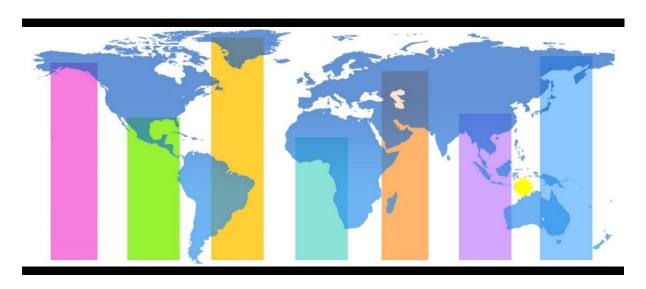
Timor-Leste



Demographic and Health Survey

2016

Key Indicators







Timor-Leste

Demographic and Health Survey 2016

Key Indicators Report

General Directorate of Statistics
Ministry of Finance
Dili, Timor-Leste

The DHS Program ICF Rockville, Maryland, USA

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The 2016 Timor-Leste Demographic and Health Survey (2016 TLDHS) was implemented by the General Directorate of Statistics, Ministry of Finance from 16 September to 22 December 2016. Technical and financial support for the 2016 TLDHS was provided by the Government of Timor-Leste, the United States Agency for International Development (USAID), the United Nations Population Fund (UNFPA), the United Nations Children's Fund (UNICEF), the World Health Organization (WHO), the European Union, and the World Bank. ICF provided technical assistance through The DHS Program, a USAID-funded project that provides support and technical assistance in the implementation of population and health surveys in countries worldwide.

Additional information about the 2016 TLDHS may be obtained from the General Directorate of Statistics, Ministry of Finance Building #5, Palacio do Governo, Dili, Timor-Leste; Telephone +670 333 9646; E-mail: info@mof.gov.tl; Internet: www.mof.gov.tl.

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ABBREVIATIONS

ACT artemisinin-based combination therapy
AIDS acquired immune deficiency syndrome

ANC antenatal care

ARI acute respiratory infection ASFR age-specific fertility rate

BCG Bacille Calmette-Guérin

CAPI computer-assisted personal interviewing

CBR crude birth rate

CPR contraceptive prevalence rate
CSPro Censuses and Surveys Processing

DHS Demographic and Health Survey

DPT diphtheria, pertussis, and tetanus vaccine

EA enumeration area

GDS General Directorate of Statistics, Timor-Leste

GFR general fertility rate

HepB hepatitis B

Hib Haemophilus influenzae Type B HIV human immunodeficiency virus

ITN insecticide-treated net

IUD intrauterine contraceptive device

LAM lactational amenorrhea method LLIN long-lasting insecticidal nets

MOH Ministry of Health

NGO non-governmental organization

ORS oral rehydration salts
ORT oral rehydration therapy

SD standard deviation SDM standard days method

TFR total fertility rate

TLDHS Timor-Leste Demographic and Health Survey

UNICEF United Nations Children's Fund UNFPA United Nations Population Fund

USAID United States Agency for International Development

WHO World Health Organization

FOREWORD

he data collection for the 2016 Timor-Leste Demographic and Health Survey (TLDHS) was implemented between September 16 and December 22, 2016, by the General Directorate of Statistics (GDS), Ministry of Finance in collaboration with the Ministry of Health. The Demographic and Health Surveys (DHS) Program is a global program coordinated by ICF in Rockville, Maryland, USA. Technical and financial support for the 2016 TLDHS was provided by the Government of Timor-Leste, the United States Agency for International Development (USAID), the United Nations Population Fund (UNFPA), the United Nations Children's Fund (UNICEF), the World Health Organization (WHO), the European Union, and the World Bank.

The main purpose of the 2016 TLDHS is to provide the data needed to monitor and evaluate population, health, and nutrition programs on a regular basis. The TLDHS provides a comprehensive overview of population and maternal and child health issues, and the data are freely accessible to all stakeholders. This Key Indicators report presents selected findings from the survey.

The 2016 TLDHS covers household and respondent characteristics, fertility and family planning, infant and child health and mortality, maternal health and maternal and adult mortality, child and adult nutrition, malaria, HIV/AIDS, disability, early childhood development, non-communicable diseases, and gender-based violence. The survey also included measuring the height and weight of children and adults and testing children and adults for anemia; these measures will provide data for analysis of nutrition indicators throughout the country.

Special thanks go to the TLDHS team that oversaw the implementation of the 2016 TLDHS. I would also like to thank all the respondents and the community that participated in providing information during the survey field work.

H.E. Helder Lopes Vice Minister for Finance

1 INTRODUCTION

he General Directorate of Statistics (GDS), Ministry of Finance conducted the Timor-Leste Demographic and Health Survey (TLDHS) from September 16 through December 22, 2016, with a nationally representative sample of 11,829 households. All selected households were eligible for interview with the Household Questionnaire and for anthropometry measurements among women age 15-49 years and children age 0-59 months. All women age 15-49 in selected households were eligible for individual interviews. In a subsample of one-third of households, men age 15-59 were eligible for interview with the Man's Questionnaire and for anthropometry measurement. Additionally, in that same subsample, men, women, and children were eligible for anemia testing. All data was directly recorded using Computer Assisted Personal Interviewing (CAPI) on tablet computers.

