NUTRITION OF CHILDREN AND ADULTS

Table 11.1 Nutritional status of children

Percentage of children under five years classified as malnourished according to three anthropometric indices of nutritional status: height-for-age, weight-for-height, and weight-for-age, by background characteristics, Model DHS 6 data

	He	eight-for-age ¹		Weight-for-height				Weight-for-age				
Background characteristic	Percent- age below -3 SD	Percent- age below -2 SD ²	Mean Z- score (SD)	Percent- age below -3 SD	Percent- age below -2 SD ²	Percent- age above +2 SD	Mean Z- score (SD)	Percent- age below -3 SD	Percent- age below -2 SD ²	Percent- age above +2 SD	Mean Z- score (SD)	Number of children
Age in months												
- 6	7.6	13.7	-0.5	2.7	8.6	16.0	0.4	3.7	8.1	8.8	-0.2	184
6-8	7.4	21.2	-0.5	5.8	13.9	9.4	-0.2	4.9	17.7	2.9	-0.6	133
9-11	11.7	28.5	-1.1	5.2	18.8	9.1	-0.5	4.9	25.9	1.8	-1.0	118
12-17	14.3	34.0	-1.2	6.0	13.4	6.7	-0.3	9.5	18.6	2.6	-0.8	261
18-23 24-35	16.6 22.4	48.9 44.7	-1.5 -1.5	4.2 4.3	16.9 7.7	8.6 6.7	-0.2 0.1	4.9 5.0	18.3 15.4	3.9 2.7	-0.9 -0.8	184 467
36-47	17.2	43.4	-1.6	3.4	9.1	6.1	0.0	5.6	17.9	1.1	-0.0	597
48-59	13.4	29.4	-1.4	3.5	6.7	6.5	0.0	3.3	11.9	0.6	-0.9	550
Sex												
Male	16.8	35.6	-1.4	5.2	11.9	6.3	-0.2	6.6	18.0	2.2	-0.9	1,217
Female	14.2	36.2	-1.3	3.0	8.2	8.8	0.1	3.7	13.7	2.5	-0.7	1,277
Birth interval in months ³												
First birth ⁴	14.3	32.7	-1.3	4.1	9.6	9.3	0.0	4.0	17.5	3.2	-0.8	423
<24 24-47	20.8	46.8	-1.6	3.8 4.3	10.7	10.1 7.5	-0.0 -0.0	6.1 5.0	18.1 15.7	1.8 2.5	-1.0	229 865
24-47 48+	16.2 13.2	36.9 32.5	-1.4 -1.2	4.3 2.5	11.0 9.4	7.5 7.9	0.0	5.0 4.2	11.8	2.3	-0.8 -0.7	497
Size at birth ³												
Very small	24.3	49.1	-1.7	2.9	16.3	5.6	-0.4	10.3	28.7	1.6	-1.3	93
Small	15.2	38.1	-1.4	3.8	10.6	8.8	-0.2	6.3	17.4	2.1	-0.9	238
Average or larger	15.2	35.2	-1.3	3.7	9.9	8.4	0.1	4.2	14.3	2.6	-0.7	1,645
Missing	(15.0)	(29.5)	1.2	(8.8)	(9.6)	(4.1)	0.4	(5.1)	(19.2)	(3.6)	0.9	36
Mother's interview status	45.0	00.4	4.0	0.0	40.0	0.0	0.0	4 7	45.4	0.5	0.0	0.040
Interviewed Not interviewed but in	15.6	36.1	-1.3	3.8	10.3	8.3	-0.0	4.7	15.4	2.5	-0.8	2,013
household	15.3	30.7	-1.4	6.8	11.6	8.1	-0.1	6.3	14.3	3.9	-0.9	57
Not interviewed and not in the	10.0	00.7		0.0	11.0	0.1	0.1	0.0	11.0	0.0	0.0	01
household ⁵	15.0	35.8	-1.4	5.2	8.7	4.2	-0.1	6.9	18.1	1.3	-0.9	424
Mother's nutritional status ⁶												
Thin (BMI<18.5)	16.3	36.7	-1.6	2.5	14.0	6.1	-0.2	8.0	17.8	0.9	-1.1	132
Normal (BMI 18.5-24.9)	16.6	36.6	-1.3	3.2	9.7	7.9	0.0	4.5	15.5	2.8	-0.8	1,338
Overweight/ obese (BMI ≥ 25)	12.4	34.6	-1.3	4.7	9.3	10.5	0.1	3.9	12.3	2.1	-0.7	290
Residence Urban	10.3	30.0	-1.1	4.5	11.1	7.0	-0.1	4.4	13.0	1.9	-0.7	768
Rural	17.8	38.5	-1.4	3.9	9.6	7.9	0.0	5.5	17.1	2.5	-0.7	1,726
Region												
Region 1	14.0	33.7	-1.2	5.4	11.4	6.4	-0.2	6.3	17.5	2.8	-0.8	1,070
Region 2	18.5	40.8	-1.5	3.7	9.6	8.8	0.1	5.6	16.6	2.1	-0.8	544
Region 3	10.5	30.0	-1.1	2.9	9.9	7.5	0.1	2.8	11.3	3.2	-0.6	353
Region 4	18.6	39.3	-1.6	2.7	7.8	8.8	0.1	3.8	14.7	1.0	-0.9	527
Mother's education	40.0	27.0	4.4	2.0	0.4	7.0	0.0	4.0	110	2.0	0.0	1 105
No education Primary	18.3 10.8	37.9 32.6	-1.4 -1.2	3.0 4.9	9.4 13.8	7.9 7.5	0.0 -0.2	4.8 6.0	14.9 17.3	2.8 1.5	-0.8 -0.8	1,425 276
Secondary or higher	8.7	30.6	-1.2	6.3	11.1	10.3	-0.2	3.8	15.7	2.6	-0.8 -0.7	369
Wealth guintile												
Lowest	18.7	40.8	-1.5	4.5	8.4	9.3	0.1	6.3	17.0	3.4	-0.8	565
Second	16.8	37.8	-1.4	3.9	11.0	7.1	-0.1	5.8	17.3	1.4	-0.9	594
Middle	16.7	36.9	-1.4	4.8	12.5	6.3	-0.0	6.0	18.3	3.2	-0.9	567
Fourth	12.4	31.6	-1.2	3.3	8.3	7.1	-0.1	3.0	13.5	1.4	-0.8	485
Highest	9.1	27.5	-1.0	3.3	9.3	8.8	0.1	3.2	9.6	2.2	-0.5	283
Total	15.5	35.9	-1.3	4.1	10.0	7.6	-0.0	5.1	15.8	2.3	-0.8	2,494

