... 2 <table border="1" data-bbox="917 1904 1044 1960" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table></p> |   |  |   |  |  |
|     |   |   |   |  |   |  |  |
|     |   |   |   |  |   |  |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____   |
|-----|--|---|--|
| 467 | In the first three days after delivery, was (NAME) given anything to drink other than breast milk? | YES ..... 1<br>NO ..... 2   |  |
| 468 | CHECK 404: IS CHILD LIVING?  | LIVING <input type="checkbox"/><br>DEAD <input type="checkbox"/><br>(SKIP TO 471) ← | LIVING <input type="checkbox"/><br>DEAD <input type="checkbox"/><br>(SKIP TO 471) ←            |
| 469 | Are you still breastfeeding (NAME)?  | YES ..... 1<br>NO ..... 2   |  |
| 470 | Did (NAME) drink anything from a bottle with a nipple yesterday or last night?                     | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8                                     | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |
| 471 |  | GO BACK TO 405 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 501A.                   | GO BACK TO 405 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 501A. |

SECTION 5A. CHILD IMMUNIZATION (LAST BIRTH)

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP   |
|------|--|---|--------|
| 501A | CHECK 215 IN THE BIRTH HISTORY: ANY BIRTHS IN 2015-2018?<br><br>ONE OR MORE BIRTHS IN 2015-2018 <input type="checkbox"/><br>↓  | NO BIRTHS IN 2015-2018 <input type="checkbox"/>   | → 601  |
| 502A | RECORD THE NAME AND BIRTH HISTORY NUMBER FROM 212 OF THE LAST CHILD BORN IN 2015-2018.<br><br>NAME OF LAST BIRTH _____ BIRTH HISTORY NUMBER..... <input type="checkbox"/> <input type="checkbox"/> |   |        |
| 503A | CHECK 216 FOR CHILD:<br><br>LIVING <input type="checkbox"/><br>↓   | DEAD <input type="checkbox"/>   | → 501B |
| 504A | Do you have a card or other document where (NAME)'s vaccinations are written down?   | YES, HAS ONLY A CARD ..... 1<br>YES, HAS ONLY AN OTHER DOCUMENT .. 2<br>YES, HAS CARD AND OTHER DOCUMENT .. 3<br>NO, NO CARD AND NO OTHER DOCUMENT .. 4   | → 507A |
| 505A | Did you ever have a vaccination card for (NAME)?   | YES ..... 1<br>NO ..... 2   |        |
| 506A | CHECK 504A:<br><br>CODE '2' CIRCLED <input type="checkbox"/><br>↓  | CODE '4' CIRCLED <input type="checkbox"/>   | → 511A |
| 507A | May I see the card or other document where (NAME)'s vaccinations are written down?   | YES, ONLY CARD SEEN ..... 1<br>YES, ONLY OTHER DOCUMENT SEEN ..... 2<br>YES, CARD AND OTHER DOCUMENT SEEN .. 3<br>NO CARD AND NO OTHER DOCUMENT SEEN .. 4 | → 511A |

**SECTION 5A. CHILD IMMUNIZATION (LAST BIRTH)**

| NO.                                     | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP  |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
|---|---|--|---|--|-----|-------|------|--|----------------|--|--|--|--|---|--|--|--|--|----------------------------|--|--|--|--|----------------------------|--|--|--|--|----------------------------|--|--|--|--|----------------------------|--|--|--|--|-------|--|--|--|--|-------|--|--|--|--|-------|--|--|--|--|-------------------------------|--|--|--|--|-------------------------------|--|--|--|--|-------------------------------|--|--|--|--|---------------------------------|--|--|--|--|---------------------------------|--|--|--|--|----------------|--|--|--|--|----------------|--|--|--|--|-------------------------|--|--|--|--|
|   | NAME OF LAST BIRTH _____  | BIRTH HISTORY NUMBER .....   | <input type="checkbox"/> <input type="checkbox"/> |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| 508A                                    | <p>COPY DATES FROM THE CARD.<br/>WRITE '44' IN 'DAY' COLUMN IF CARD SHOWS THAT A DOSE WAS GIVEN, BUT NO DATE IS RECORDED.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; width: 20%;"> </th> <th style="text-align: center; width: 20%;">DAY</th> <th style="text-align: center; width: 20%;">MONTH</th> <th style="text-align: center; width: 20%;">YEAR</th> <th style="text-align: center; width: 20%;"> </th> </tr> </thead> <tbody> <tr><td style="text-align: right;">BCG (at birth)</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">ORAL POLIO VACCINE (OPV) 0 (BIRTH DOSE)</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">ORAL POLIO VACCINE (OPV) 1</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">ORAL POLIO VACCINE (OPV) 2</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">ORAL POLIO VACCINE (OPV) 3</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">ORAL POLIO VACCINE (OPV) 4</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">PCV 1</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">PCV 2</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">PCV 3</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">DPT-HEP.B-HIB (PENTAVALENT) 1</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">DPT-HEP.B-HIB (PENTAVALENT) 2</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">DPT-HEP.B-HIB (PENTAVALENT) 3</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">MEASLES / MEASLES AND RUBELLA 1</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">MEASLES / MEASLES AND RUBELLA 2</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">ROTA VACCINE 1</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">ROTA VACCINE 2</td><td></td><td></td><td></td><td></td></tr> <tr><td style="text-align: right;">VITAMIN A (MOST RECENT)</td><td></td><td></td><td></td><td></td></tr> </tbody> </table> |  |   |  | DAY | MONTH | YEAR |  | BCG (at birth) |  |  |  |  | ORAL POLIO VACCINE (OPV) 0 (BIRTH DOSE) |  |  |  |  | ORAL POLIO VACCINE (OPV) 1 |  |  |  |  | ORAL POLIO VACCINE (OPV) 2 |  |  |  |  | ORAL POLIO VACCINE (OPV) 3 |  |  |  |  | ORAL POLIO VACCINE (OPV) 4 |  |  |  |  | PCV 1 |  |  |  |  | PCV 2 |  |  |  |  | PCV 3 |  |  |  |  | DPT-HEP.B-HIB (PENTAVALENT) 1 |  |  |  |  | DPT-HEP.B-HIB (PENTAVALENT) 2 |  |  |  |  | DPT-HEP.B-HIB (PENTAVALENT) 3 |  |  |  |  | MEASLES / MEASLES AND RUBELLA 1 |  |  |  |  | MEASLES / MEASLES AND RUBELLA 2 |  |  |  |  | ROTA VACCINE 1 |  |  |  |  | ROTA VACCINE 2 |  |  |  |  | VITAMIN A (MOST RECENT) |  |  |  |  |
|   | DAY   | MONTH  | YEAR  |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| BCG (at birth)                          |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 0 (BIRTH DOSE) |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 1              |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 2              |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 3              |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 4              |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| PCV 1                                   |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| PCV 2                                   |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| PCV 3                                   |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| DPT-HEP.B-HIB (PENTAVALENT) 1           |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| DPT-HEP.B-HIB (PENTAVALENT) 2           |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| DPT-HEP.B-HIB (PENTAVALENT) 3           |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| MEASLES / MEASLES AND RUBELLA 1         |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| MEASLES / MEASLES AND RUBELLA 2         |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| ROTA VACCINE 1                          |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| ROTA VACCINE 2                          |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| VITAMIN A (MOST RECENT)                 |   |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| 509A                                    | <p>CHECK 508A: 'BCG' TO ROTA VACCINE 2' ALL RECORDED?</p> <p>NO <input type="checkbox"/></p> <p>YES <input type="checkbox"/></p> <p>→ 525A</p>  |  |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |
| 510A                                    | <p>In addition to what is recorded on (this document/these documents), did (NAME) received any other vaccinations, including vaccinations received in campaigns or immunization days or child health days?</p> <p>RECORD 'YES' ONLY IF THE RESPONDENT MENTIONS AT LEAST ONE OF THE VACCINATIONS IN 508A THAT ARE NOT RECORDED AS HAVING BEEN GIVEN.</p>   | <p>YES .....</p> <p>(PROBE FOR VACCINATIONS AND WRITE '66' IN THE CORRESPONDING DAY COLUMN IN 508A THEN WRITE '00' IN THE CORRESPONDING DAY COLUMN FOR ALL VACCINATIONS NOT GIVEN)</p> <p>1</p> <p>(THEN SKIP TO 525A)</p> <p>NO .....</p> <p>DON'T KNOW .....</p> <p>(WRITE '00' IN THE CORRESPONDING DAY COLUMN FOR ALL VACCINATIONS NOT GIVEN)</p> <p>2</p> <p>8</p> <p>(THEN SKIP TO 525A)</p> |   |  |     |       |      |  |                |  |  |  |  |   |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                               |  |  |  |  |                                 |  |  |  |  |                                 |  |  |  |  |                |  |  |  |  |                |  |  |  |  |                         |  |  |  |  |

SECTION 5A. CHILD IMMUNIZATION (LAST BIRTH)

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES                               | SKIP  |
|------|---|---|---|
|      | NAME OF LAST BIRTH _____  | BIRTH HISTORY NUMBER .....                      | <input type="checkbox"/> <input type="checkbox"/> |
| 511A | Did (NAME) ever receive any vaccinations to prevent (NAME) from getting diseases, including vaccinations received in campaigns or immunization days or child health days? | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 | → 525A  |
| 512A | Has (NAME) ever received a BCG vaccination against tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar?                                 | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 |   |
| 514A | Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 | → 517A  |
| 515A | Did (NAME) receive the first oral polio vaccine in the first two weeks after birth or later?  | FIRST TWO WEEKS ..... 1<br>LATER ..... 2        |   |
| 516A | How many times did (NAME) receive the oral polio vaccine?   | NUMBER OF TIMES .....                           | <input type="checkbox"/>                          |
| 517A | Has (NAME) ever received a pentavalent (DPT-HEP.B-HIB) vaccination, that is, an injection given in the left thigh sometimes at the same time as polio drops?              | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 | → 519A  |
| 518A | How many times did (NAME) receive the pentavalent vaccine?  | NUMBER OF TIMES .....                           | <input type="checkbox"/>                          |

SECTION 5A. CHILD IMMUNIZATION (LAST BIRTH)

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP   |
|------|---|---|--------|
|      | NAME OF LAST BIRTH _____  | BIRTH HISTORY NUMBER ..... <input type="text"/> <input type="text"/>              |        |
| 519A | Has (NAME) ever received a PCV (pneumococcal) vaccination, that is, an injection in the right thigh to prevent pneumonia?       | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8                                   | → 521A |
| 520A | How many times did (NAME) receive the PCV (pneumococcal) vaccine?   | NUMBER OF TIMES ..... <input type="text"/>  |        |
| 521A | Has (NAME) ever received a rotavirus vaccination, that is, liquid in the mouth to prevent diarrhoea?                            | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8                                   | → 523A |
| 522A | How many times did (NAME) receive the rotavirus vaccine?  | NUMBER OF TIMES ..... <input type="text"/>  |        |
| 523A | Has (NAME) ever received a measles and rubella vaccination, that is, an injection in the arm to prevent measles and rubella?    | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8                                   | → 525A |
| 524A | How many times did (NAME) receive the measles and rubella vaccine?  | NUMBER OF TIMES ..... <input type="text"/>  |        |
| 525A | In the last 7 days was (NAME) given:<br><br>a) Micronutrient powder<br><br>b) Ready to use therapeutic food such as Plumpy'nut? | YES    NO    DK<br>a) POWDER ..... 1    2    8<br>b) PLUMPY'NUT ..... 1    2    8 |        |
| 526A | CONTINUE WITH 501B.   |   |        |

**SECTION 5B. CHILD IMMUNIZATION (NEXT-TO-LAST BIRTH)**

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP   |
|------|---|---|--------|
| 501B | CHECK 215 IN THE BIRTH HISTORY: ANY MORE BIRTHS IN 2015-2018?<br><br>MORE BIRTHS IN 2015-2018 <input type="checkbox"/> NO MORE BIRTHS IN 2015-2018 <input type="checkbox"/><br><br>↓                                |   | 601    |
| 502B | RECORD THE NAME AND BIRTH HISTORY NUMBER FROM 212 OF THE NEXT-TO-LAST CHILD BORN IN 2015-2018.<br><br>NAME OF NEXT-TO-LAST BIRTH _____ BIRTH HISTORY NUMBER ..... <input type="checkbox"/> <input type="checkbox"/> |   |        |
| 503B | CHECK 216 FOR CHILD:<br><br>LIVING <input type="checkbox"/> DEAD <input type="checkbox"/><br><br>↓  |   | 526B   |
| 504B | Do you have a card or other document where (NAME)'s vaccinations are written down?  | YES, HAS ONLY A CARD ..... 1<br>YES, HAS ONLY AN OTHER DOCUMENT .. 2<br>YES, HAS CARD AND OTHER DOCUMENT .. 3<br>NO, NO CARD AND NO OTHER DOCUMENT .. 4   | → 507B |
| 505B | Did you ever have a vaccination card for (NAME)?  | YES ..... 1<br>NO ..... 2   |        |
| 506B | CHECK 504B:<br><br>CODE '2' CIRCLED <input type="checkbox"/> CODE '4' CIRCLED <input type="checkbox"/><br><br>↓   |   | → 511B |
| 507B | May I see the card or other document where (NAME)'s vaccinations are written down?  | YES, ONLY CARD SEEN ..... 1<br>YES, ONLY OTHER DOCUMENT SEEN ..... 2<br>YES, CARD AND OTHER DOCUMENT SEEN .. 3<br>NO CARD AND NO OTHER DOCUMENT SEEN .. 4 | → 511B |

**SECTION 5B. CHILD IMMUNIZATION (NEXT-TO-LAST BIRTH)**

| NO.                                     | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
|---|--|--|---|----------------|-----|-------|------|---|--|--|--|----------------------------|--|--|--|----------------------------|--|--|--|----------------------------|--|--|--|----------------------------|--|--|--|-------|--|--|--|-------|--|--|--|-------|--|--|--|-------------------------------|--|--|--|-------------------------------|--|--|--|-------------------------------|--|--|--|---------------------------------|--|--|--|---------------------------------|--|--|--|----------------|--|--|--|----------------|--|--|--|-------------------------|--|--|--|--|
|   | NAME OF NEXT-TO-LAST BIRTH _____   | BIRTH HISTORY NUMBER .....   | <input type="checkbox"/> <input type="checkbox"/> |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| 508B                                    | COPY DATES FROM THE CARD.<br>WRITE '44' IN 'DAY' COLUMN IF CARD SHOWS THAT A DOSE WAS GIVEN, BUT NO DATE IS RECORDED.  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">BCG (at birth)</th> <th style="text-align: center; padding: 2px;">DAY</th> <th style="text-align: center; padding: 2px;">MONTH</th> <th style="text-align: center; padding: 2px;">YEAR</th> </tr> </thead> <tbody> <tr><td style="text-align: center; padding: 2px;">ORAL POLIO VACCINE (OPV) 0 (BIRTH DOSE)</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">ORAL POLIO VACCINE (OPV) 1</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">ORAL POLIO VACCINE (OPV) 2</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">ORAL POLIO VACCINE (OPV) 3</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">ORAL POLIO VACCINE (OPV) 4</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">PCV 1</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">PCV 2</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">PCV 3</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">DPT-HEP.B-HIB (PENTAVALENT) 1</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">DPT-HEP.B-HIB (PENTAVALENT) 2</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">DPT-HEP.B-HIB (PENTAVALENT) 3</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">MEASLES / MEASLES AND RUBELLA 1</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">MEASLES / MEASLES AND RUBELLA 2</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">ROTA VACCINE 1</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">ROTA VACCINE 2</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> <tr><td style="text-align: center; padding: 2px;">VITAMIN A (MOST RECENT)</td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td><td style="text-align: center; padding: 2px;"></td></tr> </tbody> </table> |   | BCG (at birth) | DAY | MONTH | YEAR | ORAL POLIO VACCINE (OPV) 0 (BIRTH DOSE) |  |  |  | ORAL POLIO VACCINE (OPV) 1 |  |  |  | ORAL POLIO VACCINE (OPV) 2 |  |  |  | ORAL POLIO VACCINE (OPV) 3 |  |  |  | ORAL POLIO VACCINE (OPV) 4 |  |  |  | PCV 1 |  |  |  | PCV 2 |  |  |  | PCV 3 |  |  |  | DPT-HEP.B-HIB (PENTAVALENT) 1 |  |  |  | DPT-HEP.B-HIB (PENTAVALENT) 2 |  |  |  | DPT-HEP.B-HIB (PENTAVALENT) 3 |  |  |  | MEASLES / MEASLES AND RUBELLA 1 |  |  |  | MEASLES / MEASLES AND RUBELLA 2 |  |  |  | ROTA VACCINE 1 |  |  |  | ROTA VACCINE 2 |  |  |  | VITAMIN A (MOST RECENT) |  |  |  |  |
| BCG (at birth)                          | DAY  | MONTH  | YEAR  |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 0 (BIRTH DOSE) |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 1              |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 2              |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 3              |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| ORAL POLIO VACCINE (OPV) 4              |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| PCV 1                                   |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| PCV 2                                   |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| PCV 3                                   |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| DPT-HEP.B-HIB (PENTAVALENT) 1           |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| DPT-HEP.B-HIB (PENTAVALENT) 2           |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| DPT-HEP.B-HIB (PENTAVALENT) 3           |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| MEASLES / MEASLES AND RUBELLA 1         |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| MEASLES / MEASLES AND RUBELLA 2         |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| ROTA VACCINE 1                          |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| ROTA VACCINE 2                          |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| VITAMIN A (MOST RECENT)                 |  |  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| 509B                                    | CHECK 508B: 'BCG' TO ROTA VACCINE 2' ALL RECORDED?   | NO <input type="checkbox"/><br>   | YES <input type="checkbox"/>                      | → 525B         |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |
| 510B                                    | In addition to what is recorded on (this document/these documents), did (NAME) receive any other vaccinations, including vaccinations received in campaigns or immunization days or child health days? | <p>YES .....<br/>           (PROBE FOR VACCINATIONS AND WRITE '66' IN<br/>           THE CORRESPONDING DAY COLUMN IN 508B<br/>           THEN WRITE '00' IN THE CORRESPONDING<br/>           DAY COLUMN FOR ALL VACCINATIONS NOT<br/>           GIVEN)<br/>           (THEN SKIP TO 525B) ← 1</p> <p>NO .....<br/>           DON'T KNOW .....<br/>           (WRITE '00' IN THE CORRESPONDING DAY<br/>           COLUMN FOR ALL VACCINATIONS NOT GIVEN)<br/>           (THEN SKIP TO 525B) ← 2<br/>           8</p>  |   |                |     |       |      |   |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |                            |  |  |  |       |  |  |  |       |  |  |  |       |  |  |  |                               |  |  |  |                               |  |  |  |                               |  |  |  |                                 |  |  |  |                                 |  |  |  |                |  |  |  |                |  |  |  |                         |  |  |  |  |

**SECTION 5B. CHILD IMMUNIZATION (NEXT-TO-LAST BIRTH)**

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES                               | SKIP  |
|------|---|---|---|
|      | NAME OF NEXT-TO-LAST BIRTH _____  | BIRTH HISTORY NUMBER .....                      | <input type="checkbox"/> <input type="checkbox"/> |
| 511B | Did (NAME) ever receive any vaccinations to prevent (NAME) from getting diseases, including vaccinations received in campaigns or immunization days or child health days? | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 | <input type="checkbox"/> → 525B                   |
| 512B | Has (NAME) ever received a BCG vaccination against tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar?                                 | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 |   |
| 514B | Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 | <input type="checkbox"/> → 517B                   |
| 515B | Did (NAME) receive the first oral polio vaccine in the first two weeks after birth or later?  | FIRST TWO WEEKS ..... 1<br>LATER ..... 2        |   |
| 516B | How many times did (NAME) receive the oral polio vaccine?   | NUMBER OF TIMES .....                           | <input type="checkbox"/>                          |
| 517B | Has (NAME) ever received a pentavalent (DPT-HEP.B-HIB) vaccination, that is, an injection given in the left thigh sometimes at the same time as polio drops?              | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 | <input type="checkbox"/> → 519B                   |
| 518B | How many times did (NAME) receive the pentavalent vaccine?  | NUMBER OF TIMES .....                           | <input type="checkbox"/>                          |

**SECTION 5B. CHILD IMMUNIZATION (NEXT-TO-LAST BIRTH)**

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES                                    | SKIP  |
|------|---|--|---|
|      | NAME OF NEXT-TO-LAST BIRTH _____  | BIRTH HISTORY NUMBER .....                           | <input type="checkbox"/> <input type="checkbox"/> |
| 519B | Has (NAME) ever received a PCV (pneumococcal) vaccination, that is, an injection in the right thigh to prevent pneumonia?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8      | <input type="checkbox"/> → 521B                   |
| 520B | How many times did (NAME) receive the PCV (pneumococcal) vaccine?   | NUMBER OF TIMES .....                                | <input type="checkbox"/>                          |
| 521B | Has (NAME) ever received a rotavirus vaccination, that is, liquid in the mouth to prevent diarrhoea?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8      | <input type="checkbox"/> → 523B                   |
| 522B | How many times did (NAME) receive the rotavirus vaccine?  | NUMBER OF TIMES .....                                | <input type="checkbox"/>                          |
| 523B | Has (NAME) ever received a measles and rubella vaccination, that is, an injection in the arm to prevent measles and rubella?                                      | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8      | <input type="checkbox"/> → 525B                   |
| 524B | How many times did (NAME) receive the measles and rubella vaccine?  | NUMBER OF TIMES .....                                | <input type="checkbox"/>                          |
| 525B | In the last 7 days was (NAME) given:<br><br>a) Micronutrient powder<br><br>b) Ready to use therapeutic food such as Plumpy'nut?                                   | YES    NO    DK                                      |   |
|      | a) POWDER ..... 1    2    8   |  |   |
|      | b) PLUMPY'NUT ..... 1    2    8   |  |   |
| 526B | CHECK 215 IN BIRTH HISTORY: ANY MORE BIRTHS IN 2015-2018?<br><br>MORE BIRTHS IN 2015-2018 <input type="checkbox"/><br>(GO TO 502B IN AN ADDITIONAL QUESTIONNAIRE) | NO MORE BIRTHS IN 2015-2018 <input type="checkbox"/> | → 601   |

**SECTION 6. CHILD HEALTH AND NUTRITION**

|     |   |   |  |
|-----|---|---|--|
| 601 | CHECK 224:<br>ONE OR MORE BIRTHS <input type="checkbox"/> IN 2013-2018<br>NO BIRTHS <input type="checkbox"/> IN 2013-2018 → 648   |   |  |
| 602 | CHECK 215: RECORD THE BIRTH HISTORY NUMBER IN 603 AND THE NAME AND SURVIVAL STATUS IN 604 FOR EACH BIRTH IN 2013-2018. ASK THE QUESTIONS ABOUT ALL OF THESE BIRTHS. BEGIN WITH THE LAST BIRTH.<br>IF THERE ARE MORE THAN 2 BIRTHS, USE LAST COLUMN OF ADDITIONAL QUESTIONNAIRE(S). <p>Now I would like to ask you some questions about the health of all your children born in the last five years. (We will talk about each separately.)</p> |   |  |
| 603 | BIRTH HISTORY NUMBER FROM 212 IN BIRTH HISTORY.   | LAST BIRTH<br>BIRTH HISTORY NUMBER ..... <input type="checkbox"/> <input type="checkbox"/>        | NEXT-TO-LAST BIRTH<br>BIRTH HISTORY NUMBER ..... <input type="checkbox"/> <input type="checkbox"/> |
| 604 | FROM 212 AND 216:   | NAME _____<br>LIVING <input type="checkbox"/><br>DEAD <input type="checkbox"/><br>(SKIP TO 646) ← | NAME _____<br>LIVING <input type="checkbox"/><br>DEAD <input type="checkbox"/><br>(SKIP TO 646) ←  |
| 605 | Within the last six months, was (NAME) given a vitamin A dose like (this/any of these)?<br><br>SHOW COMMON TYPES OF AMPULES/CAPSULES/SYRUPS.  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |
| 606 | In the last seven days, was (NAME) given iron pills, sprinkles with iron, or iron syrup like [this/any of these]?<br><br>SHOW COMMON TYPES OF PILLS/SPRINKLES/SYRUPS.   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |
| 607 | Was (NAME) given any drug for intestinal worms in the last six months?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |
| 608 | Has (NAME) had diarrhoea in the last 2 weeks?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 618) ←<br>DON'T KNOW ..... 8                                | YES ..... 1<br>NO ..... 2<br>(SKIP TO 618) ←<br>DON'T KNOW ..... 8                                 |

**SECTION 6. CHILD HEALTH AND NUTRITION**

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____  |
|-----|--|--|---|
| 609 | <p>CHECK 469: CURRENTLY BREASTFEEDING?</p> <p>YES <input type="checkbox"/> ↓      NO/ NOT <input type="checkbox"/> ↓ ASKED ↓</p> <p>a) Now I would like to know how much (NAME) was given to drink during the diarrhoea including breastmilk. Was (NAME) given less than usual to drink, about the same amount, or more than usual to drink?</p> <p>IF LESS, PROBE: Was (NAME) given much less than usual to drink or somewhat less?</p> | <p>b) Now I would like to know how much (NAME) was given to drink during the diarrhoea. Was (NAME) given less than usual to drink, about the same amount, or more than usual to drink?</p> <p>IF LESS,<br/>PROBE: Was (NAME) given much less than usual to drink or somewhat less?</p> | <p>MUCH LESS ..... 1<br/>SOMEWHAT LESS ..... 2<br/>ABOUT THE SAME ..... 3<br/>MORE ..... 4<br/>NOTHING TO DRINK ..... 5<br/>DON'T KNOW ..... 8</p> <p>MUCH LESS ..... 1<br/>SOMEWHAT LESS ..... 2<br/>ABOUT THE SAME ..... 3<br/>MORE ..... 4<br/>NOTHING TO DRINK ..... 5<br/>DON'T KNOW ..... 8</p> |
| 610 | <p>When (NAME) had diarrhoea, was (NAME) given less than usual to eat, about the same amount, more than usual, or nothing to eat?</p> <p>IF LESS, PROBE: Was (NAME) given much less than usual to eat or somewhat less?</p>  | <p>MUCH LESS ..... 1<br/>SOMEWHAT LESS ..... 2<br/>ABOUT THE SAME ..... 3<br/>MORE ..... 4<br/>STOPPED FOOD ..... 5<br/>NEVER GAVE FOOD ..... 6<br/>DON'T KNOW ..... 8</p>   | <p>MUCH LESS ..... 1<br/>SOMEWHAT LESS ..... 2<br/>ABOUT THE SAME ..... 3<br/>MORE ..... 4<br/>STOPPED FOOD ..... 5<br/>NEVER GAVE FOOD ..... 6<br/>DON'T KNOW ..... 8</p>  |
| 611 | <p>Did you seek advice or treatment for the diarrhoea from any source?</p>   | <p>YES ..... 1<br/>NO ..... 2</p> <p align="center">(SKIP TO 615) ←</p>  | <p>YES ..... 1<br/>NO ..... 2</p> <p align="center">(SKIP TO 615) ←</p>   |

**SECTION 6. CHILD HEALTH AND NUTRITION**

| NO.  | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____   |
|------|--|--|--|
| 612  | <p>Where did you seek advice or treatment?<br/>Anywhere else?</p> <p><b>PROBE TO IDENTIFY THE TYPE OF SOURCE.</b></p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE(S).</p> <hr/> <p>(NAME OF PLACE(S))</p> | <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL... A<br/>GOVERNMENT HEALTH CENTER ..... B<br/>GOVERNMENT HEALTH POST ..... C<br/>MOBILE HOSPITAL/CLINIC.. D<br/>COMMUNITY BASED AGENT/FIELDWORKER.. E<br/>OTHER PUBLIC SECTOR</p> <p>F<br/><u>(SPECIFY)</u></p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/ CLINIC ..... G<br/>MISSION HOSPITAL/ CLINIC ..... H<br/>PHARMACY ..... I<br/>PRIVATE DOCTOR ..... J<br/>MOBILE CLINIC ..... K<br/>COMMUNITY BASED AGENT/FIELDWORKER.. L<br/>OTHER PRIVATE MEDICAL SECTOR</p> <p>M<br/><u>(SPECIFY)</u></p> <p><b>OTHER SOURCE</b></p> <p>SHOP ..... N<br/>TRADITIONAL PRACTITIONER ..... O<br/>MARKET ..... P<br/>ITINERANT DRUG SELLER ..... Q</p> <p>OTHER X<br/><u>(SPECIFY)</u></p> | <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL... A<br/>GOVERNMENT HEALTH CENTER ..... B<br/>GOVERNMENT HEALTH POST ..... C<br/>MOBILE HOSPITAL/CLINIC.. D<br/>COMMUNITY BASED AGENT/FIELDWORKER.. E<br/>OTHER PUBLIC SECTOR</p> <p>F<br/><u>(SPECIFY)</u></p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/ CLINIC ..... G<br/>MISSION HOSPITAL/ CLINIC ..... H<br/>PHARMACY ..... I<br/>PRIVATE DOCTOR ..... J<br/>MOBILE CLINIC ..... K<br/>COMMUNITY BASED AGENT/FIEL... L<br/>OTHER PRIVATE MEDICAL SECTOR</p> <p>M<br/><u>(SPECIFY)</u></p> <p><b>OTHER SOURCE</b></p> <p>SHOP ..... N<br/>TRADITIONAL PRACTITIONER ..... O<br/>MARKET ..... P<br/>ITINERANT DRUG SELLER ..... Q</p> <p>OTHER X<br/><u>(SPECIFY)</u></p> |
| 613  | CHECK 612:   | <p>TWO OR MORE CODES CIRCLED <input type="checkbox"/></p> <p>ONLY ONE CODE CIRCLED <input type="checkbox"/></p> <p align="right">(SKIP TO 614A) ←</p>  | <p>TWO OR MORE CODES CIRCLED <input type="checkbox"/></p> <p>ONLY ONE CODE CIRCLED <input type="checkbox"/></p> <p align="right">(SKIP TO 614A) ←</p>  |
| 614  | Where did you first seek advice or treatment?<br><br>USE LETTER CODE FROM 612.   | FIRST PLACE ..... <input type="checkbox"/>   | FIRST PLACE ..... <input type="checkbox"/>   |
| 614A | How many days after the diarrhoea began did you first seek advice or treatment for (NAME)?<br><br>IF THE SAME DAY, RECORD '00'.  | DAYS ..... <input type="checkbox"/> <input type="checkbox"/>   | DAYS ..... <input type="checkbox"/> <input type="checkbox"/>   |

**SECTION 6. CHILD HEALTH AND NUTRITION**

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____  |
|-----|---|---|---|
| 615 | <p>Was (NAME) given any of the following at any time since (NAME) started having the diarrhoea:</p> <p>a) A fluid made from a special packet called ORS (commonly called Manzi Ya Moyo)?<br/> b) A government-recommended homemade fluid?<br/> c) Zinc tablets or syrup?</p>          | <p style="text-align: center;">YES    NO    DK</p> <p>a) FLUID FROM<br/>ORS<br/>PACKET ... 1    2    8<br/><br/> b) HOMEMADE<br/>FLUID ..... 1    2    8<br/><br/> c) ZINC ..... 1    2    8</p>  | <p style="text-align: center;">YES    NO    DK</p> <p>a) FLUID FROM<br/>ORS<br/>PACKET ... 1    2    8<br/><br/> b) HOMEMADE<br/>FLUID ..... 1    2    8<br/><br/> c) ZINC ..... 1    2    8</p>  |
| 616 | <p>CHECK 615:</p> <p>ANY 'YES' <input type="checkbox"/> ↓      ALL 'NO' <input type="checkbox"/> ↓<br/> a) Was anything else given to treat the diarrhoea?      b) Was anything given to treat the diarrhoea?</p>   | <p>YES ..... 1<br/> NO ..... 2<br/> (DSKIP TO 618) ←</p>  | <p>YES ..... 1<br/> NO ..... 2<br/> (SKIP TO 618) ←</p>   |
| 617 | <p>CHECK 615:</p> <p>ANY 'YES' <input type="checkbox"/> ↓      ALL 'NO' <input type="checkbox"/> ↓<br/> a) What else was given to treat the diarrhoea?      b) What was given to treat the diarrhoea?<br/> Anything else?      Anything else?</p> <p>RECORD ALL TREATMENTS GIVEN.</p> | <p><b>PILL OR SYRUP</b><br/> ANTIBIOTIC ..... A<br/> ANTIMOTILITY ..... B<br/> OTHER (NOT ANTIBIOTIC<br/>OR ANTIMOTILITY) ..... C<br/> UNKNOWN PILL<br/>OR SYRUP ..... D</p> <p><b>INJECTION</b><br/> ANTIBIOTIC ..... E<br/> NON-ANTIBIOTIC ..... F<br/> UNKNOWN<br/>INJECTION ..... G<br/> (IV) INTRAVENOUS ..... H<br/> HOME REMEDY/<br/>HERBAL MEDICINE ..... I<br/> OTHER _____ X<br/> (SPECIFY)</p> | <p><b>PILL OR SYRUP</b><br/> ANTIBIOTIC ..... A<br/> ANTIMOTILITY ..... B<br/> OTHER (NOT ANTIBIOTIC<br/>OR ANTIMOTILITY) ..... C<br/> UNKNOWN PILL<br/>OR SYRUP ..... D</p> <p><b>INJECTION</b><br/> ANTIBIOTIC ..... E<br/> NON-ANTIBIOTIC ..... F<br/> UNKNOWN<br/>INJECTION ..... G<br/> (IV) INTRAVENOUS ..... H<br/> HOME REMEDY/<br/>HERBAL MEDICINE ..... I<br/> OTHER _____ X<br/> (SPECIFY)</p> |
| 618 | <p>Has (NAME) been ill with a fever at any time in the last 2 weeks?</p>  | <p>YES ..... 1<br/> NO ..... 2<br/> (DSKIP TO 620) ←<br/> DON'T KNOW ..... 8</p>  | <p>YES ..... 1<br/> NO ..... 2<br/> (SKIP TO 620) ←<br/> DON'T KNOW ..... 8</p>   |
| 619 | <p>At any time during the illness, did (NAME) have blood taken from (NAME)'s finger or heel for testing?</p>  | <p>YES ..... 1<br/> NO ..... 2<br/> DON'T KNOW ..... 8</p>  | <p>YES ..... 1<br/> NO ..... 2<br/> DON'T KNOW ..... 8</p>  |
| 620 | <p>Has (NAME) had an illness with a cough at any time in the last 2 weeks?</p>  | <p>YES ..... 1<br/> NO ..... 2<br/> DON'T KNOW ..... 8</p>  | <p>YES ..... 1<br/> NO ..... 2<br/> DON'T KNOW ..... 8</p>  |

## SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH   | NEXT-TO-LAST BIRTH   |
|-----|--|--|--|
| 621 | Has (NAME) had fast, short, rapid breaths or difficulty breathing at any time in the last 2 weeks?   | YES ..... 1<br>NO ..... 2<br>..... (SKIP TO 623) ←<br><br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>..... (SKIP TO 623) ←<br><br>DON'T KNOW ..... 8   |
| 622 | Was the fast or difficult breathing due to a problem in the chest or to a blocked or runny nose?   | CHEST ONLY ..... 1<br>NOSE ONLY ..... 2<br>BOTH ..... 3<br><br>OTHER ..... 6<br>..... (SPECIFY)<br><br>DON'T KNOW ..... 8<br>..... (SKIP TO 624) ←   | CHEST ONLY ..... 1<br>NOSE ONLY ..... 2<br>BOTH ..... 3<br><br>OTHER ..... 6<br>..... (SPECIFY)<br><br>DON'T KNOW ..... 8<br>..... (SKIP TO 624) ←   |
| 623 | CHECK 618: HAD FEVER?  | YES <input type="checkbox"/><br>..... (SKIP TO 646) ←<br><br>NO OR DK <input type="checkbox"/>   | YES <input type="checkbox"/><br>..... (SKIP TO 646) ←<br><br>NO OR DK <input type="checkbox"/>   |
| 624 | Did you seek advice or treatment for the illness from any source?  | YES ..... 1<br>NO ..... 2<br>..... (SKIP TO 629) ←   | YES ..... 1<br>NO ..... 2<br>..... (SKIP TO 629) ←   |
| 625 | Where did you seek advice or treatment?<br><br>Anywhere else?<br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE(S).<br><br>_____<br>(NAME OF PLACE(S)) | <b>PUBLIC SECTOR</b><br>GOVERNMENT HOSPITAL.. A<br>GOVERNMENT HEALTH CENTER ..... B<br>GOVERNMENT HEALTH POST ..... C<br>MOBILE HOSPITAL/CLINIC.. D<br>COMMUNITY BASED AGENT/FIELDWORKER.. E<br>OTHER PUBLIC SECTOR<br>..... F<br>..... (SPECIFY)<br><br><b>PRIVATE MEDICAL SECTOR</b><br>PRIVATE HOSPITAL/ CLINIC ..... G<br>MISSION HOSPITAL/ CLINIC ..... H<br>PHARMACY ..... I<br>PRIVATE DOCTOR ..... J<br>MOBILE CLINIC ..... K<br>COMMUNITY BASED AGENT/FIELDWORKER.. L<br>OTHER PRIVATE MEDICAL SECTOR<br>..... M<br>..... (SPECIFY)<br><br><b>OTHER SOURCE</b><br>SHOP ..... N<br>TRADITIONAL PRACTITIONER ..... O<br>MARKET ..... P<br>ITINERANT DRUG SELLER ..... Q<br>OTHER ..... X<br>..... (SPECIFY) | <b>PUBLIC SECTOR</b><br>GOVERNMENT HOSPITAL.. A<br>GOVERNMENT HEALTH CENTER ..... B<br>GOVERNMENT HEALTH POST ..... C<br>MOBILE HOSPITAL/CLINIC.. D<br>COMMUNITY BASED AGENT/FIELDWORKER.. E<br>OTHER PUBLIC SECTOR<br>..... F<br>..... (SPECIFY)<br><br><b>PRIVATE MEDICAL SECTOR</b><br>PRIVATE HOSPITAL/ CLINIC ..... G<br>MISSION HOSPITAL/ CLINIC ..... H<br>PHARMACY ..... I<br>PRIVATE DOCTOR ..... J<br>MOBILE CLINIC ..... K<br>COMMUNITY BASED AGENT/FIELDWORKER.. L<br>OTHER PRIVATE MEDICAL SECTOR<br>..... M<br>..... (SPECIFY)<br><br><b>OTHER SOURCE</b><br>SHOP ..... N<br>TRADITIONAL PRACTITIONER ..... O<br>MARKET ..... P<br>ITINERANT DRUG SELLER ..... Q<br>OTHER ..... X<br>..... (SPECIFY) |

SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH   |   | NEXT-TO-LAST BIRTH   |  |
|-----|--|--|---|--|--|
|     |  | NAME _____   | LAST BIRTH<br>NAME _____  | NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____   |
| 626 | CHECK 625:   | TWO OR<br>MORE<br>CODES<br>CIRCLED<br><input type="checkbox"/> ↓<br>(SKIP TO 628) ←  | ONLY<br>ONE<br>CODE<br>CIRCLED<br><input type="checkbox"/><br>(SKIP TO 628) ← | TWO OR<br>MORE<br>CODES<br>CIRCLED<br><input type="checkbox"/> ↓<br>(SKIP TO 628) ←  | ONLY<br>ONE<br>CODE<br>CIRCLED<br><input checked="" type="checkbox"/><br>(SKIP TO 628) ← |
| 627 | Where did you first seek advice or treatment?<br><br>USE LETTER CODE FROM 625.   | FIRST PLACE ..... <input type="checkbox"/>   |   | FIRST PLACE ..... <input type="checkbox"/>   |  |
| 628 | How many days after the illness began did you first seek advice or treatment for (NAME)?<br><br>IF THE SAME DAY RECORD '00'. | DAYS ..... <input type="checkbox"/> <input type="checkbox"/>   |   | DAYS ..... <input type="checkbox"/> <input type="checkbox"/>   |  |
| 629 | At any time during the illness, did (NAME) take any drugs for the illness?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 646) ←<br>DON'T KNOW ..... 8   |   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 646) ←<br>DON'T KNOW ..... 8   |  |
| 630 | What drugs did (NAME) take?<br><br>Any other drugs?<br><br>RECORD ALL MENTIONED.   | <b>ANTIMALARIAL DRUGS</b><br>ARTEMISININ<br>COMBINATION<br>THERAPY (ACT) ..... A<br>SP/FANSIDAR ..... B<br>CHLOROQUINE ..... C<br>AMODIAQUINE ..... D<br>QUININE<br>PILLS ..... E<br>INJECTION/IV ..... F<br>ARTESUNATE<br>RECTAL ..... G<br>INJECTION/IV ..... H<br><br><b>OTHER ANTIMALARIAL</b><br><br>I<br>(SPECIFY) |   | <b>ANTIMALARIAL DRUGS</b><br>ARTEMISININ<br>COMBINATION<br>THERAPY (ACT) ..... A<br>SP/FANSIDAR ..... B<br>CHLOROQUINE ..... C<br>AMODIAQUINE ..... D<br>QUININE<br>PILLS ..... E<br>INJECTION/IV ..... F<br>ARTESUNATE<br>RECTAL ..... G<br>INJECTION/IV ..... H<br><br><b>OTHER ANTIMALARIAL</b><br><br>I<br>(SPECIFY) |  |
|     |  | <b>ANTIBIOTIC DRUGS</b><br>PILL/SYRUP ..... J<br>INJECTION/IV ..... K  |   | <b>ANTIBIOTIC DRUGS</b><br>PILL/SYRUP ..... J<br>INJECTION/IV ..... K  |  |
|     |  | <b>OTHER DRUGS</b><br>ASPIRIN ..... L<br>ACETAMINOPHEN/<br>PARACETAMOL ..... M<br>IBUPROFEN ..... N<br><br>OTHER ..... X<br>(SPECIFY)<br>DON'T KNOW ..... Z  |   | <b>OTHER DRUGS</b><br>ASPIRIN ..... L<br>ACETAMINOPHEN/<br>PARACETAMOL ..... M<br>IBUPROFEN ..... N<br><br>OTHER ..... X<br>(SPECIFY)<br>DON'T KNOW ..... Z  |  |
| 631 | CHECK 630:<br>ANY CODE A-I CIRCLED?  | YES<br><input type="checkbox"/><br>(SKIP TO 646) ←   | NO <input type="checkbox"/>   | YES<br><input type="checkbox"/><br>(SKIP TO 646) ←   | NO <input type="checkbox"/>  |

**SECTION 6. CHILD HEALTH AND NUTRITION**

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH   | NEXT-TO-LAST BIRTH   |
|-----|--|--|--|
| 632 | CHECK 630:<br>ARTEMISININ COMBINATION<br>THERAPY ('A') GIVEN   | NAME _____<br><br>CODE 'A'<br>CIRCLED<br><input type="checkbox"/> ↓<br><br>(SKIP TO 634) ←   | NAME _____<br><br>CODE 'A'<br>NOT CIRCLED<br><input type="checkbox"/><br><br>(SKIP TO 634) ←   |
| 633 | How long after the fever started did<br>(NAME) first take an artemisinin<br>combination therapy (Coartem)? | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 |
| 634 | CHECK 630:<br>SP/FANSIDAR ('B') GIVEN  | NAME _____<br><br>CODE 'B'<br>CIRCLED<br><input type="checkbox"/> ↓<br><br>(SKIP TO 636) ←   | NAME _____<br><br>CODE 'B'<br>NOT CIRCLED<br><input type="checkbox"/><br><br>(SKIP TO 636) ←   |
| 635 | How long after the fever started did<br>(NAME) first take SP/Fansidar?                                     | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 |
| 636 | CHECK 630:<br>CHLOROQUINE ('C') GIVEN  | NAME _____<br><br>CODE 'C'<br>CIRCLED<br><input type="checkbox"/> ↓<br><br>(SKIP TO 638) ←   | NAME _____<br><br>CODE 'C'<br>NOT CIRCLED<br><input type="checkbox"/><br><br>(SKIP TO 638) ←   |
| 637 | How long after the fever started did<br>(NAME) first take chloroquine?                                     | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 |
| 638 | CHECK 630:<br>AMODIAQUINE ('D') GIVEN  | NAME _____<br><br>CODE 'D'<br>CIRCLED<br><input type="checkbox"/> ↓<br><br>(SKIP TO 640) ←   | NAME _____<br><br>CODE 'D'<br>NOT CIRCLED<br><input type="checkbox"/><br><br>(SKIP TO 640) ←   |
| 639 | How long after the fever started did<br>(NAME) first take amodiaquine?                                     | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 |

**SECTION 6. CHILD HEALTH AND NUTRITION**

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____   |
|-----|--|--|--|
| 640 | CHECK 630:<br>QUININE ('E' OR 'F') GIVEN   | CODE<br>'E' OR 'F'<br>CIRCLED<br><br>(SKIP TO 642) ←      | CODE<br>'E' OR 'F'<br>NOT<br>CIRCLED<br><br>(SKIP TO 642) ← |
| 641 | How long after the fever started did<br>(NAME) first take quinine?                 | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8     |
| 642 | CHECK 630:<br>ARTESUNATE ('G' OR 'H') GIVEN  | CODE<br>'G' OR 'H'<br>CIRCLED<br><br>(SKIP TO 644) ←      | CODE<br>'G' OR 'H'<br>NOT<br>CIRCLED<br><br>(SKIP TO 644) ← |
| 643 | How long after the fever started did<br>(NAME) first take artesunate?              | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8     |
| 644 | CHECK 630:<br>OTHER ANTIMALARIAL ('I') GIVEN                                       | CODE 'I'<br>CIRCLED<br><br>(SKIP TO 646) ←              | CODE 'I'<br>NOT<br>CIRCLED<br><br>(SKIP TO 646) ←         |
| 645 | How long after the fever started did<br>(NAME) first take (OTHER<br>ANTIMALARIAL)? | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8 | SAME DAY ..... 0<br>NEXT DAY ..... 1<br>TWO DAYS AFTER<br>FEVER ..... 2<br>THREE OR MORE DAYS<br>AFTER FEVER ..... 3<br>DON'T KNOW ..... 8     |
| 646 |  | GO BACK TO 604 IN NEXT<br>COLUMN; OR, IF NO MORE<br>BIRTHS, GO TO 647.   | GO TO 604 IN NEXT-TO-LAST<br>COLUMN OF NEW<br>QUESTIONNAIRE; OR, IF NO MORE<br>BIRTHS, GO TO 647.  |

SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP |
|-----|--|---|------|
| 647 | CHECK 615(a) AND 615(b), ALL COLUMNS:<br><br>NO CHILD<br>RECEIVED FLUID<br>FROM ORS PACKET <input type="checkbox"/><br>↓   | ANY CHILD<br>RECEIVED FLUID <input type="checkbox"/><br>FROM ORS PACKET | 649  |
| 648 | Have you ever heard of a special product called ORS<br>you can get for the treatment of diarrhoea?   | YES ..... 1<br><br>NO ..... 2   |      |
| 649 | CHECK 215 AND 218, ALL ROWS: NUMBER OF CHILDREN BORN IN 2016-2018 LIVING WITH THE<br>RESPONDENT<br><br>ONE OR MORE <input type="checkbox"/><br>↓<br><br><u>(NAME OF YOUNGEST CHILD LIVING WITH HER)</u><br>↓ | NONE <input type="checkbox"/>   | 701  |

SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP |
|-----|---|--|------|
| 650 | <p>Now I would like to ask you about liquids or foods that (NAME FROM 649) had yesterday during the day or at night. I am interested in whether your child had the item I mention even if it was combined with other foods.</p> <p>Did (NAME FROM 649) drink or eat:</p> <p>a) Plain water?</p> <p>b) Juice or juice drinks?</p> <p>c) Clear broth?</p> <p>d) Milk such as tinned, powdered, or fresh animal milk?<br/>IF YES: How many times did (NAME) drink milk?<br/>IF 7 OR MORE TIMES, RECORD '7'.</p> <p>e) Infant formula?<br/>IF YES: How many times did (NAME) drink infant formula?<br/>IF 7 OR MORE TIMES, RECORD '7'.</p> <p>f) Any other liquids?</p> <p>g) Yogurt?<br/>IF YES: How many times did (NAME) eat yogurt?<br/>IF 7 OR MORE TIMES, RECORD '7'.</p> <p>h) Any Provita, Delight, Cerelac, Soya Porridge?</p> <p>i) Bread, rice, noodles, porridge, nshima or other foods made from grains?</p> <p>j) Pumpkin, carrots, squash or sweet potatoes that are yellow or orange inside?</p> <p>k) White potatoes, yams, cassava, or any other foods made from roots?</p> <p>l) Any dark green, leafy vegetables, cassava leaves, rape, sweet potato leaves?</p> <p>m) Ripe mangoes, paw paw, apricot, watermelon?</p> <p>n) Any other fruits or vegetables?</p> <p>o) Liver, kidney, heart, or other organ meats?</p> <p>p) Any meat, such as beef, pork, lamb, goat, chicken, or duck?</p> <p>q) Eggs?</p> <p>r) Fresh or dried fish or shellfish?</p> <p>s) Any foods made from beans, peas, lentils, or nuts?</p> <p>t) Cheese or other food made from milk?</p> <p>u) Any caterpillars, other insects or other small protein foods?</p> <p>v) Any other solid, semi-solid, or soft food?</p> | <p align="center">YES            NO            DK</p> <p>a) ..... 1 2 8</p> <p>b) ..... 1 2 8</p> <p>c) ..... 1 2 8</p> <p>d) ..... 1 2 8<br/>NUMBER OF TIMES DRANK <input type="text"/></p> <p>e) ..... 1 2 8<br/>NUMBER OF TIMES DRANK <input type="text"/></p> <p>f) ..... 1 2 8</p> <p>g) ..... 1 2 8<br/>NUMBER OF TIMES ATE <input type="text"/></p> <p>h) ..... 1 2 8</p> <p>i) ..... 1 2 8</p> <p>j) ..... 1 2 8</p> <p>k) ..... 1 2 8</p> <p>l) ..... 1 2 8</p> <p>m) ..... 1 2 8</p> <p>n) ..... 1 2 8</p> <p>o) ..... 1 2 8</p> <p>p) ..... 1 2 8</p> <p>q) ..... 1 2 8</p> <p>r) ..... 1 2 8</p> <p>s) ..... 1 2 8</p> <p>t) ..... 1 2 8</p> <p>u) ..... 1 2 8</p> <p>v) ..... 1 2 8</p> | SKIP |

## SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP           |
|-----|---|--|----------------|
| 651 | CHECK 650 (CATEGORIES 'g' THROUGH 'v'):<br>NOT A SINGLE 'YES' <input type="checkbox"/>  | AT LEAST ONE 'YES' <input type="checkbox"/>  | 653            |
| 652 | Did (NAME FROM 649) eat any solid, semi-solid, or soft foods yesterday during the day or at night?                              | YES .....<br><br>IF 'YES' PROBE: What kind of solid, semi-solid or soft foods did (NAME FROM 649) eat?<br><br>NO ..... | 1<br><br><br>1 |
|     |   | (GO BACK TO 650 TO RECORD FOOD EATEN YESTERDAY)<br><br>(THEN CONTINUE TO 653)  |                |
| 653 | How many times did (NAME FROM 649) eat solid, semisolid, or soft foods other than liquids yesterday during the day or at night? | NUMBER OF TIMES .....  | 2<br><br><br>2 |
|     | IF 7 OR MORE TIMES, RECORD '7'.   | DONT KNOW .....  | 654            |
| 654 | The last time (NAME FROM 649) passed stools, what was done to dispose of the stools?  | CHILD USED TOILET OR LATRINE .....<br>PUT/RINSED   | 01             |
|     |   | INTO TOILET OR LATRINE .....   | 02             |
|     |   | PUT/RINSED   |                |
|     |   | INTO DRAIN OR DITCH .....  | 03             |
|     |   | THROWN INTO GARBAGE .....  | 04             |
|     |   | BURIED .....   | 05             |
|     |   | LEFT IN THE OPEN .....   | 06             |
|     |   | OTHER .....  | 96             |
|     |   |  | (SPECIFY)      |

**SECTION 7. MARRIAGE AND SEXUAL ACTIVITY**

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP        |
|------|--|---|-------------|
| 701  | Are you currently married or living together with a man as if married?   | YES, CURRENTLY MARRIED ..... 1<br>YES, LIVING WITH A MAN ..... 2<br>NO, NOT IN UNION ..... 3  | → 704       |
| 702  | Have you ever been married or lived together with a man as if married?   | YES, FORMERLY MARRIED ..... 1<br>YES, LIVED WITH A MAN ..... 2<br>NO ..... 3  | → 712       |
| 703  | What is your marital status now: are you widowed, divorced, or separated?  | WIDOWED ..... 1<br>DIVORCED ..... 2<br>SEPARATED ..... 3  | → 709       |
| 704  | Is your (husband/partner) living with you now or is he staying elsewhere?  | LIVING WITH HER ..... 1<br>STAYING ELSEWHERE ..... 2  |             |
| 705  | RECORD THE HUSBAND'S/PARTNER'S NAME AND LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE. IF HE IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'.   | NAME _____<br><br>LINE NO. _____  |             |
| 706  | Does your (husband/partner) have other wives or does he live with other women as if married?   | YES ..... 1<br>NO ..... 2<br><br>DON'T KNOW ..... 8   | → 709       |
| 707  | Including yourself, in total, how many wives or live-in partners does he have?   | TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS .....<br><br>DON'T KNOW .....  | 98          |
| 708  | Are you the first, second, ... wife/partner?   | RANK .....  |             |
| 709  | Have you been married or lived with a man only once or more than once?   | ONLY ONCE ..... 1<br><br>MORE THAN ONCE ..... 2   | → 709B      |
| 709A | CHECK 703: IS RESPONDENT CURRENTLY<br><br>CURRENTLY WIDOWED <input type="checkbox"/><br><br>NOT ASKED OR CURRENTLY <input type="checkbox"/><br><br>DIVORCED/SEPARATED <input type="checkbox"/> |   | 709D<br>710 |
| 709B | CHECK 703: IS RESPONDENT CURRENTLY<br><br>NOT ASKED <input type="checkbox"/><br><br>CURRENTLY WIDOWED <input type="checkbox"/><br><br>CURRENTLY DIVORCED/SEPARATED <input type="checkbox"/>    |   | 709D<br>710 |
| 709C | How did your previous marriage or union end?   | DEATH ..... 1<br>DIVORCE ..... 2<br>SEPARATION ..... 3  | → 710       |
| 709D | To whom did most of your late husband's property go?   | RESPONDENT ..... 1<br>OTHER WIFE ..... 2<br>SPOUSE'S CHILDREN ..... 3<br>SPOUSE'S FAMILY ..... 4<br>NO PROPERTY ..... 5<br>OTHER ..... 6<br>(SPECIFY) | → 710       |
| 709E | Did you receive any of your late husband's assets or valuables?  | YES ..... 1<br>NO ..... 2   |             |

SECTION 7. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP |
|-----|---|---|------|
| 710 | <p>CHECK 709:</p> <p>MARRIED/<br/>LIVED WITH A MAN<br/>ONLY ONCE <input type="checkbox"/></p> <p>MARRIED/<br/>LIVED WITH A<br/>MAN MORE<br/>THAN ONCE <input type="checkbox"/></p> <p>a) In what month and year<br/>did you start living with<br/>your<br/>(husband/partner)?</p> <p>b) Now I would like to ask<br/>about your first<br/>(husband/partner). In<br/>what month and year<br/>did you start living with<br/>him?</p> | <p>MONTH ..... <input type="text"/> <input type="text"/></p> <p>DON'T KNOW MONTH ..... 98</p> <p>YEAR ..... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>DON'T KNOW YEAR ..... 9998</p> | 712  |
| 711 | How old were you when you first started living with him?  | AGE ..... <input type="text"/> <input type="text"/>   |      |

**SECTION 7. MARRIAGE AND SEXUAL ACTIVITY**

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP  |  |  |  |  |  |  |  |  |
|------|---|--|---|--|--|--|--|--|--|--|--|
| 712  | <b>CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.</b>  |  |   |  |  |  |  |  |  |  |  |
| 713  | <p>Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question. How old were you when you had sexual intercourse for the very first time?</p> | <p>NEVER HAD SEXUAL<br/>INTERCOURSE ..... 00</p> <p>AGE IN YEARS ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr></table> → 713C</p> |   |  |  |  |  |  |  |  |  |
|      |   |  |   |  |  |  |  |  |  |  |  |
| 713A | <p>CHECK 106: AGE</p> <p>AGE 15-24 <input type="checkbox"/></p> <p style="text-align: center;">↓</p>  | <p>AGE 25-49 <input type="checkbox"/></p>  | → 731   |  |  |  |  |  |  |  |  |
| 713B | <p>Do you intend to wait until you get married to have sexual intercourse for the first time?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW/UNSURE ..... 8</p>  | → 731   |  |  |  |  |  |  |  |  |
| 713C | <p>CHECK 106: AGE</p> <p>AGE 15-24 <input type="checkbox"/></p> <p style="text-align: center;">↓</p>  | <p>AGE 25-49 <input type="checkbox"/></p>  | → 714   |  |  |  |  |  |  |  |  |
| 713D | <p>The first time you had sexual intercourse, was a condom used?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW/UNSURE ..... 8</p>  |   |  |  |  |  |  |  |  |  |
| 713E | <p>How old was the person you first had sexual intercourse with?</p>  | <p>AGE IN YEARS ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr></table> → 714</p> <p>DON'T KNOW ..... 98</p>                        |   |  |  |  |  |  |  |  |  |
|      |   |  |   |  |  |  |  |  |  |  |  |
| 713F | <p>Was this person older than you, younger than you, or about the same age as you?</p>  | <p>OLDER ..... 1</p> <p>YOUNGER ..... 2</p> <p>ABOUT THE SAME AGE ..... 3</p> <p>DON'T KNOW/DON'T REMEMBER ..... 8</p>   | → 714   |  |  |  |  |  |  |  |  |
| 713G | <p>Would you say this person was ten or more years older than you or less than ten years older than you?</p>  | <p>TEN OR MORE YEARS OLDER ..... 1</p> <p>LESS THAN TEN YEARS OLDER ..... 2</p> <p>OLDER, UNSURE HOW MUCH ..... 8</p>  |   |  |  |  |  |  |  |  |  |
| 714  | <p>I would like to ask you about your recent sexual activity. When was the last time you had sexual intercourse?</p> <p>IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.</p>  | <p>DAYS AGO ..... 1</p> <p>WEEKS AGO ..... 2</p> <p>MONTHS AGO ..... 3</p> <p>YEARS AGO ..... 4</p>  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr></table> → 716 |  |  |  |  |  |  |  |  |
|      |   |  |   |  |  |  |  |  |  |  |  |
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|      |   |  | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr></table> → 727 |  |  |  |  |  |  |  |  |
|      |   |  |   |  |  |  |  |  |  |  |  |
|      |   |  |   |  |  |  |  |  |  |  |  |
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**SECTION 7. MARRIAGE AND SEXUAL ACTIVITY**

|      |   | LAST SEXUAL PARTNER   | SECOND-TO-LAST SEXUAL PARTNER   | THIRD-TO-LAST SEXUAL PARTNER  |
|------|---|---|---|---|
| 715  | When was the last time you had sexual intercourse with this person?   |   | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3  | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3  |
| 716  | The last time you had sexual intercourse with this person, was a condom used?   | YES ..... 1<br>NO ..... 2   | YES ..... 1<br>NO ..... 2   | YES ..... 1<br>NO ..... 2   |
|      |   | (SKIP TO 718) ←   | (SKIP TO 718) ←   | (SKIP TO 718) ←   |
| 717  | Was a condom used every time you had sexual intercourse with this person in the last 12 months?   | YES ..... 1<br>NO ..... 2   | YES ..... 1<br>NO ..... 2   | YES ..... 1<br>NO ..... 2   |
| 718  | What was your relationship to this person with whom you had sexual intercourse?<br><br>IF BOYFRIEND: Were you living together as if married?  | HUSBAND ..... 1<br>LIVE-IN PARTNER ..... 2<br>BOYFRIEND NOT LIVING WITH RESPONDENT ..... 3<br>CASUAL ..... 4<br>ACQUAINTANCE ..... 4<br>CLIENT/SEX WORKER ..... 5<br>OTHER ..... 6<br>(SPECIFY)   | HUSBAND ..... 1<br>LIVE-IN PARTNER ..... 2<br>BOYFRIEND NOT LIVING WITH RESPONDENT ..... 3<br>CASUAL ..... 4<br>ACQUAINTANCE ..... 4<br>CLIENT/SEX WORKER ..... 5<br>OTHER ..... 6<br>(SPECIFY)   | HUSBAND ..... 1<br>LIVE-IN PARTNER ..... 2<br>BOYFRIEND NOT LIVING WITH RESPONDENT ..... 3<br>CASUAL ..... 4<br>ACQUAINTANCE ..... 4<br>CLIENT/SEX WORKER ..... 5<br>OTHER ..... 6<br>(SPECIFY)   |
| 719  | How long ago did you first have sexual intercourse with this person?  | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3<br>YEARS<br>AGO ... 4  | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3<br>YEARS<br>AGO ... 4  | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3<br>YEARS<br>AGO ... 4  |
| 720  | How many times during the last 12 months did you have sexual intercourse with this person?<br><br>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, RECORD '95'. | NUMBER OF TIMES ..... <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span>                 | NUMBER OF TIMES ..... <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span>                 | NUMBER OF TIMES ..... <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span>                 |
| 721  | How old is this person?   | AGE OF PARTNER <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span><br>DON'T KNOW ..... 98 | AGE OF PARTNER <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span><br>DON'T KNOW ..... 98 | AGE OF PARTNER <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span><br>DON'T KNOW ..... 98 |
| 721A | The last time you had sexual intercourse with this person, did you or this person drink alcohol?  | YES ..... 1<br>NO ..... 2   | YES ..... 1<br>NO ..... 2   | YES ..... 1<br>NO ..... 2   |
|      |   | (SKIP TO 722) ←   | (SKIP TO 722) ←   | (SKIP TO 722) ←   |

SECTION 7. MARRIAGE AND SEXUAL ACTIVITY

|      |   | LAST SEXUAL PARTNER   | SECOND-TO-LAST SEXUAL PARTNER   | THIRD-TO-LAST SEXUAL PARTNER  |  |  |
|------|---|---|---|---|--|--|
| 721B | Were you or your partner drunk at that time?<br><br>IF YES: Who was drunk?  | RESPONDENT ONLY ... 1<br>PARTNER ONLY ..... 2<br>BOTH, RESPONDENT<br>AND PARTNER ..... 3<br><br>NEITHER ..... 4 | RESPONDENT ONLY ... 1<br>PARTNER ONLY ..... 2<br>BOTH, RESPONDENT<br>AND PARTNER ..... 3<br><br>NEITHER ..... 4 | RESPONDENT ONLY ... 1<br>PARTNER ONLY ..... 2<br>BOTH, RESPONDENT<br>AND PARTNER ..... 3<br><br>NEITHER ..... 4   |  |  |
| 722  | Apart from this person, have you had sexual intercourse with any other person in the last 12 months?  | YES ..... 1<br>(GO BACK TO 715<br>IN NEXT COLUMN)<br><br>NO ..... 2<br>(SKIP TO 724) ←                          | YES ..... 1<br>(GO BACK TO 715<br>IN NEXT COLUMN)<br><br>NO ..... 2<br>(SKIP TO 724) ←                          |   |  |  |
| 723  | In total, with how many different people have you had sexual intercourse in the last 12 months?<br><br>IF NON-NUMERIC ANSWER,<br>PROBE TO GET AN<br>ESTIMATE. IF NUMBER OF<br>PARTNERS IS 95 OR MORE,<br>RECORD '95'. |   |   | NUMBER OF<br>PARTNERS<br><br>LAST 12<br>MONTHS .. <table border="1" style="display: inline-table;"><tr><td> </td><td> </td></tr></table><br>DON'T KNOW ..... 98 |  |  |
|      |   |   |   |   |  |  |

**SECTION 7. MARRIAGE AND SEXUAL ACTIVITY**

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP           |
|-----|---|--|----------------|
| 724 | CHECK 106:<br><br>AGE 15-24 <input type="checkbox"/><br>↓<br>AGE 25-49 <input type="checkbox"/>   |  | → 727          |
| 725 | CHECK 701:<br><br>NOT <input type="checkbox"/> IN A UNION <input type="checkbox"/><br>↓<br>CURRENTLY MARRIED/<br>LIVING WITH A MAN <input type="checkbox"/>   |  | → 727          |
| 726 | In the past 12 months have you had sex or been sexually involved with anyone because he gave you or told you he would give you gifts, cash, or anything else?   | YES ..... 1<br>NO ..... 2  |                |
| 727 | In total, with how many different people have you had sexual intercourse in your lifetime?<br><br>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'.                      | NUMBER OF PARTNERS<br>IN LIFETIME .....<br><br>DON'T KNOW ..... 98   |                |
| 728 | CHECK 716, MOST RECENT PARTNER (FIRST COLUMN):<br><br>YES, <input type="checkbox"/> CONDOM USED <input type="checkbox"/><br>↓<br>NO, <input type="checkbox"/><br>CONDOM<br>NOT USED<br>NOT ASKED <input type="checkbox"/> |  | → 731<br>→ 731 |
| 729 | You told me that a condom was used the last time you had sex. What is the brand name of the condom used at that time?<br><br>IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE.  | MAXIMUM CLASSIC ..... 01<br>MAXIMUM SCENTED ..... 02<br>ROUGH RIDER ..... 03<br>DUREX ..... 04<br>REALITY ..... 05<br>PUBLIC SECTOR:<br>UNBRANDED (WHITE COLOUR FOIL) ..... 06<br><br>OTHER ..... 96<br>(SPECIFY)<br>DON'T KNOW ..... 98 |                |

**SECTION 7. MARRIAGE AND SEXUAL ACTIVITY**

| NO.                            | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP                      |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
|--------------------------------|--|---|---------------------------|----|--------------------------------|----|------------------------------|----|------------------------------|----|---------------------|---|-------------------------|----|---------------------|--|--|----|--|-----------|-------------------------------|----|-------------------------------|----|----------------|----|----------------------|----|------------------------------|----|-----------------|--|-------------------------|----|------------------------------|--|--|----|--|-----------|------------|----|--------------|----|-----------------------|----|-------|----|--|-----------|------------------|----|--|
| 730                            | <p>From where did you obtain the condom the last time?</p> <p>PROBE TO IDENTIFY TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p style="text-align: center;">(NAME OF PLACE)</p> | <p><b>PUBLIC SECTOR</b></p> <table> <tr><td>GOVERNMENT HOSPITAL .....</td><td>11</td></tr> <tr><td>GOVERNMENT HEALTH CENTER .....</td><td>12</td></tr> <tr><td>GOVERNMENT HEALTH POST .....</td><td>13</td></tr> <tr><td>MOBILE CLINIC/HOSPITAL .....</td><td>14</td></tr> <tr><td>COMMUNITY BASED</td><td></td></tr> <tr><td>    AGENT/FIELDWORKER .....</td><td>15</td></tr> <tr><td>OTHER PUBLIC SECTOR</td><td></td></tr> <tr><td></td><td>16</td></tr> <tr><td></td><td>(SPECIFY)</td></tr> </table> <p><b>PRIVATE MEDICAL SECTOR</b></p> <table> <tr><td>PRIVATE HOSPITAL/CLINIC .....</td><td>21</td></tr> <tr><td>MISSION HOSPITAL/CLINIC .....</td><td>22</td></tr> <tr><td>PHARMACY .....</td><td>23</td></tr> <tr><td>PRIVATE DOCTOR .....</td><td>24</td></tr> <tr><td>MOBILE HOSPITAL/CLINIC .....</td><td>25</td></tr> <tr><td>COMMUNITY BASED</td><td></td></tr> <tr><td>    AGENT/FIELDWORKER .....</td><td>26</td></tr> <tr><td>OTHER PRIVATE MEDICAL SECTOR</td><td></td></tr> <tr><td></td><td>27</td></tr> <tr><td></td><td>(SPECIFY)</td></tr> </table> <p><b>OTHER SOURCE</b></p> <table> <tr><td>SHOP .....</td><td>31</td></tr> <tr><td>CHURCH .....</td><td>32</td></tr> <tr><td>FRIEND/RELATIVE .....</td><td>33</td></tr> <tr><td>OTHER</td><td>96</td></tr> <tr><td></td><td>(SPECIFY)</td></tr> <tr><td>DON'T KNOW .....</td><td>98</td></tr> </table> | GOVERNMENT HOSPITAL ..... | 11 | GOVERNMENT HEALTH CENTER ..... | 12 | GOVERNMENT HEALTH POST ..... | 13 | MOBILE CLINIC/HOSPITAL ..... | 14 | COMMUNITY BASED     |   | AGENT/FIELDWORKER ..... | 15 | OTHER PUBLIC SECTOR |  |  | 16 |  | (SPECIFY) | PRIVATE HOSPITAL/CLINIC ..... | 21 | MISSION HOSPITAL/CLINIC ..... | 22 | PHARMACY ..... | 23 | PRIVATE DOCTOR ..... | 24 | MOBILE HOSPITAL/CLINIC ..... | 25 | COMMUNITY BASED |  | AGENT/FIELDWORKER ..... | 26 | OTHER PRIVATE MEDICAL SECTOR |  |  | 27 |  | (SPECIFY) | SHOP ..... | 31 | CHURCH ..... | 32 | FRIEND/RELATIVE ..... | 33 | OTHER | 96 |  | (SPECIFY) | DON'T KNOW ..... | 98 |  |
| GOVERNMENT HOSPITAL .....      | 11   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| GOVERNMENT HEALTH CENTER ..... | 12   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| GOVERNMENT HEALTH POST .....   | 13   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| MOBILE CLINIC/HOSPITAL .....   | 14   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| COMMUNITY BASED                |  |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| AGENT/FIELDWORKER .....        | 15   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| OTHER PUBLIC SECTOR            |  |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
|                                | 16   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
|                                | (SPECIFY)  |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| PRIVATE HOSPITAL/CLINIC .....  | 21   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| MISSION HOSPITAL/CLINIC .....  | 22   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| PHARMACY .....                 | 23   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| PRIVATE DOCTOR .....           | 24   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| MOBILE HOSPITAL/CLINIC .....   | 25   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| COMMUNITY BASED                |  |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| AGENT/FIELDWORKER .....        | 26   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| OTHER PRIVATE MEDICAL SECTOR   |  |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
|                                | 27   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
|                                | (SPECIFY)  |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| SHOP .....                     | 31   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| CHURCH .....                   | 32   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| FRIEND/RELATIVE .....          | 33   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| OTHER                          | 96   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
|                                | (SPECIFY)  |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| DON'T KNOW .....               | 98   |   |                           |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| 731                            | PRESENCE OF OTHERS DURING THIS SECTION.  | <table> <tr><td>CHILDREN &lt;10 .....</td><td>1</td><td>YES</td><td>2</td></tr> <tr><td>MALE ADULTS .....</td><td>1</td><td></td><td>2</td></tr> <tr><td>FEMALE ADULTS .....</td><td>1</td><td></td><td>2</td></tr> </table>  | CHILDREN <10 .....        | 1  | YES                            | 2  | MALE ADULTS .....            | 1  |                              | 2  | FEMALE ADULTS ..... | 1 |                         | 2  |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| CHILDREN <10 .....             | 1  | YES   | 2                         |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| MALE ADULTS .....              | 1  |   | 2                         |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |
| FEMALE ADULTS .....            | 1  |   | 2                         |    |                                |    |                              |    |                              |    |                     |   |                         |    |                     |  |  |    |  |           |                               |    |                               |    |                |    |                      |    |                              |    |                 |  |                         |    |                              |  |  |    |  |           |            |    |              |    |                       |    |       |    |  |           |                  |    |  |

