

Key Findings

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#CamerounEIP*

**2022 Cameroon Malaria Indicator Survey
(Cameroon MIS)**



The Malaria Indicators Survey Cameroon 2022 (CMIS 2022) was implemented from August 22 to December 1, 2022 by the Institut National de la Statistique (INS) in close cooperation with the National Malaria Control Program (NMCP). Financial support for the MIS-Cameroon 2022 was provided by the United States Agency for International Development (USAID) through the US President's Malaria Initiative (PMI), the Government of Cameroon, the Global Fund to Fight AIDS, Tuberculosis and Malaria (The Global Fund). ICF provided technical assistance through the DHS Program, a USAID-funded project providing support and technical assistance in the implementation of population and health surveys in countries worldwide.

The contents of this presentation are the sole responsibility of INS, NMCP, and ICF and do not necessarily reflect the views of USAID, the United States Government, or other donor agencies.

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MALARIA INITIATIVE**

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The Survey

- The CMIS 2022 is the first Malaria Indicator Survey conducted in Cameroon as part of The DHS Program.
- It is designed to provide estimates at the national level, by residential areas (Yaoundé/Douala, other urban, and rural areas), and at the 12 regional levels.

Sample Design

Sampling Frame: General Census of Population and Housing in 2017-18 by the Central Bureau of Population Censuses and Studies

First Stage: 470 enumeration zones from 6,580 households (3,598 in 263 urban clusters and 2,982 in 207 rural clusters)

Second Stage: 14 households per cluster were selected.

Selected households were visited and interviewed.

All women age 15-49 in all selected households were eligible for interview; **children age 6-59 months** were eligible for malaria and anaemia testing.

Pretest and Main Survey Training

Pretest Training:

- Training for 12 interviewers and 4 lab techs from May 31 to June 14, 2022 under the guidance of 15 supervisors/trainers. Activities included 10 days of staff training, 3 days of field practice, and 2 days of debriefing.

Main Survey Training:

- 111 participants trained from August 2 – 20, 2022.
- Training was organized into 3 workshops:
 - French-speaking participants for positions of survey agents, monitors, and team leaders
 - English-speaking participants for positions of survey agents, monitors, and team leaders
 - Lab techs in charge of biomarker testing

Fieldwork and Data Processing

- Data collection took place from **August 22 to December 1, 2022**.
- **18 teams** included:
 - 1 team leader, 2 interviewers, 1 lab tech, and 1 driver
- Interviews were conducted with tablets, and data entry and editing were done with CSPro.

Results of Household and Individual Interviews

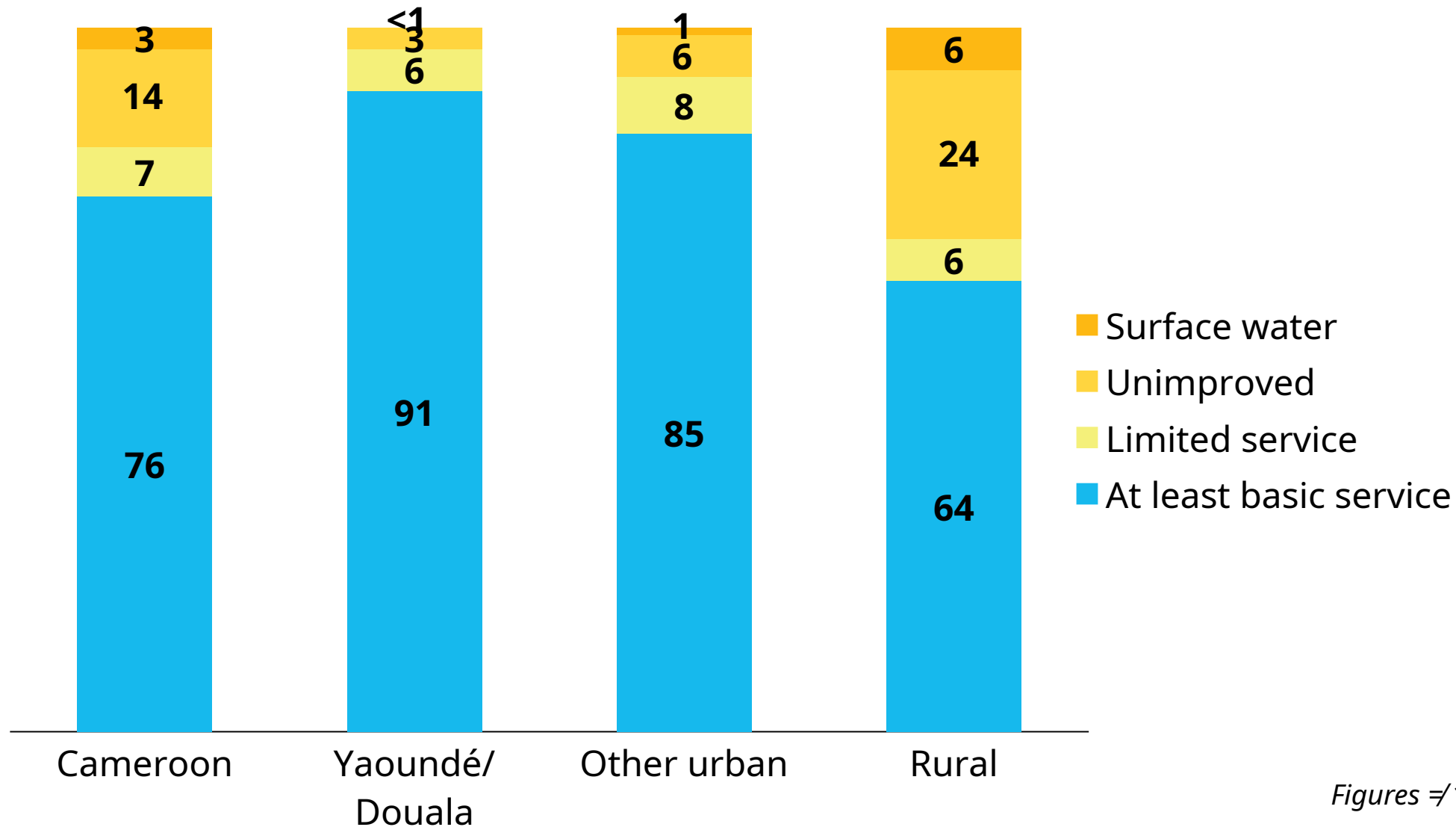
Household Interviews	
Households selected	6,290
Households occupied	6,080
Households interviewed	6,031
Response rate	99%
Interviews with Women age 15-49	
Eligible women	6,647
Women interviewed	6,532
Response rate	98%

Drinking Water Service by Residence

Percent distribution of household population by drinking water service ladder



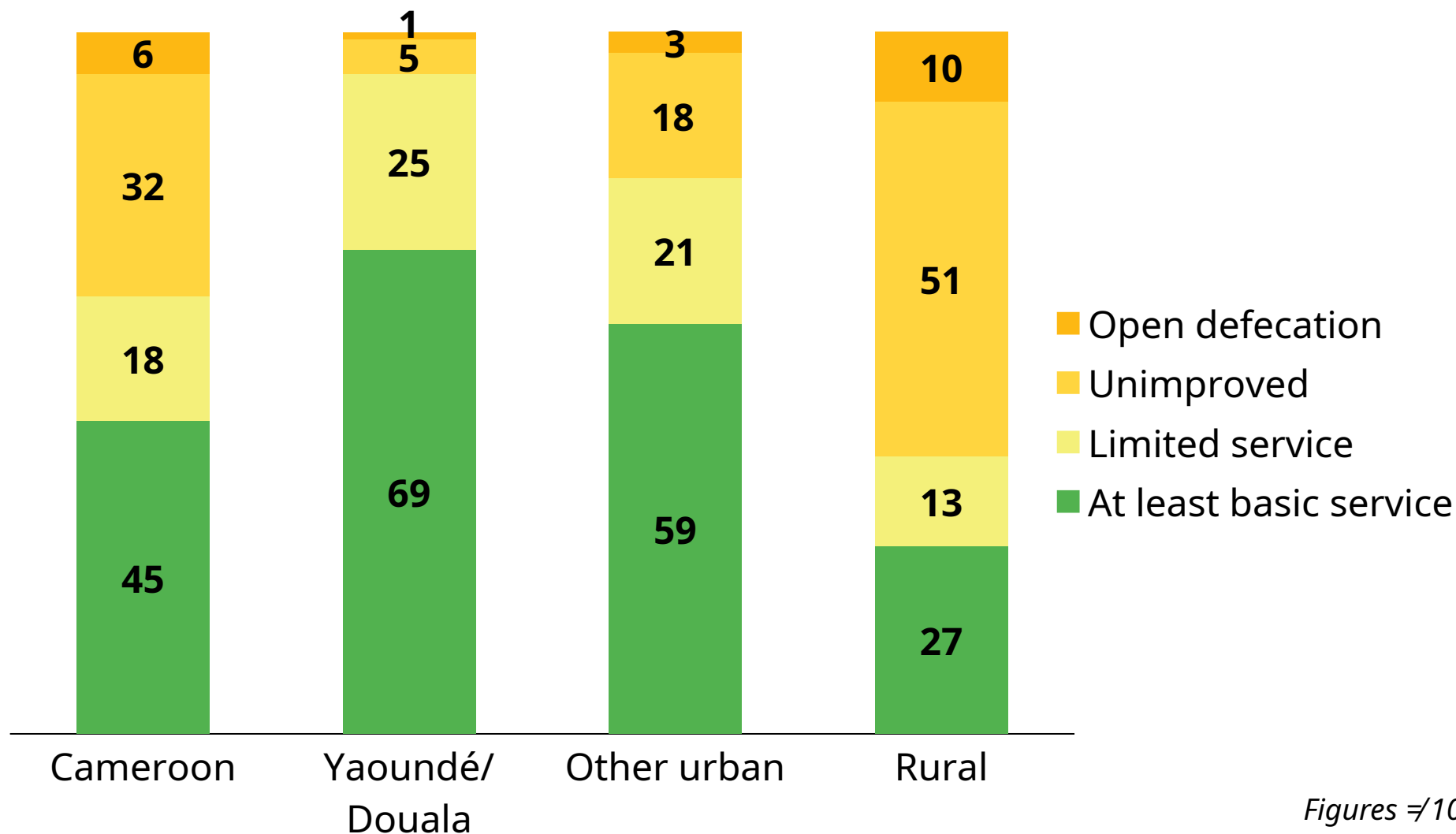
Indicators
1.4.1, 6.1.1



Figures ≠100% due to rounding.

Sanitation Service Ladder by Residence

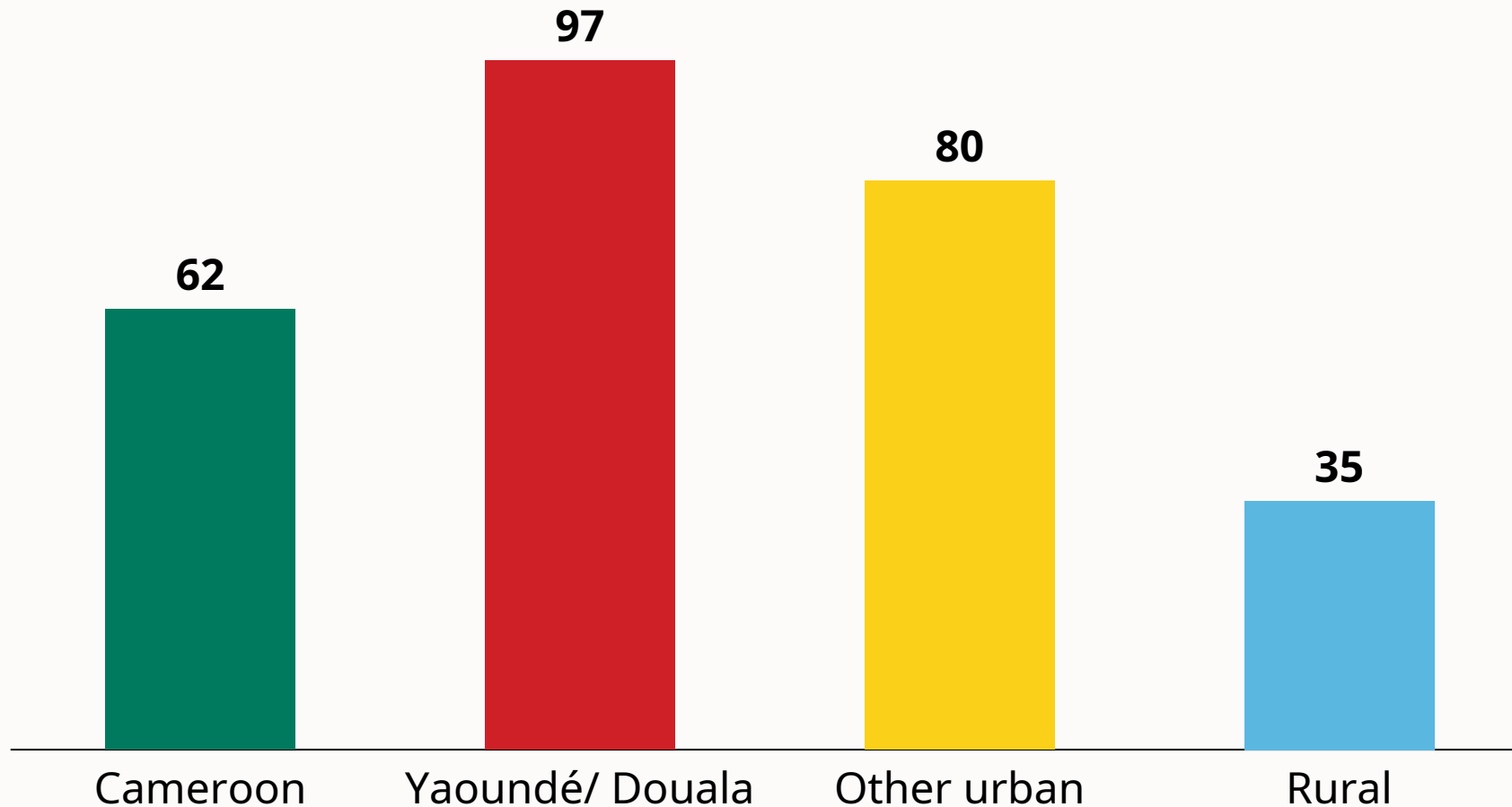
Percent distribution of household population by type of sanitation service