Note: Table is based on children who stayed in the household on the night before the interview. Each of the indices is expressed in standard deviation units (SD) from the median of the WHO Child Growth Standards adopted in 2006. The indices in this table are NOT comparable to those based on the previously used NCHS/CDC/WHO reference. Table is based on children with valid dates of birth (month and year) and valid measurement of both height and weight. Figures in parentheses are based on 25-49 unweighted cases.

Recumbent length is measured for children under age 2, or in the few cases when the age of the child is unknown and the child is less than 85 cm; standing height is

measured for all other children.

² Includes children who are below -3 standard deviations (SD) from the WHO Child Growth standards population median

³ Excludes children whose mothers were not interviewed

First-born twins (triplets, etc.) are counted as first births because they do not have a previous birth interval lincludes children whose mothers are deceased

⁶ Excludes children whose mothers were not weighed and measured, children whose mothers were not interviewed, and children whose mothers are pregnant or gave birth within the preceding 2 months. Mother's nutritional status in terms of BMI (Body Mass Index) is presented in Table 11.10.1.

⁷ 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 two years preceding the survey, the percentage who were ever breastfed and the percentages who started breastfeeding within one hour and within one day of birth; and among last-born children born in the two years preceding the survey who were ever breastfed, the percentage who received a prelacteal feed, by background characteristics, Model DHS 6 data

	Among	last-born children	Among last-born children born in the past two years who were ever breastfed:			
Background characteristic	Percentage ever breastfed	Percentage who started breastfeeding within 1 hour of birth	Percentage who started breastfeeding within 1 day of birth ¹	Number of last- born children	Percentage who received a prelacteal feed ²	Number of last- born children ever breastfed
Sex Male Female	97.0 97.5	51.8 51.3	87.4 88.6	1,138 1,181	21.9 24.3	1,104 1,151
Assistance at delivery Health professional ³ Traditional birth attendant Other No one Missing	96.8 98.3 98.8 *	47.0 60.7 48.2 *	86.3 91.6 90.1 *	1,477 776 58 4 3	23.6 21.9 26.2	1,430 763 58 4 0
Place of delivery Health facility At home Other Missing	96.6 98.5 *	46.6 58.7 *	86.5 90.6 *	1,353 957 5 4	22.5 24.0 *	1,307 943 5 0
Residence Urban Rural	95.6 98.1	43.1 56.0	81.9 91.3	796 1,523	25.4 21.9	761 1,494
Region Region 1 Region 2 Region 3 Region 4	98.0 97.1 94.9 98.0	70.3 47.3 37.4 33.3	91.3 89.4 79.0 88.8	918 467 449 485	23.2 24.6 29.5 15.8	900 453 426 475
Mother's education No education Primary Secondary or higher	98.3 96.5 95.0	54.7 52.5 42.0	91.5 85.9 79.9	1,446 362 511	22.5 23.1 24.9	1,421 349 485
Wealth quintile Lowest Second Middle Fourth Highest Total	97.5 98.3 97.5 97.1 95.3 97.2	53.1 56.2 57.8 51.1 34.6 51.6	90.7 91.2 90.5 86.2 78.4 88.1	524 494 502 444 354 2,319	20.1 20.0 24.7 29.4 21.6 23.1	511 486 490 431 337 2,255

Note: Table is based on last-born children born in the two years preceding the survey regardless of whether the children are living or dead at the time of interview. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

1 Includes children who started breastfeeding within one hour of birth

2 Children given something other than breast milk during the first three days of life

3 Doctor, nurse/midwife, or auxiliary midwife

Table 11.3 Breastfeeding status by age

Percent distribution of youngest children under two years who are living with their mother by breastfeeding status and the percentage currently breastfeeding; and the percentage of all children under two years using a bottle with a nipple, according to age in months, Model DHS 6 data