ICF provided technical assistance through The DHS Program, which is funded by the United States Agency for International Development (USAID), and which offers support and technical assistance for the implementation of population and health surveys in countries worldwide.

Technical and financial support for the 2016 TLDHS was provided by the Government of Timor-Leste, the United States Agency for International Development (USAID), the United Nations Population Fund (UNFPA), the United Nations Children's Fund (UNICEF), the World Health Organization (WHO), the European Union, and the World Bank.

This Key Indicators report presents selected findings of the 2016 TLDHS. A comprehensive analysis of the survey data will be presented in a final report to be published in late 2017.

1.1 SURVEY OBJECTIVES

The 2016 Timor-Leste Demographic and Health Survey (TLDHS) was designed to provide information to monitor and evaluate population and health status in Timor-Leste. Accordingly, the 2016 TLDHS collected information on fertility levels, marriage, sexual activity, fertility preferences, breastfeeding practices, and awareness and use of family planning methods. The 2016 TLDHS also generated other indicators relevant to the Sustainable Development Goals (SDGs). The survey protocol was reviewed and approved by the ICF Institutional Review Board.

The primary objective of the 2016 TLDHS is to provide current estimates of basic demographic and health indicators. More specifically, the 2016 TLDHS:

- Collected data at the national level, which allows the calculation of key demographic indicators, particularly fertility, and child, adult, and maternal mortality rates
- Provided data to explore the direct and indirect factors that determine the levels and trends of fertility and child mortality
- Measured the levels of contraceptive knowledge and practice
- Obtained data on key aspects of maternal and child health, including immunization coverage, prevalence and treatment of diarrhea and other diseases among children under age 5, and maternity care, including antenatal visits and assistance at delivery
- Obtained data on child feeding practices, including breastfeeding, and collected anthropometric measures to assess nutritional status in children, women, and men
- Measured anemia in women, men, and children

- Collected data on the knowledge and attitudes of women and men about sexually-transmitted diseases and HIV/AIDS, potential exposure to the risk of HIV infection (risk behaviors and condom use), coverage of HIV testing and counseling, and other key HIV/AIDS programs
- Measured key education indicators, including school attendance ratios, level of educational attainment, and literacy levels
- Collected information on the extent of disability
- Collected information on non-communicable diseases
- Collected information on early childhood development
- Collected information on the extent of gender-based violence

2 SURVEY IMPLEMENTATION

2.1 SAMPLE DESIGN

he sampling frame used for the 2016 TLDHS is the 2015 Timor-Leste Population and Housing Census (2015 TLPHC) provided by the Timor-Leste General Directorate of Statistics (GDS). The sampling frame is a complete list of enumeration areas (EAs) created for the 2015 population census. In the 2015 TLPHC, there are an average of 89 households per EA. The sampling frame contains information about the administrative unit, the type of residence, the number of residential households, and the male and female population in each of the EAs.

There are five geographic regions in Timor-Leste, and these are subdivided into 12 municipalities and special administrative region (SAR) Occussi. The 2016 TLDHS sample was designed to produce reliable estimates of indicators for the country as a whole, for urban and rural areas, and for each of the 13 municipalities. A representative probability sample of approximately 12,000 households was drawn; the sample was stratified and selected in two stages. In the first stage, 455 EAs were selected with probability proportional to EA size from the 2015 TLPHC: 129 EAs in urban areas and 326 EAs in rural areas. In the second stage, 26 households were randomly selected within each of the 455 EAs; the sampling frame for this household selection was the 2015 TLPHC household listing available from the census database. It was decided not to conduct a standard DHS household listing operation because the 2015 TLPHC listing was less than a year old and there were constraints on the survey's funding and timeline.

In the list of households provided by the 2015 TLPHC, each dwelling was identified by a unique number, its GIS coordinates, and a computerized map indicating the dwelling's position. At the time of fieldwork, GDS also provided the names of the household heads for the selected households. These data were uploaded to the tablet computers used for data collection to assist survey teams in locating the selected households. Interviewers only contacted pre-selected households. The sample design and sample size calculations took into consideration anticipated rates of non-response at the household and individual levels. No replacements or changes of the pre-selected households were allowed in order to prevent bias. Because of the non-proportional sample allocation to the sampling strata and the fixed sample size per cluster, the survey is not self-weighting. The resulting data have, therefore, been weighted to be representative at the national and domain levels.

All selected households were eligible for an interview with the Household Questionnaire. All women age 15-49 and children age 0-59 months who were either permanent residents of the selected households or visitors who stayed in the household the night before the survey were eligible for anthropometric measurements, and these women were eligible for interview. In one-third of the sampled households, all men age 15-59, including both usual residents and visitors who stayed in the household the night before the interview, were eligible for individual interview. In the subsample of households selected for the men's interview, anemia testing was performed among consenting women age 15-49 and consenting men age 15-59, and among children age 6-59 months whose parents or guardians consented. In addition, a subsample consisting of one eligible woman in two-thirds of households (those households not selected for the men's interviews) was randomly selected to be asked questions about gender-based violence.