Figures ≠100% due to rounding.

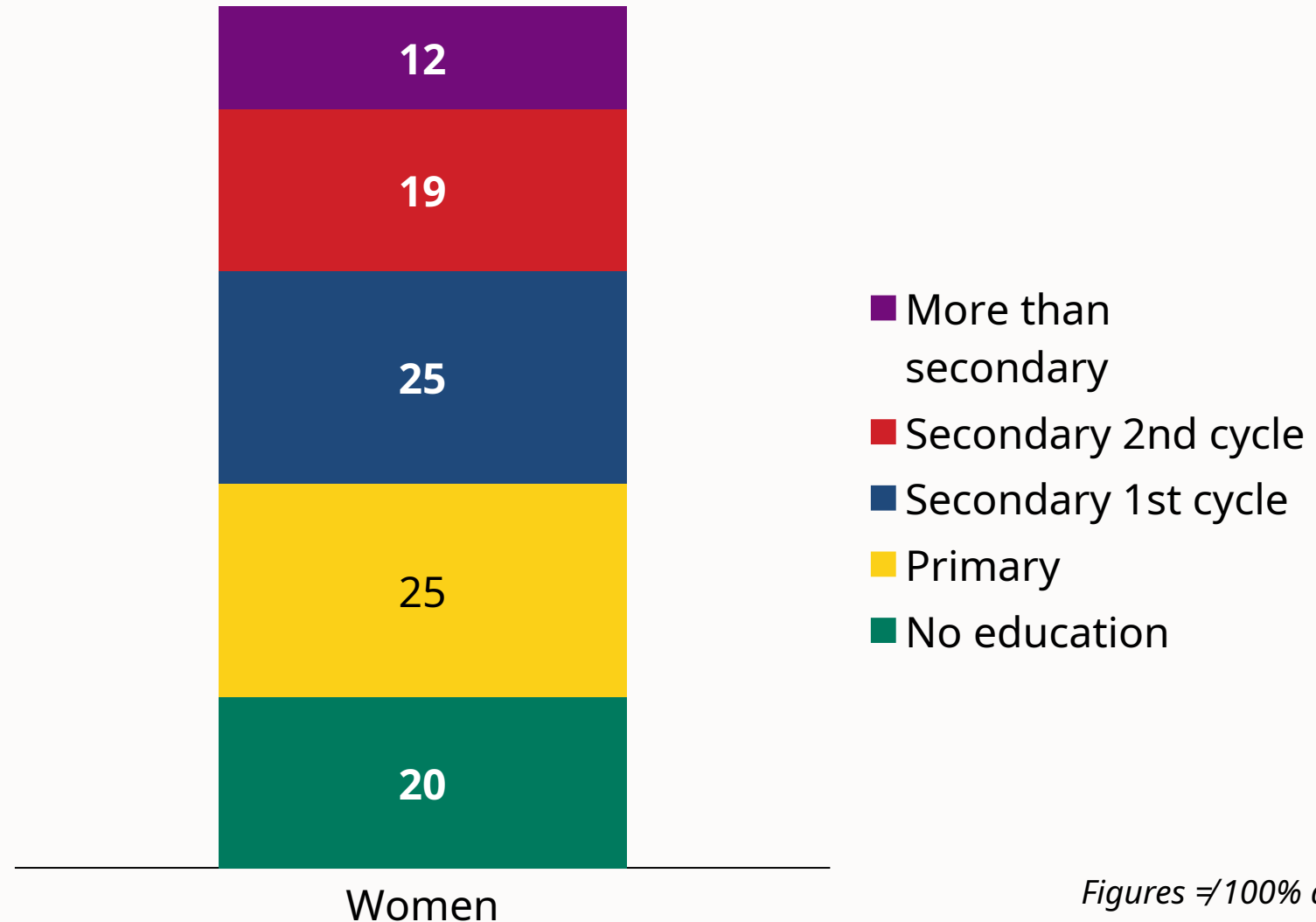
Electricity by Residence

Percent of household population with electricity:



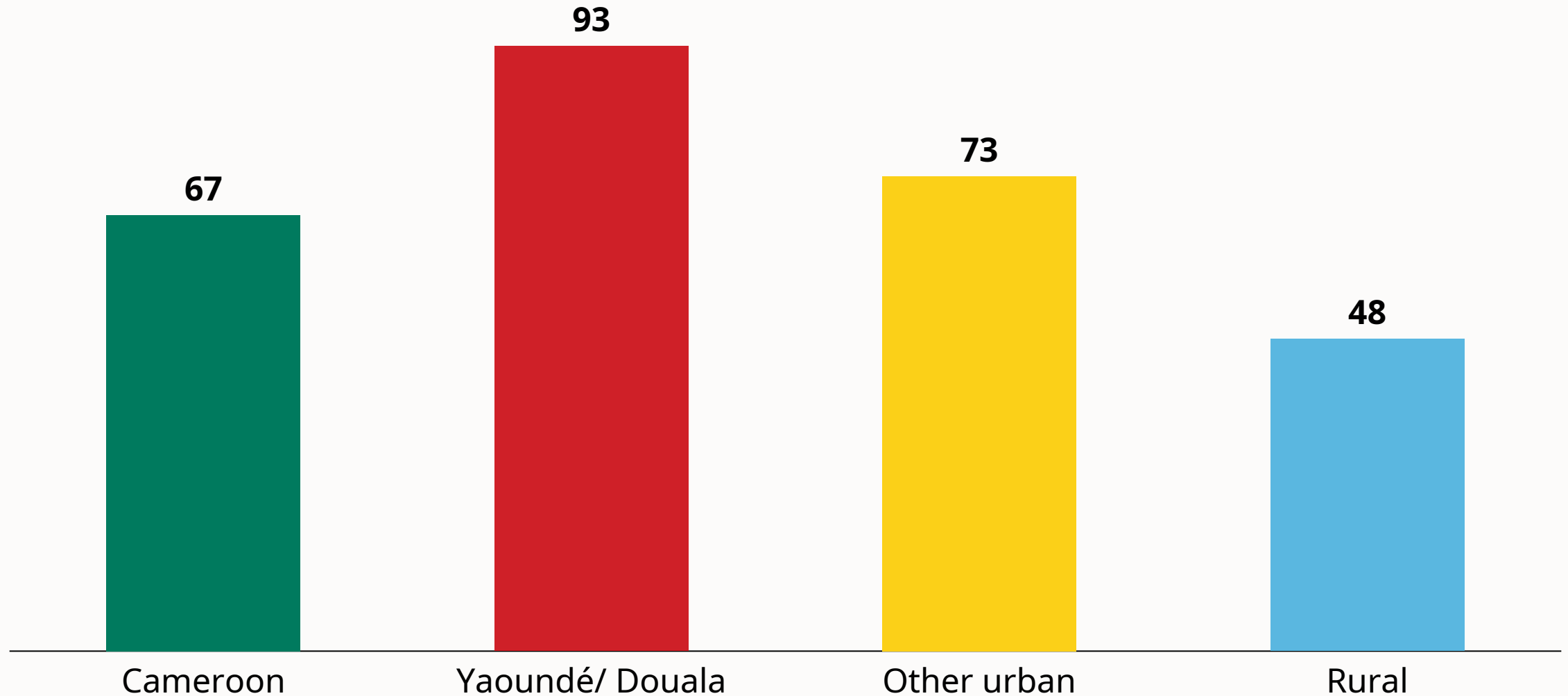
Women's Education

Percent distribution of women age 15-49



Literacy

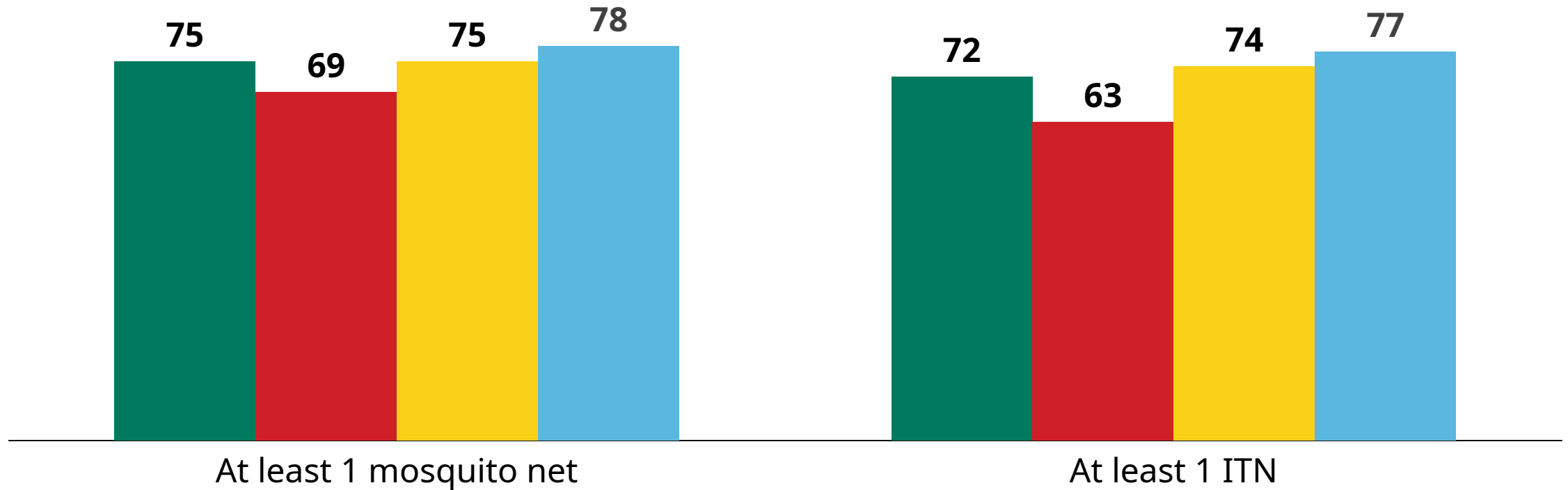
Percent of women age 15-49 who are literate