			Brea	stfeeding s	tatus						
	Not breast-	Exclu- sively	Breast- feeding and consu- ming plain	Breast- feeding and consu- ming non milk	Breast- feeding and consu- ming other	Breast- feeding and consu- ming comple- mentary	-	Percent- age currently breast-	Number of youngest child under two years living with their	Percent- age using a bottle with a	Number of all children under two
Age in months	feeding	breastfed	water only	liquids ¹	milk	foods	Total	feeding	mother	nipple	years
0-1 2-3 4-5 6-8 9-11 12-17 18-23	3.2 2.0 5.4 7.2 8.6 18.6 47.0	42.4 31.6 23.6 8.8 4.0 1.3 0.5	34.7 32.7 24.1 17.2 6.9 2.7 0.9	12.2 17.3 11.6 4.4 4.1 0.8 0.5	2.4 8.9 6.9 3.1 1.5 0.1	5.0 7.6 28.4 59.4 74.9 76.6 51.1	100.0 100.0 100.0 100.0 100.0 100.0 100.0	96.8 98.0 94.6 92.8 91.4 81.4 53.0	159 236 195 310 258 582 365	14.0 25.9 24.6 22.5 19.5 13.0 7.5	167 237 202 314 271 603 421
0-3 0-5 6-9 12-15 12-23 20-23	2.5 3.4 6.6 14.8 29.5 52.4	36.0 31.9 8.1 1.6 1.0 0.7	33.5 30.4 14.6 3.4 2.0 0.3	15.2 14.0 4.7 1.0 0.7 0.9	6.3 6.5 3.3 0.1 0.1 0.0	6.5 13.8 62.8 79.0 66.7 45.8	100.0 100.0 100.0 100.0 100.0 100.0	97.5 96.6 93.4 85.2 70.5 47.6	395 590 395 401 947 208	21.0 22.2 21.7 13.0 10.8 7.7	404 606 405 415 1,024 245

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 semi-solids) are hierarchical and mutually exclusive, and their percentages add to 100 percent. 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.

¹ Non-milk liquids include juice, juice drinks, clear broth or other liquids

Table 11.4 Median duration of breastfeeding

Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among children born in the three years preceding the survey, by background characteristics, Model DHS 6 data

Median duration (months) of breastfeeding among children born in the past three years1 Predominant Any breast-Background Exclusive breastfeeding breastfeeding feeding² characteristic Sex 18.6 Male 5.2 Female 19.5 4.9 Residence Urban 17.0 3.5 а Rural 20.5 а 5.8 Region Region 1 Region 2 1.2 19.8 5.5 5.6 18.8 а Region 3 16.1 2.9 а Region 4 21.5 5.5 а Mother's education No education 20.6 5.2 а Primary Secondary or higher 19.3 а 5.1 15.9 а 3.9 Wealth quintile Lowest 21.6 5.7 а Second 20.3 5.8 Middle 18.7 5.2 (0.9)Fourth 20.2 5.0 а Highest 2.9 15.3 а Total 19.2 а 5.0 Mean for all children 18.6 2.8 6.2

Note: Median and mean durations are based on the distributions at the time of the survey of the proportion of births by months since birth. Includes children living and deceased at the time of the survey. Figures in parentheses are based on 25-49 unweighted cases.

1 It is assumed that non-last-born children and last-born children not currently

living with the mother are not currently breastfeeding ² Either exclusively breastfed or received breast milk and plain water, and/or

non-milk liquids only

Table 11.5 Foods and liquids consumed by children in the day or night preceding the interview

Percentage of youngest children under two years of age who are living with the mother by type of foods consumed in the day or night preceding the interview, according to breastfeeding status and age, Model DHS 6 data

		Liquids					Solid o	r semi-so	lid foods					
Age in months	Infant formula	Other milk ¹	Other liquids ²	Fortified baby foods	Food made from grains ³	Fruits and vege- tables rich in vitamin A ⁴	Other fruits and vege-tables	Food made from roots and tubers	Food made from legumes and nuts	Meat, fish, poultry	Eggs	Cheese, yogurt, other milk product	Any solid or semi- solid food	Number of children
					BR	EASTFE	EDING C	HILDREN	1					
0-1 2-3 4-5 6-8 9-11 12-17 18-23 6-23	2.9 9.7 7.7 11.5 5.2 4.7 1.4 5.9 6.3	0.9 4.0 3.7 11.0 7.6 8.0 7.6 8.6 6.8	15.3 20.8 20.5 19.1 28.0 24.5 22.1 23.5 22.1	0.4 2.9 13.4 28.7 22.4 16.3 13.3 20.0	4.6 1.2 13.1 31.1 53.3 72.5 74.0 58.9 41.8	1.6 1.8 3.7 13.9 25.4 39.2 51.3 32.3 22.6	0.4 1.4 0.8 3.7 7.9 15.6 11.2 10.5 7.4	1.2 0.0 1.3 7.7 10.9 22.4 23.2 16.7 11.5	0.4 0.4 1.0 5.7 11.8 17.0 17.0 13.2 9.1	0.4 1.4 2.1 9.0 17.5 32.7 40.3 25.2 17.5	0.4 1.2 2.1 4.0 7.9 10.8 11.2 8.7 6.3	0.4 1.4 0.5 1.7 5.7 5.5 2.7 4.1 3.1	5.2 7.7 30.0 63.9 81.9 94.0 96.4 84.8 62.0	154 231 185 288 236 474 194 1,192
					NON	BREASTF	EEDING	CHILDR	EN					
0-1 2-3 4-5 6-8 9-11	(9.5)	* * (18.3) *	* * (25.2)	* * (31.3)	* * * (60.8)	* * (24.9)	* * * (4.2)	* * (7.9) *	* * (22.1)	* * (20.5)	* * * (22.6) *	* * (14.8)	* * (79.5)	5 5 10 22 22
12-17 18-23 6-23	7.8 8.7 8.9	17.5 14.8 16.4	37.7 37.4 36.3	16.7 14.2 16.8	77.2 81.1 76.7	49.3 60.6 52.4	17.9 17.5 16.9	28.8 30.3 26.8	20.5 25.2 23.5	44.8 51.8 45.5	13.8 16.5 15.9	5.1 8.3 8.1	91.0 98.3 92.6	108 172 324
Total	9.9	16.8	34.1	16.1	72.4	49.6	16.2	25.5	22.1	42.8	14.9	7.6	87.8	345

Note: 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.