2.2 QUESTIONNAIRES

Four questionnaires were used for the 2016 TLDHS: the Household Questionnaire, the Woman's Questionnaire, the Man's Questionnaire, and the Biomarker Questionnaire. These questionnaires, based on The DHS Program's standard Demographic and Health Survey questionnaires, were adapted to reflect the population and health issues relevant to Timor-Leste. Feedback was solicited from various stakeholders representing government ministries and agencies, non-governmental organizations, and development partners. After the preparation of the questionnaires in English, the questionnaires were translated into Tetum. Each questionnaire was programmed into the tablet computers to facilitate computer-assisted personal interviewing (CAPI).

The Household Questionnaire listed all members of and visitors to the selected households. Basic demographic information was collected on the characteristics of each person, including age, sex, marital status, education, and relationship to the head of the household. Parents' survival status was collected for children under age 18. Data on age and sex of household members obtained in the Household Questionnaire were used to identify women and men who were eligible for individual interviews and to identify women, men, and children eligible for anthropometry measurement and anemia testing. The Household Questionnaire also collected information on characteristics of the household dwelling, including source of water, type of toilet facilities, materials used to construct the house, ownership of various consumer goods, use of iodized salt, and types and use of mosquito nets. Finally, the Household Questionnaire included a set of questions on disability, based on the module developed by the Washington Group, asked for all household members age 5 and above.

The Woman's Questionnaire collected information from all eligible women age 15-49. Women were asked questions on:

- Background characteristics (age, education, literacy, religion, etc.)
- Reproductive history
- Knowledge and use of contraceptive methods
- Antenatal, delivery, and postnatal care
- Breastfeeding and infant feeding practices
- Immunization, child health, and nutrition
- Marriage and recent sexual activity
- Fertility preferences
- Husband's background and respondent's work
- Knowledge about HIV/AIDS and other sexually transmitted diseases
- Other health issues, for example, recent injections, smoking habits, and alcohol use
- Adult and maternal mortality
- Gender-based violence (one woman per household)
- Early childhood development
- Youth
- Non-communicable diseases

The Man's Questionnaire was administered to all men age 15-59 in the subsample of households selected for the men's interview. The Man's Questionnaire collected much of the same information elicited with the Woman's Questionnaire, although it was shorter and did not contain a detailed reproductive history or questions on maternal and child health.

The Biomarker Questionnaire recorded the anthropometry measurements and anemia testing results.

Interviewers used tablet computers to record all questionnaire responses during the interviews. The tablet computers had Bluetooth® technology to enable remote electronic transfer of files, such as assignments from the team supervisor to the interviewers, individual questionnaires among survey team members, and completed questionnaires from interviewers to team supervisors. The CAPI data collection system was developed by The DHS Program with the mobile version of CSPro. The CSPro software was developed jointly by the U.S. Census Bureau, Serpro S.A., and The DHS Program.

2.3 ANTHROPOMETRY MEASUREMENT AND ANEMIA TESTING

The 2016 TLDHS conducted anthropometry measurement and anemia testing. Women age 15-49 years and children age 0-59 months were eligible for anthropometry measurement in all households. In one-third of the sampled households, men age 15-59 were also eligible for anthropometry measurement. In this subsample, anemia testing was performed among consenting women age 15-49 and men age 15-59 years and among children age 6-59 months whose parents or guardians consented.

Anthropometry. Height and weight measurements were recorded for children age 0-59 months, women age 15-49, and men age 15-59.

Anemia testing. Blood specimens for anemia testing were collected from eligible women and men who voluntarily consented to be tested and from all children age 6-59 months for whom consent was obtained from their parents or the adult responsible for the children. Blood samples were obtained from a drop of blood taken from a finger prick (or a heel prick for children age 6-11 months). A drop of blood from the prick site was drawn into a microcuvette, and hemoglobin analysis was carried out on-site with a battery-operated portable HemoCue analyser. Results were provided verbally and in writing. Parents of children with a hemoglobin level below 7 g/dl were instructed to take the child to a health facility for follow-up care. Likewise, nonpregnant women, pregnant women, and men were referred for follow-up care if their hemoglobin levels were below 9 g/dl, 7 g/dl, and 9 g/dl, respectively. All households in which anemia testing was conducted were given a brochure that explained the causes and prevention of anemia.