SECTION 8. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP                    |
|-----|---|--|-------------------------|
| 801 | CHECK 304:<br>NEITHER <input type="checkbox"/> STERILIZED <input type="checkbox"/>  | HE OR SHE <input type="checkbox"/><br>STERILIZED   | → 813                   |
| 802 | CHECK 226:<br>PREGNANT <input type="checkbox"/> ↓   | NOT PREGNANT <input type="checkbox"/><br>OR UNSURE   | → 804                   |
| 803 | Now I have some questions about the future. After the child you are expecting now, would you like to have another child, or would you prefer not to have any more children?   | HAVE ANOTHER CHILD ..... 1<br>NO MORE ..... 2<br>UNDECIDED/DON'T KNOW ..... 8  | → 805<br>→ 812<br>→ 811 |
| 804 | Now I have some questions about the future. Would you like to have (a/another) child, or would you prefer not to have any (more) children?  | HAVE (A/ANOTHER) CHILD ..... 1<br>NO MORE/NONE ..... 2<br>SAYS SHE CAN'T GET PREGNANT ..... 3<br>UNDECIDED/DON'T KNOW ..... 8  | → 807<br>→ 813<br>→ 811 |
| 805 | CHECK 226:<br>NOT PREGNANT OR UNSURE <input type="checkbox"/> ↓<br>a) How long would you like to wait from now before the birth of (a/another) child?<br><br>b) After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? <input type="checkbox"/> | MONTHS ..... 1<br>YEARS ..... 2<br>SOON/NOW ..... 993<br>SAYS SHE CAN'T GET PREGNANT ..... 994<br>AFTER MARRIAGE ..... 995<br>OTHER ..... 996<br>(SPECIFY)<br>DON'T KNOW ..... 998 | → 811<br>→ 813<br>→ 811 |
| 806 | CHECK 226:<br>NOT PREGNANT OR UNSURE <input type="checkbox"/> ↓   | PREGNANT <input type="checkbox"/>  | → 812                   |
| 807 | CHECK 303: USING A CONTRACEPTIVE METHOD?<br>NOT CURRENTLY USING <input type="checkbox"/> ↓  | CURRENTLY USING <input type="checkbox"/>   | → 813                   |
| 808 | CHECK 805:<br>'24' OR MORE MONTHS <input type="checkbox"/> OR '02' OR MORE YEARS <input type="checkbox"/> ↓<br>NOT ASKED <input type="checkbox"/>   | '00-23' MONTHS <input type="checkbox"/><br>OR '00-01' YEAR <input type="checkbox"/>  | → 812                   |
| 809 | CHECK 714:<br>DAYS, WEEKS OR MONTHS AGO <input type="checkbox"/> ↓  | YEARS <input type="checkbox"/><br>AGO<br>NOT ASKED <input type="checkbox"/>  | → 811<br>→ 811          |

SECTION 8. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP |  |  |  |  |  |
|-----|---|---|------|--|--|--|--|--|
| 810 | <p>CHECK 804:</p> <p>WANTS TO HAVE <input type="checkbox"/> A/ANOTHER CHILD <input type="checkbox"/></p> <p>a) You have said that you do not want (a/another) child soon. Can you tell me why you are not using a method to prevent pregnancy?</p> <p>Any other reason?</p> <p>b) You have said that you do not want any (more) children. Can you tell me why you are not using a method to prevent pregnancy?</p> <p>Any other reason?</p> <p align="center">RECORD ALL REASONS MENTIONED.</p> | <p>NOT MARRIED ..... A</p> <p><b>FERTILITY-RELATED REASONS</b></p> <p>NOT HAVING SEX ..... B<br/>INFREQUENT SEX ..... C<br/>MENOPAUSAL/HYSTERECTOMY ..... D<br/>CAN'T GET PREGNANT ..... E<br/>NOT MENSTRUATED SINCE LAST BIRTH ..... F<br/>BREASTFEEDING ..... G<br/>UP TO GOD/FATALISTIC ..... H</p> <p><b>OPPOSITION TO USE</b></p> <p>RESPONDENT OPPOSED ..... I<br/>HUSBAND/PARTNER OPPOSED ..... J<br/>OTHERS OPPOSED ..... K<br/>RELIGIOUS PROHIBITION ..... L</p> <p><b>LACK OF KNOWLEDGE</b></p> <p>KNOWS NO METHOD ..... M<br/>KNOWS NO SOURCE ..... N</p> <p><b>METHOD-RELATED REASONS</b></p> <p>SIDE EFFECTS/HEALTH CONCERNS ..... O<br/>LACK OF ACCESS/TOO FAR ..... P<br/>COSTS TOO MUCH ..... Q<br/>PREFERRED METHOD NOT AVAILABLE ..... R<br/>NO METHOD AVAILABLE ..... S<br/>INCONVENIENT TO USE ..... T<br/>INTERFERES WITH BODY'S NORMAL PROCESSES ..... U</p> <p>OTHER _____ X<br/>(SPECIFY)</p> <p>DON'T KNOW ..... Z</p> | SKIP |  |  |  |  |  |
| 811 | <p>CHECK 303: USING A CONTRACEPTIVE METHOD?</p> <p>NOT <input type="checkbox"/> ASKED <input type="checkbox"/> CURRENTLY USING <input type="checkbox"/> YES, <input type="checkbox"/> CURRENTLY USING</p>   |   | 813  |  |  |  |  |  |
| 812 | Do you think you will use a contraceptive method to delay or avoid pregnancy at any time in the future?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |      |  |  |  |  |  |
| 813 | <p>CHECK 216:</p> <p>HAS LIVING CHILDREN <input type="checkbox"/></p> <p>a) If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be?</p> <p>PROBE FOR A NUMERIC RESPONSE.</p> <p>NO LIVING CHILDREN <input type="checkbox"/></p> <p>b) If you could choose exactly the number of children to have in your whole life, how many would that be?</p>                                     | <p>NONE ..... 00</p> <p>NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> → 815</p> <p>OTHER _____ 96 → 815<br/>(SPECIFY)</p>   |      |  |  |  |  |  |
|     |   |   |      |  |  |  |  |  |
| 814 | How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it's a boy or a girl?   | <p>BOYS      GIRLS      EITHER</p> <p>NUMBER .. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table></p> <p>OTHER _____ 96<br/>(SPECIFY)</p>  |      |  |  |  |  |  |
|     |   |   |      |  |  |  |  |  |

SECTION 8. FERTILITY PREFERENCES

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP           |
|------|--|---|----------------|
| 815  | In the last few months have you:<br>a) Heard about family planning on the radio?<br>b) Seen anything about family planning on the television?<br>c) Read about family planning in a newspaper or magazine?<br>d) Received a voice or text message about family planning on a mobile phone? | YES      NO<br>a) RADIO ..... 1      2<br>b) TELEVISION ..... 1      2<br>c) NEWSPAPER OR MAGAZINE ..... 1      2<br>d) MOBILE PHONE ..... 1      2 |                |
| 816  | In the last six months, have you listened to the following programmes on the radio:<br>a) Your Health Matters?<br>b) Other health related programmes?  | YES      NO<br>a) HEALTH MATTERS ..... 1      2<br>b) OTHER _____ (SPECIFY) 1      2  |                |
| 816A | In the last six months, have you seen any of the following programmes on television:<br>a) Your Health Matters?<br>b) Other health related programmes?   | YES      NO<br>a) HEALTH MATTERS ..... 1      2<br>b) OTHER _____ (SPECIFY) 1      2  |                |
| 817  | CHECK 701:<br>YES, <input type="checkbox"/> CURRENTLY MARRIED <input type="checkbox"/><br>YES, LIVING WITH A MAN <input type="checkbox"/><br>NO, <input type="checkbox"/> NOT IN A UNION   |   | → 901          |
| 818  | CHECK 303: USING A CONTRACEPTIVE METHOD?<br>CURRENTLY <input type="checkbox"/> USING <input type="checkbox"/><br>NOT ASKED <input type="checkbox"/>  | NOT CURRENTLY <input type="checkbox"/> USING  | → 820<br>→ 822 |
| 819  | Would you say that using contraception is mainly your decision, mainly your (husband's/partner's) decision, or did you both decide together?   | MAINLY RESPONDENT ..... 1<br>MAINLY HUSBAND/PARTNER ..... 2<br>JOINT DECISION ..... 3<br>OTHER _____ (SPECIFY) 6                                    | → 821          |
| 820  | Would you say that not using contraception is mainly your decision, mainly your (husband's/partner's) decision, or did you both decide together?   | MAINLY RESPONDENT ..... 1<br>MAINLY HUSBAND/PARTNER ..... 2<br>JOINT DECISION ..... 3<br>OTHER _____ (SPECIFY) 6                                    |                |
| 821  | CHECK 304:<br>NEITHER ARE <input type="checkbox"/> STERILIZED <input type="checkbox"/><br>HE OR SHE ARE <input type="checkbox"/> STERILIZED  |   | → 901          |
| 822  | Does your (husband/partner) want the same number of children that you want, or does he want more or fewer than you want?   | SAME NUMBER ..... 1<br>MORE CHILDREN ..... 2<br>FEWER CHILDREN ..... 3<br>DON'T KNOW ..... 8  |                |

**SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK**

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP   |
|------|--|--|--|
| 901  | CHECK 701:<br><br>CURRENTLY MARRIED/<br>LIVING WITH A MAN <input type="checkbox"/>   | NOT IN <input type="checkbox"/><br>UNION   | → 909  |
| 902  | How old was your (husband/partner) on his last birthday?   | AGE IN COMPLETED YEARS .....   | <input type="checkbox"/> <input type="checkbox"/>                          |
| 903  | Did your (husband/partner) ever attend school?   | YES ..... 1<br>NO ..... 2  | → 906  |
| 904  | What was the highest level of school he attended: primary, secondary, or higher?   | PRIMARY ..... 1<br>SECONDARY ..... 2<br>HIGHER ..... 3<br>DON'T KNOW ..... 8           | → 906  |
| 905  | What is the highest year he completed at that level?<br><br>IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.  | YEAR .....   | <input type="checkbox"/> <input type="checkbox"/>                          |
| 906  | Has your (husband/partner) done any work in the last 7 days?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | → 908  |
| 907  | Has your (husband/partner) done any work in the last 12 months?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | <input type="checkbox"/> → 909   |
| 908  | What is your (husband's/partner's) occupation? That is, what kind of work does he mainly do?   | .....<br>.....<br>.....  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 908A | (Is/was) he paid in cash or kind for this work or (is/was) he not paid at all?   | CASH ONLY ..... 1<br>CASH AND KIND ..... 2<br>IN KIND ONLY ..... 3<br>NOT PAID ..... 4 |  |
| 909  | Aside from your own housework, have you done any work in the last seven days?  | YES ..... 1<br>NO ..... 2  | → 913  |
| 910  | As you know, some women take up jobs for which they are paid in cash or kind. Others sell things, have a small business or work on the family farm or in the family business. In the last seven days, have you done any of these things or any other work? | YES ..... 1<br>NO ..... 2  | → 913  |
| 911  | Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, maternity leave, or any other such reason?  | YES ..... 1<br>NO ..... 2  | → 913  |
| 912  | Have you done any work in the last 12 months?  | YES ..... 1<br>NO ..... 2  | → 917  |
| 913  | What is your occupation, that is, what kind of work do you mainly do?  | .....<br>.....<br>.....  | <input type="checkbox"/> <input type="checkbox"/>                          |

**SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK**

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP  |
|------|---|--|-------|
| 914  | Do you do this work for a member of your family, for someone else, or are you self-employed?  | FOR FAMILY MEMBER ..... 1<br>FOR SOMEONE ELSE ..... 2<br>SELF-EMPLOYED ..... 3   |       |
| 915  | Do you usually work throughout the year, or do you work seasonally, or only once in a while?  | THROUGHOUT THE YEAR ..... 1<br>SEASONALLY/PART OF THE YEAR ..... 2<br>ONCE IN A WHILE ..... 3  |       |
| 916  | Are you paid in cash or kind for this work or are you not paid at all?  | CASH ONLY ..... 1<br>CASH AND KIND ..... 2<br>IN KIND ONLY ..... 3<br>NOT PAID ..... 4   |       |
| 917  | CHECK 701:<br><br>CURRENTLY<br>MARRIED/LIVING<br>WITH A MAN <input type="checkbox"/>  | NOT IN UNION <input type="checkbox"/>  | → 925 |
| 918  | CHECK 916:<br><br>CODE '1' OR '2'<br>CIRCLED <input type="checkbox"/>   | OTHER <input type="checkbox"/>   | → 921 |
| 919  | Who usually decides how the money you earn will be used: you, your (husband/partner), or you and your (husband/partner) jointly?                  | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND<br>HUSBAND/PARTNER JOINTLY ..... 3<br><br>OTHER _____ 6<br>(SPECIFY)   |       |
| 920  | Would you say that the money that you earn is more than what your (husband/partner) earns, less than what he earns, or about the same?            | MORE THAN HIM ..... 1<br>LESS THAN HIM ..... 2<br>ABOUT THE SAME ..... 3<br>HUSBAND/PARTNER HAS<br>NO EARNINGS ..... 4<br>DON'T KNOW ..... 8                                       | → 922 |
| 921  | Who usually decides how your (husband's/partner's) earnings will be used: you, your (husband/partner), or you and your (husband/partner) jointly? | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND<br>HUSBAND/PARTNER JOINTLY ..... 3<br>HUSBAND/PARTNER HAS<br>NO EARNINGS ..... 4<br><br>OTHER _____ 6<br>(SPECIFY) |       |
| 922  | Who usually makes decisions about health care for yourself: you, your (husband/partner), you and your (husband/partner) jointly, or someone else? | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND<br>HUSBAND/PARTNER JOINTLY ..... 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6  |       |
| 923  | Who usually makes decisions about making major household purchases?   | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND<br>HUSBAND/PARTNER JOINTLY ..... 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6  |       |
| 923A | Who usually makes decisions about making purchases for daily household needs?   | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND<br>HUSBAND/PARTNER JOINTLY ..... 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6  |       |

**SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK**

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|-------|
| 924 | Who usually makes decisions about visits to your family or relatives?  | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND HUSBAND/PARTNER JOINTLY ..... 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6   |       |
| 925 | Do you own this or any other house either alone or jointly with someone else?  | ALONE ONLY ..... 1<br>JOINTLY ONLY ..... 2<br>BOTH ALONE AND JOINTLY ..... 3<br>DOES NOT OWN ..... 4   | → 928 |
| 926 | Do you have a title deed for any house you own?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | → 928 |
| 927 | Is your name on the title deed?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |
| 928 | Do you own any agricultural or non-agricultural land either alone or jointly with someone else?  | ALONE ONLY ..... 1<br>JOINTLY ONLY ..... 2<br>BOTH ALONE AND JOINTLY ..... 3<br>DOES NOT OWN ..... 4   | → 931 |
| 929 | Do you have a title deed for any land you own?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | → 931 |
| 930 | Is your name on the title deed?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |
| 931 | PRESENCE OF OTHERS AT THIS POINT (PRESENT AND LISTENING, PRESENT BUT NOT LISTENING, OR NOT PRESENT)  | PRES./<br>PRES./<br>NOT<br>LISTEN. LISTEN. NOT<br>CHILDREN < 10 ..... 1 2 3<br>HUSBAND ..... 1 2 3<br>OTHER MALES ..... 1 2 3<br>OTHER FEMALES ..... 1 2 3                                 |       |
| 932 | In your opinion, is a husband justified in hitting or beating his wife in the following situations:<br><br>a) If she goes out without telling him?<br>b) If she neglects the children?<br>c) If she argues with him?<br>d) If she refuses to have sex with him?<br>e) If she burns the food?<br>f) If she makes a major household decision without consulting him? | YES NO DK<br>a) GOES OUT ..... 1 2 8<br>b) NEGLECTS CHILDREN .. 1 2 8<br>c) ARGUES ..... 1 2 8<br>d) REFUSES SEX ..... 1 2 8<br>e) BURNS FOOD ..... 1 2 8<br>f) MAJOR DECISION ..... 1 2 8 |       |

SECTION 10. HIV/AIDS

| NO.   | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP             |
|-------|--|--|------------------|
| 1001  | Now I would like to talk about something else. Have you ever heard of HIV or AIDS?   | YES ..... 1<br>NO ..... 2  | → 1042           |
| 1002  | HIV is the virus that can lead to AIDS. Can people reduce their chance of getting HIV by having just one uninfected sex partner who has no other sex partners? | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |                  |
| 1003  | Can people get HIV from mosquito bites?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |                  |
| 1004  | Can people reduce their chance of getting HIV by using a condom every time they have sex?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |                  |
| 1005  | Can people get HIV by sharing food with a person who has HIV?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |                  |
| 1005A | Can people reduce their chance of getting HIV by not having sexual intercourse at all?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |                  |
| 1006  | Can people get HIV because of witchcraft or other supernatural means?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |                  |
| 1007  | Is it possible for a healthy-looking person to have HIV?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |                  |
| 1008  | Can HIV be transmitted from a mother to her baby:<br><br>a) During pregnancy?<br>b) During delivery?<br>c) By breastfeeding?                                   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br><br>a) DURING PREGNANCY ..... 1 2 8<br>b) DURING DELIVERY ..... 1 2 8<br>c) BREASTFEEDING ..... 1 2 8 |                  |
| 1009  | CHECK 1008:<br><br>AT LEAST <input type="checkbox"/><br>ONE 'YES' ↓  | OTHER <input type="checkbox"/>   | → 1011           |
| 1010  | Are there any special drugs that a health worker can give to a woman infected with HIV to reduce the risk of transmission to the baby?                         | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |                  |
| 1011  | CHECK 208 AND 215:<br><br>LAST BIRTH IN 2016-2018 ↓  | NO BIRTHS <input type="checkbox"/><br><br>LAST BIRTH IN 2015 OR EARLIER <input type="checkbox"/>   | → 1027<br>→ 1027 |
| 1012  | CHECK 408 FOR LAST BIRTH:<br><br>HAD ANTEPARTAL CARE ↓   | NO ANTEPARTAL CARE <input type="checkbox"/>  | → 1020           |
| 1013  | <b>CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.</b>   |  |                  |

SECTION 10. HIV/AIDS

| NO.   | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP   |
|-------|---|---|--------|
| 1014  | During any of the antenatal visits for your last birth were you given any information about:<br><br>a) Babies getting HIV from their mother?<br>b) Things that you can do to prevent getting HIV?<br>c) Getting tested for HIV? | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br><br>a) HIV FROM MOTHER ..... 1<br>b) THINGS TO DO ..... 1<br>c) TESTED FOR HIV ..... 1   |        |
| 1015  | Were you offered a test for HIV as part of your antenatal care?   | YES ..... 1<br>NO ..... 2   |        |
| 1016  | I don't want to know the results, but were you tested for HIV as part of your antenatal care?   | YES ..... 1<br>NO ..... 2   | → 1020 |
| 1017  | Where was the test done?<br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____<br>(NAME OF PLACE)                                   | <b>PUBLIC SECTOR</b><br>GOVERNMENT HOSPITAL ..... 11<br>GOVERNMENT HEALTH CENTER ..... 12<br>GOVERNMENT HEALTH POST ..... 13<br>STAND-ALONE HTC CENTER ..... 14<br>MOBILE HTC SERVICES ..... 15<br>OTHER PUBLIC SECTOR ..... 16<br><br><b>PRIVATE MEDICAL SECTOR</b><br>PRIVATE HOSPITAL/CLINIC/<br>PRIVATE DOCTOR ..... 21<br>MISSION HOSPITAL/CLINIC ..... 22<br>STAND-ALONE HTC CENTER ..... 23<br>PHARMACY ..... 24<br>MOBILE HTC SERVICES ..... 25<br>OTHER PRIVATE MEDICAL SECTOR ..... 26<br><br><b>OTHER SOURCE</b><br>HOME ..... 31<br>WORKPLACE ..... 32<br>CORRECTIONAL FACILITY ..... 33<br><br>OTHER ..... 96<br><br>(SPECIFY) |        |
| 1018  | I don't want to know the results, but did you get the results of the test?  | YES ..... 1<br>NO ..... 2   | → 1020 |
| 1019  | All women are supposed to receive counselling after being tested. After you were tested, did you receive counselling?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |        |
| 1019A | Did you disclose your results to any of the following:<br><br>a) (Husband/Partner)?<br>b) Family member?<br>c) Religious leader?<br>d) Friend?<br>e) Any other?   | YES ..... 1<br>NO ..... 2<br><br>a) HUSBAND/PARTNER ..... 1<br>b) FAMILY MEMBER ..... 1<br>c) RELIGIOUS LEADER ..... 1<br>d) FRIEND ..... 1<br>e) OTHER ..... 1   |        |

SECTION 10. HIV/AIDS

| NO.   | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP   |
|-------|---|--|--------|
| 1020  | CHECK 430 FOR LAST BIRTH:<br><br>ANY CODE <input type="checkbox"/><br>'21-36' CIRCLED  | OTHER <input type="checkbox"/>   | → 1024 |
| 1021  | Between the time you went for delivery but before the baby was born, were you offered an HIV test?  | YES ..... 1<br>NO ..... 2  |        |
| 1022  | I don't want to know the results, but were you tested for HIV at that time?   | YES ..... 1<br>NO ..... 2  | → 1024 |
| 1023  | I don't want to know the results, but did you get the results of the test?  | YES ..... 1<br>NO ..... 2  | → 1025 |
| 1023A | Did you disclose your results to any of the following:<br><br>a) (Husband/Partner)?<br>b) Family member?<br>c) Religious leader?<br>d) Friend?<br>e) Any other?         | YES ..... 1    NO ..... 2<br>a) HUSBAND/PARTNER ..... 1    2<br>b) FAMILY MEMBER ..... 1    2<br>c) RELIGIOUS LEADER ..... 1    2<br>d) FRIEND ..... 1    2<br>e) OTHER ..... 1    2 | → 1025 |
| 1024  | CHECK 1016:<br><br>YES <input type="checkbox"/>                                        | NO OR <input type="checkbox"/><br>NOT ASKED  | → 1027 |
| 1025  | Have you been tested for HIV since that time you were tested during your pregnancy?   | YES ..... 1<br>NO ..... 2  | → 1028 |
| 1026  | How many months ago was your most recent HIV test?  | MONTHS AGO ..... <input type="checkbox"/> <input type="checkbox"/><br>TWO OR MORE YEARS ..... 95   | → 1033 |
| 1027  | I don't want to know the results, but have you ever been tested for HIV?  | YES ..... 1<br>NO ..... 2  | → 1031 |
| 1028  | How many months ago was your most recent HIV test?  | MONTHS AGO ..... <input type="checkbox"/> <input type="checkbox"/><br>TWO OR MORE YEARS ..... 95   |        |
| 1029  | I don't want to know the results, but did you get the results of the test?  | YES ..... 1<br>NO ..... 2  | → 1030 |
| 1029A | Did you disclose your results to any of the following:<br><br>a) (Husband/Partner)?<br>b) Family member?<br>c) Religious leader?<br>d) Friend?<br>e) Any other?         | YES ..... 1    NO ..... 2<br>a) HUSBAND/PARTNER ..... 1    2<br>b) FAMILY MEMBER ..... 1    2<br>c) RELIGIOUS LEADER ..... 1    2<br>d) FRIEND ..... 1    2<br>e) OTHER ..... 1    2 |        |

SECTION 10. HIV/AIDS

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP   |
|------|---|--|--------|
| 1030 | <p>Where was the test done?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <hr/> <p>(NAME OF PLACE)</p>               | <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL ..... 11<br/>GOVERNMENT HEALTH CENTER ..... 12<br/>GOVERNMENT HEALTH POST ..... 13<br/>STAND-ALONE HTC CENTER ..... 14<br/>MOBILE HTC SERVICES ..... 15<br/>OTHER PUBLIC SECTOR</p> <hr/> <p>16 (SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/CLINIC/<br/>PRIVATE DOCTOR ..... 21<br/>MISSION HOSPITAL/CLINIC ..... 22<br/>STAND-ALONE HTC CENTER ..... 23<br/>PHARMACY ..... 24<br/>MOBILE HTC SERVICES ..... 25<br/>OTHER PRIVATE MEDICAL SECTOR</p> <hr/> <p>26 (SPECIFY)</p> <p><b>OTHER SOURCE</b></p> <p>HOME ..... 31<br/>WORKPLACE ..... 32<br/>CORRECTIONAL FACILITY ..... 33</p> <p>OTHER _____ 96 (SPECIFY)</p> |        |
| 1031 | Do you know of a place where people can go to get an HIV test?  | YES ..... 1<br>NO ..... 2  | → 1033 |
| 1032 | <p>Where is that?</p> <p>Any other place?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <hr/> <p>(NAME OF PLACE)</p> | <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL ..... A<br/>GOVERNMENT HEALTH CENTER ..... B<br/>GOVERNMENT HEALTH POST ..... C<br/>STAND-ALONE HTC CENTER ..... D<br/>MOBILE HTC SERVICES ..... E<br/>OTHER PUBLIC SECTOR</p> <hr/> <p>F (SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/CLINIC/<br/>PRIVATE DOCTOR ..... G<br/>MISSION HOSPITAL/CLINIC ..... H<br/>STAND-ALONE HTC CENTER ..... I<br/>PHARMACY ..... J<br/>MOBILE HTC SERVICES ..... K<br/>OTHER PRIVATE MEDICAL SECTOR</p> <hr/> <p>L (SPECIFY)</p> <p>OTHER _____ X (SPECIFY)</p>  |        |
| 1033 | Have you heard of test kits people can use to test themselves for HIV?  | YES ..... 1<br>NO ..... 2  | → 1035 |
| 1034 | Have you ever tested yourself for HIV using a self-test kit?  | YES ..... 1<br>NO ..... 2  |        |
| 1035 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8   |        |

SECTION 10. HIV/AIDS

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP |
|------|---|--|------|
| 1036 | Do you think children living with HIV should be allowed to attend school with children who do not have HIV?                                     | YES ..... 1<br>NO ..... 2<br><br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                         |      |
| 1037 | Do you think people hesitate to take an HIV test because they are afraid of how other people will react if the test result is positive for HIV? | YES ..... 1<br>NO ..... 2<br><br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                         |      |
| 1038 | Do people talk badly about people living with HIV, or who are thought to be living with HIV?  | YES ..... 1<br>NO ..... 2<br><br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                         |      |
| 1039 | Do people living with HIV, or thought to be living with HIV, lose the respect of other people?  | YES ..... 1<br>NO ..... 2<br><br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                         |      |
| 1040 | Do you agree or disagree with the following statement: I would be ashamed if someone in my family had HIV.                                      | AGREE ..... 1<br>DISAGREE ..... 2<br><br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                 |      |
| 1041 | Do you fear that you could get HIV if you come into contact with the saliva of a person living with HIV?  | YES ..... 1<br>NO ..... 2<br>SAYS SHE HAS HIV ..... 3<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8 |      |

SECTION 10. HIV/AIDS

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP    |
|------|---|---|---------|
| 1042 | <p>CHECK 1001:</p> <p>HEARD ABOUT <input type="checkbox"/> HIV OR AIDS <input type="checkbox"/></p> <p>a) Apart from HIV, have you heard about other infections that can be transmitted through sexual contact?</p> <p>b) Have you heard about infections that can be transmitted through sexual contact?</p> | <p>NOT HEARD ABOUT <input type="checkbox"/> HIV OR AIDS <input type="checkbox"/></p> <p>YES ..... 1</p> <p>NO ..... 2</p> |         |
| 1043 | <p>CHECK 713:</p> <p>HAS HAD SEXUAL INTERCOURSE <input type="checkbox"/></p>  | <p>NEVER HAD SEXUAL INTERCOURSE <input type="checkbox"/></p>  | → 1050A |
| 1044 | <p>CHECK 1042: HEARD ABOUT OTHER SEXUALLY TRANSMITTED INFECTIONS?</p> <p>YES <input type="checkbox"/></p>   | <p>NO <input type="checkbox"/></p>  | → 1046  |
| 1045 | <p>Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>  |         |
| 1046 | <p>Sometimes women experience a bad-smelling abnormal genital discharge. During the last 12 months, have you had a bad-smelling abnormal genital discharge?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>  |         |
| 1047 | <p>Sometimes women have a genital sore or ulcer. During the last 12 months, have you had a genital sore or ulcer?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>  |         |
| 1048 | <p>CHECK 1045, 1046, AND 1047:</p> <p>HAS HAD AN <input type="checkbox"/> INFECTION (ANY 'YES')</p>   | <p>HAS NOT HAD AN <input type="checkbox"/> INFECTION OR DOES NOT KNOW</p>   | → 1050A |
| 1049 | <p>The last time you had (PROBLEM FROM 1045/1046/1047), did you seek any kind of advice or treatment?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p>  | → 1050A |

**SECTION 10. HIV/AIDS**

| NO.   | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP |
|-------|--|--|------|
| 1050  | <p>Where did you go?</p> <p>Any other place?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <hr/> <p>(NAME OF PLACE)</p> | <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL ..... A<br/>GOVERNMENT HEALTH CENTER ..... B<br/>GOVERNMENT HEALTH POST ..... C<br/>STAND-ALONE HTC CENTER ..... D<br/>MOBILE HTC SERVICES ..... E<br/>OTHER PUBLIC SECTOR</p> <hr/> <p>F (SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/CLINIC/<br/>PRIVATE DOCTOR ..... G<br/>MISSION HOSPITAL/CLINIC ..... H<br/>STAND-ALONE HTC CENTER ..... I<br/>PHARMACY ..... J<br/>MOBILE HTC SERVICES ..... K<br/>OTHER PRIVATE MEDICAL SECTOR</p> <hr/> <p>L (SPECIFY)</p> <p><b>OTHER SOURCE</b></p> <p>SHOP ..... M</p> <p>OTHER _____ X (SPECIFY)</p> |      |
| 1050A | Husbands and wives do not always agree on everything. If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in refusing to have sex with him?                     | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |      |
| 1051  | If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have sex?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |      |
| 1052  | Is a wife justified in refusing to have sex with her husband when she knows he has sex with other women?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |      |
| 1053  | CHECK 701:<br><br>CURRENTLY MARRIED/ <input type="checkbox"/><br>LIVING WITH A MAN <input type="checkbox"/>  | NOT IN UNION <input type="checkbox"/><br><br>→ 1101  |      |
| 1054  | Can you say no to your (husband/partner) if you do not want to have sexual intercourse?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8   |      |
| 1055  | Could you ask your (husband/partner) to use a condom if you wanted him to?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8   |      |

SECTION 11. OTHER HEALTH ISSUES

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP   |
|------|--|---|--------|
| 1101 | Now I would like to ask you some other questions relating to health matters. Have you had an injection for any reason in the last 12 months?<br><br>IF YES: How many injections have you had?<br><br>IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.   | NUMBER OF INJECTIONS ..... <input type="text"/> <input type="text"/><br><br>NONE ..... 00 → 1104  |        |
| 1102 | Among these injections, how many were administered by a doctor, a nurse, a pharmacist, a dentist, or any other health worker?<br><br>IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.   | NUMBER OF INJECTIONS ..... <input type="text"/> <input type="text"/><br><br>NONE ..... 00 → 1104  |        |
| 1103 | The last time you got an injection from a health worker, did he/she take the syringe and needle from a new, unopened package?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |        |
| 1104 | Do you currently smoke cigarettes every day, some days, or not at all?   | EVERY DAY ..... 1<br>SOME DAYS ..... 2<br>NOT AT ALL ..... 3  | → 1106 |
| 1105 | On average, how many cigarettes do you currently smoke each day?   | NUMBER OF CIGARETTES ..... <input type="text"/> <input type="text"/>  |        |
| 1106 | Do you currently smoke or use any other type of tobacco every day, some days, or not at all?   | EVERY DAY ..... 1<br>SOME DAYS ..... 2<br>NOT AT ALL ..... 3  | → 1108 |
| 1107 | What other type of tobacco do you currently smoke or use?<br><br>RECORD ALL MENTIONED.   | PIPES FULL OF TOBACCO ..... A<br>CIGARS OR CIGARILLOS ..... B<br>WATER PIPE (SHISHA) ..... C<br>SNUFF BY MOUTH ..... D<br>SNUFF BY NOSE ..... E<br>CHEWING TOBACCO ..... F<br><br>OTHER _____ X<br>(SPECIFY)  |        |
| 1108 | Many different factors can prevent women from getting medical advice or treatment for themselves. When you are sick and want to get medical advice or treatment, is each of the following a big problem or not a big problem:<br><br>a) Getting permission to go for advice or treatment?<br>b) Getting money needed for advice or treatment?<br>c) The distance to the health facility?<br>d) Not wanting to go alone?<br>e) Having to take transport?<br>f) Concern that there may not be any health provider?<br>g) Concern that there may not be a female health provider?<br>h) Rude attitude of health provider? | BIG      NOT A BIG<br>PROBLEM      PROBLEM<br>a) PERMISSION TO GO ..... 1      2<br>b) GETTING MONEY ..... 1      2<br>c) DISTANCE ..... 1      2<br>d) GO ALONE ..... 1      2<br>e) TAKE TRANSPORT ..... 1      2<br>f) NO PROVIDER ..... 1      2<br>g) NO FEMALE PROVIDER ..... 1      2<br>h) RUDE ATTITUDE ..... 1      2 |        |