Other milk includes fresh, tinned and powdered cow or other animal milk
 Doesn't include plain water

³ Includes fortified baby food

⁴ Includes pumpkin, carrots, sweet potatoes that are yellow inside, dark green leafy vegetables, mangoes, papayas, and other locally grown fruits and vegetables that are rich in vitamin A

Table 11.6 Infant and young child feeding (IYCF) practices

Percentage of youngest children age 6-23 months living with their mother who are fed according to three IYCF feeding practices based on breastfeeding status, number of food groups, and times they are fed during the day or night preceding the survey, by background characteristics, Model DHS 6 data

_		breastfed of					stfed child rcentage f			Among		en 6-23 m age fed:	ionths,	
Background characteristic	4+ food groups ¹	Minimum meal fre- quency ²	Both 4+ food groups and minimum meal frequency	Number of breast- fed children 6-23 months	Milk or milk products ³		Minimum meal fre- quency ⁴	With 3 IYCF practices ⁵	Number of non- breast- fed children 6-23 months	Breast milk, milk, or milk products ⁶	4+ food groups ¹	Minimum meal fre- quency ⁷	With 3 IYCF practices	Number of all children 6-23 months
Age in months 6-8 9-11 12-17 18-23	5.0 10.8 18.6 22.6	56.5 33.2 41.5 48.2	4.1 3.6 12.3 12.1	288 236 474 194	(24.7) * 15.5 16.2	(22.6) * 29.9 35.5	(26.4) * 18.3 29.6	(14.5) * 1.5 9.5	22 22 108 172	94.6 93.4 84.3 60.6	6.3 11.6 20.7 28.7	54.3 33.3 37.2 39.5	4.9 4.4 10.3 10.9	310 258 582 365
Sex Male Female	12.2 16.5	45.1 44.0	7.1 10.0	586 606	18.4 15.6	33.4 30.0	24.4 27.5	7.3 7.5	163 161	82.2 82.3	16.8 19.4	40.6 40.6	7.1 9.5	749 767
Residence Urban Rural	19.9 12.0	55.6 39.8	13.8 6.3	358 833	32.6 3.1	42.1 22.5	36.6 16.4	14.2 1.3	153 171	79.8 83.5	26.5 13.8	49.9 35.8	13.9 5.5	511 1,005
Region Region 1 Region 2 Region 3 Region 4	14.9 11.9 26.7 7.3	35.5 54.9 55.2 45.4	8.1 8.4 18.9 2.7	504 229 184 274	11.2 5.6 35.7 5.8	32.0 18.5 46.6 18.6	30.0 16.8 36.1 9.3	1.6 2.2 19.2 1.8	101 68 104 51	85.1 78.4 76.8 85.3	17.8 13.4 33.9 9.1	34.6 46.2 48.3 39.7	7.0 7.0 19.0 2.6	606 298 288 325
Mother's education No education Primary Secondary or higher	12.9 17.7 16.9	41.9 47.4 51.3	7.4 11.4 10.3	782 178 232	10.5 (2.7) 34.1	22.9 (39.7) 44.3	18.9 (13.6) 43.3	3.7 (0.0) 16.8	182 40 103	83.1 82.2 79.8	14.8 21.7 25.3	37.6 41.2 48.8	6.7 9.3 12.3	964 218 335
Wealth quintile Lowest Second Middle Fourth Highest	10.5 10.1 9.9 23.2 23.7	34.6 41.6 43.9 49.2 64.3	4.8 6.0 5.8 12.7 19.3	297 255 259 240 140	1.8 3.6 11.7 9.6 42.5	10.4 18.5 37.4 27.0 50.8	6.2 19.4 22.2 18.2 49.5	0.3 0.0 3.0 1.9 22.7	57 49 70 58 91	84.3 84.6 81.2 82.4 77.4	10.5 11.4 15.8 23.9 34.3	30.1 38.0 39.3 43.2 58.5	4.1 5.0 5.2 10.6 20.6	354 304 329 298 231
Total	14.4	44.6	8.6	1,192	17.0	31.7	25.9	7.4	324	82.3	18.1	40.6	8.3	1,516

¹ Food groups: a. infant formula, milk other than breast milk, cheese or yogurt or other milk products; b. foods made from grains, roots, and tubers, including porridge and fortified baby food from grains; c. vitamin A-rich fruits and vegetables (and red palm oil); d. other fruits and vegetables; e. eggs; f. meat, poultry, fish, and shellfish (and organ meats); g. legumes and nuts.