2.4 TRAINING

2.4.1 Pretest

Pretest training took place from June 13 to July 6, 2016, at the GDS offices in Dili, Timor-Leste. The TLDHS technical team and The DHS Program staff trained 24 participants to administer the Household, Woman's, Man's, and Biomarker questionnaires with tablet computers, to take anthropometric measurements, and to collect blood samples for anemia testing. Participants were staff from GDS and the Ministry of Health (MOH). Classroom training addressed all aspects of the questionnaire content and interviewing procedures and included practice in taking anthropometric measurements and testing blood for anemia. Pretest fieldwork took place from July 7 through July 12 in eight clusters comprising a mixture of rural and urban settings near Dili (these clusters were not included in the 2016 TLDHS survey sample). After the fieldwork, on July 13, a debriefing workshop was held to look at the issues emanating from the pretest. Feedback from the debriefing was used to finalize the questionnaires and to improve field logistics before the main training and the actual survey.

2.4.2 Training of Trainers

Following the pretest, The DHS Program staff conducted a two-day training of trainers on July 15 and July 16 with the participants of the pretest. Sessions highlighted adult learning principles and guidelines on conducting effective training. The participants worked in groups to develop lesson plans on these questionnaire topics using various training techniques, for example, a slide presentation, flip charts, an interactive question-and-answer session, a case study, and role play. They were encouraged to develop participatory methods for the training. These participants were trained to be involved during the pretest, lead specific sessions during the main training, and also monitor the fieldwork of the survey.

2.4.3 Main Training

The TLDHS Main Training took place from August 10 to September 13, 2016, at two government facilities in Dili, Timor-Leste, and was attended by 120 trainees, consisting of 80 women and 40 men. Questionnaire-related training included instruction on interviewing techniques and field procedures, questionnaire content, administering questionnaires via CAPI on tablet computers, and mock interviews between participants in the classroom. Biomarker-related training topics included lectures, demonstrations of measurement and testing procedures, and standardization of height and weight measurements. The training was led by the TLDHS technical team and DHS Program staff; guest speakers from the Ministry of Health and from the GDS Geographic Information Systems (GIS) team supplemented the training.

Three days of field practice were organized to provide trainees with additional hands-on practice before the actual fieldwork. Participants were evaluated through classwork, in-class exercises, quizzes, and observations conducted during field practice. The selection of supervisors and field editors was based on

experience in leading survey teams and performance during the pretest and main training. Supervisors and field editors received additional instruction and practice on performing supervisory activities with the CAPI system. These activities included assigning households and receiving completed interviews from interviewers, recognizing and dealing with error messages, receiving a system update and distributing updates to interviewers, resolving duplicated cases, closing clusters, and transferring interviews to the central office via a secure Internet file streaming system (IFSS). In addition to training on the CAPI material, supervisors and field editors received instruction on their roles and responsibilities.

2.5 FIELDWORK

Data collection was conducted by 20 field teams, each consisting of one superviser, one editor, three female interviewers, one male interviewer, one health technician, and one driver. Supervisors were responsible for the team, contacting local officials, locating and assigning the selected households, maintaining the pace of work, conducting household interviews as needed, and assisting with and providing oversight to anthropometry measurement. Editors were responsible for transferring questionnaires to interviewers, collecting completed questionnaires, resolving inconsistencies in questionnaires, completing the cluster data file, transferring data to the central office, and observing interviews. Interviewers were responsible for conducting household and individual interviews with eligible respondents, anthropometry measurement, and anemia testing.

Electronic data files were collected from each interviewer's tablet computer every day. Data was transferred data to the central data processing office via IFSS. Staff from GDS, MOH, USAID, UNFPA, and The DHS Program coordinated and supervised fieldwork activities. Data collection took place over a 3-month period, from September 16 to December 22, 2016.

2.6 DATA PROCESSING

All electronic data files for the 2016 TLDHS were transferred via IFSS to the GDS central office in Dili, where they were stored on a password-protected computer. The data processing operation included registering and checking for inconsistencies, incompleteness, and outliers. Data editing and cleaning included structure and consistency checks to ensure completeness of work in the field. The central office also conducted secondary editing, which required resolution of computer-identified inconsistencies and coding of open-ended questions. The data were processed by two staff who took part in the main fieldwork training. Data editing was accomplished with CSPro software. Secondary editing and data processing were initiated in October 2016 and completed in February 2017.

3 KEY FINDINGS

3.1 RESPONSE RATES

able 1 shows response rates for the 2016 TLDHS. A total of 11,829 households were selected for the sample, of which 11,660 were occupied. Of the occupied households, 11,502 were successfully interviewed, which yielded a response rate of 99 percent.

In the interviewed households, 12,998 eligible women were identified for individual interviews. Interviews were completed with 12,607 women, yielding a response rate of 97 percent. In the subsample of households selected for the men's interviews, 4,878 eligible men were identified and 4,622 were successfully interviewed, yielding a response rate of 95 percent. Response rates were higher in rural than in urban areas, with the difference being more pronounced among men (97 percent versus 90 percent, respectively) than among women (98 percent versus 94 percent, respectively). The lower response rates for men were likely due to their more frequent and longer absences from the household.