**SECTION 11. OTHER HEALTH ISSUES**

| NO.   | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP    |
|-------|---|---|---------|
| 1109  | Are you covered by any health insurance or health scheme?   | YES ..... 1<br>NO ..... 2   | → 1110A |
| 1110  | What type of health insurance or health scheme are you covered by?<br><br>RECORD ALL MENTIONED.                                       | MUTUAL HEALTH ORGANIZATION/<br>COMMUNITY-BASED HEALTH<br>INSURANCE ..... A<br>HEALTH INSURANCE THROUGH<br>EMPLOYER ..... B<br>SOCIAL SECURITY ..... C<br>OTHER PRIVATELY PURCHASED<br>COMMERCIAL HEALTH INSURANCE ..... D<br>LOW COST PRE-PAYMENT<br>SCHEME/STANDARD ..... E<br>HIGH COST PRE-PAYMENT<br>SCHEME/PREMIUM ..... F<br><br>OTHER _____ X<br>(SPECIFY) |         |
| 1110A | Have you ever been told by a doctor or other health worker that you have raised blood pressure or hypertension?                       | YES ..... 1<br>NO ..... 2   | → 1110C |
| 1110B | In the past two weeks, have you taken any drugs (medication) for raised blood pressure prescribed by a doctor or other health worker? | YES ..... 1<br>NO ..... 2   |         |
| 1110C | Have you ever been told by a doctor or other health worker that you have raised blood sugar or diabetes?                              | YES ..... 1<br>NO ..... 2   | → 1111A |
| 1110D | In the past two weeks, have you taken any drugs (medication) for diabetes prescribed by a doctor or other health worker?              | YES ..... 1<br>NO ..... 2   |         |

SECTION 11. OTHER HEALTH ISSUES

| NO.   | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP    |
|-------|---|---|---------|
| 1111A | Have you ever undergone a surgical operation in the past 5 years?   | YES ..... 1<br>NO ..... 2   | → 1111C |
| 1111B | What type of operation(s) were they?<br><br>RECORD ALL MENTIONED.   | HERNIA OPERATION ..... A<br>CAESAREAN SECTION ..... B<br>LAPAROTOMY (Cutting open the abdomen) ..... C<br>LUMP REMOVAL ..... D<br>ABSCESS DRAINAGE ..... E<br>WOUND CLOSURE ..... F<br>OPEN FRACTURE ..... G<br>OTHER _____ (specify) ..... X   |         |
| 1111C | In the last 5 years has a doctor or another healthcare worker told you that you might need (a/another) operation? | YES ..... 1<br>NO ..... 2   | → 1201  |
| 1111D | Did you undergo the surgery?  | YES ..... 1<br>NO ..... 2   | → 1201  |
| 1111E | Why did you not undergo it?<br><br>RECORD ALL MENTIONED.  | I COULD NOT REACH THE DOCTOR ..... A<br>I COULD NOT AFFORD THE OPERATION ..... B<br>I COULD NOT AFFORD TO GET<br>TO THE HOSPITAL ..... C<br>I COULD NOT AFFORD THE TIME OFF WORK ..... D<br>IT WAS TOO FAR TO GET TO THE HOSPITAL ..... E<br>I DID NOT TRUST THE OPERATION WOULD<br>MAKE BE BETTER ..... F<br>FEAR OF CARE ..... G<br>OUT OF SHAME ..... H<br>MY SPOUSE/FAMILY WOULD NOT LET ME GO ..... I<br>OTHER _____ (specify) ..... X |         |

**SECTION 12: FISTULA**

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP   |
|------|--|--|--------|
| 1201 | Sometimes a woman can have a problem of constant leakage of urine or stool from her vagina during the day and night. This problem usually occurs after a difficult childbirth, but may also occur after a sexual assault or after pelvic surgery.<br><br>Have you ever experienced a constant leakage of urine or stool from your vagina during the day and night? | YES ..... 1<br>NO ..... 2  | → 1203 |
| 1202 | Have you ever heard of this problem?   | YES ..... 1<br>NO ..... 2  | → 1301 |
| 1203 | Did this problem start after you delivered a baby or had a stillbirth?   | AFTER DELIVERED BABY ..... 1<br>AFTER HAD STILLBIRTH ..... 2<br>NEITHER ..... 3  | → 1205 |
| 1204 | Did this problem start after a normal labor and delivery, or after a very difficult labor and delivery?  | NORMAL LABOR/DELIVERY ..... 1<br>VERY DIFFICULT LABOR/DELIVERY ..... 2   | → 1206 |
| 1205 | What do you think caused this problem?   | SEXUAL ASSAULT ..... 1<br>PELVIC SURGERY ..... 2<br><br>OTHER _____ 6<br>DON'T KNOW ..... 8  | → 1207 |
| 1206 | How many days after (CAUSE OF PROBLEM FROM 1203 OR 1205) did the leakage start?<br><br>ENTER '90' IF 90 DAYS OR MORE.  | NUMBER OF DAYS AFTER DELIVERY/OTHER EVENT ..... <input type="text"/> <input type="text"/>  |        |
| 1207 | Have you sought treatment for this condition?  | YES ..... 1<br>NO ..... 2  | → 1209 |
| 1208 | Why have you not sought treatment?<br><br>PROBE AND RECORD ALL MENTIONED.  | DO NOT KNOW CAN BE FIXED ..... A<br>DO NOT KNOW WHERE TO GO ..... B<br>TOO EXPENSIVE ..... C<br>TOO FAR ..... D<br>POOR QUALITY OF CARE ..... E<br>COULD NOT GET PERMISSION ..... F<br>EMBARRASSMENT ..... G<br>PROBLEM DISAPPEARED ..... H<br><br>OTHER _____ X | → 1301 |
| 1209 | From whom did you last seek treatment?   | <b>HEALTH PROFESSIONAL</b><br>DOCTOR ..... 1<br>NURSE/MIDWIFE ..... 2<br><b>OTHER PERSON</b><br>COMMUNITY/VILLAGE<br>HEALTH WORKER ..... 3<br><br>OTHER _____ 6<br>(SPECIFY)   |        |
| 1210 | Did you have an operation to fix the problem?  | YES ..... 1<br>NO ..... 2  |        |
| 1211 | Did the treatment stop the leakage completely?<br><br>IF NO: Did the treatment reduce the leakage?   | YES, STOPPED COMPLETELY ..... 1<br>NOT STOPPED BUT REDUCED ..... 2<br>NOT STOPPED AT ALL ..... 3<br><br>DID NOT RECEIVE TREATMENT ..... 4  |        |

**SECTION 13. ADULT AND MATERNAL MORTALITY**

| NO.             | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
|-----------------|---|---|---|-----------------|---|-----------------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|---------|---|--|--|--|
| 1301            | <p>Now I would like to ask you some questions about your brothers and sisters born to your natural mother, including those who are living with you, those living elsewhere and those who have died. From our experience in prior surveys, we know it may sometimes be difficult to establish a complete list of all the children born to your natural mother. We will work together to draw the most complete list and work to recall all your siblings. Could you please now give me the names of all of your brothers and sisters born to your natural mother.</p> <p>DO NOT FILL IN THE ORDER NUMBER YET.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">NAME<br/>a _____</td> <td style="width: 20%;">ORDER NUMBER<br/><table border="1" style="border-collapse: collapse; width: 100%;"><tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr></table></td> <td style="width: 50%;">NAME<br/>k _____</td> <td style="width: 20%;">ORDER NUMBER<br/><table border="1" style="border-collapse: collapse; width: 100%;"><tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr></table></td> </tr> <tr> <td>b _____</td> <td><table border="1" style="border-collapse: collapse; width: 100%;"><tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr></table></td> <td>l _____</td> <td><table border="1" style="border-collapse: collapse; width: 100%;"><tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr></table></td> </tr> <tr> <td>c _____</td> <td><table border="1" style="border-collapse: collapse; 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| j _____         | <table border="1" style="border-collapse: collapse; width: 100%;"><tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr></table>   |   |   | t _____         | <table border="1" style="border-collapse: collapse; width: 100%;"><tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr></table>                 |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
|                 |   |   |   |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
|                 |   |   |   |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
| 1302            | <p>CHECK 1301:</p> <p>ONE OR MORE BROTHERS <input type="checkbox"/> OR SISTERS LISTED </p> <p>NO BROTHERS <input type="checkbox"/> OR SISTERS LISTED </p>   |   | → 1304  |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
| 1303            | <p>READ THE NAMES OF THE BROTHERS AND SISTERS TO THE RESPONDENT AND AFTER THE LAST ONE ASK: Are there any other brothers and sisters from the same mother that you have not mentioned?</p> <p>NO <input type="checkbox"/> YES <input type="checkbox"/>  → LIST ADDITIONAL BROTHERS AND SISTERS IN 1301.</p>   |   |   |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
| 1304            | <p>Sometimes people forget to mention children born to their natural mother because they do not live with them or they do not see them very often. Are there any brothers or sisters who do not live with you that you have not mentioned?</p> <p>NO <input type="checkbox"/> YES <input type="checkbox"/>  → LIST ADDITIONAL BROTHERS AND SISTERS IN 1301.</p>   |   |   |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
| 1305            | <p>Sometimes people forget to mention children born to their natural mother because they have died. Are there any brothers or sisters who died that you have not mentioned?</p> <p>NO <input type="checkbox"/> YES <input type="checkbox"/>  → LIST ADDITIONAL BROTHERS AND SISTERS IN 1301.</p>  |   |   |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
| 1306            | <p>Some people have brothers or sisters from the same mother but a different father. Are there any brothers or sisters born to your natural mother, but who have a different natural father, that you have not mentioned?</p> <p>NO <input type="checkbox"/> YES <input type="checkbox"/>  → LIST ADDITIONAL BROTHERS AND SISTERS IN 1301.</p>  |   |   |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
| 1307            | <p>COUNT THE NUMBER OF BROTHERS AND SISTERS RECORDED IN 1301.</p>   | <p>TOTAL BROTHERS AND SISTERS ... <table border="1" style="border-collapse: collapse; width: 20px;"><tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr></table></p> |   |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |
|                 |   |   |   |                 |   |                 |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |         |   |  |  |  |

**SECTION 13. ADULT AND MATERNAL MORTALITY**

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP |
|------|--|--|------|
| 1308 | <p>CHECK 1307:</p> <p>Just to make sure that I have this right: Your mother had in TOTAL _____ births, excluding you, during her lifetime. Is that correct?</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/></p> <p style="text-align: center;">↓</p>           | <p>PROBE AND CORRECT 1301 AND/OR 1307.</p>   |      |
| 1309 | <p>CHECK 1307:</p> <p>ONE OR MORE <input type="checkbox"/> BROTHERS/SISTERS <input type="checkbox"/></p> <p style="text-align: center;">↓</p> <p>NO <input type="checkbox"/> BROTHER OR SISTER</p>   | <p>→ 1400</p>  |      |
| 1310 | <p>Please tell me, which brother or sister was born first? And which was born next?</p> <p>RECORD '01' FOR THE ORDER NUMBER IN 1301 FOR THE FIRST BROTHER OR SISTER, '02' FOR THE SECOND, AND SO ON UNTIL YOU HAVE RECORDED THE ORDER NUMBER FOR ALL BROTHERS AND SISTERS.</p> |  |      |
| 1311 | <p>How many births did your mother have before you were born?</p>  | <p>NUMBER OF PRECEDING BIRTHS .. <input type="checkbox"/> <input type="checkbox"/></p> |      |

SECTION 13. ADULT AND MATERNAL MORTALITY

|   |  |   |   |   |   |   |   |
|---|--|---|---|---|---|---|---|
| 1312  | LIST THE BROTHERS AND SISTERS ACCORDING TO THE ORDER NUMBER IN 1301. ASK 1313 TO 1324 FOR ONE BROTHER OR SISTER BEFORE ASKING ABOUT THE NEXT BROTHER OR SISTER. IF THERE ARE MORE THAN 12 BROTHERS AND SISTERS, USE AN ADDITIONAL QUESTIONNAIRE. |   |   |   |   |   |   |
| 1313  | NAME OF BROTHER OR SISTER.<br>_____  | (01)  | (02)  | (03)  | (04)  | (05)  | (06)  |
| 1314  | Is (NAME) male or female?  | MALE ..... 1<br>FEMALE .. 2   | MALE ..... 1<br>FEMALE .. 2                             |
| 1315  | Is (NAME) still alive?   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (02) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (03) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (04) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (05) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (06) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (07) ↵ |
| 1316  | How old is (NAME)?<br><br>GO TO (02)   | <input type="text"/> <input type="text"/><br>GO TO (03)   | <input type="text"/> <input type="text"/><br>GO TO (04)   | <input type="text"/> <input type="text"/><br>GO TO (05)   | <input type="text"/> <input type="text"/><br>GO TO (06)   | <input type="text"/> <input type="text"/><br>GO TO (07)   |   |
| 1317  | How many years ago did (NAME) die?   | <input type="text"/> <input type="text"/>   |   |
| 1318  | How old was (NAME) when (he/she) died?<br><br>IF DON'T KNOW, PROBE AND ASK ADDITIONAL QUESTIONS TO GET AN ESTIMATE.  | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 |   |
| 1319  | Was (NAME) pregnant when she died?   | YES ..... 1<br>GO TO 1322B ↵  | YES ..... 1<br>GO TO 1322B ↵                            |
| 1320  | Did (NAME) die during childbirth?  | YES ..... 1<br>GO TO 1322A ↵  | YES ..... 1<br>GO TO 1322A ↵                            |
| 1321  | Did (NAME) die within two months after the end of a pregnancy or childbirth?   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   |   |
| 1322  | How many days after the end of the pregnancy did (NAME) die?   | <input type="text"/> <input type="text"/>   |   |
| 1322A                                       | Did (NAME) receive a caesarean section?  | YES ..... 1<br>NO ..... 2   |   |
| 1322B                                       | Did (NAME) die in the hospital?  | YES ..... 1<br>NO ..... 2   |   |
| 1323  | Was (NAME)'s death due to an act of violence?  | YES ..... 1<br>GO TO (02) ↵   | YES ..... 1<br>GO TO (03) ↵   | YES ..... 1<br>GO TO (04) ↵   | YES ..... 1<br>GO TO (05) ↵   | YES ..... 1<br>GO TO (06) ↵   | YES ..... 1<br>GO TO (07) ↵                             |
| 1324  | Was (NAME)'s death due to an accident?   | YES ..... 1<br>NO ..... 2<br>GO TO (02)   | YES ..... 1<br>NO ..... 2<br>GO TO (03)   | YES ..... 1<br>NO ..... 2<br>GO TO (04)   | YES ..... 1<br>NO ..... 2<br>GO TO (05)   | YES ..... 1<br>NO ..... 2<br>GO TO (06)   | YES ..... 1<br>NO ..... 2<br>GO TO (07)                 |
| IF NO MORE BROTHERS OR SISTERS, GO TO 1400. |  |   |   |   |   |   |   |

**SECTION 13. ADULT AND MATERNAL MORTALITY MODULE**

|   |  |   |   |   |   |   |   |
|---|--|---|---|---|---|---|---|
| 1312  | LIST THE BROTHERS AND SISTERS ACCORDING TO THE ORDER NUMBER IN 1301. ASK 1313 TO 1324 FOR ONE BROTHER OR SISTER BEFORE ASKING ABOUT THE NEXT BROTHER OR SISTER. IF THERE ARE MORE THAN 12 BROTHERS AND SISTERS, USE AN ADDITIONAL QUESTIONNAIRE. |   |   |   |   |   |   |
| 1313  | NAME OF BROTHER OR SISTER.<br>_____  | (07)  | (08)  | (09)  | (10)  | (11)  | (12)  |
| 1314  | Is (NAME) male or female?  | MALE .... 1<br>FEMALE .. 2  |
| 1315  | Is (NAME) still alive?   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (08) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (09) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (10) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (11) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (12) ↵   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br>GO TO (13) ↵   |
| 1316  | How old is (NAME)?   | <input type="text"/> <input type="text"/><br>GO TO (08)   | <input type="text"/> <input type="text"/><br>GO TO (09)   | <input type="text"/> <input type="text"/><br>GO TO (10)   | <input type="text"/> <input type="text"/><br>GO TO (11)   | <input type="text"/> <input type="text"/><br>GO TO (12)   | <input type="text"/> <input type="text"/><br>GO TO (13)   |
| 1317  | How many years ago did (NAME) die?   | <input type="text"/> <input type="text"/>   |
| 1318  | How old was (NAME) when (he/she) died?<br><br>IF DON'T KNOW, PROBE AND ASK ADDITIONAL QUESTIONS TO GET AN ESTIMATE.  | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 | <input type="text"/> <input type="text"/><br>IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1323 |
| 1319  | Was (NAME) pregnant when she died?   | YES ..... 1<br>GO TO 1322B ↵  |
| 1320  | Did (NAME) die during childbirth?  | YES ..... 1<br>GO TO 1322A ↵  |
| 1321  | Did (NAME) die within two months after the end of a pregnancy or childbirth?   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   | YES ..... 1<br>NO ..... 2<br>GO TO 1323 ↵   |
| 1322  | How many days after the end of the pregnancy did (NAME) die?   | <input type="text"/> <input type="text"/>   |
| 1322A                                       | Did (NAME) receive a caesarean section?  | YES ..... 1   |
| 1322B                                       | Did (NAME) die in the hospital?  | NO ..... 2  |
| 1323  | Was (NAME)'s death due to an act of violence?  | YES ..... 1<br>GO TO (08) ↵   | YES ..... 1<br>GO TO (09) ↵   | YES ..... 1<br>GO TO (10) ↵   | YES ..... 1<br>GO TO (11) ↵   | YES ..... 1<br>GO TO (12) ↵   | YES ..... 1<br>GO TO (13) ↵   |
| 1324  | Was (NAME)'s death due to an accident?   | NO ..... 2  |
|   | GO TO (08)   | GO TO (09)  | GO TO (10)  | GO TO (11)  | GO TO (12)  | GO TO (13)  |   |
| IF NO MORE BROTHERS OR SISTERS, GO TO 1400. |  |   |   |   |   |   |   |

SECTION 14: DOMESTIC VIOLENCE

| NO.   | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP   |       |                       |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
|-------|--|--|--------|-------|-----------------------|---|-----------------------|---|----|---|---|---|---|---|-----|---|---|---|---|---|----|---|---|---|---|---|-----|---|---|---|---|---|----|---|---|--|--|--|--|
| 1400  | CHECK COVER PAGE: WOMAN SELECTED FOR 14 MODULE?<br><br>WOMAN SELECTED <input type="checkbox"/><br>FOR THIS SECTION ↓   | WOMAN <input type="checkbox"/><br>NOT SELECTED   | → 1433 |       |                       |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1401  | CHECK FOR PRESENCE OF OTHERS:<br>DO NOT CONTINUE UNTIL PRIVACY IS ENSURED.<br><br>PRIVACY<br>OBTAINED ..... 1<br>↓<br>PRIVACY<br>NOT POSSIBLE ..... 2  |  | → 1432 |       |                       |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1401A | READ TO THE RESPONDENT:<br>Now I would like to ask you questions about some other important aspects of a woman's life. You may find some of these questions very personal. However, your answers are crucial for helping to understand the condition of women in Zambia. Let me assure you that your answers are completely confidential and will not be told to anyone and no one else in your household will know that you were asked these questions. If I ask you any question you don't want to answer, just let me know and I will go on to the next question. |  |        |       |                       |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1402  | CHECK 701 AND 702:<br><br>CURRENTLY MARRIED/<br>LIVING WITH A MAN <input type="checkbox"/><br>↓<br>FORMERLY MARRIED/<br>LIVED WITH A MAN (READ IN PAST TENSE<br>AND USE 'LAST' WITH 'HUSBAND/PARTNER') <input type="checkbox"/><br>↓<br>NEVER MARRIED/<br>NEVER LIVED WITH <input type="checkbox"/><br>A MAN   |  | → 1416 |       |                       |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1403  | First, I am going to ask you about some situations which happen to some women. Please tell me if these apply to your relationship with your (last) (husband/partner)?<br><br>a) He (is/was) jealous or angry if you (talk/talked) to other men?<br><br>b) He frequently (accuses/accused) you of being unfaithful?<br><br>c) He (does/did) not permit you to meet your female friends?<br><br>d) He (tries/tried) to limit your contact with your family?<br><br>e) He (insists/insisted) on knowing where you (are/were) at all times?                              | YES    NO    DK<br><br>JEALOUS ..... 1    2    8<br><br>ACCUSES ..... 1    2    8<br><br>NOT MEET FRIENDS ... 1    2    8<br><br>NO FAMILY ..... 1    2    8<br><br>WHERE YOU ARE ..... 1    2    8  |        |       |                       |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1404  | Now I need to ask some more questions about your relationship with your (last) (husband/partner).<br><br>A. Did your (last) (husband/partner) ever:<br><br>a) say or do something to humiliate you in front of others?<br><br>b) threaten to hurt or harm you or someone you care about?<br><br>c) insult you or make you feel bad about yourself?   | B. How often did this happen during the last 12 months: often, only sometimes, or not at all?<br><br><table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th rowspan="2">EVER</th> <th rowspan="2">OFTEN</th> <th colspan="2">SOME-TIMES</th> <th rowspan="2">NOT IN LAST 12 MONTHS</th> </tr> <tr> <th>1</th> <th>2</th> </tr> </table>  | EVER   | OFTEN | SOME-TIMES            |   | NOT IN LAST 12 MONTHS | 1 | 2  |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| EVER  | OFTEN  | SOME-TIMES   |        |       | NOT IN LAST 12 MONTHS |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
|       |  | 1  | 2      |       |                       |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
|       |  | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>YES</td> <td>1</td> <td>→</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>NO</td> <td>2</td> <td>↓</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>YES</td> <td>1</td> <td>→</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>NO</td> <td>2</td> <td>↓</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>YES</td> <td>1</td> <td>→</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>NO</td> <td>2</td> <td>↓</td> <td></td> <td></td> <td></td> </tr> </table> | YES    | 1     | →                     | 1 | 2                     | 3 | NO | 2 | ↓ | 1 | 2 | 3 | YES | 1 | → | 1 | 2 | 3 | NO | 2 | ↓ | 1 | 2 | 3 | YES | 1 | → | 1 | 2 | 3 | NO | 2 | ↓ |  |  |  |  |
| YES   | 1  | →  | 1      | 2     | 3                     |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| NO    | 2  | ↓  | 1      | 2     | 3                     |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| YES   | 1  | →  | 1      | 2     | 3                     |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| NO    | 2  | ↓  | 1      | 2     | 3                     |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| YES   | 1  | →  | 1      | 2     | 3                     |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |
| NO    | 2  | ↓  |        |       |                       |   |                       |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |  |

SECTION 14: DOMESTIC VIOLENCE

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP |
|------|---|---|------|
| 1405 | A. Did your (last) (husband/partner) ever do any of the following things to you:  | B. How often did this happen during the last 12 months: often, only sometimes, or not at all?   |      |
|      |   | <b>EVER</b><br>YES      1 → 1      2      3<br>NO      2 ↓<br>YES      1 → 1      2      3<br>NO      2 ↓<br>↓ |      |
| 1406 | CHECK 1405A (a-j):<br><br>AT LEAST ONE <input type="checkbox"/><br>'YES' ↓  | NOT A SINGLE <input type="checkbox"/><br>'YES'  | 1409 |
| 1407 | How long after you first (got married/started living together) with your (last) (husband/partner) did (this/any of these things) first happen?<br><br>IF LESS THAN ONE YEAR, RECORD '00.  | NUMBER OF YEARS ..... <input type="text"/> <input type="text"/>   |      |
| 1408 | Did the following ever happen as a result of what your (last) (husband/partner) did to you:<br><br>a) You had cuts, bruises, or aches?<br><br>b) You had eye injuries, sprains, dislocations, or burns?<br><br>c) You had deep wounds, broken bones, broken teeth, or any other serious injury? | YES ..... 1<br>NO ..... 2<br><br>YES ..... 1<br>NO ..... 2<br><br>YES ..... 1<br>NO ..... 2   |      |

SECTION 14: DOMESTIC VIOLENCE

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP   |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
|------|--|--|--------|-------------------|---|----------------|--|----------------|-----|---|---|---|-----|---|---|---|---|---|----|---|---|--|--|--|-----|---|---|---|---|---|----|---|---|--|--|--|-----|---|---|---|---|---|----|---|---|--|--|--|--|
| 1409 | Have you ever hit, slapped, kicked, or done anything else to physically hurt your (last) (husband/partner) at times when he was not already beating or physically hurting you?   | YES ..... 1<br>NO ..... 2  | → 1411 |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1410 | In the last 12 months, how often have you done this to your (last) (husband/partner): often, only sometimes, or not at all?  | OFTEN ..... 1<br>SOMETIMES ..... 2<br>NOT AT ALL ..... 3   |        |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1411 | Does (did) your (last) (husband/partner) drink alcohol?  | YES ..... 1<br>NO ..... 2  | → 1413 |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1412 | How often does (did) he get drunk: often, only sometimes, or never?  | OFTEN ..... 1<br>SOMETIMES ..... 2<br>NEVER ..... 3  |        |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1413 | Are (Were) you afraid of your (last) (husband/partner): most of the time, sometimes, or never?   | MOST OF THE TIME AFRAID ..... 1<br>SOMETIMES AFRAID ..... 2<br>NEVER AFRAID ..... 3  |        |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1414 | CHECK 709:<br><br>MARRIED MORE <input type="checkbox"/><br>THAN ONCE ↓   | MARRIED ONLY <input type="checkbox"/><br>ONCE  | → 1416 |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1415 | A. So far we have been talking about the behaviour of your (current/last) (husband/partner). Now I want to ask you about the behaviour of any previous (husband/partner).<br><br>a) Did any previous (husband/partner) ever hit, slap, kick, or do anything else to hurt you physically?<br><br>b) Did any previous (husband/partner) physically force you to have intercourse or perform any other sexual acts against your will?<br><br>c) Did any previous (husband/partner) humiliate you in front of others, threaten to hurt you or someone you care about, or insult you or make you feel bad about yourself? | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">EVER</th> <th colspan="2">0 - 11 MONTHS AGO</th> <th colspan="2">12+ MONTHS AGO</th> <th rowspan="2">DON'T REMEMBER</th> </tr> <tr> <th>YES</th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>YES</td> <td>1</td> <td>→</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>NO</td> <td>2</td> <td>↓</td> <td></td> <td></td> <td></td> </tr> <tr> <td>YES</td> <td>1</td> <td>→</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>NO</td> <td>2</td> <td>↓</td> <td></td> <td></td> <td></td> </tr> <tr> <td>YES</td> <td>1</td> <td>→</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>NO</td> <td>2</td> <td>↓</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | EVER   | 0 - 11 MONTHS AGO |   | 12+ MONTHS AGO |  | DON'T REMEMBER | YES | 1 | 2 | 3 | YES | 1 | → | 1 | 2 | 3 | NO | 2 | ↓ |  |  |  | YES | 1 | → | 1 | 2 | 3 | NO | 2 | ↓ |  |  |  | YES | 1 | → | 1 | 2 | 3 | NO | 2 | ↓ |  |  |  |  |
| EVER | 0 - 11 MONTHS AGO  |  |        | 12+ MONTHS AGO    |   | DON'T REMEMBER |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
|      | YES  | 1  | 2      | 3                 |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| YES  | 1  | →  | 1      | 2                 | 3 |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| NO   | 2  | ↓  |        |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| YES  | 1  | →  | 1      | 2                 | 3 |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| NO   | 2  | ↓  |        |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| YES  | 1  | →  | 1      | 2                 | 3 |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| NO   | 2  | ↓  |        |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |
| 1416 | CHECK 701 AND 702:<br><br>EVER MARRIED/EVER LIVED WITH A MAN <input type="checkbox"/>   NEVER MARRIED/NEVER LIVED WITH A MAN <input type="checkbox"/><br><br>a) From the time you were 15 years old has anyone other than (your/any) (husband/partner) hit you, slapped you, kicked you, or done anything else to hurt you physically?<br><br>b) From the time you were 15 years old has anyone hit you, slapped you, kicked you, or done anything else to hurt you physically?  | YES ..... 1<br>NO ..... 2<br>REFUSED TO ANSWER/<br>NO ANSWER ..... 3   | → 1419 |                   |   |                |  |                |     |   |   |   |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |     |   |   |   |   |   |    |   |   |  |  |  |  |

## SECTION 14: DOMESTIC VIOLENCE

| NO.   | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP                       |
|-------|--|--|----------------------------|
| 1417  | Who has hurt you in this way?<br><br>Anyone else?<br><br>RECORD ALL MENTIONED.   | MOTHER/STEP-MOTHER ..... A<br>FATHER/STEP-FATHER ..... B<br>SISTER/BROTHER ..... C<br>DAUGHTER/SON ..... D<br>OTHER RELATIVE ..... E<br>CURRENT BOYFRIEND ..... F<br>FORMER BOYFRIEND ..... G<br>MOTHER-IN-LAW ..... H<br>FATHER-IN-LAW ..... I<br>OTHER IN-LAW ..... J<br>TEACHER ..... K<br>EMPLOYER/SOMEONE AT WORK .. L<br>POLICE/SOLDIER ..... M<br><br>OTHER _____ X<br>(SPECIFY)  |                            |
| 1418  | In the last 12 months, how often has (this person/have these persons) physically hurt you: often, only sometimes, or not at all?   | OFTEN ..... 1<br>SOMETIMES ..... 2<br>NOT AT ALL ..... 3   |                            |
| 1419  | CHECK 201, 226, AND 230:<br><br>EVER BEEN PREGNANT <input type="checkbox"/><br>('YES' ON 201 OR 226 OR 230) ↓<br><br>NEVER BEEN PREGNANT <input type="checkbox"/>  |  | 1422                       |
| 1420  | Has any one ever hit, slapped, kicked, or done anything else to hurt you physically while you were pregnant?   | YES ..... 1<br>NO ..... 2  | → 1422                     |
| 1421  | Who has done any of these things to physically hurt you while you were pregnant?<br><br>Anyone else?<br><br>RECORD ALL MENTIONED.  | CURRENT HUSBAND/PARTNER ..... A<br>MOTHER/STEP-MOTHER ..... B<br>FATHER/STEP-FATHER ..... C<br>SISTER/BROTHER ..... D<br>DAUGHTER/SON ..... E<br>OTHER RELATIVE ..... F<br>FORMER HUSBAND/PARTNER ..... G<br>CURRENT BOYFRIEND ..... H<br>FORMER BOYFRIEND ..... I<br>MOTHER-IN-LAW ..... J<br>FATHER-IN-LAW ..... K<br>OTHER IN-LAW ..... L<br>TEACHER ..... M<br>EMPLOYER/SOMEONE AT WORK .. N<br>POLICE/SOLDIER ..... O<br><br>OTHER _____ X<br>(SPECIFY) |                            |
| 1422  | CHECK 701 AND 702:<br><br>EVER MARRIED/EVER <input type="checkbox"/> LIVED WITH A MAN ↓<br><br>NEVER MARRIED/NEVER <input type="checkbox"/> LIVED WITH A MAN   |  | 1422B                      |
| 1422A | Now I want to ask you about things that may have been done to you by someone other than (your/any) (husband/partner). At any time in your life, as a child or as an adult, has anyone ever forced you in any way to have sexual intercourse or perform any other sexual acts when you did not want to? | YES ..... 1<br>NO ..... 2<br>REFUSED TO ANSWER/<br><br>NO ANSWER ..... 3   | 1 → 1423<br>2 → 1424A<br>3 |
| 1422B | At any time in your life, as a child or as an adult, has anyone ever forced you in any way to have sexual intercourse or perform any other sexual acts when you did not want to?   | YES ..... 1<br>NO ..... 2<br>REFUSED TO ANSWER/<br><br>NO ANSWER ..... 3   | 1<br>2 → 1426<br>3         |

SECTION 14: DOMESTIC VIOLENCE

| NO.   | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP   |
|-------|--|--|--------|
| 1423  | Who was the person who was forcing you the very first time this happened?  | CURRENT HUSBAND/PARTNER ..... 01<br>FORMER HUSBAND/PARTNER ..... 02<br>CURRENT/FORMER BOYFRIEND .. 03<br>FATHER/STEP-FATHER ..... 04<br>BROTHER/STEP-BROTHER ..... 05<br>OTHER RELATIVE ..... 06<br>IN-LAW ..... 07<br>OWN FRIEND/ACQUAINTANCE ..... 08<br>FAMILY FRIEND ..... 09<br>TEACHER ..... 10<br>EMPLOYER/SOMEONE AT WORK .. 11<br>POLICE/SOLDIER ..... 12<br>PRIEST/RELIGIOUS LEADER ..... 13<br>STRANGER ..... 14<br><br>OTHER _____ 96<br>(SPECIFY) |        |
| 1424  | CHECK 701 AND 702:<br><br>EVER MARRIED/EVER LIVED WITH A MAN <input type="checkbox"/><br>NEVER MARRIED/NEVER LIVED WITH A MAN <input type="checkbox"/><br><br>a) In the last 12 months, has anyone other than (your/any) (husband/partner) physically forced you to have sexual intercourse when you did not want to?<br><br>b) In the last 12 months has anyone physically forced you to have sexual intercourse when you did not want to?          | YES ..... 1<br>NO ..... 2  | → 1425 |
| 1424A | CHECK 1405A (h-j) and 1415A(b)<br><br>AT LEAST ONE <input type="checkbox"/><br>'YES' ↓   | NOT A <input type="checkbox"/><br>SINGLE 'YES'   | → 1426 |
| 1425  | CHECK 701 AND 702:<br><br>EVER MARRIED/EVER LIVED WITH A MAN <input type="checkbox"/><br>NEVER MARRIED/NEVER LIVED WITH A MAN <input type="checkbox"/><br><br>a) How old were you the first time you were forced to have sexual intercourse or perform any other sexual acts by anyone, including (your/any) husband/partner?<br><br>b) How old were you the first time you were forced to have sexual intercourse or perform any other sexual acts? | AGE IN COMPLETED YEARS ..... <input type="checkbox"/> <input type="checkbox"/><br><br>DON'T KNOW ..... 98  |        |
| 1426  | CHECK 1405A (a-j), 1415A (a,b), 1416, 1420, 1422A, AND 1422B:<br><br>AT LEAST ONE <input type="checkbox"/><br>'YES' ↓  | NOT A SINGLE <input type="checkbox"/><br>'YES'   | → 1430 |
| 1427  | Thinking about what you yourself have experienced among the different things we have been talking about, have you ever tried to seek help?   | YES ..... 1<br>NO ..... 2  | → 1429 |

SECTION 14: DOMESTIC VIOLENCE

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP   |
|------|---|--|--|
| 1428 | From whom have you sought help?<br><br>Anyone else?<br><br>RECORD ALL MENTIONED.  | OWN FAMILY ..... A<br>HUSBAND'S/PARTNER'S FAMILY .. B<br>CURRENT/FORMER<br>HUSBAND/PARTNER ..... C<br>CURRENT/FORMER BOYFRIEND .. D<br>FRIEND ..... E<br>NEIGHBOR ..... F<br>RELIGIOUS LEADER ..... G<br>DOCTOR/MEDICAL PERSONNEL H<br>POLICE ..... I<br>LAWYER ..... J<br>SOCIAL SERVICE ORGANIZATION K<br><br>OTHER _____ X<br>(SPECIFY) |  |
| 1429 | Have you ever told any one about this?  | YES ..... 1<br>NO ..... 2  |  |
| 1430 | As far as you know, did your father ever beat your mother?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |  |
|      | THANK THE RESPONDENT FOR HER COOPERATION AND REASSURE HER ABOUT THE CONFIDENTIALITY OF HER ANSWERS. FILL OUT THE QUESTIONS BELOW WITH REFERENCE TO THE DOMESTIC VIOLENCE MODULE ONLY. |  |  |
| 1431 | DID YOU HAVE TO INTERRUPT THE INTERVIEW BECAUSE SOME ADULT WAS TRYING TO LISTEN, OR CAME INTO THE ROOM, OR INTERFERED IN ANY OTHER WAY?   | YES, ONCE .....<br>YES, MORE THAN ONCE .....<br>NO .....<br><br>HUSBAND ..... 1 2 3<br>OTHER MALE ADULT ..... 1 2 3<br>FEMALE ADULT ..... 1 2 3  |  |
| 1432 | INTERVIEWER'S COMMENTS/EXPLANATION FOR NOT COMPLETING THE DOMESTIC VIOLENCE MODULE.<br><br>_____<br><br>_____   |  |  |
| 1433 | RECORD THE TIME.  | HOURS .....<br><br>MINUTES .....   | <input type="text"/> <input type="text"/><br><input type="text"/> <input type="text"/> |

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT INTERVIEW:

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COMMENTS ON SPECIFIC QUESTIONS:

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ANY OTHER COMMENTS:

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SUPERVISOR'S OBSERVATIONS

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EDITOR'S OBSERVATIONS

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INSTRUCTIONS:

ONLY ONE CODE SHOULD APPEAR IN ANY BOX.  
COLUMN 1 REQUIRES A CODE IN EVERY MONTH.