² For breastfed children, minimum meal frequency is receiving solid or semi-solid food at least twice a day for infants 6-8 months and at least three times a day for children 9-23 months

³ Includes two or more feedings of commercial infant formula, fresh, tinned, and powdered animal milk, and yogurt

⁴ For non-breastfed children age 6-23 months, minimum meal frequency is receiving solid or semi-solid food or milk feeds at least four times a day

⁵ Non-breastfed children age 6-23 months are considered to be fed with a minimum standard of three Infant and Young Child Feeding Practices if they receive other milk or milk products at least twice a day, receive the minimum meal frequency, and receive solid or semi-solid foods from at least four food groups not including the milk or milk products food group

Breastfeeding, or not breastfeeding and receiving two or more feedings of commercial infant formula, fresh, tinned and powdered animal milk, and yogurt
Children are fed the minimum recommended number of times per day according to their age and breastfeeding status as described in footnotes 2 and 4

Table 11.7 Prevalence of anemia in children

Percentage of children age 6-59 months classified as having anemia, by background characteristics, Model DHS 6 data

	Anemia status by hemoglobin level							
	Any	Mild	Moderate	Severe	_			
Background	anemia	anemia	anemia	anemia	Number of			
characteristic	(<11.0 g/dl)	(10.0-10.9 g/dl)	(7.0-9.9 g/dl)	(< 7.0 g/dl)	children			
Age in months								
6-8	88.0	33.5	50.3	4.2	151			
9-11	83.0	18.8	57.9	6.3	135			
12-17	84.1	22.8	55.5	5.8	300			
18-23	83.5	33.1	42.0	8.5	198			
24-35	78.9	23.9	48.2	6.8	521			
36-47	77.6	25.0	47.5	5.0	661			
48-59	74.9	28.0	43.7	3.2	604			
Sex								
Male	80.6	26.2	48.3	6.0	1,279			
Female	78.1	25.8	47.6	4.6	1,290			
Mother's interview status								
Interviewed	79.8	26.4	47.9	5.5	2,035			
Not interviewed but in								
household	79.2	27.7	49.8	1.7	63			
Not interviewed and not in								
the household1	77.2	24.2	47.9	5.0	472			
Residence								
Urban	72.2	29.9	37.1	5.3	821			
Rural	82.7	24.2	53.1	5.4	1,748			
Region								
Region 1	84.0	24.3	54.1	5.7	1,057			
Region 2	75.2	27.8	43.2	4.2	556			
Region 3	71.0	33.0	34.3	3.7	416			
Region 4	80.8	22.3	51.5	7.1	540			
Mother's education ²								
No education	81.5	24.4	50.7	6.3	1,452			
Primary	81.3	28.3	48.6	4.5	259			
Secondary or higher	72.7	32.9	37.3	2.5	386			
Wealth quintile								
Lowest	81.1	23.6	52.1	5.4	589			
Second	80.8	22.5	51.9	6.4	594			
Middle	84.3	27.9	51.3	5.1	558			
Fourth	78.1	27.5	45.5	5.1	511			
Highest	66.5	31.6	31.2	3.7	318			
Total	79.3	26.0	48.0	5.3	2,569			

Note: Table is based on children who stayed in the household on the night before the interview and who were tested for anemia. Hemoglobin in grams per deciliter (g/dl).

¹ Includes children whose mothers are deceased

² 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 11.8 Micronutrient intake among children

Among youngest children age 6-23 months who are living with their mother, the percentages who consumed vitamin A-rich and iron-rich foods in the day or night preceding the survey, and among all children 6-59 months, the percentages who were given vitamin A supplements in the six months preceding the survey, who were given iron supplements in the past seven days, and who were given deworming medication in the six months preceding the survey, and among all children age 6-59 months who live in households that were tested for iodized salt, the percentage who live in households with iodized salt, by background characteristics, Model DHS 6 data

		ungest childre		Amo	ng all childrer	age 6-59 mc	nths:	Among chil 59 month household: iodize	s living in
Background characteristic	Percentage who consumed foods rich in vitamin A in last 24 hours ¹	Percentage who consumed foods rich in iron in last 24 hours ²	Number of children	Percentage given vitamin A supple- ments in last 6 months	Percentage given iron supple- ments in last 7 days	Percentage given deworming medication in last 6 months ³	Number of children	Percentage living in house- holds with iodized salt ⁴	Number of children
Age in months 6-8 9-11 12-17 18-23 24-35 36-47	18.8 32.3 54.3 64.2 na na	12.9 22.4 38.2 47.9 na na	310 258 582 365 na	69.3 83.4 84.2 88.0 82.8 82.6	43.8 41.6 43.3 43.5 40.1 32.8	27.7 33.8 48.2 64.9 65.8 62.0	314 271 603 421 976 1,076	81.5 77.4 82.2 81.7 81.2 79.2	279 245 544 384 892 961
48-59 Sex Male Female	43.2 48.0	30.4 34.9	na na 749 767	79.3 81.2 82.4	37.3 37.9	62.1 56.4 58.3	961 2,298 2,324	85.7 82.1 81.1	2,066 2,115
Breastfeeding status Breastfeeding Not breastfeeding Missing	40.4 66.4 *	28.5 49.1 *	1,192 316 8	82.0 82.5 39.7	43.7 35.5 13.7	45.2 63.0 27.8	1,356 3,207 59	80.0 82.5 73.6	1,223 2,905 53
Mother's age at birth 15-19 20-29 30-39 40-49	38.8 44.4 47.9 54.9	26.6 32.0 35.5 34.3	175 738 488 115	82.8 80.1 83.6 82.6	45.8 38.5 36.1 32.8	52.2 55.5 59.2 63.0	326 2,198 1,656 441	81.6 81.9 80.6 84.0	293 2,020 1,457 410
Residence Urban Rural	46.9 45.0	38.5 29.7	511 1,005	85.0 80.2	47.0 33.0	61.0 55.5	1,521 3,101	89.9 77.8	1,336 2,844
Region Region 1 Region 2 Region 3 Region 4	46.8 39.0 55.1 41.3	34.6 28.3 44.4 22.7	606 298 288 325	76.1 85.2 80.0 89.3	28.6 33.5 46.2 49.7	54.1 59.2 55.9 61.8	1,716 1,041 830 1,036	73.6 82.8 90.0 88.0	1,584 999 689 909
Mother's education No education Primary Secondary or higher	46.1 44.8 45.1	30.1 35.3 38.5	964 218 335	80.3 82.4 87.1	33.2 39.5 52.5	56.7 57.0 59.9	3,139 630 853	79.7 82.6 88.0	2,849 570 762
Wealth quintile Lowest Second Middle Fourth Highest	43.3 38.7 50.9 49.3 46.2	25.5 25.3 36.9 38.0 40.5	354 304 329 298 231	83.8 78.7 77.5 85.1 84.8	32.8 35.2 33.2 41.2 50.5	58.7 55.6 51.0 60.1 62.6	1,096 990 947 916 673	79.2 76.0 79.2 83.0 96.2	995 885 891 833 576
Total	45.7	32.7	1,516	81.8	37.6	57.3	4,622	81.6	4,180