Table 1 Results of the household and individual interviews

Number of households, number of interviews, and response rates, according to residence (unweighted), Timor-Leste DHS 2016

| | Resi | dence | _ |
|---|-------|-------|--------|
| Result | Urban | Rural | Total |
| Household interviews | | | |
| Households selected | 3,355 | 8,474 | 11,829 |
| Households occupied | 3,288 | 8,372 | 11,660 |
| Households interviewed | 3,215 | 8,287 | 11,502 |
| Household response rate ¹ | 97.8 | 99.0 | 98.6 |
| Interviews with women age 15-49 | | | |
| Number of eligible women | 4,592 | 8,406 | 12,998 |
| Number of eligible women interviewed | 4,337 | 8,270 | 12,607 |
| Eligible women response rate ² | 94.4 | 98.4 | 97.0 |
| Interviews with men age 15-59 | | | |
| Number of eligible men | 1,666 | 3,212 | 4,878 |
| Number of eligible men interviewed | 1,497 | 3,125 | 4,622 |
| Eligible men response rate ² | 89.9 | 97.3 | 94.8 |

¹ Households interviewed/households occupied

3.2 CHARACTERISTICS OF RESPONDENTS

Table 2 shows the weighted and unweighted numbers and the weighted percent distributions of women and men age 15-49 interviewed in the 2016 TLDHS, by background characteristics. Slightly more than one-half of respondents are under age 30 (57 percent of women and 55 percent of men), reflecting the young age structure of the population. The majority of respondents are Catholic (98 percent of both women and men).

Around one-third of women (37 percent) and one-half of men (50 percent) have never married. Women are more likely to be married or living together with a partner (i.e., in union) than men (61 percent and 49 percent, respectively). A majority of respondents live in rural areas (67 percent of women and 66 percent of men). Women and men have similar levels of education; 22 percent of women and 19 percent of men have no education, while 52 percent of women and 51 percent of men have secondary education. Eleven percent of women and 12 percent of men reported attending more than secondary school.

² Respondents interviewed/eligible respondents

Table 2 Background characteristics of respondents

Percent distribution of women and men age 15-49 by selected background characteristics, Timor-Leste DHS 2016

| | | Women | | | Men | |
|---------------------------|----------|----------------|----------------|----------|----------|------------|
| Background | Weighted | Weighted | Unweighted | Weighted | Weighted | Unweighted |
| characteristic | percent | number | number | percent | number | number |
| Age | | | | | | |
| 15-19 | 23.7 | 2,985 | 3,126 | 24.6 | 1,001 | 1,053 |
| 20-24 | 17.2 | 2,165 | 2,047 | 16.9 | 689 | 676 |
| 25-29 | 15.9 | 2,011 | 1,925 | 13.2 | 539 | 505 |
| 30-34 | 14.1 | 1,772 | 1,789 | 13.7 | 557 | 533 |
| 35-39 | 9.0 | 1,141 | 1,175 | 8.9 | 361 | 357 |
| 40-44 | 11.4 | 1,438 | 1,440 | 11.7 | 478 | 476 |
| 45-49 | 8.7 | 1,096 | 1,105 | 11.0 | 450 | 459 |
| Religion | | | | | | |
| Roman Catholic | 98.3 | 12,396 | 12,385 | 98.4 | 4,009 | 3,989 |
| Muslim | 0.3 | 43 | 46 | 0.4 | 17 | 16 |
| Protestant | 1.3 | 166 | 173 | 1.1 | 46 | 52 |
| Hindu | 0.0 | 2 | 2 | 0.1 | 3 | 2 |
| Other | 0.0 | 0 | 1 | 0.0 | 0 | 0 |
| Marital status | | | | | | |
| Never married | 36.6 | 4,615 | 4,689 | 50.1 | 2,043 | 2,038 |
| Married | 53.9 | 6,799 | 6,751 | 44.6 | 1,817 | 1,781 |
| Living together | 7.1 | 898 | 877 | 4.6 | 186 | 213 |
| Divorced/separated | 1.3 | 161 | 151 | 0.4 | 17 | 14 |
| Widowed | 1.1 | 133 | 139 | 0.3 | 12 | 13 |
| Residence | | | | | | |
| Urban | 33.2 | 4,182 | 4,337 | 33.7 | 1,374 | 1,355 |
| Rural | 66.8 | 8,425 | 8,270 | 66.3 | 2,701 | 2,704 |
| | | -, | -,= | | _, | _, |
| Municipality Aileu | 4.2 | 524 | 1,047 | 4.3 | 174 | 354 |
| Ainaro | 4.1 | 515 | 768 | 4.5 | 184 | 273 |
| Baucau | 10.2 | 1,288 | 896 | 9.5 | 388 | 267 |
| Bobonaro | 7.5 | 946 | 915 | 7.5 | 305 | 318 |
| Covalima | 5.9 | 750 | 852 | 5.8 | 234 | 264 |
| Dili | 25.4 | 3,206 | 1.661 | 26.9 | 1,098 | 536 |
| Ermera | 9.3 | 1,178 | 943 | 8.6 | 350 | 281 |
| Lautem | 5.1 | 645 | 867 | 4.6 | 188 | 251 |
| Liquiça | 6.0 | 757 | 944 | 6.3 | 255 | 307 |
| Manatuto | 4.4 | 555 | 933 | 4.3 | 177 | 282 |
| Manufahi | 5.4 | 676 | 1,087 | 5.5 | 225 | 385 |
| SAR of Oecussi | 6.2 | 778 | 773 | 5.2 | 212 | 207 |
| Viqueque | 6.3 | 791 | 921 | 7.0 | 285 | 334 |
| Education | | | | | | |
| No education | 21.7 | 2,741 | 2,692 | 19.0 | 772 | 783 |
| Primary | 15.2 | 1,922 | 1,946 | 18.1 | 736 | 709 |
| Secondary | 52.0 | 6,561 | 6,823 | 50.6 | 2.063 | 2,128 |
| More than secondary | 11.0 | 1,383 | 1,146 | 12.4 | 504 | 439 |
| • | 11.0 | 1,000 | 1,110 | | 001 | 100 |
| Wealth quintile Lowest | 16.5 | 2,085 | 2,059 | 15.9 | 648 | 653 |
| Second | 18.1 | 2,085 | 2,039 | 20.2 | 823 | 836 |
| Middle | 19.2 | 2,423 | 2,538 | 19.9 | 809 | 842 |
| Fourth | 22.0 | 2,423 2,771 | 2,536 3,005 | 20.7 | 844 | 926 |
| Highest | 24.1 | 3,041 | 2,686 | 23.3 | 950 | 802 |
| · · | | | | | | |
| Total 15-49 | 100.0 | 12,607 | 12,607 | 100.0 | 4,075 | 4,059 |
| Men 50-59 | na | na | na | na | 547 | 563 |
| Total 15-59 | na | na | na | na | 4,622 | 4,622 |