Insecticide-treated Net (ITN) Ownership

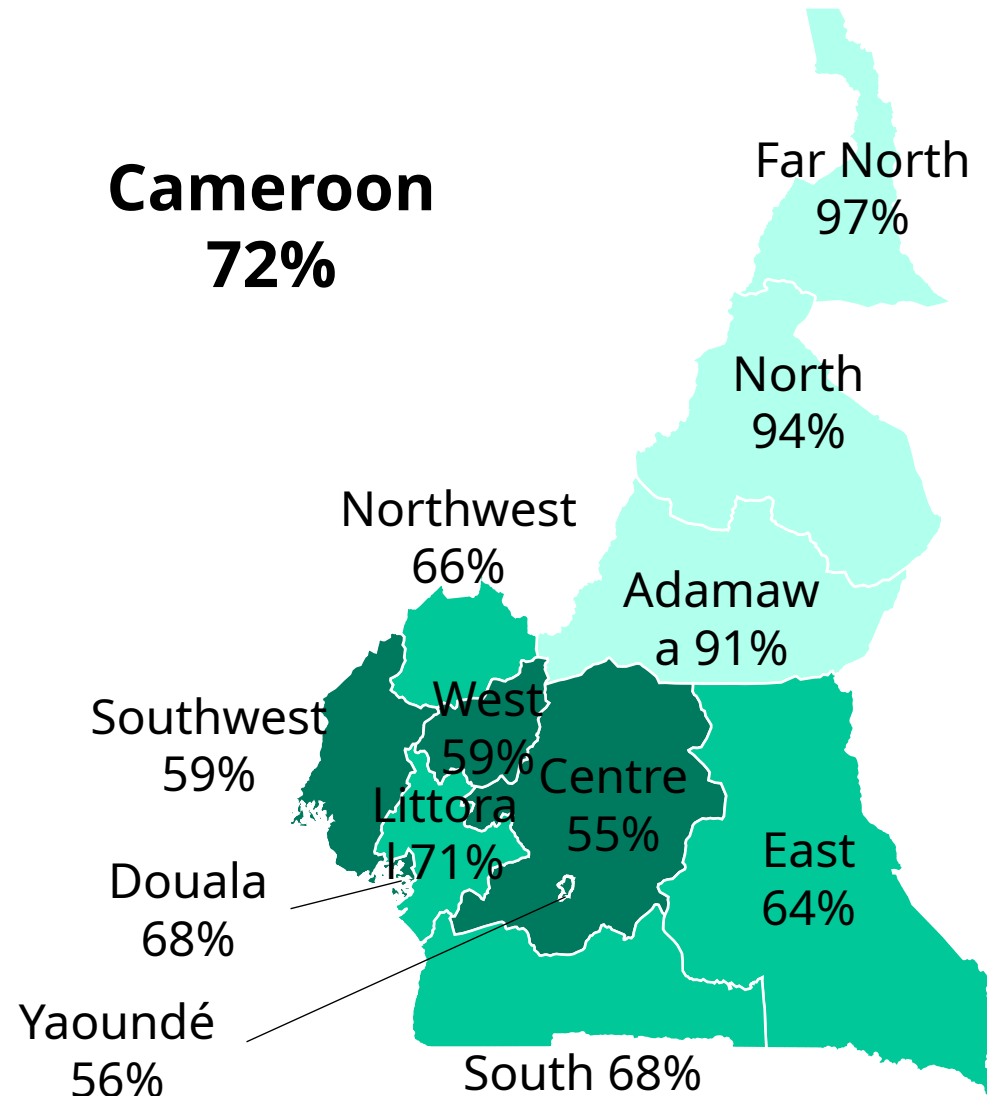
Percent of households with at least one ITN and percent of households with:

■ Cameroon ■ Yaoundé/ Douala ■ Other urban ■ Rural



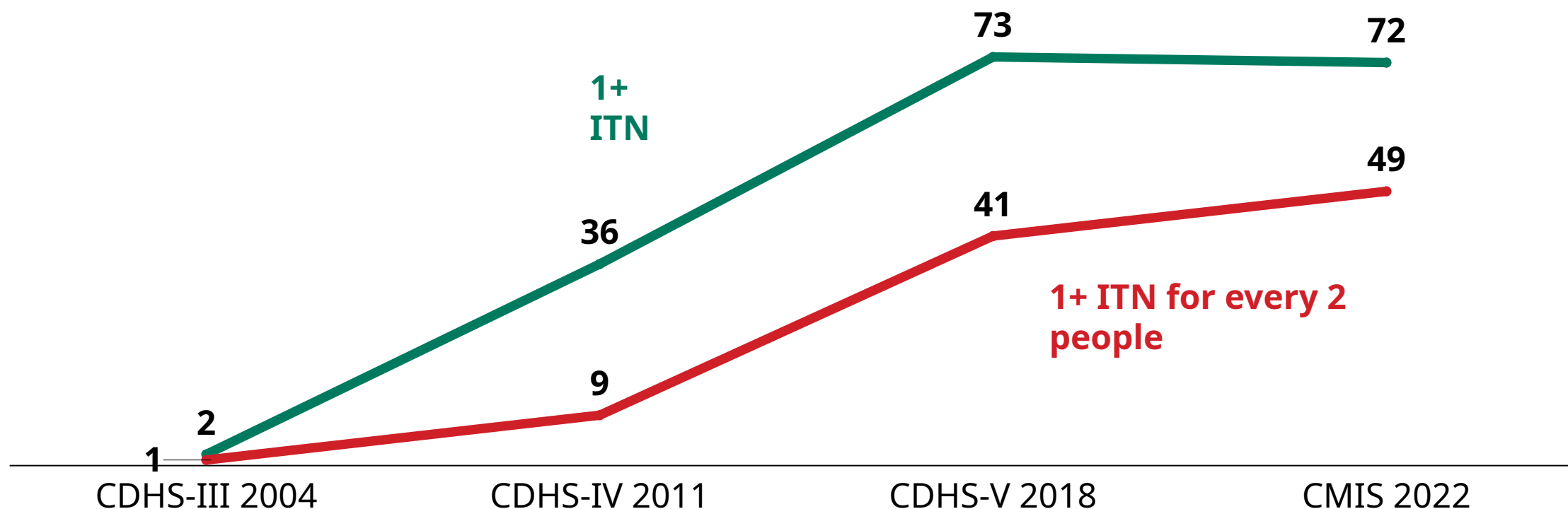
ITN Ownership by Region

Percent of households with at least one ITN



Trends in ITN Ownership

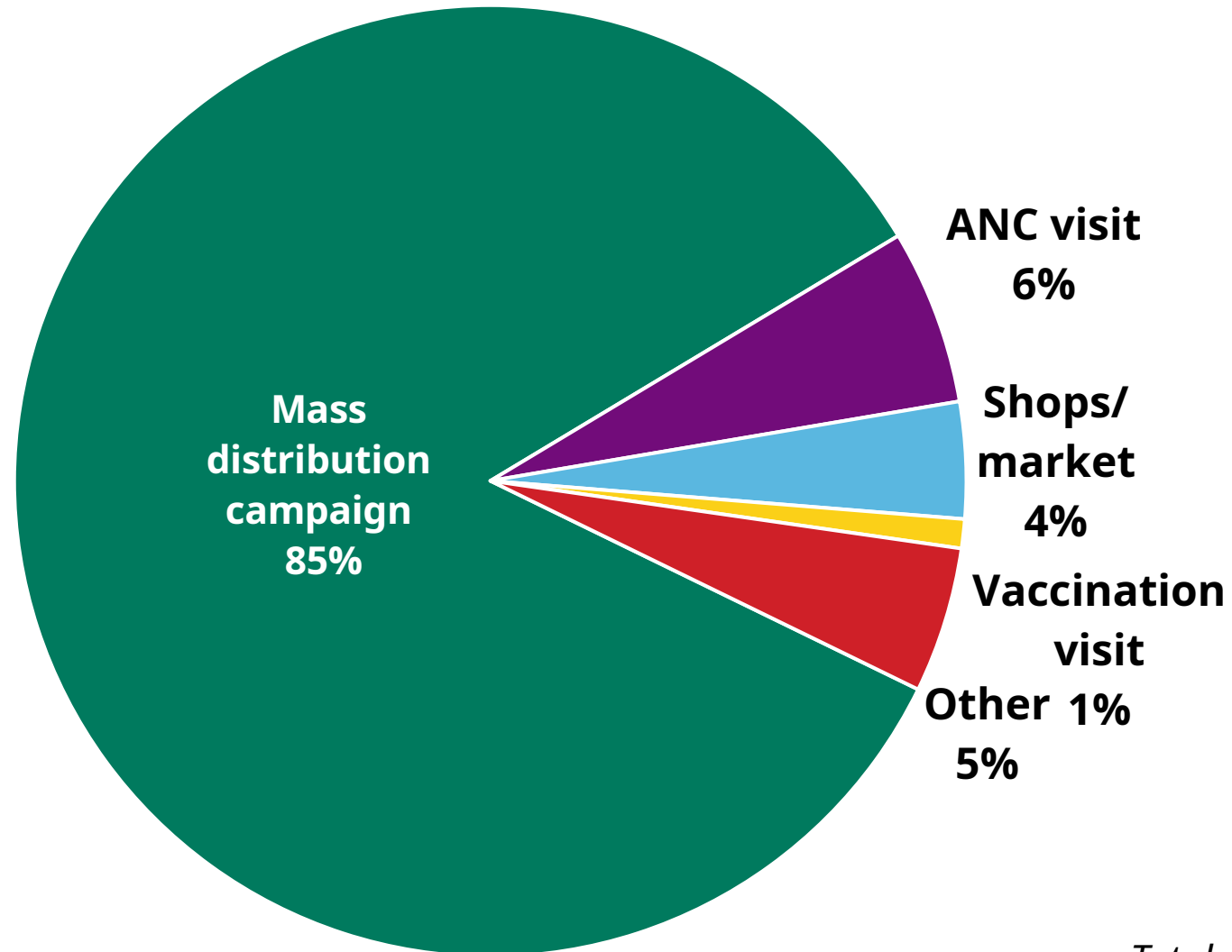
Percent of households with at least one ITN and percent of households with at least one ITN for every two people in the household



In DHS surveys in Cameroon until 2011, the definition of an ITN included nets that had been soaked in an insecticide against mosquitoes within the previous 12 months. Since 2011, all mosquito nets distributed are Long-Lasting Treated Nets (LLINs).

Source of ITNs

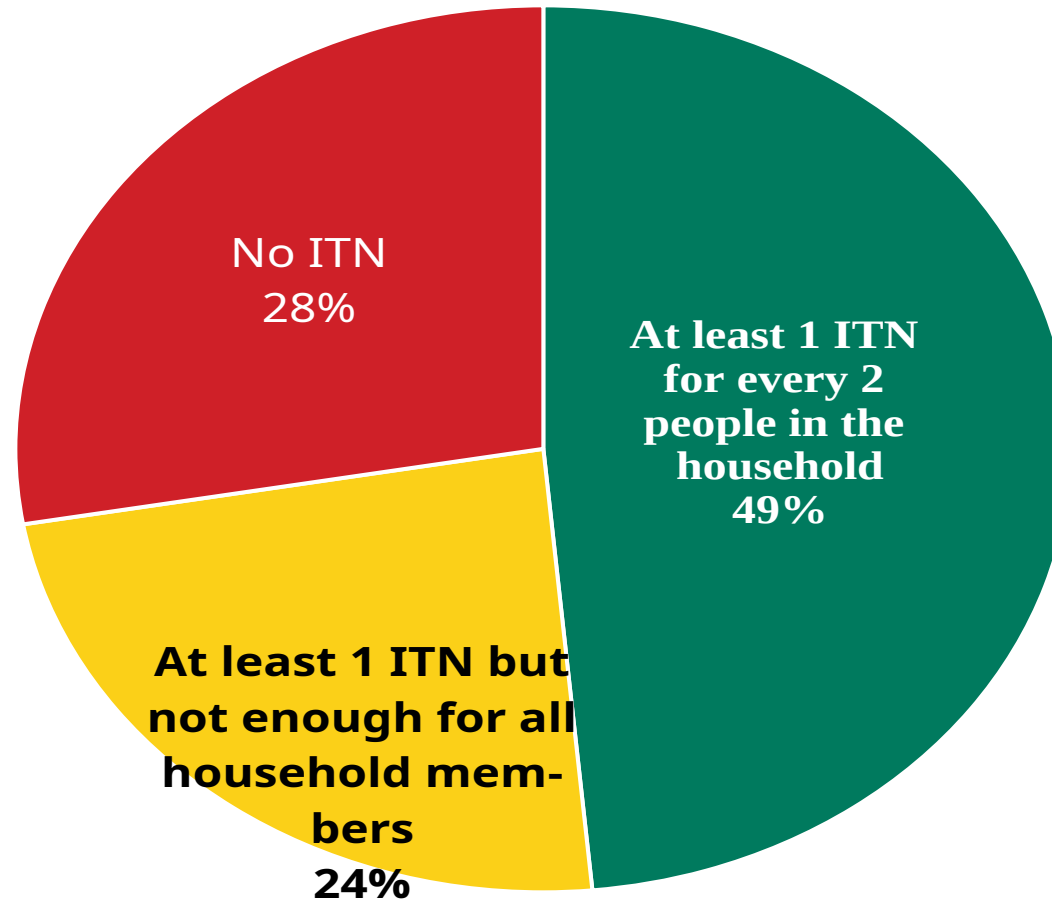
Percent distribution of ITNs in interviewed households by source of net