CODES FOR EACH COLUMN:

COLUMN 1: BIRTHS, PREGNANCIES, CONTRACEPTIVE USE (2)

B BIRTHS  
P PREGNANCIES  
T TERMINATIONS

- 0 NO METHOD  
1 FEMALE STERILIZATION  
2 MALE STERILIZATION  
3 IUD  
4 INJECTABLES  
5 IMPLANTS  
6 PILL  
7 CONDOM  
8 FEMALE CONDOM  
9 EMERGENCY CONTRACEPTION  
J STANDARD DAYS METHOD  
K LACTATIONAL AMENORRHEA METHOD  
L RHYTHM METHOD

M WITHDRAWAL  
X OTHER MODERN METHOD  
Y OTHER TRADITIONAL METHOD

COLUMN 2: DISCONTINUATION OF CONTRACEPTIVE USE

- 0 INFREQUENT SEX/HUSBAND AWAY  
1 BECAME PREGNANT WHILE USING  
2 WANTED TO BECOME PREGNANT  
3 HUSBAND/PARTNER DISAPPROVED  
4 WANTED MORE EFFECTIVE METHOD  
5 SIDE EFFECTS/HEALTH CONCERNS  
6 LACK OF ACCESS/TOO FAR  
7 COSTS TOO MUCH  
8 INCONVENIENT TO USE  
F UP TO GOD/FATALISTIC  
A DIFFICULT TO GET PREGNANT/MENOPAUSAL  
D MARITAL DISSOLUTION/SEPARATION  
X OTHER

(SPECIFY)

Z DON'T KNOW

|    | COL. 1 | COL. 2 |
|----|--------|--------|
| 12 | DEC    | 01     |
| 11 | NOV    | 02     |
| 10 | OCT    | 03     |
| 2  | 09     | SEP 04 |
| 0  | 08     | AUG 05 |
| 1  | 07     | JUL 06 |
| 8  | 06     | JUN 07 |
|    | 05     | MAY 08 |
|    | 04     | APR 09 |
|    | 03     | MAR 10 |
|    | 02     | FEB 11 |
|    | 01     | JAN 12 |
| 12 | DEC    | 13     |
| 11 | NOV    | 14     |
| 10 | OCT    | 15     |
| 2  | 09     | SEP 16 |
| 0  | 08     | AUG 17 |
| 1  | 07     | JUL 18 |
| 7  | 06     | JUN 19 |
|    | 05     | MAY 20 |
|    | 04     | APR 21 |
|    | 03     | MAR 22 |
|    | 02     | FEB 23 |
|    | 01     | JAN 24 |
| 12 | DEC    | 25     |
| 11 | NOV    | 26     |
| 10 | OCT    | 27     |
| 2  | 09     | SEP 28 |
| 0  | 08     | AUG 29 |
| 1  | 07     | JUL 30 |
| 6  | 06     | JUN 31 |
|    | 05     | MAY 32 |
|    | 04     | APR 33 |
|    | 03     | MAR 34 |
|    | 02     | FEB 35 |
|    | 01     | JAN 36 |
| 12 | DEC    | 37     |
| 11 | NOV    | 38     |
| 10 | OCT    | 39     |
| 2  | 09     | SEP 40 |
| 0  | 08     | AUG 41 |
| 1  | 07     | JUL 42 |
| 5  | 06     | JUN 43 |
|    | 05     | MAY 44 |
|    | 04     | APR 45 |
|    | 03     | MAR 46 |
|    | 02     | FEB 47 |
|    | 01     | JAN 48 |
| 12 | DEC    | 49     |
| 11 | NOV    | 50     |
| 10 | OCT    | 51     |
| 2  | 09     | SEP 52 |
| 0  | 08     | AUG 53 |
| 1  | 07     | JUL 54 |
| 4  | 06     | JUN 55 |
|    | 05     | MAY 56 |
|    | 04     | APR 57 |
|    | 03     | MAR 58 |
|    | 02     | FEB 59 |
|    | 01     | JAN 60 |
| 12 | DEC    | 61     |
| 11 | NOV    | 62     |
| 10 | OCT    | 63     |
| 2  | 09     | SEP 64 |
| 0  | 08     | AUG 65 |
| 1  | 07     | JUL 66 |
| 3  | 06     | JUN 67 |
|    | 05     | MAY 68 |
|    | 04     | APR 69 |
|    | 03     | MAR 70 |
|    | 02     | FEB 71 |
|    | 01     | JAN 72 |

2018 ZAMBIA DEMOGRAPHIC AND HEALTH SURVEY  
 MAN'S QUESTIONNAIRE  
 ZAMBIA  
 MINISTRY OF HEALTH/CENTRAL STATISTICAL OFFICE

| IDENTIFICATION   |  |       |   |   |  |  |  |  |  |  |
|--|--|-------|---|---|--|--|--|--|--|--|
| PLACE NAME   | <hr/>  |       |   |   |  |  |  |  |  |  |
| NAME OF HOUSEHOLD HEAD   | <hr/>  |       |   |   |  |  |  |  |  |  |
| CLUSTER NUMBER   | .....  |       |   |   |  |  |  |  |  |  |
| HOUSEHOLD NUMBER   | .....  |       |   |   |  |  |  |  |  |  |
| NAME AND LINE NUMBER OF MAN  | <hr/>  |       |   |   |  |  |  |  |  |  |
| INTERVIEWER VISITS   |  |       |   |   |  |  |  |  |  |  |
|  | 1  | 2     | 3   | FINAL VISIT   |  |  |  |  |  |  |
| DATE   | <hr/>  | <hr/> | <hr/>   | DAY <table border="1" style="float: right; margin-left: 10px;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>                                  |  |  |  |  |  |  |
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| *RESULT CODES: 1 COMPLETED      4 REFUSED<br>2 NOT AT HOME      5 PARTLY COMPLETED      7 OTHER _____<br>3 POSTPONED      6 INCAPACITATED      SPECIFY _____ |  |       |   |   |  |  |  |  |  |  |
| LANGUAGE OF QUESTIONNAIRE**  | 0 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td></tr></table> | 1     | LANGUAGE OF INTERVIEW**   | <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table>  |  |  | NATIVE LANGUAGE OF RESPONDENT** <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table> TRANSLATOR USED (YES = 1, NO = 2) <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td></tr></table> |  |  |  |
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| LANGUAGE OF QUESTIONNAIRE**  | <b>ENGLISH</b>   |       | **LANGUAGE CODES:<br>01 ENGLISH      04 LOZI      07 NYANJA<br>02 BEMBA      05 LUNDA      08 TONGA<br>03 KAONDE      06 LUVALE |   |  |  |  |  |  |  |
| SUPERVISOR   |  |       |   |   |  |  |  |  |  |  |
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INTRODUCTION AND CONSENT

July 8 2018

Hello. My name is \_\_\_\_\_. I am working with the Ministry of Health in collaboration with Central Statistical Office (CSO). We are conducting a survey about health and other topics all over Zambia. The information we collect will help the government to plan health services. Your household was selected for the survey. The questions usually take about 20 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time.

In case you need more information about the survey, you may contact the person listed on the card that has already been given to your household.

Do you have any questions?

May I begin the interview now?

SIGNATURE OF INTERVIEWER \_\_\_\_\_ DATE \_\_\_\_\_

RESPONDENT AGREES  
TO BE INTERVIEWED . . . 1

RESPONDENT DOES NOT AGREE  
TO BE INTERVIEWED . . . 2 → END

SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |
|-----|--|---|---|
| 101 | RECORD THE TIME.   | HOURS .....<br><br>MINUTES .....  | <input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/>  |
| 102 | How long have you been living continuously in (NAME OF CURRENT CITY, TOWN OR VILLAGE OF RESIDENCE)?<br><br>IF LESS THAN ONE YEAR, RECORD '00' YEARS. | YEARS .....<br><br>ALWAYS .....<br>VISITOR .....  | <input type="checkbox"/> <input type="checkbox"/><br>95<br>96 → 105   |
| 103 | Just before you moved here, did you live in Lusaka, another city, in a town, or in a village?  | CITY .....<br>TOWN .....<br>RURAL AREA .....  | 1<br>2<br>3   |
| 104 | Before you moved here, which province did you live in?   | CENTRAL .....<br>COPPERBELT .....<br>EASTERN .....<br>LUAPULA .....<br>LUSAKA .....<br>MUCHINGA .....<br>NORTHERN .....<br>NORTHWESTERN .....<br>SOUTHERN .....<br>WESTERN .....<br>OUTSIDE OF ZAMBIA ..... | 01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>09<br>10<br>96  |
| 105 | In what month and year were you born?  | MONTH .....<br><br>DON'T KNOW MONTH .....<br><br>YEAR .....<br><br>DON'T KNOW YEAR .....  | <input type="checkbox"/> <input type="checkbox"/><br>98<br><br><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>9998 |
| 106 | How old were you at your last birthday?<br><br>COMPARE AND CORRECT 105 AND/OR 106 IF INCONSISTENT.   | AGE IN COMPLETED YEARS .....  | <input type="checkbox"/> <input type="checkbox"/>   |
| 107 | Have you ever attended school?   | YES .....<br>NO .....   | 1<br>2 → 111  |

SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|-------|
| 108 | What is the highest level of school you attended:<br>primary, secondary, or higher?  | PRIMARY ..... 1<br>SECONDARY ..... 2<br>HIGHER ..... 3   |       |
| 109 | What is the highest year you completed at that level?<br><br>IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.   | YEAR ..... <input type="text"/> <input type="text"/>   |       |
| 110 | CHECK 108:<br><br>PRIMARY OR <input type="checkbox"/><br>SECONDARY <br><br>HIGHER <input type="checkbox"/>                                      |  | → 113 |
| 111 | Now I would like you to read this sentence to me.<br><br>SHOW CARD TO RESPONDENT.<br><br>IF RESPONDENT CANNOT READ WHOLE SENTENCE,<br>PROBE: Can you read any part of the sentence to me?  | CANNOT READ AT ALL ..... 1<br>ABLE TO READ ONLY PART OF THE SENTENCE ..... 2<br>ABLE TO READ WHOLE SENTENCE ..... 3<br>NO CARD WITH REQUIRED LANGUAGE ..... 4<br>(SPECIFY LANGUAGE)<br>BLIND/VISUALLY IMPAIRED ..... 5 |       |
| 112 | CHECK 111:<br><br>CODE '2', '3'<br>OR '4'<br><input type="checkbox"/><br>CIRCLED <br><br>CODE '1' OR '5'<br><input type="checkbox"/><br>CIRCLED |  | → 114 |
| 113 | Do you read a newspaper or magazine almost every day, at least once a week, less than once a week or not at all?   | ALMOST EVERY DAY ..... 1<br>AT LEAST ONCE A WEEK ..... 2<br><br>LESS THAN ONCE A WEEK ..... 3<br>NOT AT ALL ..... 4  |       |
| 114 | Do you listen to the radio almost every day, at least once a week, less than once a week or not at all?  | ALMOST EVERY DAY ..... 1<br>AT LEAST ONCE A WEEK ..... 2<br><br>LESS THAN ONCE A WEEK ..... 3<br>NOT AT ALL ..... 4  |       |
| 115 | Do you watch television almost every day, at least once a week, less than once a week or not at all?   | ALMOST EVERY DAY ..... 1<br>AT LEAST ONCE A WEEK ..... 2<br><br>LESS THAN ONCE A WEEK ..... 3<br>NOT AT ALL ..... 4  |       |
| 116 | Do you own a mobile telephone?   | YES ..... 1<br>NO ..... 2  | → 118 |
| 117 | Do you use your mobile phone for any financial transactions?   | YES ..... 1<br>NO ..... 2  |       |
| 118 | Do you have an account in a bank or other financial institution that you yourself use?   | YES ..... 1<br>NO ..... 2  |       |
| 119 | Have you ever used the internet?   | YES ..... 1<br>NO ..... 2  | → 122 |
| 120 | In the last 12 months, have you used the internet?<br><br>IF NECESSARY, PROBE FOR USE FROM ANY LOCATION, WITH ANY DEVICE.  | YES ..... 1<br>NO ..... 2  | → 122 |

SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |  |  |
|-----|--|---|-------|--|--|
| 121 | During the last one month, how often did you use the internet: almost every day, at least once a week, less than once a week, or not at all? | ALMOST EVERY DAY ..... 1<br>AT LEAST ONCE A WEEK ..... 2<br>LESS THAN ONCE A WEEK ..... 3<br>NOT AT ALL ..... 4 |       |  |  |
| 122 | What is your religion?   | CATHOLIC ..... 1<br>PROTESTANT ..... 2<br>MUSLIM ..... 3<br><br>OTHER _____ 6<br>(SPECIFY)                      |       |  |  |
| 124 | In the last 12 months, on how many separate occasions have you traveled away from your home community and slept away?                        | NUMBER OF TIMES ..... <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr></table>      |       |  |  |
|     |  |   |       |  |  |
|     |  | NONE ..... 00   | → 201 |  |  |
| 125 | In the last 12 months, have you been away from your home community for more than one month at a time?  | YES ..... 1<br><br>NO ..... 2   |       |  |  |

SECTION 2. REPRODUCTION

July 8 2018

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP   |  |  |  |  |  |  |  |  |
|------|---|---|--|--|--|--|--|--|--|--|--|
| 201  | Now I would like to ask about any children you have had during your life. I am interested in all of the children that are biologically yours, even if they are not legally yours or do not have your last name. Have you ever fathered any children with any woman? | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8             | → 206  |  |  |  |  |  |  |  |  |
| 202  | Do you have any sons or daughters that you have fathered who are now living with you?   | YES ..... 1<br>NO ..... 2                                   | → 204  |  |  |  |  |  |  |  |  |
| 203  | a) How many sons live with you?<br><br>b) And how many daughters live with you?<br><br>IF NONE, RECORD '00'.  | a) SONS AT HOME .....<br><br>b) DAUGHTERS AT HOME .....     | <table border="1" style="float: right; margin-left: 10px;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>          |  |  |  |  |  |  |  |  |
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| 204  | Do you have any sons or daughters that you have fathered who are alive but do not live with you?  | YES ..... 1<br>NO ..... 2                                   | → 206  |  |  |  |  |  |  |  |  |
| 205  | a) How many sons are alive but do not live with you?<br><br>b) And how many daughters are alive but do not live with you?<br><br>IF NONE, RECORD '00'.  | a) SONS ELSEWHERE .....<br><br>b) DAUGHTERS ELSEWHERE ..... | <table border="1" style="float: right; margin-left: 10px;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>          |  |  |  |  |  |  |  |  |
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| 206  | Have you ever fathered a son or a daughter who was born alive but later died?<br><br>IF NO, PROBE: Any baby who cried, who made any movement, sound, or effort to breathe, or who showed any other signs of life even if for a very short time?                     | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8             | → 208  |  |  |  |  |  |  |  |  |
| 207  | a) How many boys have died?<br><br>b) And how many girls have died?<br><br>IF NONE, RECORD '00'.  | a) BOYS DEAD .....<br><br>b) GIRLS DEAD .....               | <table border="1" style="float: right; margin-left: 10px;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>          |  |  |  |  |  |  |  |  |
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| 208  | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'.  | TOTAL CHILDREN .....  | <table border="1" style="float: right; margin-left: 10px;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>          |  |  |  |  |  |  |  |  |
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| 209  | CHECK 208:<br><br>HAS HAD MORE THAN ONE CHILD ↓<br><br>HAS NOT HAD ANY CHILDREN   | HAS HAD ONLY ONE CHILD<br>HAS NOT HAD ANY CHILDREN          | → 211<br>→ 301   |  |  |  |  |  |  |  |  |
| 210  | Did all of the children you have fathered have the same biological mother?  | YES ..... 1<br>NO ..... 2                                   | → 211  |  |  |  |  |  |  |  |  |
| 210A | In all, how many women have you fathered children with?   | NUMBER OF WOMEN .....                                       | <table border="1" style="float: right; margin-left: 10px;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>          |  |  |  |  |  |  |  |  |
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| 211  | CHECK 208:<br><br>HAS HAD MORE THAN ONE CHILD ↓   HAS HAD ONLY ONE CHILD ↓<br><br>a) How old were you when your first child was born? b) How old were you when your child was born?   | AGE IN YEARS .....  | <table border="1" style="float: right; margin-left: 10px;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>_____ |  |  |  |  |  |  |  |  |
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SECTION 2. REPRODUCTION

July 8 2018

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|---|
| 212 | CHECK 203 AND 205:<br><br>AT LEAST ONE <input type="checkbox"/><br>LIVING CHILD   | NO LIVING <input type="checkbox"/><br>CHILDREN   | → 301   |
| 213 | CHECK 203 AND 205:<br><br>MORE THAN ONE <input type="checkbox"/><br>LIVING CHILD <br><br>a) How old is your<br>youngest child?<br><br>ONLY ONE <input type="checkbox"/><br>LIVING CHILD <br><br>b) How old is your child?                      | AGE IN YEARS .....   |   |
| 214 | CHECK 213:<br><br>(YOUNGEST) CHILD IS <input type="checkbox"/><br>AGE 0-2 YEARS <br><br>(YOUNGEST) CHILD IS <input type="checkbox"/><br>AGE 3 YEARS OR OLDER  |  | → 301   |
| 215 | CHECK 203 AND 205:<br><br>MORE THAN ONE <input type="checkbox"/><br>LIVING CHILD <br><br>a) What is the name of<br>your youngest child?<br><br>ONLY ONE <input type="checkbox"/><br>LIVING CHILD <br><br>b) What is the name of<br>your child? | (NAME OF (YOUNGEST) CHILD)   |   |
| 216 | When (NAME)'s mother was pregnant with (NAME), did<br>she have any antenatal check-ups?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | → 218  |
| 217 | Were you ever present during any of those antenatal<br>check-ups?  | PRESENT ..... 1<br>NOT PRESENT ..... 2   |   |
| 218 | Was (NAME) born in a hospital or health facility?  | HOSPITAL/HEALTH FACILITY ..... 1<br><br>OTHER ..... 96<br>(SPECIFY)  |   |
| 219 | When a child has diarrhea, how much should he or she<br>be given to drink: more than usual, about the same as<br>usual, less than usual, or nothing to drink at all?   | MORE THAN USUAL ..... 1<br>ABOUT THE SAME ..... 2<br>LESS THAN USUAL ..... 3<br>NOTHING TO DRINK ..... 4<br><br>DON'T KNOW ..... 8 |   |

SECTION 3. CONTRACEPTION

July 8 2018

|  |  |           |        |
|--|--|-----------|--------|
| 301  | Now I would like to talk about family planning - the various ways or methods that a couple can use to delay or avoid a pregnancy. Have you ever heard of (METHOD)?   |           |        |
| PROCEED DOWN COLUMN 301, READING THE NAME AND DESCRIPTION OF EACH METHOD. CIRCLE CODE 1 IF METHOD IS RECOGNIZED, AND CODE 2 IF NOT RECOGNIZED. |  |           |        |
| 01   | Female Sterilization.<br>PROBE: Women can have an operation to avoid having any more children.   | YES ..... | 1<br>2 |
| 02   | Male Sterilization.<br>PROBE: Men can have an operation to avoid having any more children.   | YES ..... | 1<br>2 |
| 03   | IUD.<br>PROBE: Women can have a loop or coil placed inside them by a doctor, nurse, or clinic officer which can prevent pregnancy for one or more years.   | YES ..... | 1<br>2 |
| 04   | Injectables.<br>PROBE: Women can have an injection by a doctor, nurse, or clinic officer that stops them from becoming pregnant for one or more months.  | YES ..... | 1<br>2 |
| 05   | Implants.<br>PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years.  | YES ..... | 1<br>2 |
| 06   | Pill.<br>PROBE: Women can take a pill every day to avoid becoming pregnant.  | YES ..... | 1<br>2 |
| 07   | Male Condom.<br>PROBE: Men can put a rubber sheath on their penis before sexual intercourse.   | YES ..... | 1<br>2 |
| 08   | Female Condom.<br>PROBE: Women can place a sheath in their vagina before sexual intercourse.   | YES ..... | 1<br>2 |
| 09   | Emergency Contraception.<br>PROBE: As an emergency measure, within five days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy.                                      | YES ..... | 1<br>2 |
| 10   | Standard Days Method (Cycle Beads).<br>PROBE: A woman uses a string of colored beads to know the days she can get pregnant. On the days she can get pregnant, she uses a condom or does not have sexual intercourse. | YES ..... | 1<br>2 |

|    |  |  |
|----|--|--|
| 11 | Lactational Amenorrhea Method (LAM).<br>PROBE: Up to six months after childbirth, before the menstrual period has returned, women use a method requiring frequent breastfeeding day and night. | YES ..... 1<br>NO ..... 2  |
| 12 | Rhythm Method.<br>PROBE: To avoid pregnancy, women do not have sexual intercourse on the days of the month they think they can get pregnant.   | YES ..... 1<br>NO ..... 2  |
| 13 | Withdrawal.<br>PROBE: Men can be careful and pull out before climax.   | YES ..... 1<br>NO ..... 2  |
| 14 | Have you heard of any other ways or methods that women or men can use to avoid pregnancy?  | <p>YES, MODERN METHOD<br/>_____ (SPECIFY) A</p> <p>YES, TRADITIONAL METHOD<br/>_____ (SPECIFY) B</p> <p>NO ..... Y</p> |

SECTION 3. CONTRACEPTION

July 8 2018

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|------|--|--|-------|
| 302  | In the last few months have you:<br><br>a) Heard about family planning on the radio?<br>b) Seen anything about family planning on the television?<br>c) Read about family planning in a newspaper or magazine?<br>d) Received a voice or text message about family planning on a mobile phone? | YES .....<br><br>a) RADIO ..... 1 2<br>b) TELEVISION ..... 1 2<br>c) NEWSPAPER OR MAGAZINE ..... 1 2<br>d) MOBILE PHONE ..... 1 2  |       |
| 303  | In the last few months, have you discussed family planning with a health worker or health professional?  | YES ..... 1<br><br>NO ..... 2  |       |
| 304  | Now I would like to ask you about a woman's risk of pregnancy. From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant if she has sexual relations?   | YES ..... 1<br>NO ..... 2<br><br>DON'T KNOW ..... 8  | → 306 |
| 305  | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods?   | JUST BEFORE HER PERIOD BEGINS ..... 1<br>DURING HER PERIOD ..... 2<br>RIGHT AFTER HER PERIOD HAS ENDED ..... 3<br>HALFWAY BETWEEN TWO PERIOD ..... 4<br><br>OTHER ..... 6<br>(SPECIFY)<br>DON'T KNOW ..... 8 |       |
| 306  | After the birth of a child, can a woman become pregnant before her menstrual period has returned?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |
| 306A | Do you think that a woman who is breastfeeding her baby can become pregnant?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |
| 307  | I will now read you some statements about contraception. Please tell me if you agree or disagree with each one.<br><br>a) Contraception is a woman's concern and a man should not have to worry about it.<br>b) Women who use contraception may become promiscuous.                            | DIS-<br>AGREE AGREE DK<br><br>a) CONTRACEPTION WOMAN'S CONCERN 1 2 8<br>b) WOMEN MAY BECOME PROMISCUOUS 1 2 8  |       |

#### SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

July 8 2018

**SECTION 4. MARRIAGE AND SEXUAL ACTIVITY**

July 8 2018

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP   |
|------|--|---|--|
| 411  | <p>CHECK 405 AND 410:</p> <p>BOTH ARE <input type="checkbox"/> CODE '2' ↓</p> <p>a) In what month and year did you start living with your (wife/partner)?</p> <p>OTHER <input type="checkbox"/> ↓</p> <p>b) Now I would like to ask about your first (wife/partner). In what month and year did you start living with her?</p>   | <p>MONTH ..... <input type="checkbox"/> <input type="checkbox"/></p> <p>DON'T KNOW MONTH ..... 98</p> <p>YEAR ..... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> → 413</p> <p>DON'T KNOW YEAR ..... 9998</p> |  |
| 412  | How old were you when you first started living with her?   | AGE ..... <input type="checkbox"/> <input type="checkbox"/>   |  |
| 413  | <b>CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.</b>   |   |  |
| 414  | I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question. How old were you when you had sexual intercourse for the very first time? | <p>NEVER HAD SEXUAL<br/>INTERCOURSE ..... 00</p> <p>AGE IN YEARS ..... <input type="checkbox"/> <input type="checkbox"/> → 414C</p>   |  |
| 414A | CHECK 106: AGE<br><br>AGE 15-24 <input type="checkbox"/> ↓   | AGE 25-59 <input type="checkbox"/> → 501  |  |
| 414B | Do you intend to wait until you get married to have sexual intercourse for the first time?   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW/UNSURE ..... 8</p>   | → 501  |
| 414C | CHECK 106: AGE<br><br>AGE 15-24 <input type="checkbox"/> ↓   | AGE 25-59 <input type="checkbox"/> → 415  |  |
| 414D | The first time you had sexual intercourse, was a condom used?  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW/UNSURE ..... 8</p>   |  |
| 415  | <p>I would like to ask you about your recent sexual activity. When was the last time you had sexual intercourse?</p> <p>IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.</p>   | <p>DAYS AGO ..... 1</p> <p>WEEKS AGO ..... 2</p> <p>MONTHS AGO ..... 3</p> <p>YEARS AGO ..... 4</p>   | <input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> → 417<br><input type="checkbox"/> <input type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> → 427 |

## SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

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|     |   | LAST SEXUAL PARTNER  | SECOND-TO-LAST SEXUAL PARTNER  | THIRD-TO-LAST SEXUAL PARTNER   |
|-----|---|--|--|--|
| 416 | When was the last time you had sexual intercourse with this person?   |  | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3   | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3   |
| 417 | The last time you had sexual intercourse with this person, was a condom used?   | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  |
|     |   | (SKIP TO 419) ←  | (SKIP TO 419) ←  | (SKIP TO 419) ←  |
| 418 | Was a condom used every time you had sexual intercourse with this person in the last 12 months?   | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  |
| 419 | What was your relationship to this person with whom you had sexual intercourse?<br><br>IF GIRLFRIEND: Were you living together as if married?<br><br>IF YES, RECORD '2'.<br>IF NO, RECORD '3'.                | WIFE ..... 1<br>LIVE-IN PARTNER ..... 2<br>GIRLFRIEND NOT<br>LIVING WITH<br>RESPONDENT ..... 3<br>CASUAL<br>ACQUAINTANCE .. 4<br>CLIENT/SEX WORKER.. 5<br>OTHER _____ 6<br>(SPECIFY) | WIFE ..... 1<br>LIVE-IN PARTNER ..... 2<br>GIRLFRIEND NOT<br>LIVING WITH<br>RESPONDENT ..... 3<br>CASUAL<br>ACQUAINTANCE .. 4<br>CLIENT/SEX WORKER.. 5<br>OTHER _____ 6<br>(SPECIFY) | WIFE ..... 1<br>LIVE-IN PARTNER ..... 2<br>GIRLFRIEND NOT<br>LIVING WITH<br>RESPONDENT ..... 3<br>CASUAL<br>ACQUAINTANCE .. 4<br>CLIENT/SEX WORKER.. 5<br>OTHER _____ 6<br>(SPECIFY) |
| 420 | How long ago did you first have sexual intercourse with this person?  | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3<br>YEARS<br>AGO ... 4   | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3<br>YEARS<br>AGO ... 4   | DAYS<br>AGO ... 1<br>WEEKS<br>AGO ... 2<br>MONTHS<br>AGO ... 3<br>YEARS<br>AGO ... 4   |
| 421 | How many times during the last 12 months did you have sexual intercourse with this person?<br><br>IF NON-NUMERIC ANSWER,<br>PROBE TO GET AN<br>ESTIMATE. IF NUMBER OF<br>TIMES IS 95 OR MORE,<br>RECORD '95'. | NUMBER OF<br>TIMES ..... _____   | NUMBER OF<br>TIMES ..... _____   | NUMBER OF<br>TIMES ..... _____   |
| 422 | How old is this person?   | AGE OF<br>PARTNER _____<br><br>DON'T KNOW ..... 98   | AGE OF<br>PARTNER _____<br><br>DON'T KNOW ..... 98   | AGE OF<br>PARTNER _____<br><br>DON'T KNOW ..... 98   |

## SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

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|      |   | LAST SEXUAL PARTNER   | SECOND-TO-LAST SEXUAL PARTNER   | THIRD-TO-LAST SEXUAL PARTNER  |  |  |
|------|---|---|---|---|--|--|
| 422A | The last time you had sexual intercourse with this person did you or this person drink alcohol?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 423) ←  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 423) ←  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 424) ←  |  |  |
| 422B | Were you or your partner drunk at that time?<br><br>IF YES: Who was drunk?  | RESPONDENT ONLY .. 1<br>PARTNER ONLY..... 2<br>BOTH, RESPONDENT<br>AND PARTNER ..... 3<br>NEITHER ..... 4 | RESPONDENT ONLY .. 1<br>PARTNER ONLY..... 2<br>BOTH, RESPONDENT<br>AND PARTNER ..... 3<br>NEITHER ..... 4 | RESPONDENT ONLY .. 1<br>PARTNER ONLY..... 2<br>BOTH, RESPONDENT<br>AND PARTNER ..... 3<br>NEITHER ..... 4   |  |  |
| 423  | Apart from this person, have you had sexual intercourse with any other person in the last 12 months?  | YES ..... 1<br>(GO BACK TO 416<br>IN NEXT COLUMN) ←<br><br>NO ..... 2<br>(SKIP TO 425) ←                  | YES ..... 1<br>(GO BACK TO 416<br>IN NEXT COLUMN) ←<br><br>NO ..... 2<br>(SKIP TO 425) ←                  |   |  |  |
| 424  | In total, with how many different people have you had sexual intercourse in the last 12 months?<br><br>IF NON-NUMERIC ANSWER,<br>PROBE TO GET AN<br>ESTIMATE. IF NUMBER OF<br>PARTNERS IS 95 OR MORE,<br>RECORD '95'. |   |   | NUMBER OF<br>PARTNERS<br><br>LAST 12<br>MONTHS .. <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr></table><br><br>DON'T KNOW ..... 98 |  |  |
|      |   |   |   |   |  |  |

**SECTION 4. MARRIAGE AND SEXUAL ACTIVITY**

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| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP           |
|-----|--|---|----------------|
| 425 | CHECK 419 (ALL COLUMNS):<br><br>AT LEAST ONE PARTNER <input type="checkbox"/> IS A SEX WORKER                       | NO PARTNERS <input type="checkbox"/><br>ARE SEX WORKERS   | → 427          |
| 426 | CHECK 419 AND 417 (ALL COLUMNS):<br><br>CONDOM USED WITH <input type="checkbox"/> EVERY SEX WORKER   | OTHER <input type="checkbox"/>  | → 430<br>→ 431 |
| 427 | In the last 12 months, did you pay anyone in exchange for having sexual intercourse?   | YES ..... 1<br>NO ..... 2   | → 429          |
| 428 | Have you ever paid anyone in exchange for having sexual intercourse?   | YES ..... 1<br>NO ..... 2   | → 431          |
| 429 | The last time you paid someone in exchange for having sexual intercourse, was a condom used?   | YES ..... 1<br>NO ..... 2   | → 431          |
| 430 | Was a condom used during sexual intercourse every time you paid someone in exchange for having sexual intercourse in the last 12 months?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |                |
| 431 | In the past 12 months have you given any gifts or other goods in order to have sex or to become sexually involved with anyone?   | YES ..... 1<br>NO ..... 2   | → 433          |
| 432 | Have you ever given any gifts or other goods in order to have sex or to become sexually involved with anyone?  | YES ..... 1<br>NO ..... 2   |                |
| 433 | In total, with how many different people have you had sexual intercourse in your lifetime?<br><br>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'. | NUMBER OF PARTNERS IN LIFETIME ..... <input type="checkbox"/> <input type="checkbox"/><br><br>DON'T KNOW ..... 98   |                |
| 434 | CHECK 417: MOST RECENT PARTNER (FIRST COLUMN)<br><br>CONDOM USED    | NOT ASKED <input type="checkbox"/><br><br>NO CONDOM USED <input type="checkbox"/>   | → 438<br>→ 438 |
| 435 | You told me that a condom was used the last time you had sex. What is the brand name of the condom used at that time?<br><br>IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE.                             | MAXIMUM CLASSIC ..... 01<br>MAXIMUM SCENTED ..... 02<br>ROUGH RIDER ..... 03<br>DUREX ..... 04<br>REALITY ..... 05<br>PUBLIC SECTOR:<br>UNBRANDED (WHITE COLOUR FOIL) ..... 06<br>BRANDED ..... 07<br>OTHER ..... 96<br>(SPECIFY)<br>DON'T KNOW ..... 98<br>DON'T KNOW ..... 98 |                |

**SECTION 4. MARRIAGE AND SEXUAL ACTIVITY**

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| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP           |
|-----|--|---|----------------|
| 436 | <p>From where did you obtain the condom the last time?</p> <p>PROBE TO IDENTIFY TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p style="text-align: center;">(NAME OF PLACE)</p> | <p><b>PUBLIC SECTOR</b></p> <p>GOVERNMENT HOSPITAL ..... 11<br/>         GOVERNMENT HEALTH CENTER ..... 12<br/>         GOVERNMENT HEALTH POST ..... 12<br/>         MOBILE CLINIC/HOSPITAL ..... 14<br/>         COMMUNITY BASED<br/>         AGENT/FIELDWORKER ..... 15<br/>         OTHER PUBLIC SECTOR</p> <p style="text-align: right;">16<br/>         (SPECIFY)</p> <p><b>PRIVATE MEDICAL SECTOR</b></p> <p>PRIVATE HOSPITAL/CLINIC ..... 21<br/>         MISSION HOSPITAL/CLINIC ..... 22<br/>         PHARMACY ..... 23<br/>         PRIVATE DOCTOR ..... 24<br/>         MOBILE HOSPITAL ..... 25<br/>         COMMUNITY BASED<br/>         AGENT/FIELDWORKER ..... 26<br/>         OTHER PRIVATE MEDICAL SECTOR</p> <p style="text-align: right;">27<br/>         (SPECIFY)</p> <p><b>OTHER SOURCE</b></p> <p>SHOP ..... 31<br/>         CHURCH ..... 32<br/>         FRIEND/RELATIVE ..... 33</p> <p>OTHER ..... 96<br/>         (SPECIFY)</p> <p>DON'T KNOW ..... 98</p> |                |
| 437 | The last time you had sex did you or your partner use any method other than a condom to avoid or prevent a pregnancy?  | <p>YES ..... 1<br/>         NO ..... 2<br/>         DON'T KNOW ..... 8</p>  | → 439<br>→ 440 |
| 438 | The last time you had sex did you or your partner use any method to avoid or prevent a pregnancy?  | <p>YES ..... 1<br/>         NO ..... 2<br/>         DON'T KNOW ..... 8</p>  | → 440          |
| 439 | <p>What method did you or your partner use?</p> <p>PROBE: Did you or your partner use any other method to prevent pregnancy?</p> <p>RECORD ALL MENTIONED.</p>  | <p>FEMALE STERILIZATION ..... A<br/>         MALE STERILIZATION ..... B<br/>         IUD ..... C<br/>         INJECTABLES ..... D</p> <p>IMPLANTS ..... E<br/>         PILL ..... F<br/>         CONDOM ..... G<br/>         FEMALE CONDOM ..... H<br/>         EMERGENCY CONTRACEPTION ..... I<br/>         STANDARD DAYS METHOD ..... J<br/>         LACTATIONAL AMENORRHEA METHOD ..... K<br/>         RHYTHM METHOD ..... L<br/>         WITHDRAWAL ..... M<br/>         OTHER MODERN METHOD ..... X<br/>         OTHER TRADITIONAL METHOD ..... Y</p>  | → 501          |
| 440 | Do you know of a place where you can obtain a method of family planning?   | <p>YES ..... 1<br/>         NO ..... 2</p>  |                |