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

3.3 FERTILITY

To generate data on fertility, all women who were interviewed were asked to report the total number of sons and daughters to whom they had ever given birth. To ensure that all information was reported, women were asked separately about children still living at home, those living elsewhere, and those who had died. A complete birth history was then obtained, including information on the sex, date of birth, and survival status of each child. Age at death for children who had died was also recorded.

Table 3 shows age-specific fertility rates (ASFRs) among women by 5-year age groups for the 3-year period preceding the survey. Age-specific and total fertility rates were calculated directly from the birth history data. The sum of age-specific fertility rates (known as the Total Fertility Rate, or TFR) is a summary measure of the level of fertility. It can be interpreted as the number of children a woman would have by the end of her childbearing years if she were to pass through those years bearing children at the current observed age-specific rates. If fertility were to remain constant at current levels, a woman from Timor-Leste would bear an average of 4.2 children in her lifetime. Fertility is noticeably higher for rural women than for urban women (4.6 and 3.5, respectively).

Trends in fertility in Timor-Leste can be examined by observing a time series of estimates produced from previous demographic surveys (Figure 1). The data

Table 3 Current fertility

Age-specific and total fertility rates, general fertility rate, and the crude birth rate for the 3 years preceding the survey, according to residence, Timor-Leste DHS 2016

| | Resid | | |
|---------------------------|--------------------|--------------------|--------------------|
| Age group | Urban | Rural | Total |
| 15-19 | 19 | 55 | 42 |
| 20-24 | 132 | 222 | 188 |
| 25-29 | 189 | 242 | 223 |
| 30-34 | 193 | 198 | 196 |
| 35-39 | 125 | 116 | 119 |
| 40-44 | 42 | 61 | 56 |
| 45-49 | 9 | 20 | 17 |
| TFR (15-49) GFR CBR | 3.5 113 28.4 | 4.6 149 26.2 | 4.2 136 26.8 |
| | | · - | ==.0 |

Notes: Age-specific fertility rates are per 1,000 women. Rates for age group 45-49 may be slightly biased due to truncation. Rates are for the period 1-36 months prior to interview.

TFR: Total fertility rate expressed per woman

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

CBR: Crude birth rate expressed per 1,000 population

indicate that fertility in Timor-Leste has declined from 7.8 children per woman in 2003 to 4.2 children per woman in 2016.

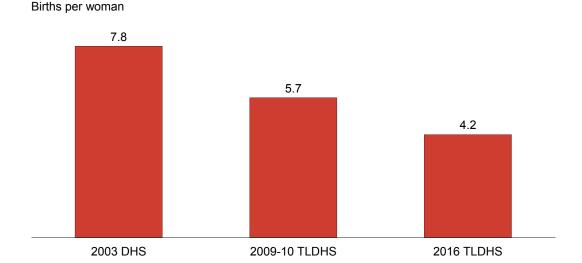


Figure 1 Trends in total fertility rate, 2000-2016

3.4 TEENAGE PREGNANCY AND MOTHERHOOD

The age at which childbearing starts has important consequences for the overall level of fertility as well as the health and welfare of the mother and the child. Early age at initiation of childbearing lengthens the reproductive period. Children born to very young mothers are at increased risk of sickness and death. Teenage mothers are more likely to experience adverse pregnancy outcomes and are more constrained in their ability to pursue educational opportunities than young women who delay childbearing.