Total ≠ 100% due to rounding

Household Coverage of ITNs

Percent distribution of households

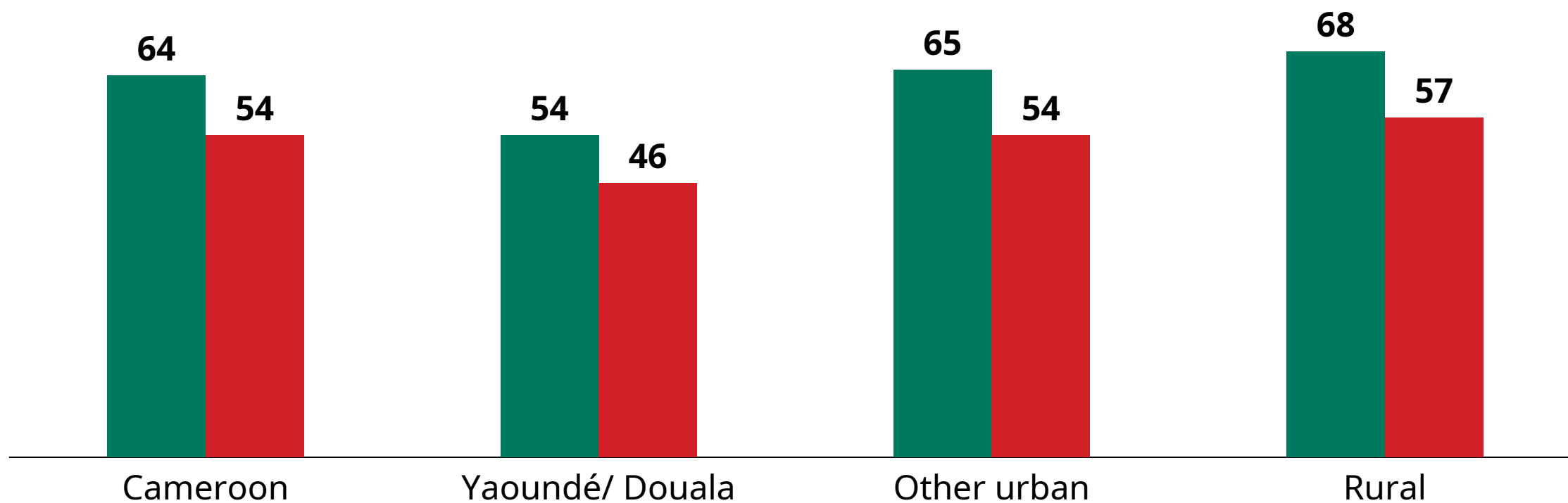


Total ≠ 100% due to rounding

ITN Access and Use

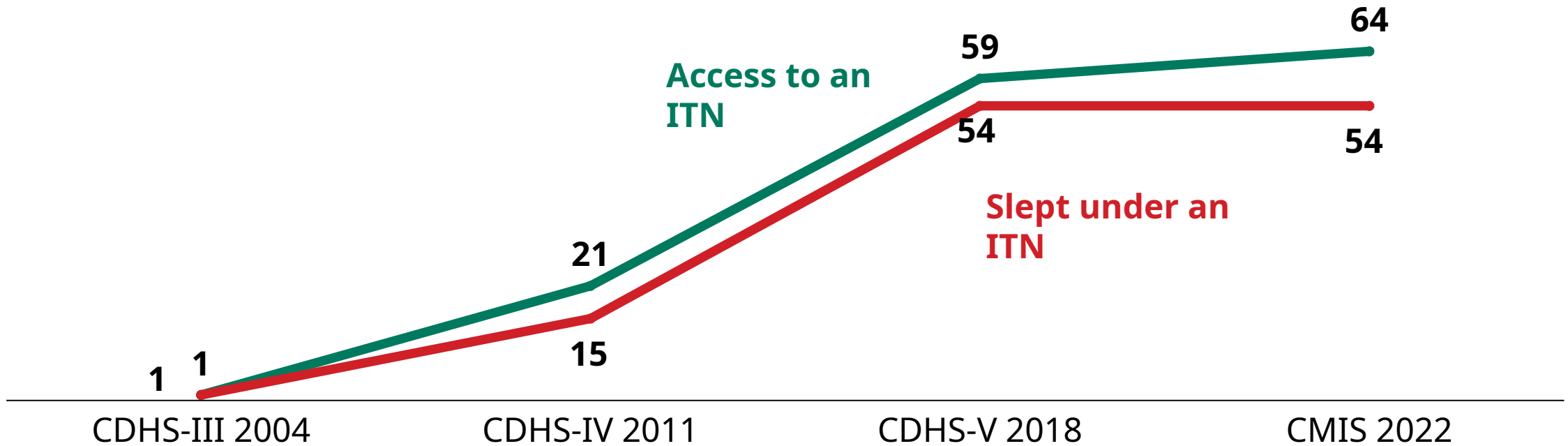
Percent of household population with access to an ITN and percent who slept under an ITN the night before the survey

■ Access to an ITN ■ Slept under an ITN



Trends in ITN Access and Use

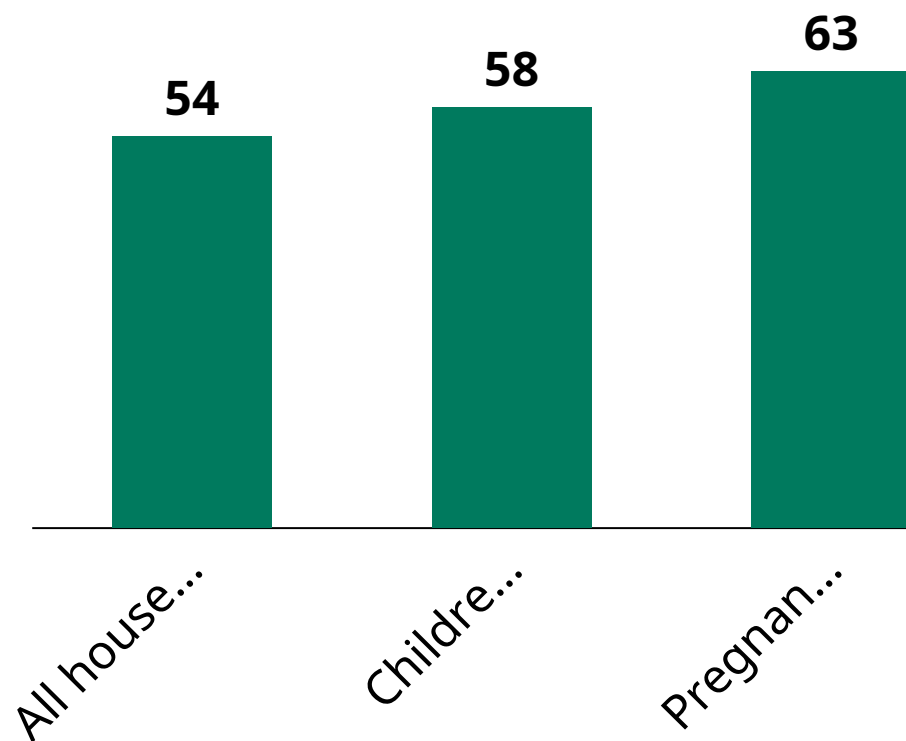
Percent of household population with access to an ITN and percent who slept under an ITN the night before the survey



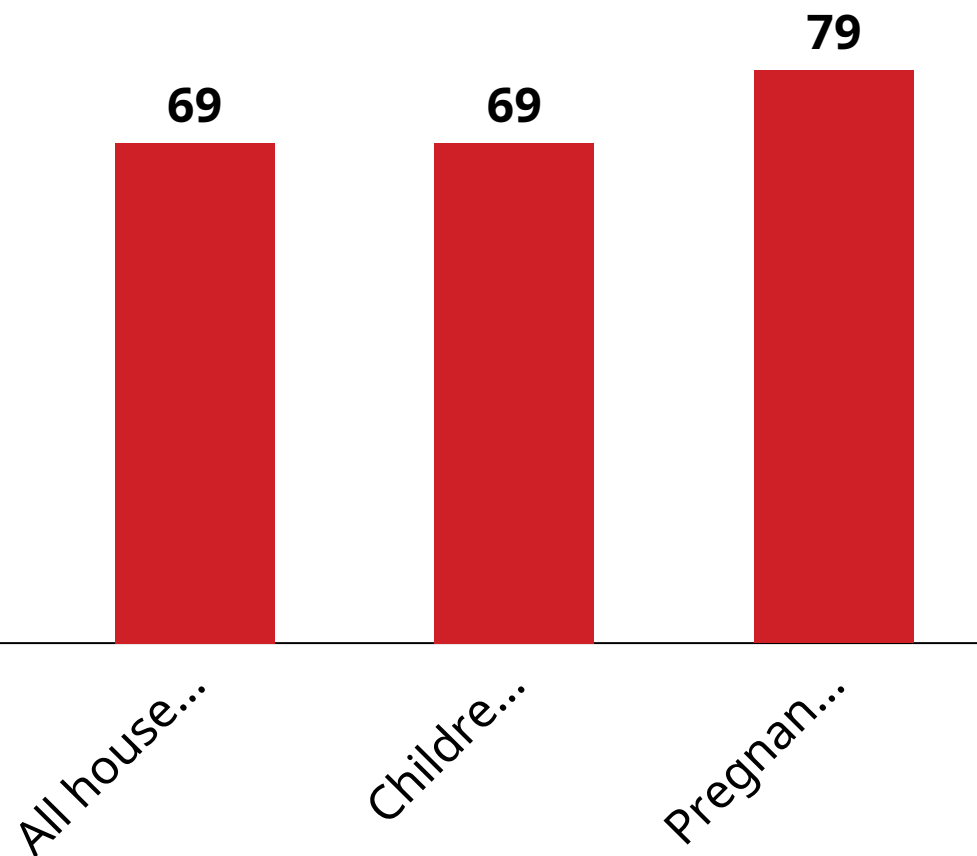
In DHS surveys in Cameroon until 2011, the definition of an ITN included nets that had been soaked in an insecticide against mosquitoes within the previous 12 months. Since 2011, all mosquito nets distributed are Long-Lasting Treated Nets (LLINs).

Use of ITNs

*Percent who slept under an ITN
the night before the survey among
all households*

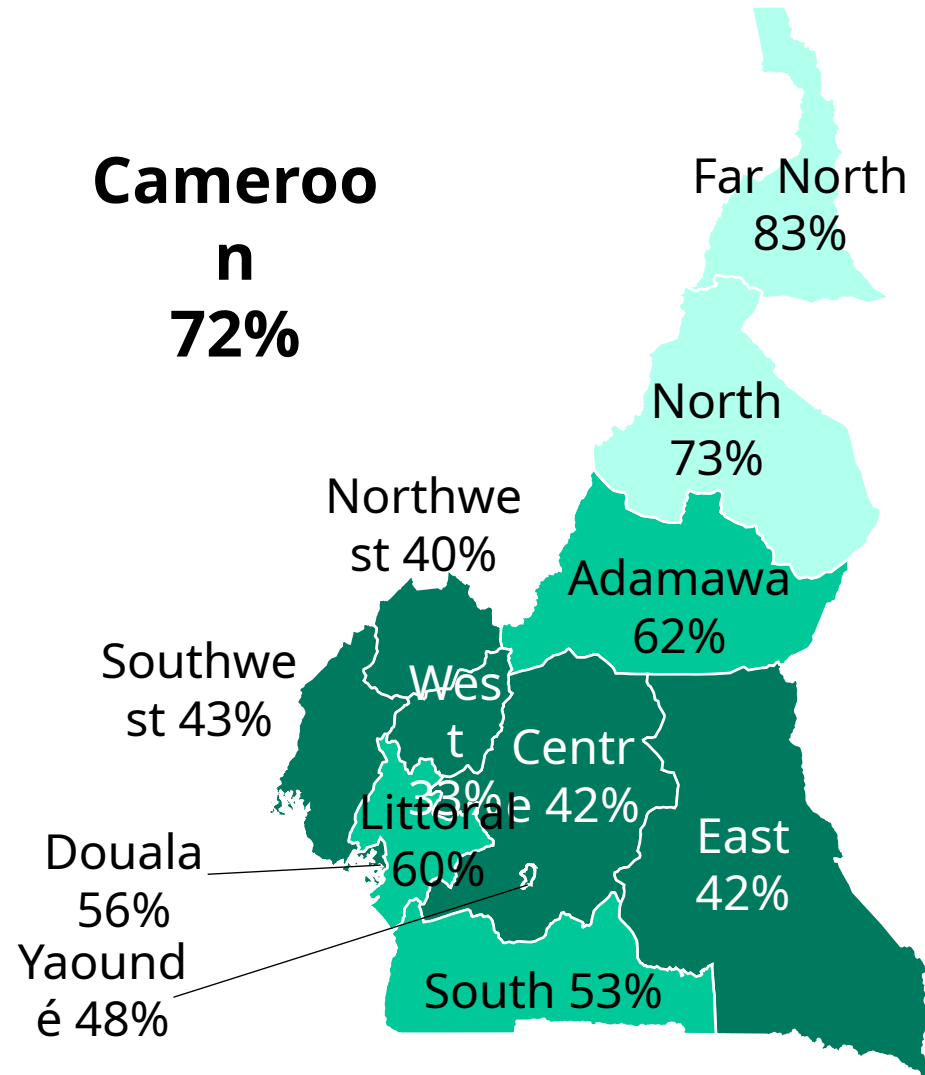


*Percent who slept under an ITN
the night before the survey among
households with at least one ITN*