SECTION 5. FERTILITY PREFERENCES

July 8 2018

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |  |  |  |  |  |  |  |       |
|-----|---|---|-------|--|--|--|--|--|--|--|-------|
| 501 | CHECK 401:<br>CURRENTLY MARRIED OR<br>LIVING WITH A PARTNER <input type="checkbox"/> ↓<br>NOT CURRENTLY MARRIED <input type="checkbox"/><br>AND NOT LIVING<br>WITH A PARTNER  |   | 514 → |  |  |  |  |  |  |  |       |
| 502 | CHECK 439:<br>MAN NOT<br>STERILIZED<br>OR NOT ASKED <input type="checkbox"/> ↓<br>MAN <input type="checkbox"/><br>STERILIZED  |   | 514 → |  |  |  |  |  |  |  |       |
| 503 | CHECK 407:<br>ONE WIFE/<br>PARTNER <input type="checkbox"/> ↓<br>MORE THAN <input type="checkbox"/><br>ONE WIFE/<br>PARTNER   |   | 509 → |  |  |  |  |  |  |  |       |
| 504 | Is your (wife/partner) currently pregnant?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | 507 → |  |  |  |  |  |  |  |       |
| 505 | Now I have some questions about the future. After the child you and your (wife/partner) are expecting now, would you like to have another child, or would you prefer not to have any more children?   | HAVE ANOTHER CHILD ..... 1<br>NO MORE ..... 2<br>UNDECIDED/DON'T KNOW ..... 8   | 514 → |  |  |  |  |  |  |  |       |
| 506 | After the birth of the child you are expecting now, how long would you like to wait before the birth of another child?  | MONTHS ..... 1 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>YEARS ..... 2 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>SOON/NOW ..... 993<br>OTHER ..... 996<br>DON'T KNOW ..... 998  |       |  |  |  |  |  |  |  | 514 → |
|     |   |   |       |  |  |  |  |  |  |  |       |
|     |   |   |       |  |  |  |  |  |  |  |       |
|     |   |   |       |  |  |  |  |  |  |  |       |
|     |   |   |       |  |  |  |  |  |  |  |       |
| 507 | CHECK 208:<br>HAS FATHERED <input type="checkbox"/> ↓<br>a) Now I have some<br>questions about the<br>future. Would you like<br>to have another child,<br>or would you prefer not<br>to have any more<br>children?<br><br>HAS NOT<br>FATHERED <input type="checkbox"/> ↓<br>b) Now I have some<br>questions about the<br>future. Would you like<br>to have a child, or<br>would you prefer not to<br>have any children? | HAVE (A/ANOTHER) CHILD ..... 1<br>NO MORE/NONE ..... 2<br>SAYS COUPLE CAN'T GET PREGNANT ..... 3<br>WIFE/PARTNER STERILIZED ..... 4<br>UNDECIDED/DON'T KNOW ..... 8   | 514 → |  |  |  |  |  |  |  |       |
| 508 | CHECK 208:<br>HAS FATHERED <input type="checkbox"/> ↓<br>a) How long would you<br>like to wait from now<br>before the birth of<br>another child?<br><br>HAS NOT<br>FATHERED <input type="checkbox"/> ↓<br>b) How long would you<br>like to wait from now<br>before the birth of a<br>child?   | MONTHS ..... 1 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>YEARS ..... 2 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>SOON/NOW ..... 993<br>SAYS COUPLE<br>CAN'T GET PREGNANT ..... 994<br>OTHER ..... 996<br>DON'T KNOW ..... 998 |       |  |  |  |  |  |  |  | 514 → |
|     |   |   |       |  |  |  |  |  |  |  |       |
|     |   |   |       |  |  |  |  |  |  |  |       |
|     |   |   |       |  |  |  |  |  |  |  |       |
|     |   |   |       |  |  |  |  |  |  |  |       |
| 509 | Are any of your (wives/partners) currently pregnant?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | 512 → |  |  |  |  |  |  |  |       |

**SECTION 5. FERTILITY PREFERENCES**

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| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |
|-----|--|---|-------|
| 510 | Now I have some questions about the future. After the (child/children) you and your (wives/partners) are expecting now, would you like to have another child, or would you prefer not to have any more children?   | HAVE ANOTHER CHILD ..... 1<br>NO MORE ..... 2<br>UNDECIDED/DON'T KNOW ..... 8   | → 514 |
| 511 | After the birth of the child you are expecting now, how long would you like to wait before the birth of another child?   | MONTHS ..... 1<br>YEARS ..... 2<br>SOON/NOW ..... 993<br>OTHER _____ (SPECIFY)<br>DON'T KNOW ..... 998  | → 514 |
| 512 | CHECK 208:<br><br>HAS FATHERED CHILDREN <input type="checkbox"/> ↓<br>a) Now I have some questions about the future. Would you like to have another child, or would you prefer not to have any more children?<br><br>HAS NOT FATHERED CHILDREN <input type="checkbox"/> ↓<br>b) Now I have some questions about the future. Would you like to have a child, or would you prefer not to have any children?  | HAVE (A/ANOTHER) CHILD ..... 1<br>NO MORE/NONE ..... 2<br>SAYS COUPLE CAN'T GET PREGNANT ..... 3<br>(WIFE/WIVES/PARTNER(S)) STERILIZED ..... 4<br>UNDECIDED/DON'T KNOW ..... 8                  | → 514 |
| 513 | CHECK 208:<br><br>HAS FATHERED CHILDREN <input type="checkbox"/> ↓<br>a) How long would you like to wait from now before the birth of another child?<br><br>HAS NOT FATHERED CHILDREN <input type="checkbox"/> ↓<br>b) How long would you like to wait from now before the birth of a child?   | MONTHS ..... 1<br>YEARS ..... 2<br>SOON/NOW ..... 993<br>SAYS COUPLE CAN'T GET PREGNANT ..... 994<br>OTHER _____ (SPECIFY)<br>DON'T KNOW ..... 998  |       |
| 514 | CHECK 203 AND 205:<br><br>HAS LIVING CHILDREN <input type="checkbox"/> ↓<br>a) If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be?<br><br>NO LIVING CHILDREN <input type="checkbox"/> ↓<br>b) If you could choose exactly the number of children to have in your whole life, how many would that be?<br><br>PROBE FOR A NUMERIC RESPONSE. | NONE ..... 00<br><br>NUMBER .....<br><br>OTHER _____ (SPECIFY)  | → 601 |
| 515 | How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it's a boy or a girl?  | BOYS      GIRLS      EITHER<br>NUMBER ... <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>OTHER _____ (SPECIFY) | 96    |

SECTION 6. EMPLOYMENT AND GENDER ROLES

July 8 2018

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |
|------|--|---|-------|
| 601  | Have you done any work in the last seven days?   | YES ..... 1<br>NO ..... 2   | → 604 |
| 602  | Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, or any other such reason?       | YES ..... 1<br>NO ..... 2   | → 604 |
| 603  | Have you done any work in the last 12 months?  | YES ..... 1<br>NO ..... 2   | → 607 |
| 604  | What is your occupation, that is, what kind of work do you mainly do?  | _____   | _____ |
| 605  | Do you usually work throughout the year, or do you work seasonally, or only once in a while?   | THROUGHOUT THE YEAR ..... 1<br>SEASONALLY/PART OF THE YEAR ..... 2<br>ONCE IN A WHILE ..... 3                                   |       |
| 606  | Are you paid in cash or kind for this work or are you not paid at all?   | CASH ONLY ..... 1<br>CASH AND KIND ..... 2<br>IN KIND ONLY ..... 3<br>NOT PAID ..... 4  |       |
| 607  | CHECK 401:<br><br>CURRENTLY MARRIED OR LIVING WITH A PARTNER <input type="checkbox"/><br>↓<br>NOT CURRENTLY MARRIED AND NOT LIVING WITH A PARTNER <input type="checkbox"/> |   | → 612 |
| 608  | CHECK 606:<br><br>CODE '1' OR '2' <input type="checkbox"/><br>CIRCLED ↓<br>OTHER <input type="checkbox"/>  |   | → 610 |
| 609  | Who usually decides how the money you earn will be used: you, your (wife/partner), or you and your (wife/partner) jointly?   | RESPONDENT ..... 1<br>WIFE/PARTNER ..... 2<br>RESPONDENT AND WIFE/PARTNER JOINTLY .. 3<br><br>OTHER _____ 6<br>(SPECIFY)        |       |
| 610  | Who usually makes decisions about health care for yourself: you, your (wife/partner), you and your (wife/partner) jointly, or someone else?                                | RESPONDENT ..... 1<br>WIFE/PARTNER ..... 2<br>RESPONDENT AND WIFE/PARTNER JOINTLY .. 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6 |       |
| 611  | Who usually makes decisions about making major household purchases?  | RESPONDENT ..... 1<br>WIFE/PARTNER ..... 2<br>RESPONDENT AND WIFE/PARTNER JOINTLY .. 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6 |       |
| 611A | Who usually makes decisions about making purchases for daily household needs?  | RESPONDENT ..... 1<br>WIFE/PARTNER ..... 2<br>RESPONDENT AND WIFE/PARTNER JOINTLY .. 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6 |       |

**SECTION 6. EMPLOYMENT AND GENDER ROLES**

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| NO.                        | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
|----------------------------|--|---|-------|-----|----|----|-------------------|---|---|---|----------------------------|---|---|---|-----------------|---|---|---|----------------------|---|---|---|---------------------|---|---|---|-------------------------|---|---|---|--|
| 612                        | Do you own this or any other house either alone or jointly with someone else?  | ALONE ONLY ..... 1<br>JOINTLY ONLY ..... 2<br>BOTH ALONE AND JOINTLY ..... 3<br>DOES NOT OWN ..... 4  | → 615 |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| 613                        | Do you have a title deed for any house you own?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | → 615 |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| 614                        | Is your name on the title deed?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| 615                        | Do you own any agricultural or non-agricultural land either alone or jointly with someone else?  | ALONE ONLY ..... 1<br>JOINTLY ONLY ..... 2<br>BOTH ALONE AND JOINTLY ..... 3<br>DOES NOT OWN ..... 4  | → 618 |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| 616                        | Do you have a title deed for any land you own?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | → 618 |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| 617                        | Is your name on the title deed?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| 618                        | In your opinion, is a husband justified in hitting or beating his wife in the following situations:<br><br>a) If she goes out without telling him?<br>b) If she neglects the children?<br>c) If she argues with him?<br>d) If she refuses to have sex with him?<br>e) If she burns the food?<br>f) If she makes a major household decision without consulting him? | <table> <thead> <tr> <th></th> <th align="center">YES</th> <th align="center">NO</th> <th align="center">DK</th> </tr> </thead> <tbody> <tr> <td>a) GOES OUT .....</td> <td align="center">1</td> <td align="center">2</td> <td align="center">8</td> </tr> <tr> <td>b) NEGLECTS CHILDREN .....</td> <td align="center">1</td> <td align="center">2</td> <td align="center">8</td> </tr> <tr> <td>c) ARGUES .....</td> <td align="center">1</td> <td align="center">2</td> <td align="center">8</td> </tr> <tr> <td>d) REFUSES SEX .....</td> <td align="center">1</td> <td align="center">2</td> <td align="center">8</td> </tr> <tr> <td>e) BURNS FOOD .....</td> <td align="center">1</td> <td align="center">2</td> <td align="center">8</td> </tr> <tr> <td>f) MAJOR DECISION .....</td> <td align="center">1</td> <td align="center">2</td> <td align="center">8</td> </tr> </tbody> </table> |       | YES | NO | DK | a) GOES OUT ..... | 1 | 2 | 8 | b) NEGLECTS CHILDREN ..... | 1 | 2 | 8 | c) ARGUES ..... | 1 | 2 | 8 | d) REFUSES SEX ..... | 1 | 2 | 8 | e) BURNS FOOD ..... | 1 | 2 | 8 | f) MAJOR DECISION ..... | 1 | 2 | 8 |  |
|                            | YES  | NO  | DK    |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| a) GOES OUT .....          | 1  | 2   | 8     |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| b) NEGLECTS CHILDREN ..... | 1  | 2   | 8     |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| c) ARGUES .....            | 1  | 2   | 8     |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| d) REFUSES SEX .....       | 1  | 2   | 8     |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| e) BURNS FOOD .....        | 1  | 2   | 8     |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |
| f) MAJOR DECISION .....    | 1  | 2   | 8     |     |    |    |                   |   |   |   |                            |   |   |   |                 |   |   |   |                      |   |   |   |                     |   |   |   |                         |   |   |   |  |

SECTION 7. HIV/AIDS

July 8 2018

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |  |  |
|------|--|---|-------|--|--|
| 701  | Now I would like to talk about something else. Have you ever heard of HIV or AIDS?   | YES ..... 1<br>NO ..... 2   | → 727 |  |  |
| 702  | HIV is the virus that can lead to AIDS. Can people reduce their chance of getting HIV by having just one uninfected sex partner who has no other sex partners? | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |  |  |
| 703  | Can people get HIV from mosquito bites?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |  |  |
| 704  | Can people reduce their chance of getting HIV by using a condom every time they have sex?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |  |  |
| 705  | Can people get HIV by sharing food with a person who has HIV?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |  |  |
| 705A | Can people reduce their chance of getting HIV by not having sexual intercourse at all?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |  |  |
| 706  | Can people get HIV because of witchcraft or other supernatural means?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |  |  |
| 707  | Is it possible for a healthy-looking person to have HIV?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |  |  |
| 708  | Can HIV be transmitted from a mother to her baby:<br><br>a) During pregnancy?<br>b) During delivery?<br>c) By breastfeeding?                                   | YES ..... 1<br>NO ..... 2<br>DK ..... 8<br><br>a) DURING PREGNANCY ..... 1 2 8<br>b) DURING DELIVERY ..... 1 2 8<br>c) BREASTFEEDING ..... 1 2 8            |       |  |  |
| 709  | CHECK 708:<br><br>AT LEAST <input type="checkbox"/><br>ONE 'YES' ↓   | OTHER <input type="checkbox"/>  | → 711 |  |  |
| 710  | Are there any special drugs that a doctor or a nurse can give to a woman infected with HIV to reduce the risk of transmission to the baby?                     | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |  |  |
| 711  | <b>CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.</b>   |   |       |  |  |
| 712  | I don't want to know the results, but have you ever been tested for HIV?   | YES ..... 1<br>NO ..... 2   | → 716 |  |  |
| 713  | How many months ago was your most recent HIV test?   | MONTHS AGO ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table><br>TWO OR MORE YEARS ..... 95 |       |  |  |
|      |  |   |       |  |  |

**SECTION 7. HIV/AIDS**

July 8 2018

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|------|---|---|-------|
| 714  | I don't want to know the results, but did you get the results of the test?  | YES ..... 1<br>NO ..... 2   | → 715 |
| 714A | Did you disclose your results to any of the following:<br><br>a) (Wife/Partner)?<br>b) Family member?<br>c) Religious leader?<br>d) Friend?<br>e) Any other?  | YES ..... NO ..... DK .....<br>a) HUSBAND/PARTNER .. 1 2 8<br>b) FAMILY MEMBER ..... 1 2 8<br>c) RELIGIOUS LEADER .. 1 2 8<br>d) FRIEND ..... 1 2 8<br>e) OTHER ..... 1 2 8   |       |
| 715  | Where was the test done?<br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____<br>(NAME OF PLACE)               | <b>PUBLIC SECTOR</b><br>GOVERNMENT HOSPITAL ..... 11<br>GOVERNMENT HEALTH CENTER ..... 12<br>GOVERNMENT HEALTH POST ..... 13<br>STAND-ALONE HTC CENTER ..... 14<br>FAMILY PLANNING CLINIC ..... 15<br>MOBILE HTC SERVICES ..... 16<br>OTHER PUBLIC SECTOR .....<br><br>_____<br>(SPECIFY) 17<br><br><b>PRIVATE MEDICAL SECTOR</b><br>PRIVATE HOSPITAL/CLINIC/<br>PRIVATE DOCTOR ..... 21<br>MISSION HOSPITAL/CLINIC ..... 22<br>STAND-ALONE HTC CENTER ..... 23<br>PHARMACY ..... 24<br>MOBILE HTC SERVICES ..... 25<br>OTHER PRIVATE MEDICAL SECTOR .....<br><br>_____<br>(SPECIFY) 26<br><br><b>OTHER SOURCE</b><br>HOME ..... 31<br>WORKPLACE ..... 32<br>CORRECTIONAL FACILITY ..... 33<br><br>OTHER .....<br>_____<br>(SPECIFY) 96 | → 718 |
| 716  | Do you know of a place where people can go to get an HIV test?  | YES ..... 1<br>NO ..... 2   | → 718 |
| 717  | Where is that?<br><br>Any other place?<br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____<br>(NAME OF PLACE) | <b>PUBLIC SECTOR</b><br>GOVERNMENT HOSPITAL ..... A<br>GOVERNMENT HEALTH CENTER ..... B<br>GOVERNMENT HEALTH POST ..... C<br>STAND-ALONE HTC CENTER ..... D<br>FAMILY PLANNING CLINIC ..... E<br>MOBILE HTC SERVICES ..... F<br>OTHER PUBLIC SECTOR .....<br><br>_____<br>(SPECIFY) G<br><br><b>PRIVATE MEDICAL SECTOR</b><br>PRIVATE HOSPITAL/CLINIC/<br>PRIVATE DOCTOR ..... H<br>MISSION HOSPITAL/CLINIC ..... I<br>STAND-ALONE HTC CENTER ..... J<br>PHARMACY ..... K<br>MOBILE HTC SERVICES ..... L<br>OTHER PRIVATE MEDICAL SECTOR .....<br><br>_____<br>(SPECIFY) M<br><br>OTHER .....<br>_____<br>(SPECIFY) X   |       |

**SECTION 7. HIV/AIDS**

July 8 2018

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |
|-----|--|---|-------|
| 718 | Have you heard of test kits people can use to test themselves for HIV?   | YES ..... 1<br>NO ..... 2 → 720   |       |
| 719 | Have you ever tested yourself for HIV using a self-test kit?   | YES ..... 1<br>NO ..... 2   |       |
| 720 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                            |       |
| 721 | Do you think children living with HIV should be allowed to attend school with children who do not have HIV?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                            |       |
| 722 | Do you think people hesitate to take an HIV test because they are afraid of how other people will react if the test result is positive for HIV?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                            |       |
| 723 | Do people talk badly about people living with HIV, or who are thought to be living with HIV?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                            |       |
| 724 | Do people living with HIV, or thought to be living with HIV, lose the respect of other people?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                            |       |
| 725 | Do you agree or disagree with the following statement: I would be ashamed if someone in my family had HIV.   | AGREE ..... 1<br>DISAGREE ..... 2<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8                    |       |
| 726 | Do you fear that you could get HIV if you come into contact with the saliva of a person living with HIV?   | YES ..... 1<br>NO ..... 2<br>SAYS HE HAS HIV ..... 3<br>DON'T KNOW/NOT SURE/DEPENDS ..... 8 |       |
| 727 | CHECK 701:<br><br>HEARD ABOUT <input type="checkbox"/> HIV OR AIDS ↓      NOT HEARD ABOUT <input type="checkbox"/> HIV OR AIDS ↓<br><br>a) Apart from HIV, have you heard about other infections that can be transmitted through sexual contact?<br><br>b) Have you heard about infections that can be transmitted through sexual contact? | YES ..... 1<br>NO ..... 2   |       |
| 728 | CHECK 414:<br><br>HAS HAD SEXUAL <input type="checkbox"/> INTERCOURSE ↓      NEVER HAD SEXUAL <input type="checkbox"/> INTERCOURSE   |   | → 736 |
| 729 | CHECK 727: HEARD ABOUT OTHER SEXUALLY TRANSMITTED INFECTIONS?<br><br>YES <input type="checkbox"/><br>↓<br>NO <input type="checkbox"/>  |   | → 731 |
| 730 | Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |

**SECTION 7. HIV/AIDS**

July 8 2018

SKIP

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   |       |
|-----|--|---|-------|
| 731 | Sometimes men experience an abnormal discharge from their penis. During the last 12 months, have you had an abnormal discharge from your penis?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 732 | Sometimes men have a sore or ulcer near their penis. During the last 12 months, have you had a sore or ulcer on or near your penis?  | YES ..... 1<br>NO ..... 2<br><br>DON'T KNOW ..... 8   |       |
| 733 | CHECK 730, 731 AND 732:<br><br>HAS HAD AN <input type="checkbox"/><br>INFECTION ↓<br>(ANY 'YES')   | HAS NOT HAD AN <input type="checkbox"/><br>INFECTION OR<br>DOES NOT KNOW  | → 736 |
| 734 | The last time you had (PROBLEM FROM 730/731/732), did you seek any kind of advice or treatment?  | YES ..... 1<br>NO ..... 2   | → 736 |
| 735 | Where did you go?<br><br>Any other place?<br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____<br>(NAME OF PLACE) | <b>PUBLIC SECTOR</b><br>GOVERNMENT HOSPITAL ..... A<br>GOVERNMENT HEALTH CENTER ..... B<br>GOVERNMENT HEALTH POST ..... C<br>STAND-ALONE HTC CENTER ..... D<br>FAMILY PLANNING CLINIC ..... E<br>MOBILE HTC SERVICES ..... F<br>OTHER PUBLIC SECTOR<br><br>_____<br>(SPECIFY)<br><b>PRIVATE MEDICAL SECTOR</b><br>PRIVATE HOSPITAL/CLINIC/<br>PRIVATE DOCTOR ..... H<br>MISSION HOSPITAL/CLINIC ..... I<br>STAND-ALONE HTC CENTER ..... J<br>PHARMACY ..... K<br>MOBILE HTC SERVICES ..... L<br>OTHER PRIVATE MEDICAL SECTOR<br><br>_____<br>(SPECIFY)<br><b>OTHER SOURCE</b><br>SHOP ..... N<br><br>OTHER _____ X<br>(SPECIFY) |       |
| 736 | If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have sex?  | YES ..... 1<br>NO ..... 2<br><br>DON'T KNOW ..... 8   |       |
| 737 | Is a wife justified in refusing to have sex with her husband when she knows he has sex with other women?   | YES ..... 1<br>NO ..... 2<br><br>DON'T KNOW ..... 8   |       |

SECTION 8. OTHER HEALTH ISSUES

July 8 2018

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP           |  |       |
|------|--|---|----------------|--|-------|
| 801  | Some men are circumcised, that is, the foreskin is completely removed from the penis. Are you circumcised?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | → 805          |  |       |
| 802  | How old were you when you got circumcised?   | AGE IN COMPLETED YEARS ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table>   |                |  |       |
|      |  |   |                |  |       |
|      |  | DURING CHILDHOOD (<5 YEARS) ..... 95<br>DON'T KNOW ..... 98   |                |  |       |
| 803  | Who performed your circumcision?   | TRADITIONAL PRACTITIONER/FAMILY/FRIEND ..... 1<br>HEALTH WORKER/PROFESSIONAL ..... 2<br>OTHER ..... 3<br>DON'T KNOW ..... 8   |                |  |       |
| 804  | Where was it performed?  | HEALTH FACILITY ..... 1<br>HOME OF A HEALTH WORKER/PROFESSIONAL ..... 2<br>CIRCUMCISION DONE AT HOME ..... 3<br>RITUAL SITE ..... 4<br>OTHER HOME/PLACE ..... 5<br>DON'T KNOW ..... 8                       |                |  |       |
| 804A | Why were you circumcised?<br><br>RECORD ALL MENTIONED.   | TRADITIONAL CUSTOM ..... A<br>TREATMENT FOR DISEASE ..... B<br>HYGIENE ..... C<br>PREVENTION FROM A DISEASE ..... D<br>INCREASE SEXUAL PLEASURE ..... E<br>OTHER ..... X<br>(SPECIFY)<br>DON'T KNOW ..... Z |                |  |       |
| 805  | Now I would like to ask you some other questions relating to health matters. Have you had an injection for any reason in the last 12 months?<br><br>IF YES: How many injections have you had?<br><br>IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. | NUMBER OF INJECTIONS ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table><br><br>NONE ..... 00  |                |  | → 808 |
|      |  |   |                |  |       |
| 806  | Among these injections, how many were administered by a doctor, a nurse, a pharmacist, a dentist, or any other health worker?<br><br>IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.   | NUMBER OF INJECTIONS ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table><br><br>NONE ..... 00  |                |  | → 808 |
|      |  |   |                |  |       |
| 807  | The last time you got an injection from a health worker, did he/she take the syringe and needle from a new, unopened package?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |                |  |       |
| 808  | Do you currently smoke tobacco every day, some days, or not at all?  | EVERY DAY ..... 1<br>SOME DAYS ..... 2<br>NOT AT ALL ..... 3  | → 811<br>→ 810 |  |       |
| 809  | In the past, have you smoked tobacco every day?  | YES ..... 1<br>NO ..... 2   | → 812          |  |       |
| 810  | In the past, have you ever smoked tobacco every day, some days, or not at all?   | EVERY DAY ..... 1<br>SOME DAYS ..... 2<br>NOT AT ALL ..... 3  | → 813          |  |       |

SECTION 8. OTHER HEALTH ISSUES

July 8 2018

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP      |
|-----|--|--|-----------|
| 811 | <p>On average, how many of the following products do you currently smoke each day? Also, let me know if you use the product, but not every day.</p> <p>IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY DAY, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.</p> <p>a) Manufactured cigarettes?<br/>b) Hand-rolled cigarettes?<br/>c) Pipes full of tobacco?<br/>d) Cigars, or cigarillos?<br/>e) Number of water pipe (shisha) sessions?<br/>f) Any others?</p> <hr/> <p align="center">(SPECIFY)</p> | <p align="center">NUMBER DAILY</p> <p>a) MANUFACTURED CIGARETTES ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> b) HAND-ROLLED CIGARETTES ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> d) PIPES FULL OF TOBACCO ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> e) CIGARS OR CIGARILLOS ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> f) NUMBER OF WATER PIPE SESSIONS ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> g) OTHERS ..... <input type="text"/> <input type="text"/> <input type="text"/></p>  | 813 → 813 |
| 812 | <p>On average, how many of the following products do you currently smoke each week? Also, let me know if you use the product, but not every week.</p> <p>IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY WEEK, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.</p> <p>a) Manufactured cigarettes?<br/>b) Hand-rolled cigarettes?<br/>c) Pipes full of tobacco?<br/>d) Cigars, or cigarillos?<br/>e) Number of water pipe (shisha) sessions?<br/>f) Any others?</p>                                    | <p align="center">NUMBER WEEKLY</p> <p>a) MANUFACTURED CIGARETTES ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> b) HAND-ROLLED CIGARETTES ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> c) PIPES FULL OF TOBACCO ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> d) CIGARS OR CIGARILLOS ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> e) NUMBER OF WATER PIPE SESSIONS ..... <input type="text"/> <input type="text"/> <input type="text"/><br/> f) OTHERS ..... <input type="text"/> <input type="text"/> <input type="text"/></p> |           |
| 813 | Do you currently use smokeless tobacco every day, some days, or not at all?  | <p>EVERY DAY ..... 1<br/> SOME DAYS ..... 2<br/> NOT AT ALL ..... 3</p>  | 815 → 816 |

SECTION 8. OTHER HEALTH ISSUES

July 8 2018

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP |
|-----|---|--|------|
| 814 | <p>On average, how many times a day do you use the following products? Also, let me know if you use the product, but not every day.</p> <p>IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY DAY, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.</p> <p>a) Snuff, by mouth?<br/>b) Snuff, by nose?<br/>c) Chewing tobacco?<br/>d) Any others?</p> <hr style="width: 100px; margin-left: 0;"/> <p align="center">(SPECIFY)</p> | <p align="center">TIMES DAILY</p> <p>a) SNUFF, BY MOUTH ..... <input type="text"/> <input type="text"/> <input type="text"/></p> <p>b) SNUFF, BY NOSE ..... <input type="text"/> <input type="text"/> <input type="text"/></p> <p>c) CHEWING TOBACCO ..... <input type="text"/> <input type="text"/> <input type="text"/></p> <p>d) ANY OTHERS ..... <input type="text"/> <input type="text"/> <input type="text"/></p>  | 816  |
| 815 | <p>On average, how many times a week do you use the following products? Also, let me know if you use the product, but not every week.</p> <p>IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY WEEK, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.</p> <p>a) Snuff, by mouth?<br/>b) Snuff, by nose?<br/>c) Chewing tobacco?<br/>d) Any others?</p>  | <p align="center">TIMES WEEKLY</p> <p>a) SNUFF, BY MOUTH ..... <input type="text"/> <input type="text"/> <input type="text"/></p> <p>b) SNUFF, BY NOSE ..... <input type="text"/> <input type="text"/> <input type="text"/></p> <p>c) CHEWING TOBACCO ..... <input type="text"/> <input type="text"/> <input type="text"/></p> <p>e) ANY OTHERS ..... <input type="text"/> <input type="text"/> <input type="text"/></p> |      |
| 816 | Are you covered by any health insurance or health scheme?   | YES ..... 1<br>NO ..... 2  | 817A |
| 817 | What type of health insurance or health scheme are you covered by?<br><br>RECORD ALL MENTIONED.   | <p>MUTUAL HEALTH ORGANIZATION/<br/>COMMUNITY-BASED HEALTH INSURANCE ..... A</p> <p>HEALTH INSURANCE THROUGH EMPLOYER ..... B</p> <p>SOCIAL SECURITY ..... C</p> <p>OTHER PRIVATELY PURCHASED COMMERCIAL HEALTH INSURANCE ..... D</p> <p>OTHER ..... X</p> <hr style="width: 100px; margin-left: 0;"/> <p align="center">(SPECIFY)</p>  |      |

SECTION 8. OTHER HEALTH ISSUES

July 8 2018

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP   |  |  |  |  |  |  |  |  |
|------|---|---|--|--|--|--|--|--|--|--|--|
| 817A | Have you ever undergone a surgical operation in the past 5 years?   | YES ..... 1<br>NO ..... 2   | → 817C   |  |  |  |  |  |  |  |  |
| 817B | What type of operation(s) were they?<br><br>RECORD ALL MENTIONED.   | HERNIA OPERATION ..... A<br>HYDROCELE OPERATION ..... B<br>LAPAROTOMY (Cutting open the abdomen) ..... C<br>LUMP REMOVAL ..... D<br>ABSCESS DRAINAGE ..... E<br>WOUND CLOSURE ..... F<br>OPEN FRACTURE REPAIR ..... G<br>OTHER _____ (specify) X  |  |  |  |  |  |  |  |  |  |
| 817C | In the last 5 years has a doctor or another healthcare worker told you that you might need (a/another) operation? | YES ..... 1<br>NO ..... 2   | → 818  |  |  |  |  |  |  |  |  |
| 817D | Did you undergo the surgery?  | YES ..... 1<br>NO ..... 2   | → 818  |  |  |  |  |  |  |  |  |
| 817E | Why did you not undergo it?<br><br>RECORD ALL MENTIONED.  | I COULD NOT REACH THE DOCTOR ..... A<br>I COULD NOT AFFORD THE OPERATION ..... B<br>I COULD NOT AFFORD<br>TO GET TO THE HOSPITAL ..... C<br>I COULD NOT AFFORD<br>THE TIME OFF WORK ..... D<br>IT WAS TOO FAR TO GET<br>TO THE HOSPITAL ..... E<br>I DID NOT TRUST THE OPERATION WOULD<br>MAKE BE BETTER ..... F<br>FEAR OF CARE ..... G<br>OUT OF SHAME ..... H<br>MY SPOUSE/FAMILY WOULD NOT LET ME GO ..... I<br>OTHER _____ (specify) X |  |  |  |  |  |  |  |  |  |
| 818  | RECORD THE TIME.  | HOURS .....<br>MINUTES .....  | <table border="1" style="float: right; margin-left: 10px;"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table> |  |  |  |  |  |  |  |  |
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INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

July 8 2018

COMMENTS ABOUT INTERVIEW:

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COMMENTS ON SPECIFIC QUESTIONS:

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ANY OTHER COMMENTS:

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SUPERVISOR'S OBSERVATIONS

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EDITOR'S OBSERVATIONS

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2018 ZAMBIA DEMOGRAPHIC AND HEALTH SURVEY  
 BIOMARKER QUESTIONNAIRE  
 ZAMBIA  
 MINISTRY OF HEALTH/CENTRAL STATISTICAL OFFICE

| IDENTIFICATION              |  |                         |  |   |
|-----------------------------|--|-------------------------|--|---|
| PLACE NAME                  | <hr/>  |                         |  |   |
| NAME OF HOUSEHOLD HEAD      | <hr/>  |                         |  |   |
| CLUSTER NUMBER              | .....  |                         |  |   |
| HOUSEHOLD NUMBER            | .....  |                         |  |   |
|                             |  |                         |  |   |
| FIELDWORKER VISITS          |  |                         |  |   |
|                             | 1  | 2                       | 3  | FINAL VISIT   |
| DATE                        | <hr/>  | <hr/>                   | <hr/>  | DAY<br><br>MONTH<br><br>YEAR  |
| FIELDWORKER'S NAME          | <hr/>  | <hr/>                   | <hr/>  | <hr/> <hr/> <hr/>   |
| NEXT VISIT: DATE            | <hr/>  | <hr/>                   | <hr/>  | TOTAL NUMBER OF VISITS  |
| TIME                        | <hr/>  | <hr/>                   |  | <hr/>   |
| NOTES:                      |  |                         |  | TOTAL ELIGIBLE WOMEN<br><br>TOTAL ELIGIBLE MEN<br><br>TOTAL ELIGIBLE CHILDREN   |
| LANGUAGE OF QUESTIONNAIRE** | 0 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> | LANGUAGE OF INTERVIEW** | <input type="checkbox"/> <input type="checkbox"/>  | NATIVE LANGUAGE OF RESPONDENT** <input type="checkbox"/> <input type="checkbox"/> TRANSLATOR (YES = 1, NO = 2) <input type="checkbox"/> |
| LANGUAGE OF QUESTIONNAIRE** | <b>ENGLISH</b>   |                         | <b>**LANGUAGE CODES:</b><br>01 ENGLISH      04 LOZI      07 NYANJA<br>02 BEMBA      05 LUNDA      08 TONGA<br>03 KAONDE      06 LUVALE |   |
| SUPERVISOR                  |  |                         | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>                                    |   |
| NAME                        |  |                         | NUMBER   |   |

**WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5**

|     |   |   |   |   |
|-----|---|---|---|---|
| 101 | <b>INTERVIEWER:</b> USE THE INTERVIEWER'S MENU AND SELECT THE APPROPRIATE OPTION TO LIST ALL CHILDREN AGE 0-5 ELIGIBLE FOR BIOMARKER TESTING. RECORD THE COMPLETE NAME, AGE AND THE LINE NUMBER AS THEY APPEAR IN THE REPORT ON YOUR TABLET. LIST EACH CHILD IN THE SAME ORDER SHOWN IN THE REPORT. IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). WRITE THE NAME OF EACH ELIGIBLE CHILD ON EACH SUBSEQUENT PAGES. |   |   |   |
|     |   | CHILD 1   | CHILD 2   | CHILD 3   |
| 102 | FROM TABLET'S REPORT<br><br>WRITE CHILD'S COMPLETE FIRST/LAST NAME, AGE, AND LINE NUMBER  | NAME _____<br>AGE ..... <input type="text"/> <input type="text"/><br>LINE NUMBER ..... <input type="text"/> <input type="text"/>  | NAME _____<br>AGE ..... <input type="text"/> <input type="text"/><br>LINE NUMBER ..... <input type="text"/> <input type="text"/>  | NAME _____<br>AGE ..... <input type="text"/> <input type="text"/><br>LINE NUMBER ..... <input type="text"/> <input type="text"/>  |
| 103 | <b>BIOMARKER:</b> ASK:<br><br>What is (NAME)'s date of birth?   | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR ... <input type="text"/> <input type="text"/> <input type="text"/> | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR ... <input type="text"/> <input type="text"/> <input type="text"/> | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR ... <input type="text"/> <input type="text"/> <input type="text"/> |
| 104 | CHECK 103: CHILD BORN IN 2013-2018?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 114) ←  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 114) ←  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 114) ←  |
| 105 | WEIGHT IN KILOGRAMS.  | KG.... <input type="text"/> <input type="text"/> . <input type="text"/><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | KG.... <input type="text"/> <input type="text"/> . <input type="text"/><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | KG.... <input type="text"/> <input type="text"/> . <input type="text"/><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  |
| 106 | HEIGHT IN CENTIMETERS.  | CM.... <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996<br>(SKIP TO 108) ←      | CM.... <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996<br>(SKIP TO 108) ←      | CM.... <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996<br>(SKIP TO 108) ←      |
| 107 | MEASURED LYING DOWN OR STANDING UP?   | LYING DOWN ..... 1<br>STANDING UP ..... 2   | LYING DOWN ..... 1<br>STANDING UP ..... 2   | LYING DOWN ..... 1<br>STANDING UP ..... 2   |
| 108 | MEASURER: ENTER YOUR FIELDWORKER NUMBER.  | <input type="text"/> <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/> <input type="text"/>  |
|     |   | FIELDWORKER NUMBER  | FIELDWORKER NUMBER  | FIELDWORKER NUMBER  |

**WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5**

|     |   |   |  |  |   |   |  |   |  |   |  |  |  |   |  |  |  |  |  |
|-----|---|---|--|--|---|---|--|---|--|---|--|--|--|---|--|--|--|--|--|
| 101 | <b>INTERVIEWER:</b> USE THE INTERVIEWER'S MENU AND SELECT THE APPROPRIATE OPTION TO LIST ALL CHILDREN AGE 0-5 ELIGIBLE FOR BIOMARKER TESTING. RECORD THE COMPLETE NAME, AGE AND THE LINE NUMBER AS THEY APPEAR IN THE REPORT ON YOUR TABLET. LIST EACH CHILD IN THE SAME ORDER SHOWN IN THE REPORT. IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). WRITE THE NAME OF EACH ELIGIBLE CHILD ON EACH SUBSEQUENT PAGES. |   |  |  |   |   |  |   |  |   |  |  |  |   |  |  |  |  |  |
|     |   | CHILD 1   | CHILD 2  | CHILD 3  |   |   |  |   |  |   |  |  |  |   |  |  |  |  |  |
| 102 | FROM TABLET'S REPORT<br><br>WRITE CHILD'S COMPLETE FIRST/LAST NAME, AGE, AND LINE NUMBER  | NAME _____<br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>  |  |  |   |   | NAME _____<br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |   |  |   |  | NAME _____<br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |  |   |  |  |  |  |  |
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| 109 | CHECK 103: CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR 5 PREVIOUS MONTHS?   | 0-5 MONTHS ..... 1 <input type="checkbox"/><br>(SKIP TO 114) <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>   |  |  | 0-5 MONTHS ..... 1 <input type="checkbox"/><br>(SKIP TO 114) <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |   |  | 0-5 MONTHS ..... 1 <input type="checkbox"/><br>(SKIP TO 114) <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>   |  |   |  |  |  |   |  |  |  |  |  |
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| 110 | WRITE THE NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR THE CHILD  | NAME OF PARENT/ADULT RESPONSIBLE<br><br>NAME _____  | NAME OF PARENT/ADULT RESPONSIBLE<br><br>NAME _____ | NAME OF PARENT/ADULT RESPONSIBLE<br><br>NAME _____ |   |   |  |   |  |   |  |  |  |   |  |  |  |  |  |
| 111 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT.  | <p>As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia. We ask that all children born in 2013 or later take part in the anemia testing and give a few drops of blood from a finger or heel. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test.</p> <p>The blood will be tested for anemia immediately, and the result will be told to you right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team.</p> <p>Do you have any questions?<br/>           You can say yes or no. It is up to you to decide.<br/>           Will you allow (NAME OF CHILD) to participate in the anemia test?</p> |  |  |   |   |  |   |  |   |  |  |  |   |  |  |  |  |  |
| 112 | CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER.   | GRANTED ..... 1 <input type="checkbox"/><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>REFUSED ..... 2<br>NOT PRESENT/OTHER . 3 <input type="checkbox"/><br>(SKIP TO 114) <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>   |  |  |   |   |  | GRANTED ..... 1 <input type="checkbox"/><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>REFUSED ..... 2<br>NOT PRESENT/OTHER . 3 <input type="checkbox"/><br>(SKIP TO 114) <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |  |   |  |  |  | GRANTED ..... 1 <input type="checkbox"/><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>REFUSED ..... 2<br>NOT PRESENT/OTHER . 3 <input type="checkbox"/><br>(SKIP TO 114) <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |  |  |  |  |  |
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| 113 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA PAMPHLET.  | G/DL .... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table><br>REFUSED ..... 995<br>OTHER ..... 996   |  |  |   | G/DL .... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table><br>REFUSED ..... 995<br>OTHER ..... 996 |  |   |  | G/DL .... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table><br>REFUSED ..... 995<br>OTHER ..... 996 |  |  |  |   |  |  |  |  |  |
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| 114 | GO BACK TO 103 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF THE NEXT PAGE;<br>IF NO MORE CHILDREN, GO TO 201.   |   |  |  |   |   |  |   |  |   |  |  |  |   |  |  |  |  |  |

## WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5

|     |   |  |  |  |
|-----|---|--|--|--|
| 101 | <b>INTERVIEWER:</b> USE THE INTERVIEWER'S MENU AND SELECT THE APPROPRIATE OPTION TO LIST ALL CHILDREN AGE 0-5 ELIGIBLE FOR BIOMARKER TESTING. RECORD THE COMPLETE NAME, AGE AND THE LINE NUMBER AS THEY APPEAR IN THE REPORT ON YOUR TABLET. LIST EACH CHILD IN THE SAME ORDER SHOWN IN THE REPORT. IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). WRITE THE NAME OF EACH ELIGIBLE CHILD ON EACH SUBSEQUENT PAGES. |  |  |  |
|     |   | CHILD 4  | CHILD 5  | CHILD 6  |
| 102 | FROM TABLET'S REPORT<br><br>WRITE CHILD'S COMPLETE FIRST/LAST NAME, AGE, AND LINE NUMBER  | NAME _____<br><br>AGE ..... <input type="text"/> <input type="text"/><br><br>LINE NUMBER ..... <input type="text"/> <input type="text"/>   | NAME _____<br><br>AGE ..... <input type="text"/> <input type="text"/><br><br>LINE NUMBER ..... <input type="text"/> <input type="text"/>   | NAME _____<br><br>AGE ..... <input type="text"/> <input type="text"/><br><br>LINE NUMBER ..... <input type="text"/> <input type="text"/>   |
| 103 | <b>BIOMARKER:</b> ASK:<br><br>What is (NAME)'s date of birth?   | DAY ..... <input type="text"/> <input type="text"/><br><br>MONTH ..... <input type="text"/> <input type="text"/><br><br>YEAR ... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | DAY ..... <input type="text"/> <input type="text"/><br><br>MONTH ..... <input type="text"/> <input type="text"/><br><br>YEAR ... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | DAY ..... <input type="text"/> <input type="text"/><br><br>MONTH ..... <input type="text"/> <input type="text"/><br><br>YEAR ... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |
| 104 | CHECK 103: CHILD BORN IN 2013-2018?<br><br>(SKIP TO 114) ←  | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  |
| 105 | WEIGHT IN KILOGRAMS.  | KG.... <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/><br><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | KG.... <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/><br><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | KG.... <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/><br><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  |
| 106 | HEIGHT IN CENTIMETERS.<br><br>(SKIP TO 108) ←   | CM.... <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/><br><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | CM.... <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/><br><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | CM.... <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/><br><br>NOT PRESENT .... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  |
| 107 | MEASURED LYING DOWN OR STANDING UP?   | LYING DOWN ..... 1<br>STANDING UP ..... 2  | LYING DOWN ..... 1<br>STANDING UP ..... 2  | LYING DOWN ..... 1<br>STANDING UP ..... 2  |
| 108 | MEASURER: ENTER YOUR FIELDWORKER NUMBER.  | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>FIELDWORKER NUMBER  | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>FIELDWORKER NUMBER  | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>FIELDWORKER NUMBER  |

**WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5**

|     |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| 101 | <b>INTERVIEWER:</b> USE THE INTERVIEWER'S MENU AND SELECT THE APPROPRIATE OPTION TO LIST ALL CHILDREN AGE 0-5 ELIGIBLE FOR BIOMARKER TESTING. RECORD THE COMPLETE NAME, AGE AND THE LINE NUMBER AS THEY APPEAR IN THE REPORT ON YOUR TABLET. LIST EACH CHILD IN THE SAME ORDER SHOWN IN THE REPORT. IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). WRITE THE NAME OF EACH ELIGIBLE CHILD ON EACH SUBSEQUENT PAGES. |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|     |   | CHILD 4   | CHILD 5   | CHILD 6   |  |  |  |  |  |  |  |  |  |  |  |  |
| 102 | FROM TABLET'S REPORT<br><br>WRITE CHILD'S COMPLETE FIRST/LAST NAME, AGE, AND LINE NUMBER  | NAME _____<br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>  |   |   |  |  | NAME _____<br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |  |  |  |  | NAME _____<br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |  |  |  |  |
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| 109 | CHECK 103: CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR 5 PREVIOUS MONTHS?   | 0-5 MONTHS ..... 1 <input type="checkbox"/><br>(SKIP TO 114) ←<br>OLDER ..... 2   | 0-5 MONTHS ..... 1 <input type="checkbox"/><br>(SKIP TO 114) ←<br>OLDER ..... 2 | 0-5 MONTHS ..... 1 <input type="checkbox"/><br>(SKIP TO 114) ←<br>OLDER ..... 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 110 | WRITE THE NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR THE CHILD  | NAME OF PARENT/ADULT RESPONSIBLE<br><br>NAME_____   | NAME OF PARENT/ADULT RESPONSIBLE<br><br>NAME_____                               | NAME OF PARENT/ADULT RESPONSIBLE<br><br>NAME_____                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 111 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT.  | <p>As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia. We ask that all children born in 2013 or later take part in the anemia testing and give a few drops of blood from a finger or heel. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test.</p> <p>The blood will be tested for anemia immediately, and the result will be told to you right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team.</p> <p>Do you have any questions?<br/>       You can say yes or no. It is up to you to decide.<br/>       Will you allow (NAME OF CHILD) to participate in the anemia test?</p> |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 112 | CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER.   | GRANTED ..... 1 <input type="checkbox"/><br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>REFUSED ..... 2<br>NOT PRESENT/OTHER . 3 <input type="checkbox"/><br>(SKIP TO 114) ←  |   |   |  | GRANTED ..... 1 <input type="checkbox"/><br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>REFUSED ..... 2<br>NOT PRESENT/OTHER . 3 <input type="checkbox"/><br>(SKIP TO 114) ← |  |  |  | GRANTED ..... 1 <input type="checkbox"/><br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>REFUSED ..... 2<br>NOT PRESENT/OTHER . 3 <input type="checkbox"/><br>(SKIP TO 114) ← |  |  |  |  |  |  |
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| 113 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA PAMPHLET.  | G/DL .... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table><br>REFUSED ..... 995<br>OTHER ..... 996   |   |   |  | G/DL .... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table><br>REFUSED ..... 995<br>OTHER ..... 996  |  |  |  | G/DL .... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table><br>REFUSED ..... 995<br>OTHER ..... 996  |  |  |  |  |  |  |
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|     |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 114 | GO BACK TO 103 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE;<br>IF NO MORE CHILDREN, GO TO 201.   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |

**HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49**

|     |   |  |   |         |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|---|--|---|---------|--|--|--|--|--|--|--|--|--|--|--|--|
| 201 | <b>INTERVIEWER:</b> USE THE APPROPRIATE OPTION FROM THE INTERVIEWER'S MENU TO LIST ALL WOMEN AGE 15-49 ELIGIBLE FOR BIOMARKER TESTING. IN EACH COLUMN, WRITE THE COMPLETE NAME, AGE AND LINE NUMBER AS THEY APPEAR IN THE REPORT ON YOUR TABLET. ALSO CIRCLE THE APPROPRIATE CODE FOR QUESTION 208. IF THE WOMAN'S AGE IS 15-17, COMPLETE QUESTION 209 USING THE MARITAL STATUS INFORMATION PRINTED IN THE TABLET'S REPORT.<br>IF TUEDE ADE MODE TUAN TUDEC WOMEN USE ADDITIONAL QUESTIONNAIRE(S) |  |   |         |  |  |  |  |  |  |  |  |  |  |  |  |
|     |   | WOMAN 1  | WOMAN 2   | WOMAN 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 202 | CHECK TABLET'S REPORT:<br><br>WRITE WOMAN'S AGE<br><br>WRITE WOMAN'S  | NAME _____<br><br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |   |         |  |  | NAME _____<br><br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |  |  |  |  | NAME _____<br><br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |  |  |  |  |
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|     |   |  |   |         |  |  |  |  |  |  |  |  |  |  |  |  |
| 208 | CIRCLE CODE FOR AGE GROUP:<br><br>15-17 YEARS ..... 1<br>18-49 YEARS ..... 2<br>(SKIP TO 210) ←   | 15-17 YEARS ..... 1<br>18-49 YEARS ..... 2<br>(SKIP TO 210) ←  | 15-17 YEARS ..... 1<br>18-49 YEARS ..... 2<br>(SKIP TO 210) ←       |         |  |  |  |  |  |  |  |  |  |  |  |  |
| 209 | CIRCLE CODE FOR MARITAL STATUS:<br><br>CODE 4 (NEVER IN UNION) . 1<br>(SKIP TO 218) ←<br><br>OTHER ..... 2  | CODE 4 (NEVER IN UNION) . 1<br>(SKIP TO 218) ←<br><br>OTHER ..... 2  | CODE 4 (NEVER IN UNION) . 1<br>(SKIP TO 218) ←<br><br>OTHER ..... 2 |         |  |  |  |  |  |  |  |  |  |  |  |  |

**HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49**

|  |                     |            |            |            |
|--|---------------------|------------|------------|------------|
|  |                     | WOMAN 1    | WOMAN 2    | WOMAN 3    |
|  | NAME FROM COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

**BIOMARKER:** BEFORE PROCEEDING WITH THE CONSENT STATEMENTS, ASK THE RESPONDENT HER AGE AND MARITAL STATUS TO CONFIRM THE SKIP PATTERN IN Q208/Q209. IF THERE ARE ANY DISCREPANCIES THAT AFFECT THE INFORMED CONSENT PATTERN (MINOR VS. ADULT); GO BACK TO Q208/Q209 AND MAKE CORRECTIONS AND FOLLOW THE NEW SKIP PATTERN. PLEASE INFORM THE INTERVIEWER OF NEEDED ADJUSTMENTS IN THE HOUSEHOLD SCHEDULE (QH07/QH08), IF NECESSARY.

**ADULT RESPONDENT CONSENT FOR ANEMIA TEST**

|  |   |  |   |  |  |  |  |  |  |  |  |  |
|--|---|--|---|--|--|--|--|--|--|--|--|--|
| A<br>D<br>U<br>L<br>T<br><br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T<br><br>C<br>O<br>N<br>S<br>E<br>N<br>T | 210 ASK CONSENT FOR ANEMIA TEST.                | <p>As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia.</p> <p>For the anemia testing, we will need a few drops of blood from a finger. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after we take your blood. The blood will be tested for anemia immediately, and the result will be told to you right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team.</p> <p>Do you have any questions?<br/>You can say yes or no. It is up to you to decide.<br/>Will you take the anemia test?</p> |   |  |  |  |  |  |  |  |  |  |
|  | 211 CIRCLE THE CODE AND SIGN YOUR NAME.         | GRANTED ..... 1<br>RESPONDENT REFUSED ... 2<br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>(IF REFUSED, SKIP TO 212)   |   |  |  | GRANTED ..... 1<br>RESPONDENT REFUSED ... 2<br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>(IF REFUSED, SKIP TO 212) |  |  |  | GRANTED ..... 1<br>RESPONDENT REFUSED ... 2<br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>(IF REFUSED, SKIP TO 212) |  |  |
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|  |   |  |   |  |  |  |  |  |  |  |  |  |
| 211A ASK:<br>Are you pregnant?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8 |  |  |  |  |  |  |  |  |  |

**HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49**

|  |                        | WOMAN 1    | WOMAN 2    | WOMAN 3    |
|--|------------------------|------------|------------|------------|
|  | NAME FROM<br>COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

**ADULT RESPONDENT CONSENT FOR DBS COLLECTION**

|   |  |  |  |
|---|--|--|--|
| A<br>D<br>U<br>L<br>T<br><br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T | <p>212 ASK CONSENT FOR DBS COLLECTION.</p> <p>As part of the survey we also are asking people all over the country to give blood for HIV testing to be done in a laboratory. HIV is the virus that can lead to AIDS. The HIV testing is being done to see how many people have HIV.</p> <p>For the HIV testing, we need a few (more) drops of blood from a finger. The blood will be collected on a paper card. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after we take your blood. No names will be written on the paper card so we will not be able to tell you the test results. No one else will be able to know your test results either.</p> <p>Do you have any questions?</p> <p>You can say yes or no. It is up to you to decide.</p> <p>Will you give blood on a paper card for HIV testing in a laboratory?</p> |  |  |
| C<br>O<br>N<br>S<br>E<br>N<br>T   | <p>213 CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER</p> <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)</p> <p>(IF REFUSED, SKIP TO 216)</p> <p>NOT PRESENT/OTHER .... 3</p> <p>(SKIP TO 216)</p>  | <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>(SIGN AND ENTER YOUR FIELDWORKER ID NUMBER)</p> <p>(IF REFUSED, SKIP TO 216)</p> <p>NOT PRESENT/OTHER .... 3</p> <p>(SKIP TO 216)</p> | <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>(SIGN AND ENTER YOUR FIELDWORKER ID NUMBER)</p> <p>(IF REFUSED, SKIP TO 216)</p> <p>NOT PRESENT/OTHER .... 3</p> <p>(SKIP TO 216)</p> |

**ADULT RESPONDENT CONSENT FOR ADDITIONAL TESTING**

|   |  |   |   |
|---|--|---|---|
| U<br>L<br>T<br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T | <p>214 ASK CONSENT FOR ADDITIONAL TESTING.</p> <p>We ask you to allow the Ministry of Health to store part of the blood sample at the laboratory for additional tests or research. These additional tests could include tests to see if individuals are protected against diseases such as measles and rubella, or other tests.</p> <p>The blood sample will not have any name or other information attached that could identify you. You do not have to agree. If you do not want the blood sample stored for additional testing, you can still participate in the HIV testing in this survey.</p> <p>Will you allow us to keep the blood sample stored for additional testing?</p> |   |   |
| C<br>O<br>N<br>S<br>E   | <p>215 CIRCLE THE CODE AND SIGN YOUR NAME.</p> <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>_____ (SIGN)</p>   | <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>_____ (SIGN)</p> | <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>_____ (SIGN)</p> |

**HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49**

|  |                     | WOMAN 1    | WOMAN 2    | WOMAN 3    |
|--|---------------------|------------|------------|------------|
|  | NAME FROM COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

**ADULT RESPONDENT CONSENT FOR RDT TESTING**

|   |   |   |   |            |
|---|---|---|---|------------|
| A<br>D<br>U<br>L<br>T<br><br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T | <p>216 ASK CONSENT FOR HIV RDT TEST.</p> <p>If you want to know your HIV status right now, we can do a rapid test and tell you the result. The testing is free and we will offer counselling before and after the test.</p> <p>For the rapid HIV test, we need a few (more) drops of blood from a finger. We will use the same rapid tests used in the hospitals in Zambia. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The result of the test will be available in 20-30 minutes.</p> <p>If the test is positive, I will give you a referral form to go to the nearest health facility for follow up with medical personnel, as is recommended by the Ministry of Health.</p> <p>Do you have any questions?</p> <p>You can say yes or no. It is up to you to decide.</p> <p>Will you give blood for the rapid HIV testing?</p> |   |   |            |
| C<br>O<br>N<br>S<br>E<br>N<br>T   | <p>217 CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER</p> <p>GRANTED ..... 1 <input type="checkbox"/><br/>RESPONDENT REFUSED ..... 2 <input type="checkbox"/></p> <p>(SIGN, ENTER YOUR FIELDWORKER NUMBER, AND SKIP TO 239)</p> <p>NOT PRESENT/OTHER ..... 3 <input type="checkbox"/></p>   | <p>GRANTED ..... 1 <input type="checkbox"/><br/>RESPONDENT REFUSED ..... 2 <input type="checkbox"/></p> <p>(SIGN, ENTER YOUR FIELDWORKER NUMBER, AND SKIP TO 239)</p> <p>NOT PRESENT/OTHER ..... 3 <input type="checkbox"/></p> | <p>GRANTED ..... 1 <input type="checkbox"/><br/>RESPONDENT REFUSED ..... 2 <input type="checkbox"/></p> <p>(SIGN, ENTER YOUR FIELDWORKER NUMBER, AND SKIP TO 239)</p> <p>NOT PRESENT/OTHER ..... 3 <input type="checkbox"/></p> |            |
|   | 218 WRITE THE NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT   | NAME _____  | NAME _____  | NAME _____ |

**PARENTAL/RESPONSIBLE ADULT CONSENT FOR ANEMIA TEST**

|   |  |   |   |  |
|---|--|---|---|--|
| P<br>A<br>R<br>E<br>N<br>T<br><br>R<br>E<br>S<br>P<br>A<br>D<br>U<br>L<br>T | <p>219 ASK CONSENT FOR ANEMIA TEST FROM PARENT/ADULT.</p> <p>As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia.</p> <p>For the anemia testing, we will need a few drops of blood from (NAME OF MINOR)'s finger. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The blood will be tested for anemia immediately, and the result will be told to you and (NAME OF MINOR) right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team.</p> <p>Do you have any questions?</p> <p>You can say yes or no. It is up to you to decide.</p> <p>Will you allow (NAME OF MINOR) to take the anemia test?</p> |   |   |  |
| C<br>O<br>N<br>S<br>E<br>N<br>T   | <p>220 CIRCLE THE CODE AND SIGN YOUR NAME.</p> <p>GRANTED ..... 1 <input type="checkbox"/><br/>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 <input type="checkbox"/></p> <p>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)</p> <p>NOT PRESENT/OTHER ..... 3 <input type="checkbox"/></p>   | <p>GRANTED ..... 1 <input type="checkbox"/><br/>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 <input type="checkbox"/></p> <p>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)</p> <p>NOT PRESENT/OTHER ..... 3 <input type="checkbox"/></p> | <p>GRANTED ..... 1 <input type="checkbox"/><br/>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 <input type="checkbox"/></p> <p>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)</p> <p>NOT PRESENT/OTHER ..... 3 <input type="checkbox"/></p> |  |

**HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49**

|  |                        | WOMAN 1    | WOMAN 2    | WOMAN 3    |
|--|------------------------|------------|------------|------------|
|  | NAME FROM<br>COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

**PARENT/RESPONSIBLE ADULT CONSENT FOR DBS COLLECTION**

|  |  |   |   |   |
|--|--|---|---|---|
| P<br>A<br>R<br>E<br>N<br>T<br><br>R<br>E<br>S<br>P<br>A<br><br>D<br>U<br>L<br>T<br><br>C<br>O<br>N<br>S<br>E<br>N<br>T | <p>221 ASK CONSENT FOR DBS COLLECTION FROM PARENT/ADULT.</p> <p>As part of the survey we also are asking people all over the country to give blood for HIV testing to be done in a laboratory. HIV is the virus that can lead to AIDS. The HIV testing is being done to see how many people have HIV.</p> <p>For the HIV testing, we need a few (more) drops of blood from a finger. The blood will be collected on a paper card. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after we take the blood. No names will be written on the paper card so we will not be able to tell you the results of (NAME OF MINOR)'s test. No one else will be able to know (NAME OF MINOR)'s test results either.</p> <p>Do you have any questions?<br/>You can say yes or no. It is up to you to decide.<br/>Will you allow (NAME OF MINOR) to give blood on a paper card for HIV testing in a laboratory?</p> |   |   |   |
|  | <p>222 CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER.</p> <p>GRANTED ..... 1<br/>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2</p> <p>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)</p> <p>(IF REFUSED, SKIP TO 225)</p> <p>NOT PRESENT/OTHER .... 3</p> <p>(SKIP TO 225) ←</p>   | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 |

**PARENT/RESPONSIBLE ADULT CONSENT FOR ADDITIONAL TESTING**

|  |   |   |   |   |
|--|---|---|---|---|
| P<br>A<br>R<br>E<br>N<br>T<br><br>R<br>E<br>S<br>P<br>A<br><br>D<br>U<br>L<br>T<br><br>C<br>O<br>N<br>S<br>E<br>N<br>T | <p>223 ASK CONSENT FOR ADDITIONAL TESTING FROM PARENT/ADULT.</p> <p>We ask you to allow the Ministry of Health to store part of the blood sample at the laboratory for additional tests or research. These additional tests could include tests to see if individuals are protected against diseases such as measles and rubella, or other tests.</p> <p>The blood sample will not have any name or other data attached that could identify (NAME OF MINOR). You do not have to agree. If you do not want the blood sample stored for additional testing, (NAME OF MINOR) can still participate in the HIV testing in this survey.</p> <p>Will you allow us to keep the blood sample stored for additional testing?</p> |   |   |   |
|  | <p>224 CIRCLE THE CODE AND SIGN YOUR NAME.</p> <p>GRANTED ..... 1<br/>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2</p> <p>_____ (SIGN) ←</p>  | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 |

**HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49**

|  |                        | WOMAN 1    | WOMAN 2    | WOMAN 3    |
|--|------------------------|------------|------------|------------|
|  | NAME FROM<br>COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

**PARENTAL/RESPONSIBLE ADULT CONSENT FOR RDT TESTING**

|  |  |   |   |   |   |
|--|--|---|---|---|---|
| <b>P</b><br><b>A</b><br><b>R</b><br><b>E</b><br><b>S</b><br><b>P</b><br><b>A</b><br><b>D</b><br><b>U</b><br><b>L</b><br><b>T</b><br><b>C</b><br><b>O</b><br><b>N</b><br><b>S</b><br><b>E</b><br><b>N</b><br><b>T</b> | <p>225 ASK CONSENT FOR RDT TEST FROM PARENT/ADULT.</p> <p>If you want (NAME OF MINOR) to know her HIV status right now, we can do a rapid test and tell you the result. The testing is free and we will offer counselling before and after the test.</p> <p>For the rapid HIV test, we need a few (more) drops of blood from a finger. We will use the same rapid tests used in the hospitals in Zambia. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The result of the test will be available in 20-30 minutes.</p> <p>If the test is positive, I will give (NAME OF MINOR) a referral form to go to the nearest health facility for follow up with health technicians, as is recommended by the Ministry of Health.</p> <p>Do you have any questions?<br/>         You can say yes to the test, or you can say no. It is up to you to decide.<br/>         Will you allow (NAME OF MINOR) to give blood for the rapid HIV test?</p> | <p>If you want (NAME OF MINOR) to know her HIV status right now, we can do a rapid test and tell you the result. The testing is free and we will offer counselling before and after the test.</p> <p>For the rapid HIV test, we need a few (more) drops of blood from a finger. We will use the same rapid tests used in the hospitals in Zambia. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The result of the test will be available in 20-30 minutes.</p> <p>If the test is positive, I will give (NAME OF MINOR) a referral form to go to the nearest health facility for follow up with health technicians, as is recommended by the Ministry of Health.</p> <p>Do you have any questions?<br/>         You can say yes to the test, or you can say no. It is up to you to decide.<br/>         Will you allow (NAME OF MINOR) to give blood for the rapid HIV test?</p> | <p>GRANTED ..... 1<br/>         PARENT/OTHER<br/>         RESPONSIBLE<br/>         ADULT REFUSED ..... 2</p> <p>(SIGN AND ENTER YOUR<br/>         FIELDWORKER NUMBER)</p> <p>NOT PRESENT/OTHER .... 3</p> | <p>GRANTED ..... 1<br/>         PARENT/OTHER<br/>         RESPONSIBLE<br/>         ADULT REFUSED ..... 2</p> <p>(SIGN AND ENTER YOUR<br/>         FIELDWORKER NUMBER)</p> <p>NOT PRESENT/OTHER .... 3</p> | <p>GRANTED ..... 1<br/>         PARENT/OTHER<br/>         RESPONSIBLE<br/>         ADULT REFUSED ..... 2</p> <p>(SIGN AND ENTER YOUR<br/>         FIELDWORKER NUMBER)</p> <p>NOT PRESENT/OTHER .... 3</p> |
|  |  |   |   |   |   |

**MINOR RESPONDENT CONSENT FOR ANEMIA TEST**

|   |   |   |   |
|---|---|---|---|
| <b>M</b><br><b>I</b><br><b>N<br/> <b>O</b><br/> <b>R</b><br/> <b>E</b><br/> <b>S</b><br/> <b>P</b><br/> <b>O</b><br/> <b>N</b><br/> <b>D</b><br/> <b>E</b><br/> <b>N</b><br/> <b>T</b><br/> <b>C</b><br/> <b>O</b><br/> <b>N</b><br/> <b>S</b><br/> <b>E</b><br/> <b>N</b><br/> <b>T</b> </b>   | <p>227 CHECK 220: WAS CONSENT GRANTED?</p> <p>YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##</p>  | <p>YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##</p>   | <p>YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##</p>   |
|   |   |   |   |
| <p>228 ASK CONSENT FOR ANEMIA TEST FROM RESPONDENT.</p> <p>As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia.</p> <p>For the anemia testing, we will need a few drops of blood from a finger. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after we take your blood. The blood will be tested for anemia immediately, and the result will be told to you and (NAME OF PARENT/RESPONSIBLE ADULT) right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team.</p> <p>Do you have any questions?<br/>         You can say yes or no. It is up to you to decide.<br/>         Will you take the anemia test?</p> | <p>GRANTED ..... 1<br/>         MINOR RESPONDENT<br/>         REFUSED ..... 2</p> <p>(SIGN)<br/>         (IF REFUSED, SKIP TO 230)</p> <p>NOT PRESENT/OTHER .... 3<br/>         (SKIP TO 230) ←</p> | <p>GRANTED ..... 1<br/>         MINOR RESPONDENT<br/>         REFUSED ..... 2</p> <p>(SIGN)<br/>         (IF REFUSED, SKIP TO 230)</p> <p>NOT PRESENT/OTHER .... 3<br/>         (SKIP TO 230) ←</p> | <p>GRANTED ..... 1<br/>         MINOR RESPONDENT<br/>         REFUSED ..... 2</p> <p>(SIGN)<br/>         (IF REFUSED, SKIP TO 230)</p> <p>NOT PRESENT/OTHER .... 3<br/>         (SKIP TO 230) ←</p> |
|   |   |   |   |
| <p>229 CIRCLE THE CODE AND SIGN YOUR NAME.</p>  | <p>GRANTED ..... 1<br/>         MINOR RESPONDENT<br/>         REFUSED ..... 2</p> <p>(SIGN)<br/>         (IF REFUSED, SKIP TO 230)</p> <p>NOT PRESENT/OTHER .... 3<br/>         (SKIP TO 230) ←</p> | <p>GRANTED ..... 1<br/>         MINOR RESPONDENT<br/>         REFUSED ..... 2</p> <p>(SIGN)<br/>         (IF REFUSED, SKIP TO 230)</p> <p>NOT PRESENT/OTHER .... 3<br/>         (SKIP TO 230) ←</p> | <p>GRANTED ..... 1<br/>         MINOR RESPONDENT<br/>         REFUSED ..... 2</p> <p>(SIGN)<br/>         (IF REFUSED, SKIP TO 230)</p> <p>NOT PRESENT/OTHER .... 3<br/>         (SKIP TO 230) ←</p> |
|   |   |   |   |
| <p>229A ASK:<br/><br/>         Are you pregnant?</p>  | <p>YES ..... 1<br/>         NO ..... 2<br/>         DON'T KNOW ..... 8</p>  | <p>YES ..... 1<br/>         NO ..... 2<br/>         DON'T KNOW ..... 8</p>  | <p>YES ..... 1<br/>         NO ..... 2<br/>         DON'T KNOW ..... 8</p>  |
|   |   |   |   |

**HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49**

|  |                     | WOMAN 1    | WOMAN 2    | WOMAN 3    |
|--|---------------------|------------|------------|------------|
|  | NAME FROM COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

| <b>MINOR RESPONDENT CONSENT FOR DBS COLLECTION</b>   |  |  |  |  |
|--|--|--|--|--|
| M<br>I<br>N<br>O<br>R<br><br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T<br><br>C<br>O<br>N<br>S<br>E<br>N<br>T | 230 CHECK 222: WAS CONSENT GRANTED?                                    | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##   | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ## | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ## |
|  | 231 ASK CONSENT FOR DBS COLLECTION FROM MINOR RESPONDENT.              | <p>As part of the survey we also are asking people all over the country to give blood for HIV testing. HIV is the virus that can lead to AIDS. The HIV testing is being done to see how many people have HIV.</p> <p>For the HIV testing, we need a few (more) drops of blood from a finger. The blood will be collected on a paper card. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after we take your blood. No names will be written on the paper card so we will not be able to tell you the test results. No one else will be able to know your test results either.</p> <p>Do you have any questions?<br/>         You can say yes or no. It is up to you to decide.<br/>         Will you give blood on a paper card for HIV testing in a laboratory?</p> |  |  |
| C<br>O<br>N<br>S<br>E<br>N<br>T  | 232 CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2   | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2                     | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2                     |
|  |  | (SIGN)<br>(IF REFUSED, SKIP TO 236)  | (SIGN)<br>(IF REFUSED, SKIP TO 236)  | (SIGN)<br>(IF REFUSED, SKIP TO 236)  |
|  |  | NOT PRESENT/OTHER .... 3<br>(SKIP TO 236) ←  | NOT PRESENT/OTHER .... 3<br>(SKIP TO 236) ←                                | NOT PRESENT/OTHER .... 3<br>(SKIP TO 236) ←                                |

| <b>MINOR RESPONDENT CONSENT FOR ADDITIONAL TESTING</b>   |   |  |  |  |
|--|---|--|--|--|
| M<br>I<br>N<br>O<br>R<br><br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T<br><br>C<br>O<br>N<br>S<br>E<br>N<br>T | 233 CHECK 224: WAS CONSENT GRANTED?                           | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##   | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ## | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ## |
|  | 234 ASK CONSENT FOR ADDITIONAL TESTING FROM MINOR RESPONDENT. | <p>We ask you to allow the Ministry of Health to store part of the blood sample at the laboratory for additional tests or research. These additional tests could include tests to see if individuals are protected against diseases such as measles and rubella, or other tests.</p> <p>The blood sample will not have any name or other data attached that could identify you. You do not have to agree. If you do not want the blood sample stored for additional testing, you can still participate in the HIV testing in this survey.</p> <p>Will you allow us to keep the blood sample stored for additional testing?</p> |  |  |
| C<br>O<br>N<br>S<br>E<br>N<br>T  | 235 CIRCLE THE CODE AND SIGN YOUR NAME.                       | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2   | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2                     | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2                     |
|  |   | (SIGN)   | (SIGN)   | (SIGN)   |

**HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49**

|  |                     | WOMAN 1    | WOMAN 2    | WOMAN 3    |
|--|---------------------|------------|------------|------------|
|  | NAME FROM COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

| <b>MINOR RESPONDENT CONSENT FOR RDT TEST</b>  |   |   |   |  |
|---|---|---|---|--|
| MINOR RESPONDENT CONSENT  | 236 CHECK 226: WAS CONSENT GRANTED?   | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##  | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##  | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ## |
|   | 237 ASK CONSENT FOR RDT TEST FROM MINOR RESPONDENT.   | <p>If you want to know your HIV status right now, we can do a rapid test and tell you the result. The testing is free and we will offer counselling before and after the test.</p> <p>For the rapid HIV test, we need a few (more) drops of blood from a finger. We will use the same rapid tests used in the hospitals in Zambia. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The result of the test will be available in 20-30 minutes.</p> <p>If the test is positive, I will give you a referral form to go to the nearest health facility for follow up with health technicians, as is recommended by the Ministry of Health.</p> <p>Do you have any questions?<br/>You can say yes or no. It is up to you to decide.<br/>Will you give blood for the rapid HIV testing?</p> |   |  |
| 238 CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER.   | GRANTED ..... 1<br>MINOR RESPONDENT REFUSED ..... 2<br><br>_____ (SIGN)<br><br>NOT PRESENT/OTHER .... 3   | GRANTED ..... 1<br>MINOR RESPONDENT REFUSED ..... 2<br><br>_____ (SIGN)<br><br>NOT PRESENT/OTHER .... 3   | GRANTED ..... 1<br>MINOR RESPONDENT REFUSED ..... 2<br><br>_____ (SIGN)<br><br>NOT PRESENT/OTHER .... 3   |  |
| 239 PREPARE EQUIPMENT AND SUPPLIES ONLY FOR THE TEST(S) FOR WHICH CONSENT HAS BEEN OBTAINED AND PROCEED WITH THE TEST(S). |   |   |   |  |
| 240 ADDITIONAL TESTS.   | IF ADULT RESPONDENT, CHECK 215; IF MINOR RESPONDENT, CHECK 224 AND 235<br><br>IF CONSENT HAS NOT BEEN GRANTED, WRITE "NO ADDITIONAL TESTS" ON THE FII TFR PAPER   | IF ADULT RESPONDENT, CHECK 215; IF MINOR RESPONDENT, CHECK 224 AND 235<br><br>IF CONSENT HAS NOT BEEN GRANTED, WRITE "NO ADDITIONAL TESTS" ON THE FII TFR PAPER   | IF ADULT RESPONDENT, CHECK 215; IF MINOR RESPONDENT, CHECK 224 AND 235<br><br>IF CONSENT HAS NOT BEEN GRANTED, WRITE "NO ADDITIONAL TESTS" ON THE FII TFR PAPER |  |
| 241 RECORD HEMOGLOBIN LEVEL HERE AND IN ANEMIA PAMPHLET.  | G/DL ..... <input type="text"/> . <input type="text"/><br><br>NOT PRESENT ..... 994<br>REFUSED ..... 995<br>OTHER ..... 996   | G/DL ..... <input type="text"/> . <input type="text"/><br><br>NOT PRESENT ..... 994<br>REFUSED ..... 995<br>OTHER ..... 996   | G/DL ..... <input type="text"/> . <input type="text"/><br><br>NOT PRESENT ..... 994<br>REFUSED ..... 995<br>OTHER ..... 996                                     |  |
| 242 PLACE BAR CODE LABEL.   | <div style="border: 1px dashed black; padding: 5px; text-align: center;">PUT THE 1ST BAR CODE LABEL HERE.</div><br><div style="margin-top: 10px;">NOT PRESENT ..... 99994<br/>REFUSED ..... 99995<br/>OTHER ..... 99996</div><br><div style="margin-top: 10px;">PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM</div> <div style="border: 1px dashed black; padding: 5px; text-align: center;">PUT THE 1ST BAR CODE LABEL HERE.</div><br><div style="margin-top: 10px;">NOT PRESENT ..... 99994<br/>REFUSED ..... 99995<br/>OTHER ..... 99996</div><br><div style="margin-top: 10px;">PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM</div> |   |   |  |

**HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49**

|     |  | WOMAN 1   | WOMAN 2   | WOMAN 3   |
|-----|--|---|---|---|
|     | NAME FROM COLUMN 2.  | NAME _____  | NAME _____  | NAME _____  |
| 243 | RECORD THE RESULT OF THE "DETERMINE HIV RDT" HERE.   | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 246) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 248) ← | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 246) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 248) ← | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 246) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 248) ← |
| 244 | RECORD THE RESULT OF THE "UNIGOLD HIV RDT"   | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 247) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 248) ← | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 247) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 248) ← | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 247) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 248) ← |
| 245 | IF 243 AND 244 ARE POSITIVE, RESPONDENT IS HIV POSITIVE:<br><br>INFORM SURVEY PARTICIPANT ABOUT POSITIVE HIV STATUS AND PROVIDE POST-TEST COUNSELING. AS PART OF POST-TEST COUNSELING, PROVIDE A REFERRAL TO THE NEAREST HEALTH FACILITY WHERE HIV CARE AND TREATMENT SERVICES ARE AVAILABLE.<br><br>SKIP TO 248   |   |   |   |
| 246 | IF 243 IS NEGATIVE, RESPONDENT IS HIV NEGATIVE:<br><br>INFORM THE RESPONDENT OF NEGATIVE TEST RESULT, AND CONDUCT POST-TEST COUNSELING.<br><br>SKIP TO 248   |   |   |   |
| 247 | IF 243 IS POSITIVE AND 244 IS NEGATIVE, RESPONDENT'S HIV STATUS IS INDETERMINATE:<br><br>INFORM THE RESPONDENT OF INDETERMINATE TEST RESULT, AND CONDUCT POST-TEST COUNSELING. AS PART OF POST-TEST COUNSELING, RECOMMEND THAT RESPONDENT IS RETESTED IN 14 DAYS AND PROVIDE A REFERRAL TO THE NEAREST HEALTH FACILITY WHERE HIV TESTING CAN BE CONDUCTED. |   |   |   |
| 248 | WHILE TESTING THIS PERSON, WAS ANY RDT INVALID/DID ANY RDT FAIL TO RUN, THAT IS, THE CONTROL BAND DID NOT APPEAR?  | RDT CONDUCTED,<br>YES ANY INVALID ..... 1<br>RDT CONDUCTED,<br>NONE INVALID ..... 2<br>NO RDT CONDUCTED ..... 3<br>(SKIP TO 251) ←    | RDT CONDUCTED,<br>YES ANY INVALID ..... 1<br>RDT CONDUCTED,<br>NONE INVALID ..... 2<br>NO RDT CONDUCTED ..... 3<br>(SKIP TO 251) ←    | RDT CONDUCTED,<br>YES ANY INVALID ..... 1<br>RDT CONDUCTED,<br>NONE INVALID ..... 2<br>NO RDT CONDUCTED ..... 3<br>(SKIP TO 251) ←    |
| 249 | RECORD NUMBER OF INVALID RESULTS USING "DETERMINE HIV RDT"   | <input type="text"/> <input type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00                                       | <input type="text"/> <input type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00                                       | <input type="text"/> <input type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00                                       |
| 250 | RECORD NUMBER OF INVALID RESULTS USING "UNIGOLD HIV RDT" <small>UCDC</small>   | <input type="text"/> <input type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00                                       | <input type="text"/> <input type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00                                       | <input type="text"/> <input type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00                                       |
| 251 | GO BACK TO 202 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE;<br><br>IF NO MORE WOMEN, GO TO 301  |   |   |   |

**HIV TESTING FOR MEN AGE 15-59**

|     |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| 301 | <b>INTERVIEWER:</b> USE THE APPROPRIATE OPTION FROM THE INTERVIEWER'S MENU TO LIST ALL MEN AGE 15-59 ELIGIBLE FOR BIOMARKER TESTING. IN EACH COLUMN, WRITE THE COMPLETE NAME, AGE AND LINE NUMBER AS THEY APPEAR IN THE REPORT ON YOUR TABLET. ALSO CIRCLE THE APPROPRIATE CODE FOR QUESTION 308. IF THE MAN'S AGE IS 15-17, COMPLETE QUESTION 309 USING THE MARITAL STATUS INFORMATION PRINTED IN THE TABLET'S REPORT. IF THERE ARE MORE THAN THREE WOMEN, USE ADDITIONAL QUESTIONNAIRE(S). |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  | MAN 1  | MAN 2   | MAN 3   |  |  |  |  |  |  |  |  |  |  |  |  |
| 302 | CHECK TABLET'S REPORT:<br><br>WRITE MAN'S AGE<br><br>WRITE MAN'S LINE NUMBER   | NAME _____<br><br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |   |   |  |  | NAME _____<br><br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |  |  |  |  | NAME _____<br><br>AGE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> |  |  |  |  |
|     |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 308 | CIRCLE CODE FOR AGE GROUP:   | 15-17 YEARS ..... 1<br>18-59 YEARS ..... 2<br>(SKIP TO 310) ←  | 15-17 YEARS ..... 1<br>18-59 YEARS ..... 2<br>(SKIP TO 310) ←       | 15-17 YEARS ..... 1<br>18-59 YEARS ..... 2<br>(SKIP TO 310) ←       |  |  |  |  |  |  |  |  |  |  |  |  |
| 309 | CIRCLE CODE FOR MARITAL STATUS:  | CODE 4 (NEVER IN UNION) . 1<br>(SKIP TO 316) ←<br><br>OTHER ..... 2  | CODE 4 (NEVER IN UNION) . 1<br>(SKIP TO 316) ←<br><br>OTHER ..... 2 | CODE 4 (NEVER IN UNION) . 1<br>(SKIP TO 316) ←<br><br>OTHER ..... 2 |  |  |  |  |  |  |  |  |  |  |  |  |

**HIV TESTING FOR MEN AGE 15-59**

|  |   |            |            |            |
|--|---|------------|------------|------------|
|  |   | MAN 1      | MAN 2      | MAN 3      |
|  | NAME FROM COLUMN 2.   | NAME _____ | NAME _____ | NAME _____ |
|  | <b>BIOMARKER:</b> BEFORE PROCEEDING WITH THE CONSENT STATEMENTS, ASK THE RESPONDENT HIS AGE AND MARITAL STATUS TO CONFIRM THE SKIP PATTERN IN Q308/Q309. IF THERE ARE ANY DISCREPANCIES THAT AFFECT THE INFORMED CONSENT PATTERN (MINOR VS. ADULT); GO BACK TO Q308/Q309 AND MAKE CORRECTIONS AND FOLLOW THE NEW SKIP PATTERN. PLEASE INFORM THE INTERVIEWER OF NEEDED ADJUSTMENTS IN THE HOUSEHOLD SCHEDULE (QH07/QH08), IF NECESSARY. |            |            |            |

**ADULT RESPONDENT CONSENT FOR DBS COLLECTION**

|  |  |  |  |  |   |  |  |  |   |  |  |  |
|--|--|--|--|--|---|--|--|--|---|--|--|--|
| A<br>D<br>U<br>L<br>T<br><br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T<br><br>C<br>O<br>N<br>S<br>E<br>N<br>T | 310 ASK CONSENT FOR DBS COLLECTION.<br><br>As part of the survey we also are asking people all over the country to give blood for HIV testing to be done in a laboratory. HIV is the virus that can lead to AIDS. The HIV testing is being done to see how many people have HIV.<br><br>For the HIV testing, we need a few drops of blood from a finger. The blood will be collected on a paper card. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after we take your blood. No names will be written on the paper card so we will not be able to tell you the test results. No one else will be able to know your test results either.<br><br>Do you have any questions?<br>You can say yes or no. It is up to you to decide.<br>Will you give blood on a paper card for HIV testing in a laboratory? |  |  |  |   |  |  |  |   |  |  |  |
| A<br>D<br>U<br>L<br>T<br><br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T<br><br>C<br>O<br>N<br>S<br>E<br>N<br>T | 311 CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER.<br><br>GRANTED ..... 1<br>RESPONDENT REFUSED ... 2<br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>(IF REFUSED, SKIP TO 314)<br><br>NOT PRESENT/OTHER .... 3<br>(SKIP TO 314) ←   |  |  |  | GRANTED ..... 1<br>RESPONDENT REFUSED ... 2<br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>(IF REFUSED, SKIP TO 314)<br><br>NOT PRESENT/OTHER .... 3<br>(SKIP TO 314) ← |  |  |  | GRANTED ..... 1<br>RESPONDENT REFUSED ... 2<br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td></tr></table><br>(IF REFUSED, SKIP TO 314)<br><br>NOT PRESENT/OTHER .... 3<br>(SKIP TO 314) ← |  |  |  |
|  |  |  |  |  |   |  |  |  |   |  |  |  |
|  |  |  |  |  |   |  |  |  |   |  |  |  |
|  |  |  |  |  |   |  |  |  |   |  |  |  |

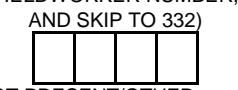
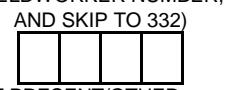
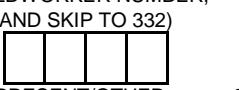
**HIV TESTING FOR MEN AGE 15-59**

|  |                     | MAN 1      | MAN 2      | MAN 3      |
|--|---------------------|------------|------------|------------|
|  | NAME FROM COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

**ADULT RESPONDENT CONSENT FOR ADDITIONAL TESTING**

|   |     |  |
|---|-----|--|
| A<br>D<br>U<br>L<br>T<br><br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T | 312 | <p>ASK CONSENT FOR ADDITIONAL TESTING.</p> <p>We ask you to allow the Ministry of Health to store part of the blood sample at the laboratory for additional tests or research.</p> <p>These additional tests could include tests to see if individuals are protected against diseases such as measles and rubella, or other tests.</p> <p>The blood sample will not have any name or other data attached that could identify you. You do not have to agree. If you do not want the blood sample stored for additional testing, you can still participate in the HIV testing in this survey.</p> <p>Will you allow us to keep the blood sample stored for additional testing?</p> |
| C<br>O<br>N<br>S<br>E<br>N<br>T   | 313 | <p>CIRCLE THE CODE AND SIGN YOUR NAME.</p> <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>(SIGN) </p> <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>(SIGN) </p> <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>(SIGN) </p>   |

**ADULT RESPONDENT CONSENT FOR RDT TEST**

|   |     |   |
|---|-----|---|
| A<br>D<br>U<br>L<br>T<br><br>R<br>E<br>S<br>P<br>O<br>N<br>D<br>E<br>N<br>T | 314 | <p>ASK CONSENT FOR RDT TEST.</p> <p>If you want to know your HIV status right now, we can do a rapid test and tell you the result. The testing is free and we will offer counselling before and after the test.</p> <p>For the rapid HIV test, we need a few (more) drops of blood from a finger. We will use the same rapid tests used in the hospitals in Zambia. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The result of the test will be available in 20-30 minutes.</p> <p>If the test is positive, I will give you a referral form to go to the nearest health facility for follow up with medical personnel, as is recommended by the Ministry of Health.</p> <p>Do you have any questions?<br/>You can say yes or no. It is up to you to decide.<br/>Will you give blood for the rapid HIV testing?</p> |
| C<br>O<br>N<br>S<br>E<br>N<br>T   | 315 | <p>CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER.</p> <p>GRANTED ..... 1<br/>RESPONDENT REFUSED ... 2</p> <p>(SIGN, ENTER YOUR FIELDWORKER NUMBER, AND SKIP TO 332)<br/></p> <p>NOT PRESENT/OTHER .... 3</p> <p>(SIGN, ENTER YOUR FIELDWORKER NUMBER, AND SKIP TO 332)<br/></p> <p>NOT PRESENT/OTHER .... 3</p> <p>(SIGN, ENTER YOUR FIELDWORKER NUMBER, AND SKIP TO 332)<br/></p> <p>NOT PRESENT/OTHER .... 3</p>   |

**HIV TESTING FOR MEN AGE 15-59**

|  |                     | MAN 1      | MAN 2      | MAN 3      |
|--|---------------------|------------|------------|------------|
|  | NAME FROM COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

|     |   |            |            |            |
|-----|---|------------|------------|------------|
| 316 | WRITE THE NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT | NAME _____ | NAME _____ | NAME _____ |
|-----|---|------------|------------|------------|

**PARENTAL/RESPONSIBLE ADULT CONSENT FOR DBS COLLECTION**

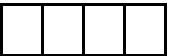
|   |     |  |  |  |   |
|---|-----|--|--|--|---|
| P<br>A<br>R<br>E<br>N<br>T<br><br>—<br>R<br>E<br>S<br>P<br>A<br>D<br>U<br>L<br>T<br><br>C<br>O<br>N<br>S<br>E<br>N<br>T | 317 | ASK CONSENT FOR DBS COLLECTION FROM PARENT/ADULT.  | <p>As part of the survey we also are asking people all over the country to give blood for HIV testing to be done in a laboratory. HIV is the virus that can lead to AIDS. The HIV testing is being done to see how many people have HIV.</p> <p>For the HIV testing, we need a few drops of blood from a finger. The blood will be collected on a paper card. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after we take the blood. No names will be written on the paper card so we will not be able to tell you the results of (NAME OF MINOR)'s test. No one else will be able to know (NAME OF MINOR)'s test results either.</p> <p>Do you have any questions?<br/>         You can say yes or no. It is up to you to decide.<br/>         Will you allow (NAME OF MINOR) to give blood on a paper card for HIV testing in a laboratory?</p> |  |   |
|   | 318 | CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER.  | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2  | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2  | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2 |
|   |     | (SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><input type="text"/> <input type="text"/> <input type="text"/><br><small>(IF REFUSED, SKIP TO 321)</small> | (SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><input type="text"/> <input type="text"/> <input type="text"/><br><small>(IF REFUSED, SKIP TO 321)</small>   | (SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br><input type="text"/> <input type="text"/> <input type="text"/><br><small>(IF REFUSED, SKIP TO 321)</small> |   |
|   |     | NOT PRESENT/OTHER .... 3<br><small>(SKIP TO 321)</small>   | NOT PRESENT/OTHER .... 3<br><small>(SKIP TO 321)</small>   | NOT PRESENT/OTHER .... 3<br><small>(SKIP TO 321)</small>   |   |

**PARENTAL/RESPONSIBLE ADULT CONSENT FOR ADDITIONAL TESTING**

|   |     |   |  |  |  |
|---|-----|---|--|--|--|
| P<br>A<br>R<br>E<br>N<br>T<br><br>—<br>R<br>E<br>S<br>P<br>A<br>D<br>U<br>L<br>T<br><br>C<br>O<br>N<br>S<br>E<br>N<br>T | 319 | ASK CONSENT FOR ADDITIONAL TESTING FROM PARENT/ADULT. | <p>We ask you to allow the Ministry of Health to store part of the blood sample at the laboratory for additional tests or research. These additional tests could include tests to see if individuals are protected against diseases such as measles and rubella, or other tests.</p> <p>The blood sample will not have any name or other data attached that could identify (NAME OF MINOR). You do not have to agree. If you do not want the blood sample stored for additional testing, (NAME OF MINOR) can still participate in the HIV testing in this survey.</p> <p>Will you allow us to keep the blood sample stored for additional testing?</p> |  |  |
|   | 320 | CIRCLE THE CODE AND SIGN YOUR NAME.                   | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br><br><hr style="width: 100px; margin-left: 0;"/> <small>(SIGN)</small>   | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br><br><hr style="width: 100px; margin-left: 0;"/> <small>(SIGN)</small> | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br><br><hr style="width: 100px; margin-left: 0;"/> <small>(SIGN)</small> |

HIV TESTING FOR MEN AGE 15-59

|  |                     | MAN 1      | MAN 2      | MAN 3      |
|--|---------------------|------------|------------|------------|
|  | NAME FROM COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

| <b>PARENTAL/RESPONSIBLE ADULT CONSENT FOR RDT TEST</b> |   |   |   |  |
|--|---|---|---|--|
| PARENT<br>RESPONSIBLE<br>ADULT<br>CONSENT              | 321 ASK CONSENT FOR RDT TEST FROM PARENT/ADULT.                         | <p>If you want (NAME OF MINOR) to know his HIV status right now, we can do a rapid test and tell you the result. The testing is free and we will offer counselling before and after the test.</p> <p>For the rapid HIV test, we need a few (more) drops of blood from a finger. We will use the same rapid tests used in the hospitals in Zambia. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The result of the test will be available in 20-30 minutes.</p> <p>If the test is positive, I will give (NAME OF MINOR) a referral form to go to the nearest health facility for follow up with health technicians, as is recommended by the Ministry of Health.</p> <p>Do you have any questions?<br/>           You can say yes to the test, or you can say no. It is up to you to decide.<br/>           Will you allow (NAME OF MINOR) to give blood for the rapid HIV test?</p> |   |  |
|  | 322 CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER. | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br>  | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br> | GRANTED ..... 1<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br><br>(SIGN AND ENTER YOUR FIELDWORKER NUMBER)<br> |
|  |   | NOT PRESENT/OTHER .... 3  | NOT PRESENT/OTHER .... 3  | NOT PRESENT/OTHER .... 3   |

| <b>MINOR RESPONDENT CONSENT FOR DBS COLLECTION</b> |   |  |  |  |
|--|---|--|--|--|
| MINOR<br>RESPONDENT<br>CONSENT                     | 323 CHECK 318: WAS CONSENT GRANTED?                       | YES <input type="checkbox"/> NO OR <input type="checkbox"/><br>NOT ASKED   | YES <input type="checkbox"/> NO OR <input type="checkbox"/><br>NOT ASKED                       | YES <input type="checkbox"/> NO OR <input type="checkbox"/><br>NOT ASKED                       |
|  | 324 ASK CONSENT FOR DBS COLLECTION FROM MINOR RESPONDENT. | <p>As part of the survey we also are asking people all over the country to give blood for HIV testing to be done in a laboratory. HIV is the virus that can lead to AIDS. The HIV testing is being done to see how many people have HIV.</p> <p>For the HIV testing, we need a few drops of blood from a finger. The blood will be collected on a paper card. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after we take your blood. No names will be written on the paper card so we will not be able to tell you the test results. No one else will be able to know your test results either.</p> <p>Do you have any questions?<br/>           You can say yes or no. It is up to you to decide.<br/>           Will you give blood on a paper card for HIV testing in a laboratory?</p> |  |  |
|  | 325 CIRCLE THE CODE AND SIGN YOUR NAME.                   | GRANTED ..... 1<br>MINOR RESPONDENT REFUSED ..... 2<br><br>(SIGN)<br>(IF REFUSED, SKIP TO 329)   | GRANTED ..... 1<br>MINOR RESPONDENT REFUSED ..... 2<br><br>(SIGN)<br>(IF REFUSED, SKIP TO 329) | GRANTED ..... 1<br>MINOR RESPONDENT REFUSED ..... 2<br><br>(SIGN)<br>(IF REFUSED, SKIP TO 329) |
|  | NOT PRESENT/OTHER .... 3<br>(SKIP TO 329) ←               | NOT PRESENT/OTHER .... 3<br>(SKIP TO 329) ←  | NOT PRESENT/OTHER .... 3<br>(SKIP TO 329) ←  |  |

HIV TESTING FOR MEN AGE 15-59

|  |                        | MAN 1      | MAN 2      | MAN 3      |
|--|------------------------|------------|------------|------------|
|  | NAME FROM<br>COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

| <b>MINOR RESPONDENT CONSENT FOR ADDITIONAL TESTING</b> |     |   |  |  |  |
|--|-----|---|--|--|--|
| MINOR RESPONDENT                                       | 326 | CHECK 320: WAS CONSENT GRANTED?                           | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##   | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ## |  |
|  | 327 | ASK CONSENT FOR ADDITIONAL TESTING FROM MINOR RESPONDENT. | <p>We ask you to allow the Ministry of Health to store part of the blood sample at the laboratory for additional tests or research. These additional tests could include tests to see if individuals are protected against diseases such as measles and rubella, or other tests.</p> <p>The blood sample will not have any name or other data attached that could identify you. You do not have to agree. If you do not want the blood sample stored for additional testing, you can still participate in the HIV testing in this survey.</p> <p>Will you allow us to keep the blood sample stored for additional testing?</p> |  |  |
|  | 328 | CIRCLE THE CODE AND SIGN YOUR NAME.                       | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2   | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2                     | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2 |
|  |     | (SIGN) ←  | (SIGN) ←   | (SIGN) ←   |  |

|  |                     | MAN 1      | MAN 2      | MAN 3      |
|--|---------------------|------------|------------|------------|
|  | NAME FROM COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

| <b>MINOR RESPONDENT CONSENT FOR RDT TEST</b> |     |   |   |   |   |
|--|-----|---|---|---|---|
| <b>MINOR RESPONDENT</b>                      | 329 | CHECK 322: WAS CONSENT GRANTED?                                     | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##  | YES <input type="checkbox"/> NO OR <input type="checkbox"/> NOT ASKED → ##                      |   |
|  | 330 | ASK CONSENT FOR RDT TEST FROM MINOR RESPONDENT.                     | <p>If you want to know your HIV status right now, we can do a rapid test and tell you the result. The testing is free and we will offer counselling before and after the test.</p> <p>For the rapid HIV test, we need a few (more) drops of blood from a finger. We will use the same rapid tests used in the hospitals in Zambia. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The result of the test will be available in 20-30 minutes.</p> <p>If the test is positive, I will give you a referral form to go to the nearest health facility for follow up with health technicians, as is recommended by the Ministry of Health.</p> <p>Do you have any questions?<br/>           You can say yes or no. It is up to you to decide.<br/>           Will you give blood for the rapid HIV testing?</p> |   |   |
| <b>SENT</b>                                  | 331 | CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER. | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2<br><br>_____<br>NOT PRESENT/OTHER .... 3   | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2<br><br>_____<br>NOT PRESENT/OTHER .... 3 | GRANTED ..... 1<br>MINOR RESPONDENT<br>REFUSED ..... 2<br><br>_____<br>NOT PRESENT/OTHER .... 3 |

**HIV TESTING FOR MEN AGE 15-59**

|  |                        | MAN 1      | MAN 2      | MAN 3      |
|--|------------------------|------------|------------|------------|
|  | NAME FROM<br>COLUMN 2. | NAME _____ | NAME _____ | NAME _____ |

|     |   |  |  |  |
|-----|---|--|--|--|
| 332 | PREPARE EQUIPMENT AND SUPPLIES ONLY FOR THE TEST(S) FOR WHICH CONSENT HAS BEEN OBTAINED AND PROCEED WITH THE TEST(S). |  |  |  |
| 333 | ADDITIONAL TESTS.   | IF ADULT RESPONDENT, CHECK 313; IF MINOR RESPONDENT, CHECK 320 AND 328.<br><br>IF CONSENT HAS NOT BEEN GRANTED, WRITE "NO ADDITIONAL TESTS" ON THE FILTER PAPER.   | IF ADULT RESPONDENT, CHECK 313; IF MINOR RESPONDENT, CHECK 320 AND 328.<br><br>IF CONSENT HAS NOT BEEN GRANTED, WRITE "NO ADDITIONAL TESTS" ON THE FILTER PAPER.   | IF ADULT RESPONDENT, CHECK 313; IF MINOR RESPONDENT, CHECK 320 AND 328.<br><br>IF CONSENT HAS NOT BEEN GRANTED, WRITE "NO ADDITIONAL TESTS" ON THE FILTER PAPER.   |
| 334 | PLACE BAR CODE LABEL.   | <p>PUT THE 1ST BAR CODE LABEL HERE.</p> <p>NOT PRESENT ..... 99994<br/>REFUSED ..... 99995<br/>OTHER ..... 99996</p> <p>PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM.</p> | <p>PUT THE 1ST BAR CODE LABEL HERE.</p> <p>NOT PRESENT ..... 99994<br/>REFUSED ..... 99995<br/>OTHER ..... 99996</p> <p>PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM.</p> | <p>PUT THE 1ST BAR CODE LABEL HERE.</p> <p>NOT PRESENT ..... 99994<br/>REFUSED ..... 99995<br/>OTHER ..... 99996</p> <p>PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM.</p> |

**HIV TESTING FOR MEN AGE 15-59**

|     |  | MAN 1   | MAN 2   | MAN 3   |
|-----|--|---|---|---|
|     | NAME FROM COLUMN 2.  | NAME _____  | NAME _____  | NAME _____  |
| 335 | RECORD THE RESULT OF THE "DETERMINE HIV RDT" HERE.   | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 338) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 340) ←   | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 338) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 340) ←   | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 338) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 340) ←   |
| 336 | RECORD THE RESULT OF THE "UNIGOLD HIV RDT"   | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 339) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 340) ←   | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 339) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 340) ←   | POSITIVE ..... 1<br>NEGATIVE ..... 2<br>(SKIP TO 339) ←<br>NOT PRESENT ..... 3<br>REFUSED ..... 4<br>OTHER ..... 5<br>(SKIP TO 340) ←   |
| 337 | IF 335 AND 336 ARE POSITIVE, RESPONDENT IS HIV POSITIVE:<br><br>INFORM SURVEY PARTICIPANT ABOUT POSITIVE HIV STATUS AND PROVIDE POST-TEST COUNSELING. AS PART OF POST-TEST COUNSELING, PROVIDE A REFERRAL TO THE NEAREST HEALTH FACILITY WHERE HIV CARE AND TREATMENT SERVICES ARE AVAILABLE.<br><br>SKIP TO 340   |   |   |   |
| 338 | IF 335 IS NEGATIVE, RESPONDENT IS HIV NEGATIVE:<br><br>INFORM THE RESPONDENT OF NEGATIVE TEST RESULT, AND CONDUCT POST-TEST COUNSELING.<br><br>SKIP TO 340   |   |   |   |
| 339 | IF 335 IS POSITIVE AND 336 IS NEGATIVE, RESPONDENT'S HIV STATUS IS INDETERMINATE:<br><br>INFORM THE RESPONDENT OF INDETERMINATE TEST RESULT, AND CONDUCT POST-TEST COUNSELING. AS PART OF POST-TEST COUNSELING, RECOMMEND THAT RESPONDENT IS RETESTED IN 14 DAYS AND PROVIDE A REFERRAL TO THE NEAREST HEALTH FACILITY WHERE HIV TESTING CAN BE CONDUCTED. |   |   |   |
| 340 | WHILE TESTING THIS PERSON, WAS ANY RDT INVALID/DID ANY RDT FAIL TO RUN, THAT IS, THE CONTROL BAND  | RDT CONDUCTED,<br>YES ANY INVALID ..... 1<br>RDT CONDUCTED,<br>NONE INVALID ..... 2<br>NO RDT CONDUCTED ..... 3<br>(SKIP TO 343) ←  | RDT CONDUCTED,<br>YES ANY INVALID ..... 1<br>RDT CONDUCTED,<br>NONE INVALID ..... 2<br>NO RDT CONDUCTED ..... 3<br>(SKIP TO 343) ←  | RDT CONDUCTED,<br>YES ANY INVALID ..... 1<br>RDT CONDUCTED,<br>NONE INVALID ..... 2<br>NO RDT CONDUCTED ..... 3<br>(SKIP TO 343) ←  |
| 341 | RECORD NUMBER OF INVALID RESULTS USING "DETERMINE HIV RDT"   | <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00 | <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00 | <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00 |
| 342 | RECORD NUMBER OF INVALID RESULTS USING "UNIGOLD HIV RDT"   | <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00 | <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00 | <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black; vertical-align: middle;" type="text"/><br>RECORD NUMBER OF INVALID RESULTS, IF NONE ENTER 00 |
| 343 | GO BACK TO 302 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE;<br><br>IF NO MORE MEN, END INTERVIEW.   |   |   |   |

**FIELDWORKER'S OBSERVATIONS**  
TO BE FILLED IN AFTER COMPLETING BIOMARKERS

### SUPERVISOR'S OBSERVATIONS

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## EDITOR'S OBSERVATIONS

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## ADDITIONAL DHS PROGRAM RESOURCES

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| <b>The DHS Program Website</b> – Download free DHS reports, standard documentation, key indicator data, and training tools, and view announcements.            | DHSprogram.com  |    |   |
| <b>STATcompiler</b> – Build custom tables, graphs, and maps with data from 90 countries and thousands of indicators.   | Statcompiler.com  |    |   |
| <b>DHS Program Mobile App</b> – Access key DHS indicators for 90 countries on your mobile device (Apple, Android, or Windows).                                 | Search DHS Program in your iTunes or Google Play store                              |    |   |
| <b>DHS Program User Forum</b> – Post questions about DHS data, and search our archive of FAQs.   | userforum.DHSprogram.com  |    |   |
| <b>Tutorial Videos</b> – Watch interviews with experts and learn DHS basics, such as sampling and weighting, downloading datasets, and how to read DHS tables. | www.youtube.com/DHSProgram  |   |   |
| <b>Datasets</b> – Download DHS datasets for analysis.  | DHSprogram.com/Data   |    |   |
| <b>Spatial Data Repository</b> – Download geographically-linked health and demographic data for mapping in a geographic information system (GIS).              | spatialdata.DHSprogram.com  |    |   |
| <b>Social Media</b> – Follow The DHS Program and join the conversation. Stay up to date through:   |   |   |   |
|  <b>Facebook</b><br>www.facebook.com/DHSprogram                             |  |  <b>LinkedIn</b><br>www.linkedin.com/company/dhs-program |  |
|  <b>YouTube</b><br>www.youtube.com/DHSprogram                               |  |  <b>Blog</b><br>Blog.DHSprogram.com                      |  |
|  <b>Twitter</b><br>www.twitter.com/<br>DHSprogram                           |  |   |   |