Table 4.1 shows the percentage of women age 15-49 who gave birth by exact ages, the percentage who have never given birth, and the median age at first birth, according to current age. Medians for women age 15-19, 20-24, and 20-49 are not presented because less than 50 percent had given birth before the lowest age in the cohort. The median age at first birth for women age 25-29 is 23.1 years. Only 10 percent of Timorese women age 25-49 have given birth by age 18, while approximately one-quarter have given birth by age 20 (24 percent). Age at first birth appears to be increasing compared with the 2009-10 TLDHS which reported 14 percent of women age 25-49 had given birth by age 18 and 29 percent by age 20.

Table 4.1 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, Timor-Leste DHS 2016

| _ | | Percentage v | who gave birth | by exact age | | Percentage who have never given | Number of | Median age |
|-------------|-----|--------------|----------------|--------------|------|---------------------------------|-----------|----------------|
| Current age | 15 | 18 | 20 | 22 | 25 | birth | women | at first birth |
| 15-19 | 0.3 | na | na | na | na | 94.8 | 2,985 | а |
| 20-24 | 0.3 | 7.4 | 19.5 | na | na | 59.5 | 2,165 | а |
| 25-29 | 1.2 | 7.9 | 23.5 | 40.2 | 63.9 | 24.2 | 2,011 | 23.1 |
| 30-34 | 0.9 | 8.6 | 23.1 | 42.3 | 65.6 | 12.0 | 1,772 | 22.9 |
| 35-39 | 1.6 | 10.6 | 26.8 | 47.3 | 69.5 | 8.2 | 1,141 | 22.3 |
| 40-44 | 1.7 | 12.6 | 24.9 | 41.8 | 64.5 | 7.0 | 1,438 | 23.1 |
| 45-49 | 1.8 | 10.8 | 22.0 | 37.0 | 57.7 | 6.9 | 1,096 | 23.9 |
| 20-49 | 1.1 | 9.3 | 23.0 | na | na | 23.4 | 9,622 | а |
| 25-49 | 1.3 | 9.8 | 24.0 | 41.6 | 64.4 | 13.0 | 7,458 | 23.0 |

na = Not applicable due to censoring

Table 4.2 shows the percentage of women age 15-19 who had given birth or were pregnant with their first child at the time of the survey, according to background characteristics. Overall, 7 percent of women age 15-19 had begun childbearing: 5 percent had had a live birth and 2 percent were pregnant at the time of the interview. The proportion of teenagers who had begun childbearing rises rapidly with age, from 1 percent at age 15 to 18 percent at age 19. Rural teenagers and those with no education tend to start childbearing earlier than other teenagers. Ten percent of the teenagers in Bobonaro, Liquica, and SAR of Oecussi had begun childbearing compared with 4 percent of those in Ainaro and 3 percent of those in Ermera. The chances of having a child as a teenager decrease with increasing wealth.

Table 4.2 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, Timor-Leste DHS 2016

| | Percentage age 15- | | Derecatore who | |
|---------------------|-----------------------|------------------|------------------------------|-----------|
| Background | Have had a live | Are pregnant | Percentage who have begun | Number of |
| characteristic | birth | with first child | childbearing | women |
| Age | | | | |
| 15 | 0.1 | 0.4 | 0.5 | 671 |
| 16 | 0.8 | 0.7 | 1.5 | 592 |
| 17 | 3.3 | 1.2 | 4.5 | 703 |
| 18 | 10.0 | 3.7 | 13.7 | 522 |
| 19 | 14.8 | 3.4 | 18.2 | 495 |
| Residence | | | | |
| Urban | 3.0 | 0.9 | 4.0 | 1,011 |
| Rural | 6.2 | 2.1 | 8.4 | 1,974 |
| Municipality | | | | |
| Aileu | 5.5 | 2.4 | 7.8 | 130 |
| Ainaro | 3.5 | 0.5 | 4.0 | 122 |
| Baucau | 4.5 | 2.1 | 6.6 | 339 |
| Bobonaro | 7.1 | 2.6 | 9.7 | 192 |
| Covalima | 7.3 | 2.1 | 9.3 | 188 |
| Dili | 4.3 | 2.0 | 6.3 | 714 |
| Ermera | 2.4 | 0.5 | 2.9 | 294 |
| Lautem | 4.4 | 0.3 | 4.7 | 159 |
| Liquiça | 9.2 | 0.6 | 9.7 | 175 |
| Manatuto | 5.1 | 2.9 | 8.0 | 129 |
| Manufahi | 6.0 | 1.7 | 7.8 | 192 |
| SAR of Oecussi | 7.1 | 3.3 | 10.4 | 162 |
| Viqueque | 5.1 | 1.1 | 6.2 | 188 |
| Education | | | | |
| No education | 12.8 | 2.1 | 14.8 | 171 |
| Primary | 8.5 | 3.0 | 11.5 | 322 |
| Secondary | 4.3 | 1.6 | 5.9 | 2,431 |
| More than secondary | (0.0) | (0.0) | (0.0) | 60 |
| Wealth quintile | | | | |
| Lowest | 8.0 | 2.7 | 10.7 | 443 |
| Second | 8.3 | 2.8 | 11.0 | 504 |
| Middle | 5.2 | 8.0 | 6.1 | 571 |
| Fourth | 4.0 | 1.7 | 5.7 | 727 |
| Highest | 2.4 | 1.1 | 3.5 | 740 |
| Total | 5.2 | 1.7 | 6.9 | 2,985 |