Note: Information on vitamin A is based on both mother's recall and the immunization card (where available). Information on iron supplements and deworming medication is based on the mother's recall. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been

¹ Includes meat (and organ meat), fish, poultry, eggs, pumpkin, red or yellow yams or squash, carrots, red sweet potatoes, dark green leafy vegetables, mango, papaya, and other locally grown fruits and vegetables that are rich in vitamin A, and red palm oil.

Includes meat (including organ meat), fish, poultry and eggs
 Deworming for intestinal parasites is commonly done for helminthes and for schistosomiasis.

⁴ Excludes children in households in which salt was not tested.

Table 11.9 Presence of iodized salt in household

Among all households, the percentage with salt tested for iodine content and the percentage with no salt in the household; and among households with salt tested, the percentage with iodized salt, according to background characteristics, Model DHS 6 data

	Among all	households, the p	Among households with tested salt:			
Background characteristic	With salt tested	With no salt in the household	Number of households	Percentage with iodized salt	Number of households	
Residence						
Urban	84.6	15.4	2,555	89.9	2,162	
Rural	91.4	8.6	3,735	77.4	3,415	
Region						
Region 1	91.1	8.9	2,106	74.5	1,920	
Region 2	94.0	6.0	1,331	82.1	1,251	
Region 3	81.0	19.0	1,501	89.9	1,216	
Region 4	88.0	12.0	1,352	86.9	1,190	
Wealth quintile						
Lowest	90.6	9.4	1,359	76.1	1,231	
Second	89.5	10.5	1,252	78.2	1,121	
Middle	91.2	8.8	1,214	80.2	1,107	
Fourth	87.4	12.6	1,216	82.6	1,063	
Highest	84.6	15.4	1,249	95.4	1,057	
Total	88.7	11.3	6,290	82.2	5,578	

Table 11.10.1 Nutritional status of women

Among women age 15-49, the percentage with height under 145 cm, mean Body Mass Index (BMI), and the percentage with specific BMI levels, by background characteristics, Model DHS 6 data

	He	eight	Body Mass Index ¹								
Background characteristic	Percent- age below 145 cm	Number of women	Mean Body Mass Index (BMI)	18.5-24.9 (Total normal)	<18.5 (Total thin)	17.0-18.4 (Mildly thin)	<17 (Moder- ately and severely thin)	≥25.0 (Total over- weight or obese)	25.0-29.9 (Over- weight)	≥30.0 (Obese)	Number of women
Age 15-19 20-29 30-39 40-49	2.3 1.2 1.5 1.2	862 1,369 1,090 652	21.2 22.6 23.4 24.0	78.3 75.6 68.8 59.6	14.0 6.3 7.1 7.5	9.0 4.0 5.1 4.7	4.9 2.3 2.0 2.8	7.8 18.1 24.1 33.0	5.6 13.7 15.4 21.6	2.2 4.4 8.7 11.4	784 1,164 968 633
Residence Urban Rural	0.9 2.0	1,768 2,205	23.9 21.8	65.1 76.9	6.0 10.5	3.8 7.0	2.1 3.5	28.9 12.6	18.0 10.2	10.9 2.5	1,625 1,925
Region Region 1 Region 2 Region 3 Region 4	1.3 2.3 1.0 1.9	1,411 768 1,076 717	21.9 22.7 24.1 22.4	76.9 70.9 64.9 72.0	9.8 9.0 5.9 9.1	6.5 6.6 3.9 5.1	3.3 2.4 2.0 3.9	13.2 20.1 29.3 19.0	10.1 14.8 17.2 14.3	3.1 5.3 12.0 4.7	1,228 687 995 639
Education No education Primary Secondary or higher	1.8 2.1 1.0	2,098 546 1,329	22.6 22.7 23.0	72.5 71.3 70.0	8.5 8.4 8.3	5.9 5.6 4.9	2.6 2.8 3.4	19.0 20.3 21.7	13.7 13.1 14.1	5.2 7.2 7.7	1,847 482 1,220
Wealth quintile Lowest Second Middle Fourth Highest	2.4 1.5 1.7 0.8 1.5	685 725 804 867 891	21.5 21.8 22.3 23.1 24.5	78.3 76.3 76.1 68.9 61.4	11.4 10.5 9.3 6.5 5.9	6.5 8.4 5.3 4.5 4.0	4.9 2.1 4.0 2.0 1.8	10.3 13.2 14.7 24.7 32.7	8.4 10.8 10.3 17.6 19.2	1.9 2.3 4.4 7.1 13.5	586 629 719 794 821
Total	1.5	3,973	22.8	71.5	8.4	5.5	2.9	20.1	13.8	6.3	3,549

Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2).
¹ Excludes pregnant women and women with a birth in the preceding 2 months

Table 11.10.2 Nutritional status of men

Among men age 15-49, mean Body Mass Index (BMI), and the percentage with specific BMI levels, by background characteristics, Model DHS 6 data

				Body Ma	ss Index				
Background characteristic	Mean Body Mass Index (BMI)	18.5-24.9 (Total normal)	<18.5 (Total thin)	17.0-18.4 (Mildly thin)	<17 (Moder- ately and severely thin)	≥25.0 (Total over- weight or obese)	25.0-29.9 (Over- weight)	≥30.0 (Obese)	Number of men
Age 15-19 20-29 30-39 40-49	20.1 21.5 22.0 22.2	68.8 89.7 83.7 77.9	29.0 6.3 5.8 8.2	21.0 5.3 5.0 6.5	8.0 0.9 0.8 1.7	2.3 4.0 10.5 13.9	1.6 3.9 8.7 9.2	0.6 0.2 1.8 4.7	718 965 843 596
Residence Urban Rural	21.6 21.3	79.5 82.4	12.5 11.0	10.0 8.2	2.5 2.9	8.0 6.5	5.8 5.5	2.2 1.0	1,517 1,604
Region Region 1 Region 2 Region 3 Region 4	21.2 21.8 21.7 21.1	78.5 81.3 82.0 83.4	14.0 8.9 11.4 11.2	10.8 6.6 9.8 7.2	3.2 2.3 1.6 3.9	7.5 9.7 6.7 5.4	6.1 7.3 4.7 4.9	1.3 2.4 1.9 0.5	1,008 574 954 586
Education No education Primary Secondary or higher	21.5 21.1 21.4	80.9 79.4 81.5	10.3 16.1 11.8	7.7 12.3 9.3	2.6 3.8 2.5	8.8 4.5 6.8	7.6 3.5 4.8	1.2 1.0 2.0	1,175 381 1,565
Wealth quintile Lowest Second Middle Fourth Highest	21.0 21.2 21.4 21.5 21.8	81.8 81.6 80.3 78.7 82.3	12.9 11.9 12.2 14.0 9.0	9.6 9.7 8.3 11.0 7.5	3.4 2.3 4.0 3.0 1.5	5.3 6.5 7.5 7.3 8.8	5.2 5.8 5.9 5.0 6.2	0.0 0.7 1.6 2.3 2.5	522 551 555 629 864
Total 15-49 50-59 Total 15-59	21.4 22.1 21.5	81.0 70.3 80.1	11.7 12.7 11.8	9.1 10.0 9.1	2.7 2.7 2.7	7.3 17.0 8.1	5.7 13.1 6.3	1.6 3.9 1.8	3,121 304 3,425

Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2).

Table 11.11.1 Prevalence of anemia in women

Percentage of women age 15-49 with anemia, by background characteristics, Model DHS 6 data

Anemia status by hemoglobin level							
		Any	Mild	Moderate	Severe		
Background	Not pregnant	<12.0 g/dl	0.0-11.9 g/dl	7.0-9.9 g/dl	< 7.0 g/dl	Number of	
characteristic	Pregnant	<11.0 g/dl	10.0-10.9 g/dl	7.0-9.9 g/dl	< 7.0 g/dl	women	
Age							
15-19		47.1	35.8	11.0	0.4	846	
20-29		40.4	31.4	8.6	0.4	1,361	
30-39		42.2	34.2	7.5	0.5	1,076	
40-49		40.2	32.2	7.0	1.0	640	
	ldren ever born						
0		40.5	32.0	8.1	0.3	986	
1		40.5	30.0	10.5	0.1	575	
2-3		43.5	34.3	8.8	0.4	942	
4-5 6+		40.0 47.6	32.6 37.1	6.6 9.5	0.8 0.9	764 656	
		47.0	37.1	9.5	0.9	000	
Maternity statu Pregnant	us	55.7	24.0	30.5	1.2	332	
Breastfeeding	,	46.3	38.5	7.4	0.4	933	
Neither	J	39.2	32.6	6.2	0.4	2,658	
		00.2	02.0	0.2	0.0	2,000	
Using IUD Yes		*	*	*	*	7	
No		42.3	33.2	8.5	0.5	3,916	
Smoking statu	ıe					,	
	ettes/tobacco	44.7	31.2	13.5	0.0	308	
Does not smo		42.0	33.4	8.1	0.5	3,612	
Missing		*	*	*	*	3	
Residence							
Urban		34.9	27.7	6.7	0.6	1,740	
Rural		48.2	37.7	10.0	0.4	2,183	
Region							
Region 1		50.6	38.7	11.6	0.4	1,391	
Region 2		47.4	38.5	8.5	0.3	757	
Region 3		27.6	23.0	4.3	0.3	1,063	
Region 4		42.5	32.2	9.0	1.3	712	
Education							
No education		45.7	35.4	9.7	0.6	2,076	
Primary		47.0	37.5	9.1	0.4	542	
Secondary or	higher	35.0	28.0	6.5	0.4	1,305	
Wealth quintile	е						
Lowest		51.9	41.0	10.2	0.7	683	
Second		48.7	37.7	10.7	0.4	720	
Middle Fourth		45.8 40.5	35.2 31.7	10.1 8.4	0.6 0.4	786 859	
Highest		40.5 28.1	23.3	6.4 4.4	0.4	874	
•		42.3	33.2	8.6	0.5		
Total		42.3	აა.∠	0.0	0.5	3,923	