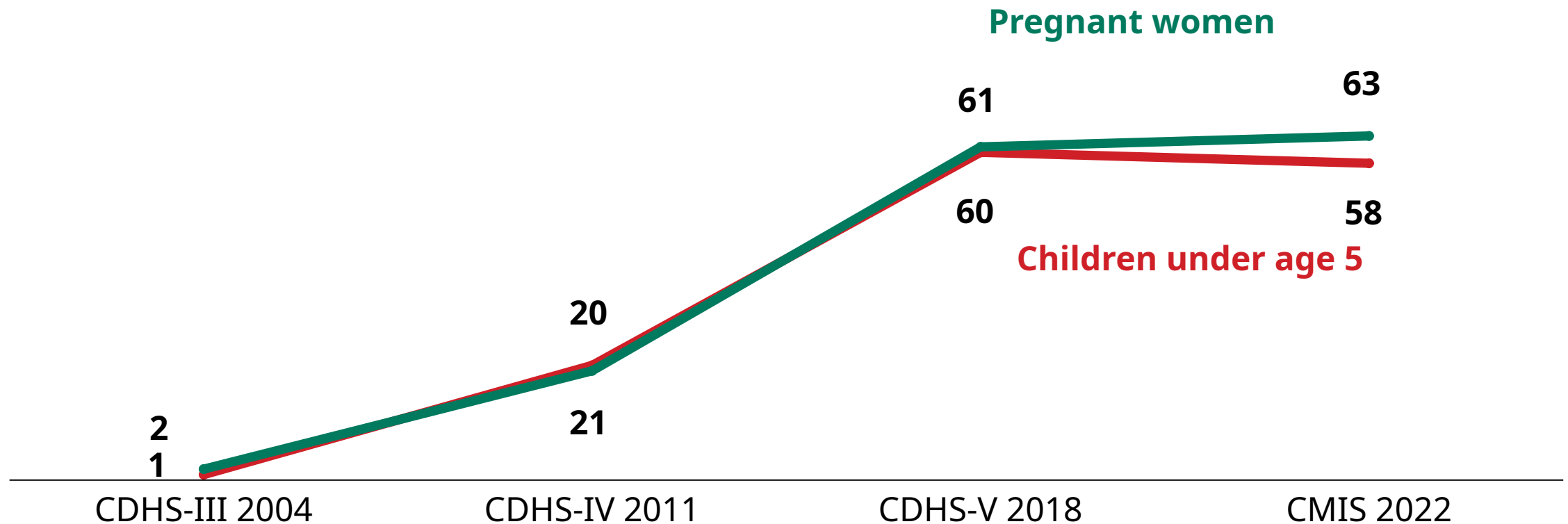
Children's Use of ITNs by Region

Percent of children under age 5 who slept under an ITN the night before the survey



Trends in ITN Use among Children and Pregnant Women

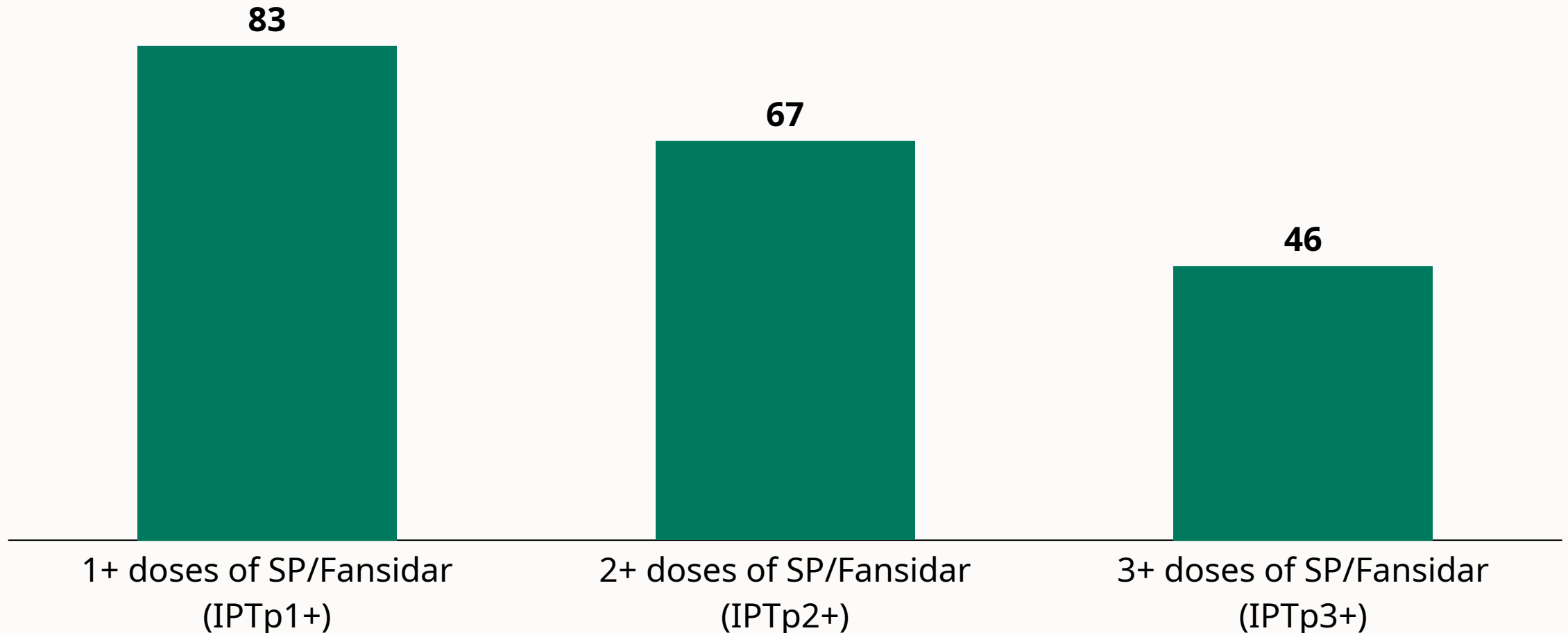
Percent of children under age 5 and pregnant women age 15-49 who slept under an ITN the night before the survey



In DHS surveys in Cameroon until 2011, the definition of an ITN included nets that had been soaked in an insecticide against mosquitoes within the previous 12 months. Since 2011, all mosquito nets distributed are Long-Lasting Treated Nets (LLINs).

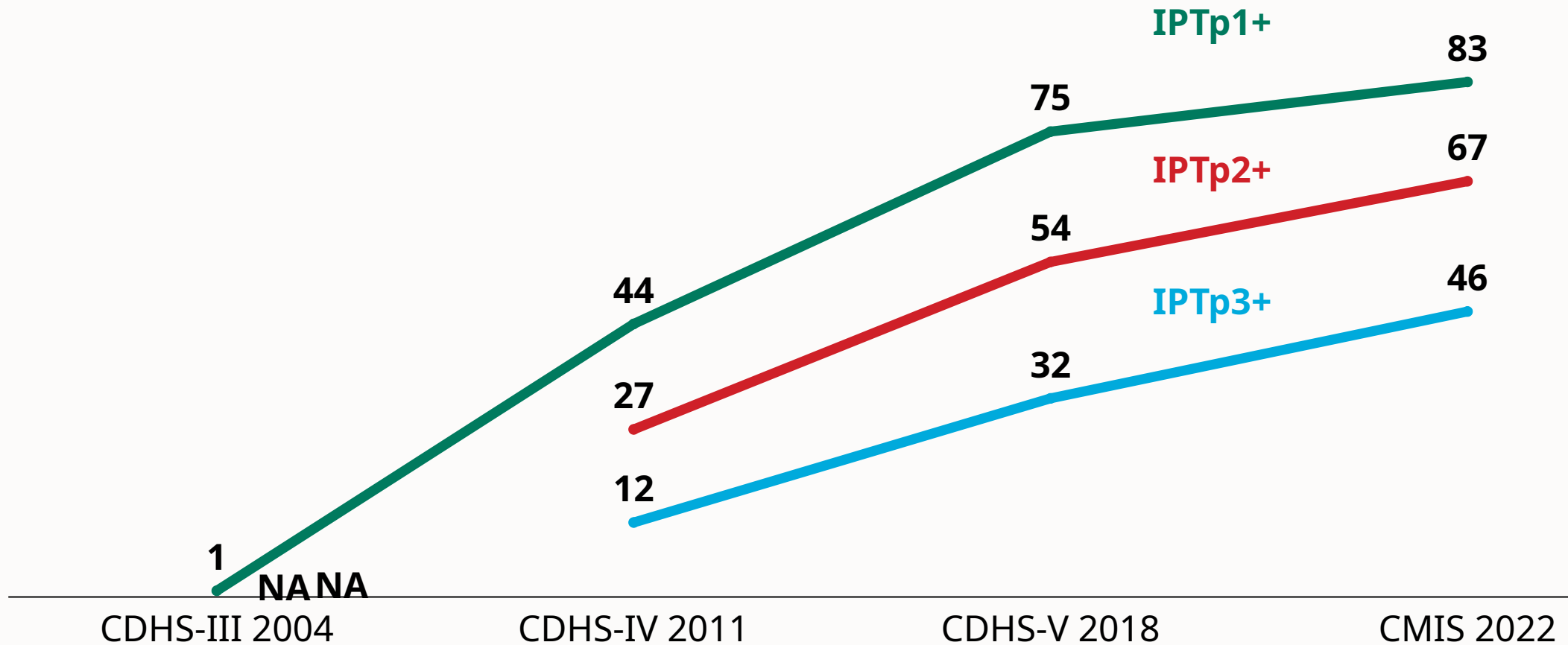
Intermittent Preventive Treatment during Pregnancy (IPTp)

Percent of women age 15-49 with a live birth in the two years before the survey who received:



Trends in IPTp

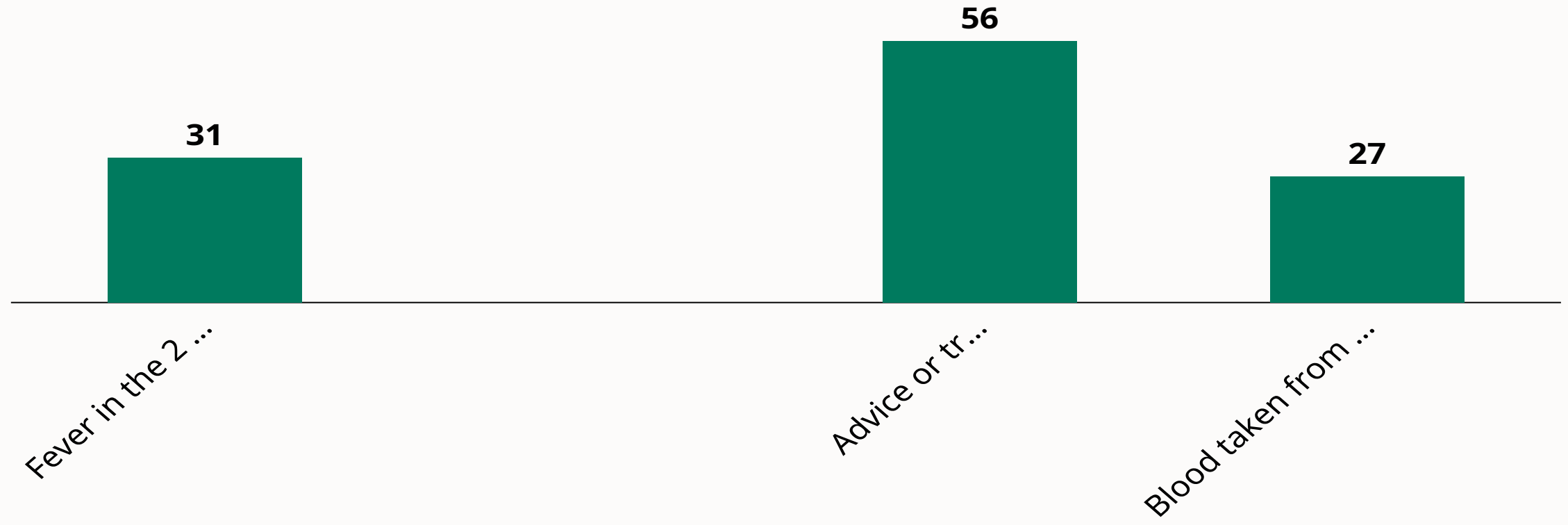
Percent of women age 15-49 with a live birth in the two years before the survey who received:



Fever in Children

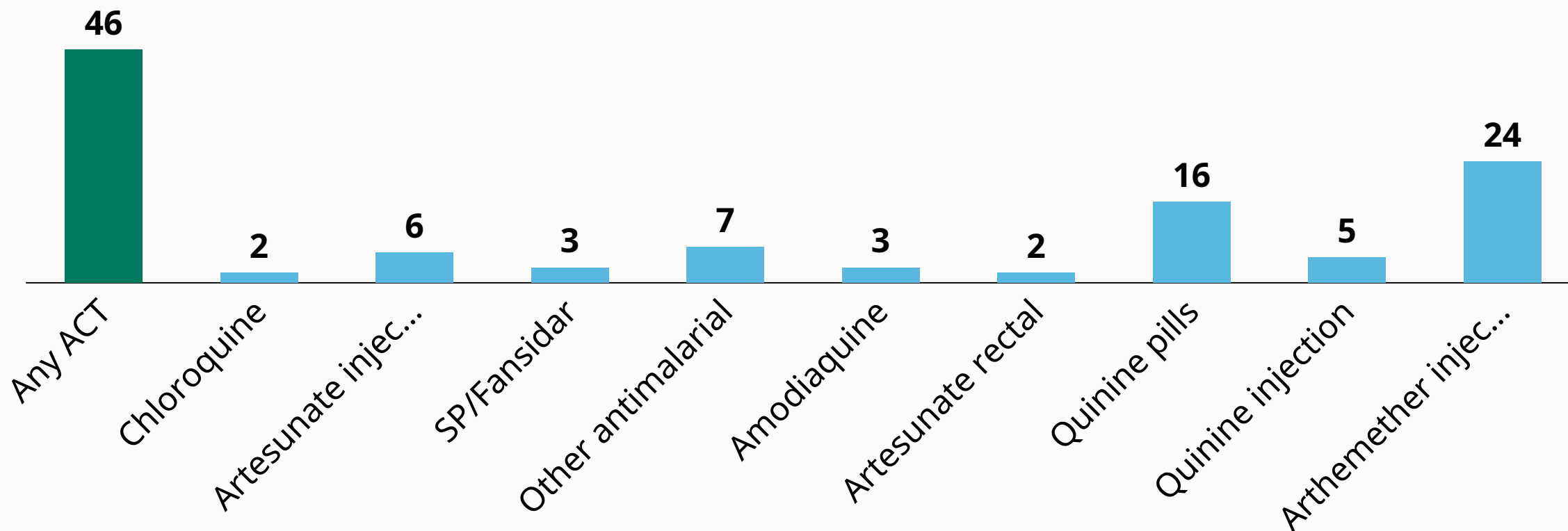
*Percent of children under
age 5*

*Percent of children under age 5 with fever in the 2
weeks before the survey*



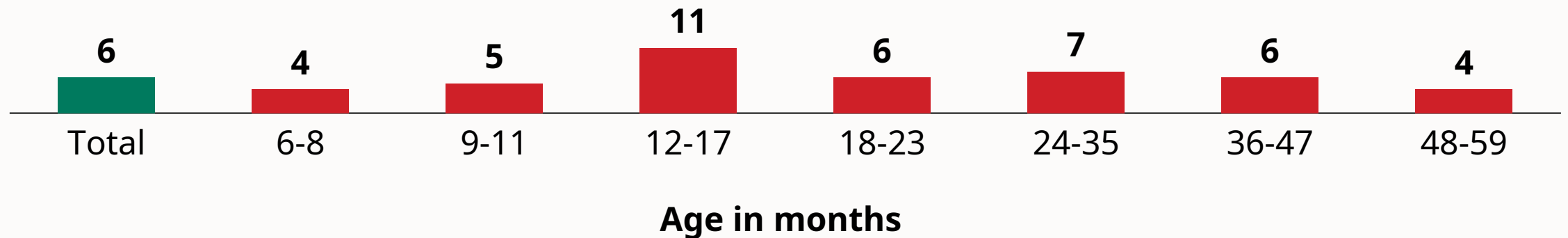
Type of Antimalarial Drugs

Among children under age 5 with fever in the 2 weeks before the survey who took an antimalarial, percent who took:



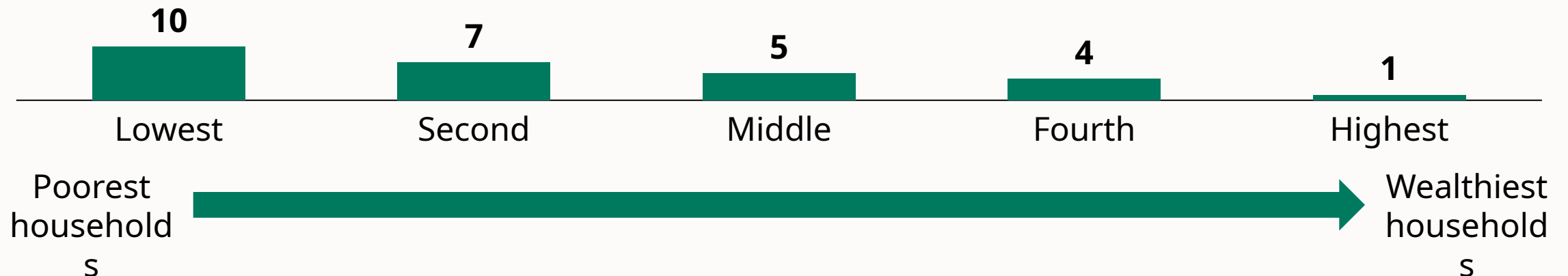
Prevalence of Low Haemoglobin in Children by Age

Percent of children age 6-59 months with moderate-to-severe anaemia (haemoglobin < 8.0 g/dl)



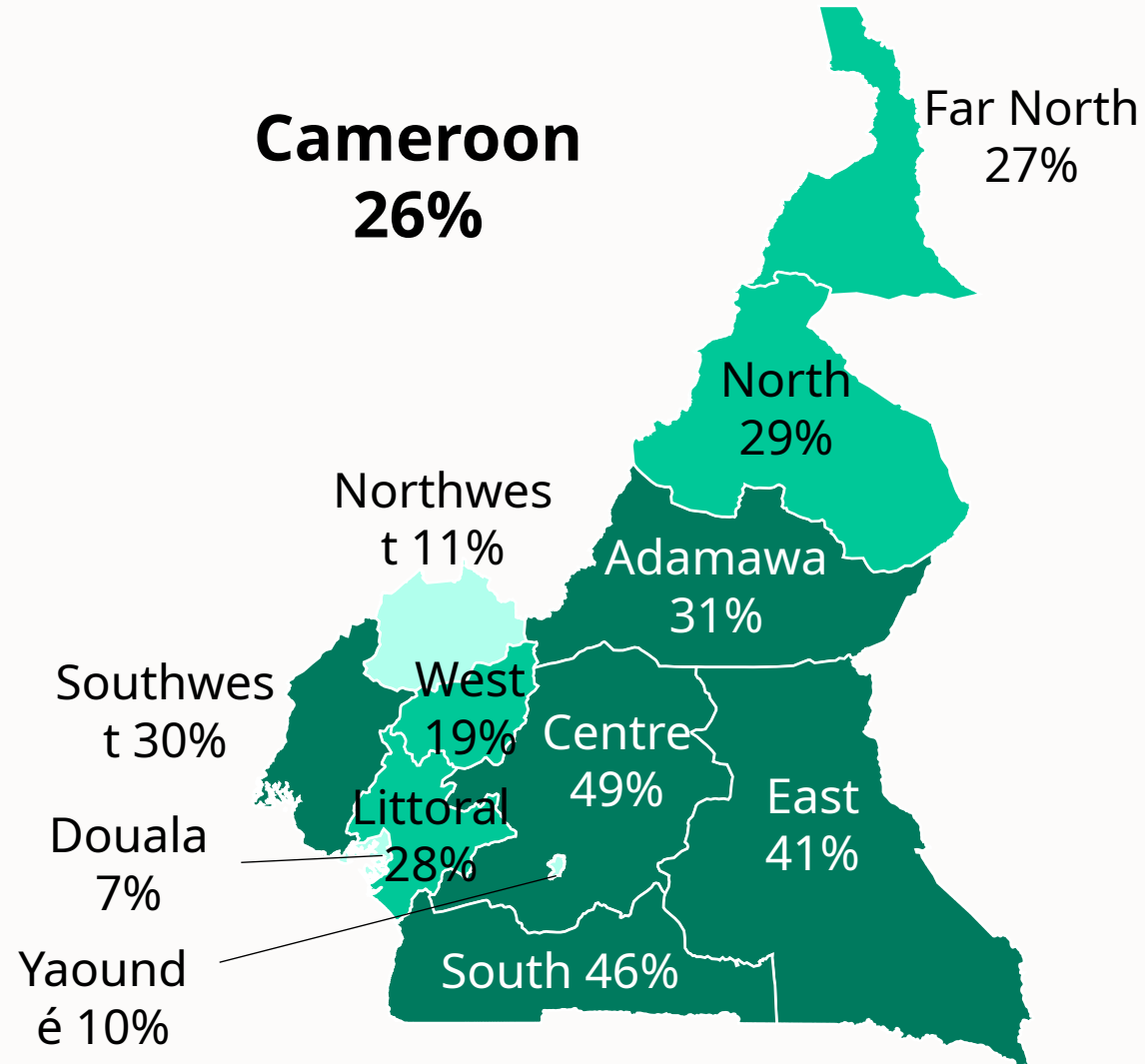
Prevalence of Low Haemoglobin by Wealth

Percent of children age 6-59 months with moderate-to-severe anaemia (haemoglobin < 8.0 g/dl)



Prevalence of Malaria by Region

Percent of children age 6-59 months who tested positive for malaria by RDT



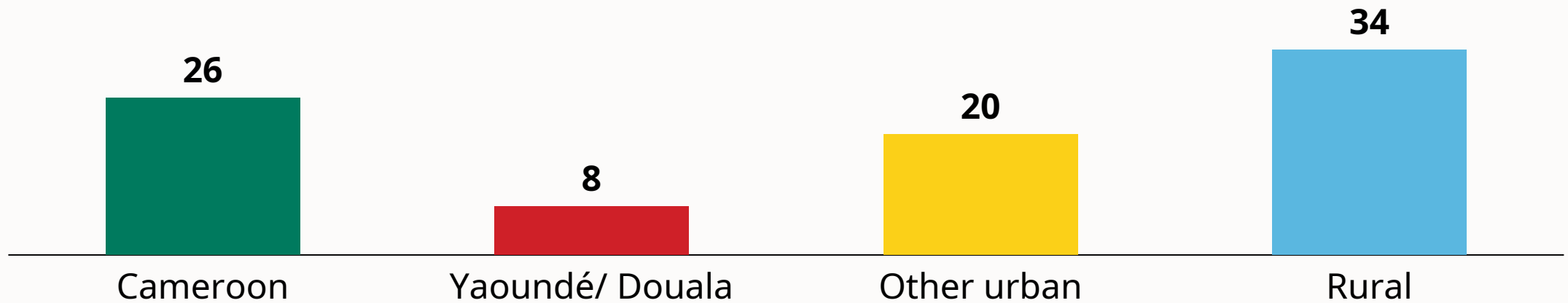
Trends in Prevalence of Low Haemoglobin

Percent of children age 6-59 months with moderate-to-severe anaemia (haemoglobin < 8.0 g/dl)