Note: Prevalence is adjusted for smoking status if known using formulas in CDC, 1998. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 11.11.2 Prevalence of anemia in men

Percentage of men age 15-49 with anemia, by background characteristics, Model DHS 6 data

	Any	
Background	anemia	Number of
characteristic	<13.0 g/dl	men
Age		
15-19	39.2	708
20-29	24.9	946
30-39	27.0	818
40-49	28.9	584
Smoking status		
Smokes cigarettes/tobacco	33.8	776
Does not smoke	28.1	2,280
Residence		
Urban	22.8	1,471
Rural	35.8	1,586
Region		
Region 1	38.1	1,005
Region 2	33.7	558
Region 3	16.9	917
Region 4	30.7	576
Education		
No education	35.8	1,145
Primary	31.9	370
Secondary or higher	24.3	1,542
Wealth quintile		
Lowest	41.5	516
Second	34.5	538
Middle	33.7	554
Fourth	24.8	616
Highest	19.7	832
Total 15-49	29.6	3,056
50-59	40.9	299
Total 15-59	30.6	3,356

Note: Prevalence is adjusted for smoking status, if known, using formulas in CDC, 1998.

Table 11.12 Micronutrient intake among mothers

Among women age 15-49 with a child born in the past five years, the percentage who received a vitamin A dose in the first two months after the birth of the last child, the percent distribution by number of days they took iron tablets or syrup during the pregnancy of the last child, and the percentage who took deworming medication during the pregnancy of the last child; and among women age 15-49 with a child born in the past five years and who live in households that were tested for iodized salt, the percentage who live in households with iodized salt, by background characteristics, Model DHS 6 data

Among women with a child born in the past five years: Among women with a Percenchild born in the last tage of five years, who live in women Number of days women took iron tablets or syrup households that were who took during pregnancy of last birth tested for iodized salt deworm-Percent-Percenting mediage living age who cation received during in housepreg-nancy of Number of vitamin A Don't holds with Background dose postknow/ iodized Number of characteristic partum1 None <60 60-89 90+ missing Total last birth women salt2 women **Age** 15-19 100.0 431 77.5 5.6 26.1 9.7 35.4 23.1 70.8 82.9 382 20-29 79.0 4.6 28.4 9.9 32.0 25.1 100.0 75.3 1,930 83.2 1,775 73.5 81.2 30-39 78.4 5.4 27.6 7.9 31.6 27.5 100.0 1,403 1,247 40-49 5.5 27.7 10.5 23.2 100.0 72.3 412 380 78.9 33.1 84.4 Residence Urban 80.2 3.6 21.9 8.6 41.6 24.4 100.0 77.0 1,468 90.5 1,297 5.9 31.1 100.0 78.5 Rural 77.8 9.7 27.3 26.1 72.2 2,709 2,487 Region Region 1 75.4 8.3 30.8 8.0 28.0 24.9 100.0 71.4 1,542 75.2 1,423 Region 2 83.8 2.8 31.3 12.2 23.6 30.1 100.0 82.4 896 83.1 854 Region 3 84.3 5.6 22.7 6.8 41.0 23.9 100.0 80.3 816 90.6 686 Region 4 74.0 1.4 24.2 10.7 40.3 23.4 100.0 64.3 88.2 922 821 Education No education 76.6 5.3 29.0 9.7 29.0 27.0 100.0 71.3 2,714 80.1 2,464 Primary 0.08 5.3 29.3 9.8 32.6 23.0 100.0 74.9 583 82.9 524 Secondary or higher 84.1 4.2 23.4 7.5 42.4 22.5 100.0 81.3 880 90.1 796 Wealth quintile 25.8 Lowest 74.6 4.5 30.1 11.9 27.7 100.0 68.2 917 78.5 835 Second 75.9 7.0 33.2 8.5 25.2 26.0 100.0 74.1 888 77.4 797 Middle 80.1 6.0 31.7 8.7 28.9 24.7 100.0 73.8 864 81.3 809 Fourth 80.9 3.8 22.3 9.5 38.5 25.9 100.0 73.6 832 83.6 763 Highest 83.1 3.6 19.7 7.2 44.5 24.9 100.0 81.9 675 96.2 581 4,177 78.6 27.9 9.3 32.3 25.5 100.0 73.9 82 6 3,784 Total 5.1

¹ In the first two months after delivery of last birth

² Excludes women in households where salt was not tested.