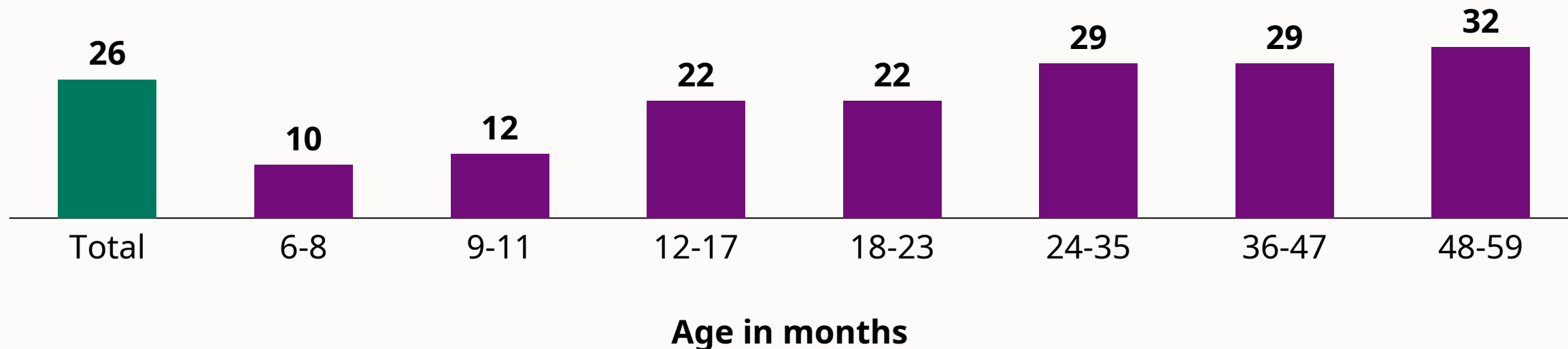
Malaria Prevalence by Residence

Percent of children age 6-59 months who tested positive for malaria by RDT



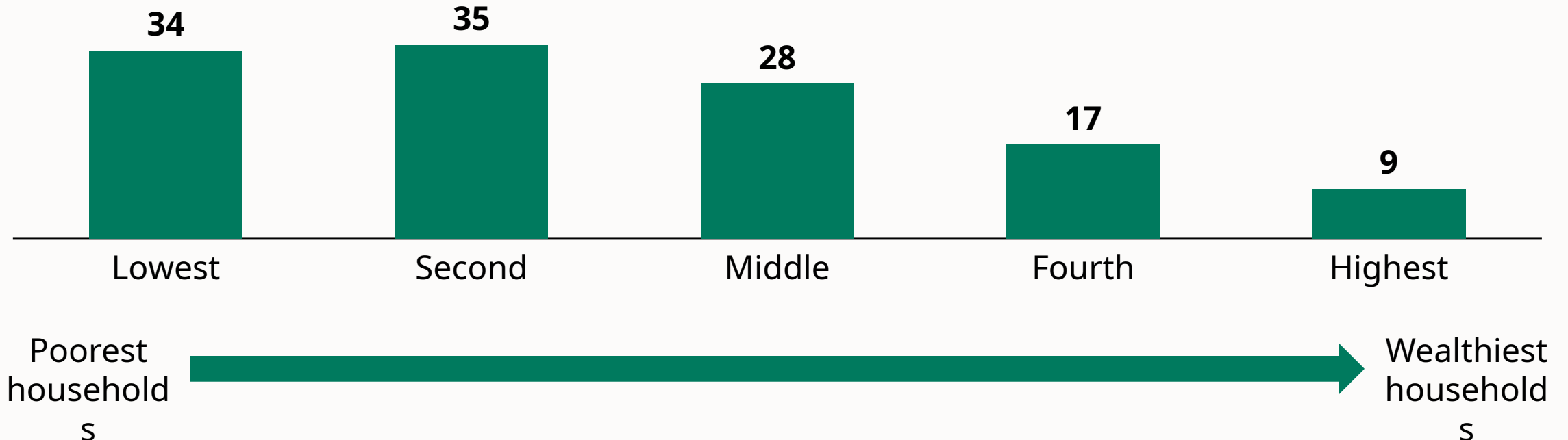
Malaria Prevalence by Age

Percent of children age 6-59 months who tested positive for malaria by rapid diagnostic test (RDT)



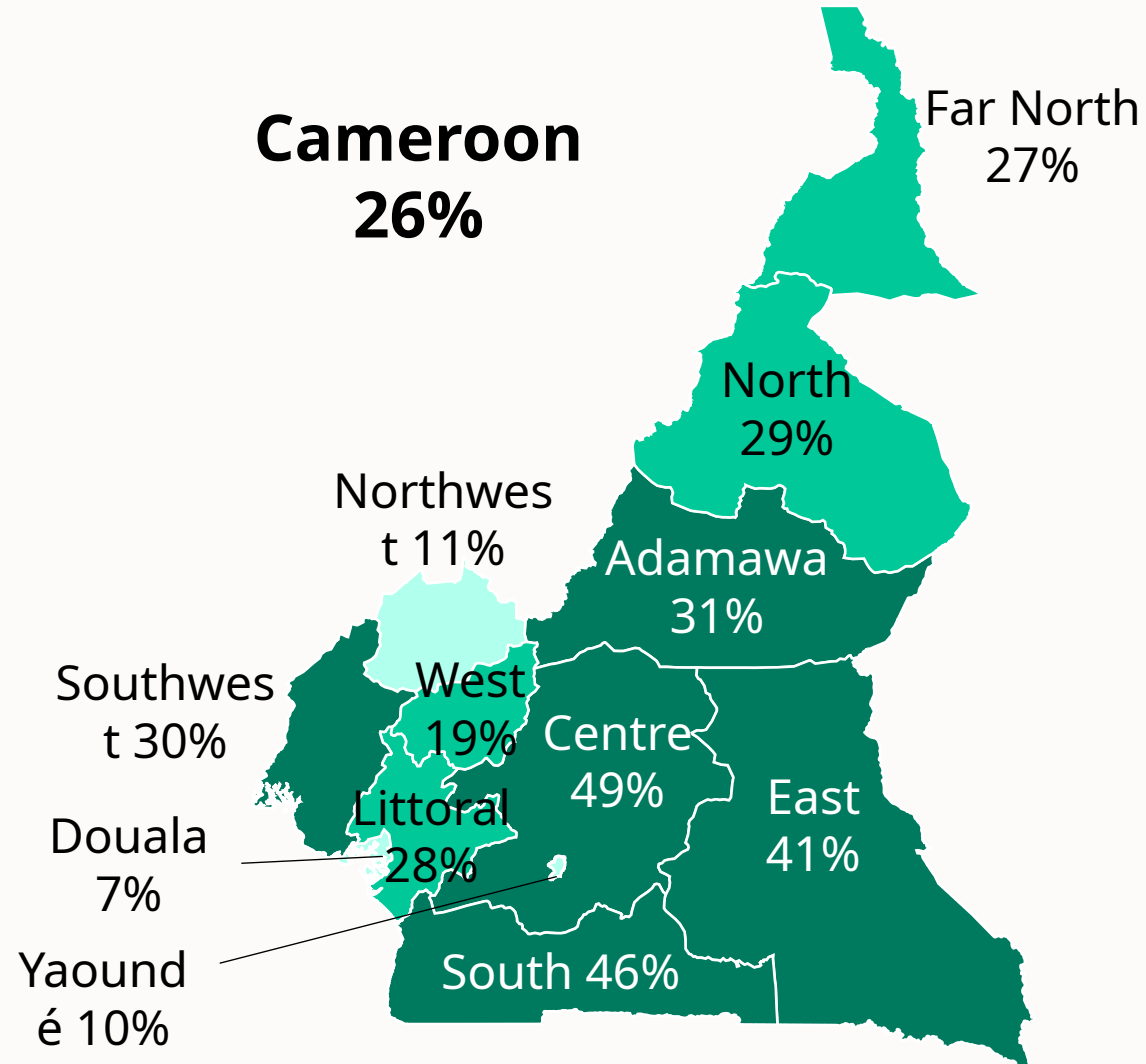
Malaria Prevalence by Wealth

Percent of children age 6-59 months who tested positive for malaria by RDT



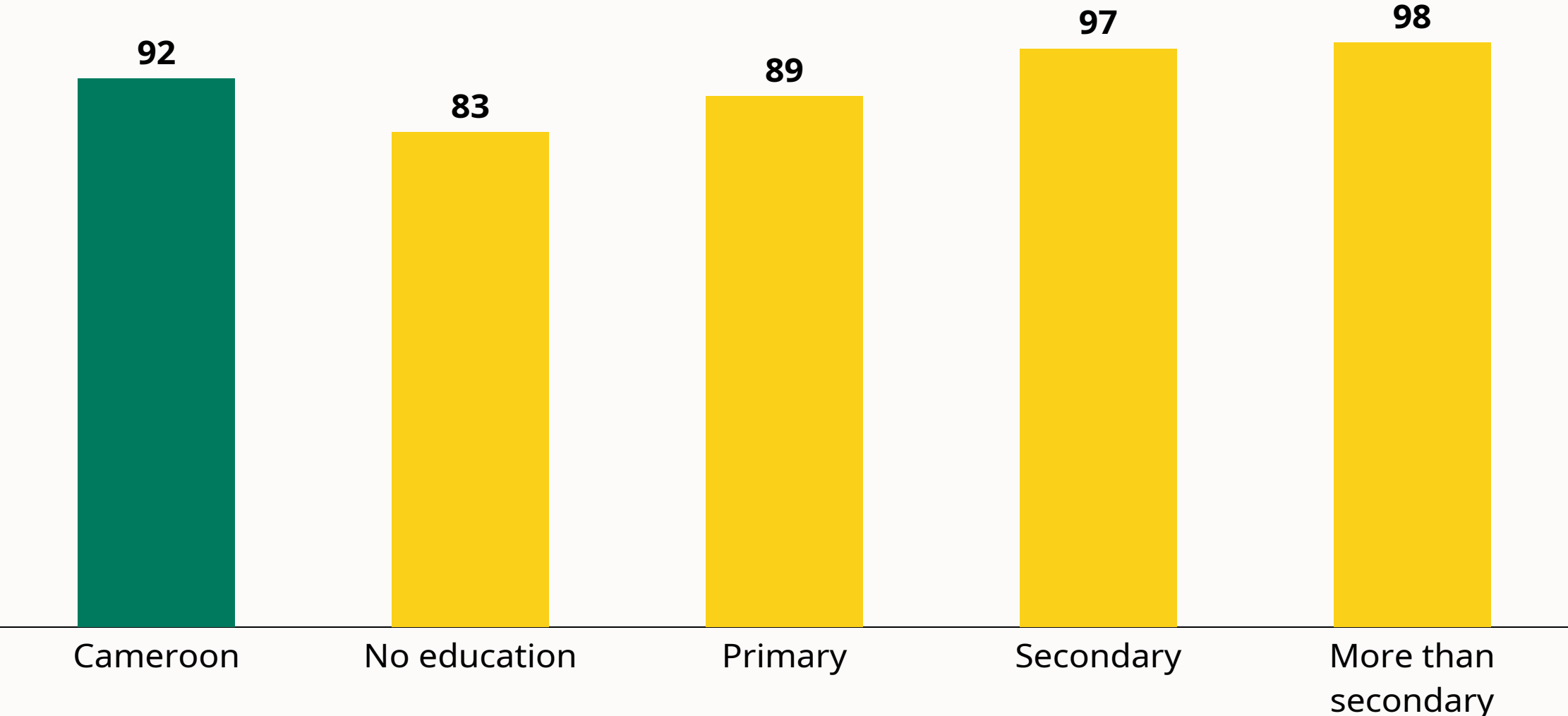
Prevalence of Malaria by Region

Percent of children age 6-59 months who tested positive for malaria by RDT



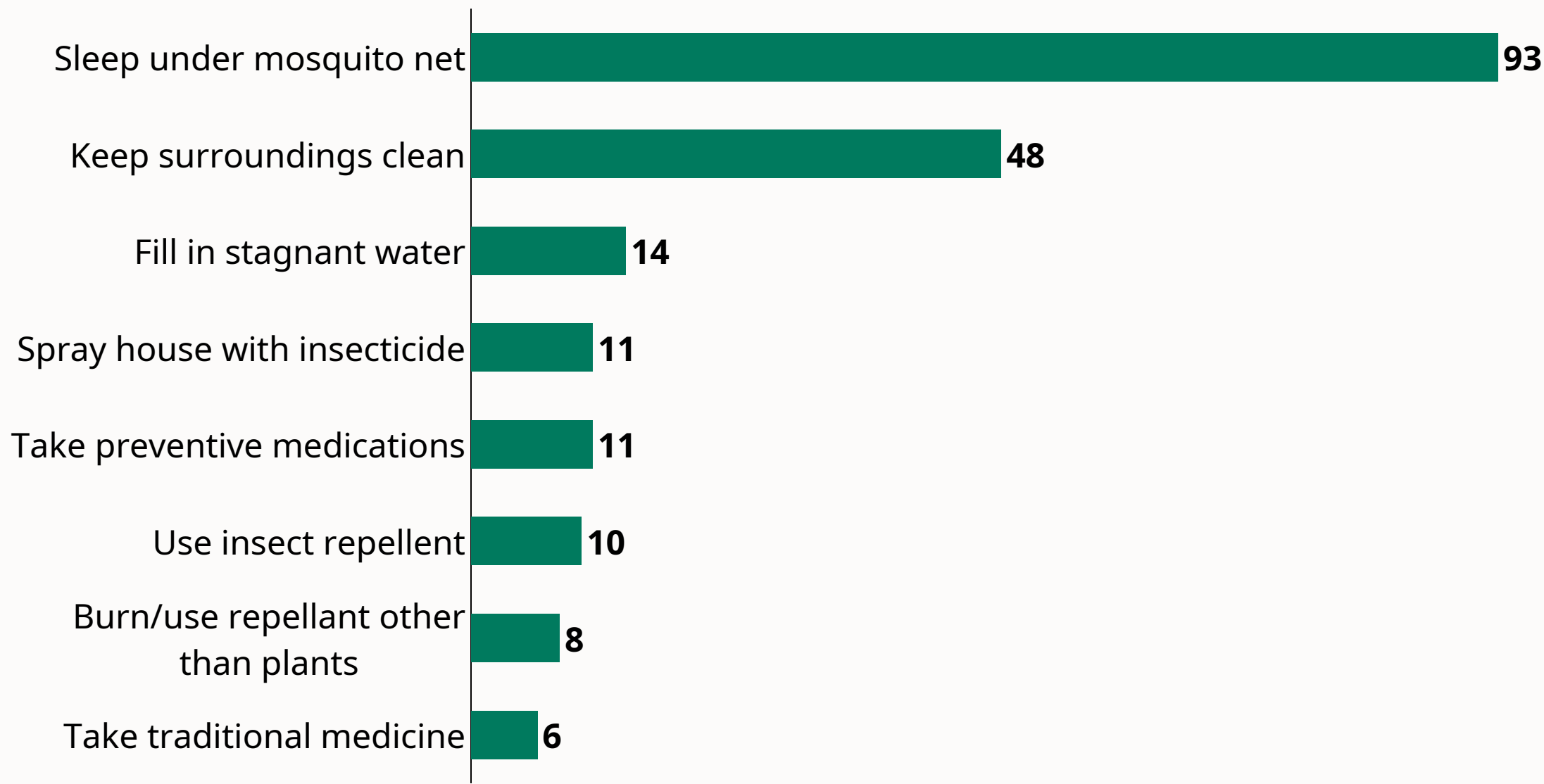
Knowledge of Ways to Avoid Malaria by Education

Percent of women age 15-49 who know there are ways to avoid malaria



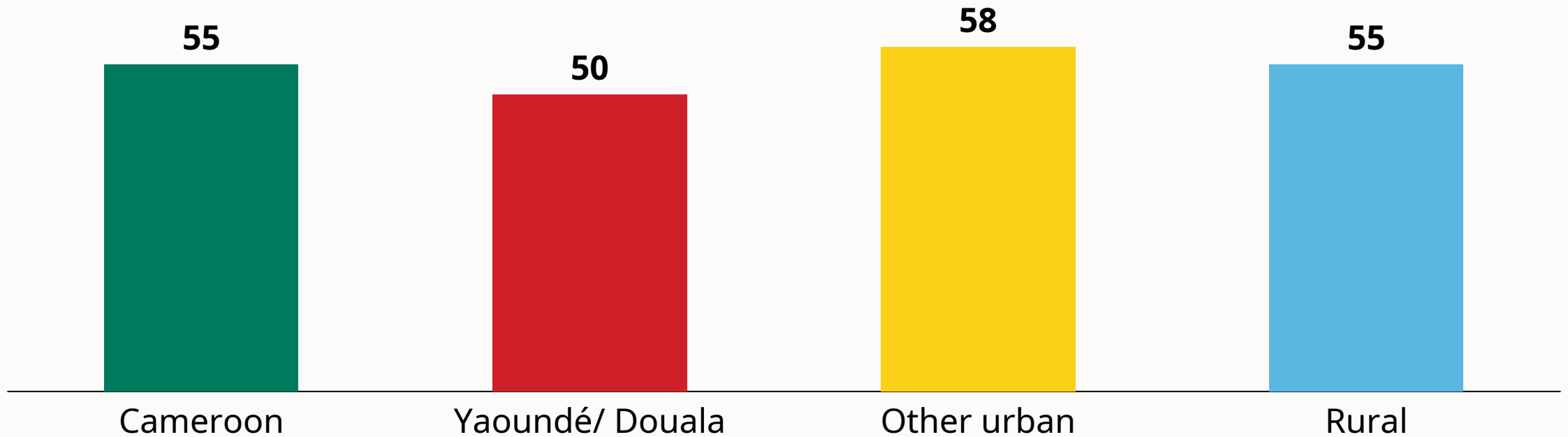
Knowledge of Ways to Prevent Malaria

Percent of women age 15-49 who cite specific ways to avoid malaria



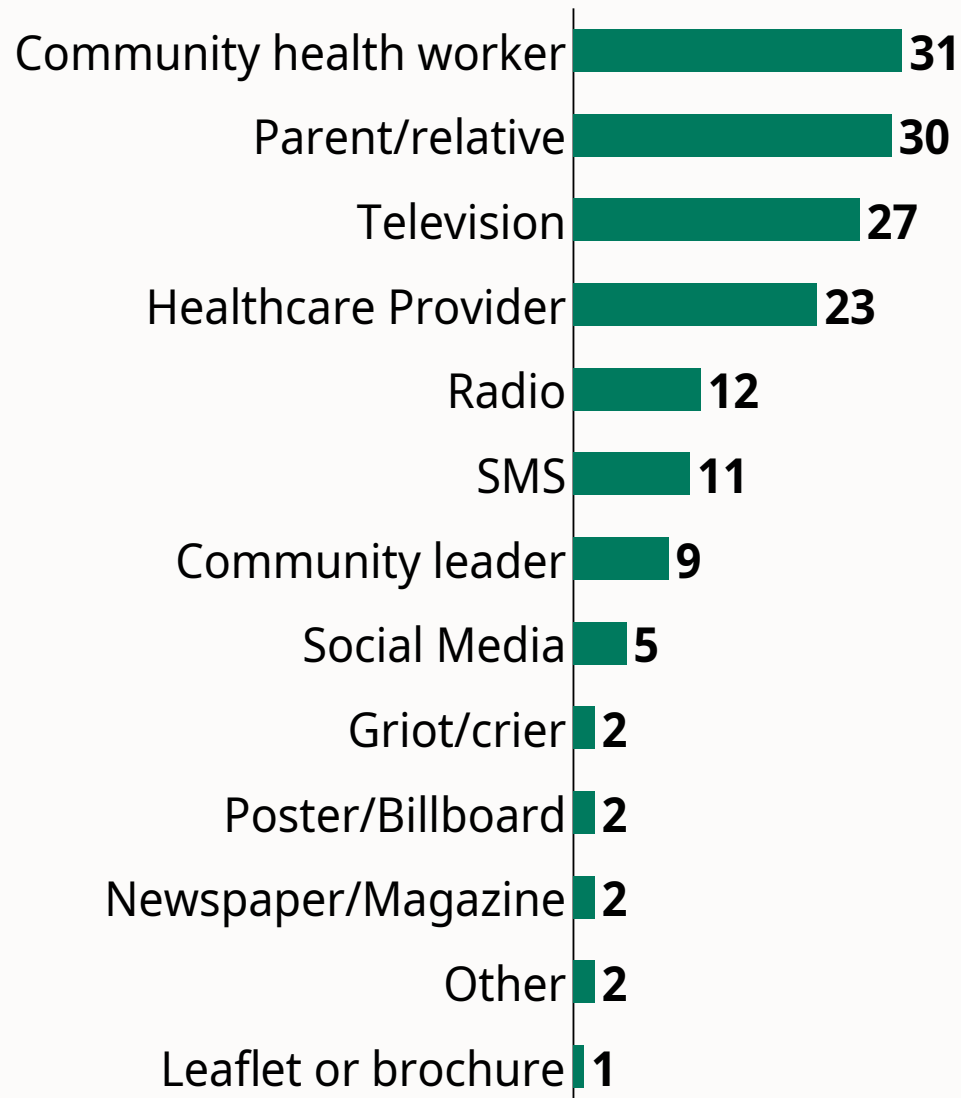
Exposure to Malaria Messages by Residence

Among women age 15-49, percent who have seen or heard a message about malaria in the past 6 months



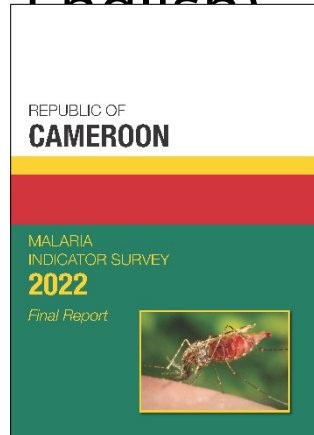
Source of Malaria Messages

Among women age 15-49 who saw or heard a malaria message in the last six months, percent citing specific sources for malaria messages

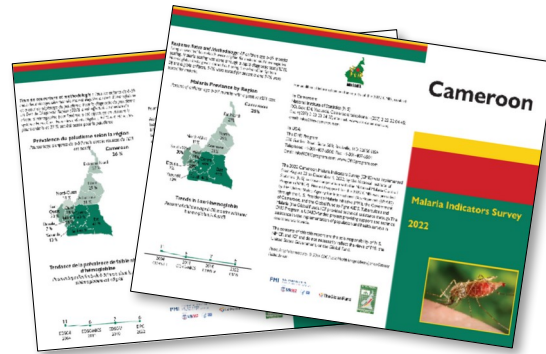


CMIS 2022 Publications, Data, and Digital Tools

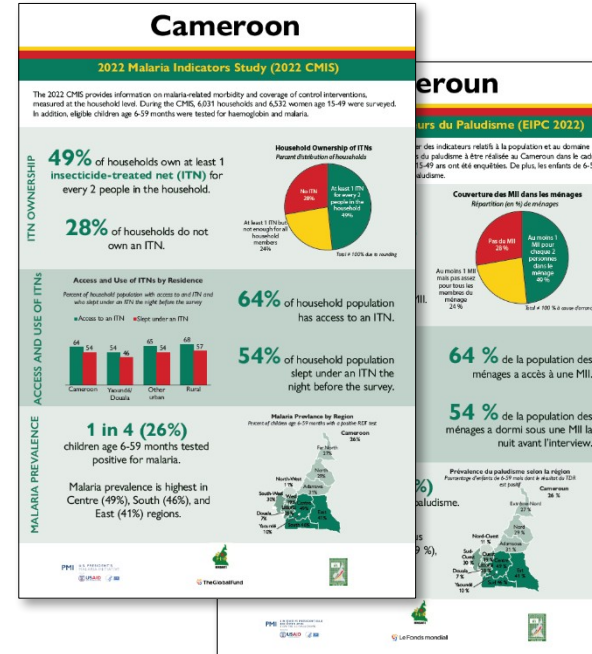
Final Report
(French & English)



Fact Sheets
(French & English)



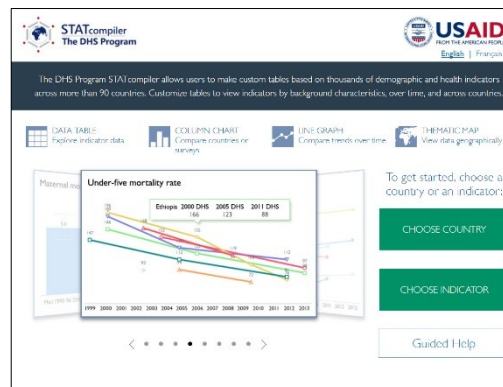
Infographic
(French & English)



Dataset available at [DHSprogram.com](https://dhsprogram.com)



STATcompiler.com



DHS Program
Mobile App for
Android & iOS



API.DHSprogram.com