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

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

3.5 FERTILITY PREFERENCES

Information on fertility preferences is used to assess the potential demand for family planning services for the purposes of attaining a desired number of children and to determine the spacing of pregnancies. To elicit information on fertility preferences, several questions were asked of currently married women (pregnant or not) regarding whether they want to have another child and, if so, how soon.

Table 5 shows that 14 percent of married women age 15-49 want to have another child soon (within the next two years), and 19 percent want to have another child later (in two or more years). Nearly three in ten (29 percent) do not want any more children or are sterilized, and 30 percent are undecided if they want to have another child or not. The percentage of undecided women has increased since the 2009-10 TLDHS, from 17 percent to 30 percent, while the percentage who do not want any more has decreased over time (35 percent to 27 percent).

Fertilty perferences are related to the number of living children; 42 percent of women with no living children want to have a child soon compared with 9 percent or less among women with 4 or more children. Similarly, the proportion of women who want to stop childbearing or are sterilized increases with the number of living children, from 5 percent of women with one child to 36 percent of women with four children to 61 percent of women with six or more children.

Table 5 Fertility preferences by number of living children

Percent distribution of currently married women age 15-49 by desire for children, according to number of living children, Timor-Leste DHS 2016

| | | | Numb | er of living o | :hildren1 | | | |
|--|-------|-------|-------|----------------|-----------|-------|-------|-------|
| Desire for children | 0 | 1 | 2 | 3 | 4 | 5 | 6+ | Total |
| Have another soon ² Have another later ³ Have another. | 42.0 | 21.5 | 18.6 | 15.6 | 8.7 | 7.7 | 4.0 | 14.3 |
| | 4.2 | 37.2 | 30.1 | 21.2 | 13.9 | 9.3 | 3.4 | 18.9 |
| undecided when Undecided Want no more Sterilized ⁴ Declare infecund | 4.5 | 11.0 | 8.2 | 8.5 | 4.1 | 4.1 | 0.7 | 6.1 |
| | 34.7 | 24.1 | 29.7 | 32.2 | 35.9 | 28.7 | 27.9 | 29.9 |
| | 1.8 | 4.7 | 11.3 | 20.0 | 33.4 | 45.8 | 59.0 | 27.2 |
| | 0.2 | 0.2 | 0.8 | 1.2 | 2.2 | 2.6 | 1.9 | 1.4 |
| | 12.7 | 1.4 | 1.3 | 1.3 | 1.8 | 1.8 | 3.2 | 2.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 368 | 1,279 | 1,305 | 1,291 | 1,167 | 916 | 1,373 | 7,697 |

¹ The number of living children includes current pregnancy.

3.6 FAMILY PLANNING

Family planning refers to a conscious effort by a couple to use contraceptive methods to attain a desired number of children and space the number of children they have (WHO 2016). Contraceptive methods are globally classified as modern or traditional methods (Festin et al 2016). Modern methods include female sterilization, the pill, the intrauterine contraceptive device (IUD), implants, injectables, male condoms, standard days method (SDM), lactational amhenorrea method (LAM), Billings Method, and other methods such as emergency contraception, female condoms, or male sterilization. Methods such as rhythm, withdrawal, and folk methods are grouped as traditional. The MOH refers to fertility awareness methods such as SDM, Billings and LAM as natural methods of family planning.

Table 6 shows the percent distribution of currently married women by the contraceptive method they currently use, according to background characteristics. Overall, 26 percent of women are using a method of family planning; 24 percent use a modern method, while 2 percent use a traditional method. The most popular methods are injectables (12 percent) and implants (6 percent). The contraceptive prevalence rate (CPR) jumps from 2 percent among women with no living children to 24 percent among women with one

² Wants next birth within 2 years

³ Wants to delay next birth for 2 or more years

⁴ Includes both female and male sterilization

Table 6 Current use of contraception by background characteristics

Percent distribution of currently married women age 15-49, by contraceptive method currently used, according to background characteristics, Timor-Leste DHS 2016

| | | | | | | | Modern method | ethod | | | | | | Traditic | Traditional method | | | | |
|------------------------------------|----------------|-------------------------|------------------------------|--------------------|----------------|--------------------------|-------------------|----------------|------------|------------|----------------------|--------------------|----------------------------------|------------|-------------------------|---------|---------------------------|------------|--------------------|
| Background characteristic | Any method | Any modern method | Female sterili- zation | anı | Implants | Inject- ables | Pill | Male condom | SDM | B LAM m | Billings method (| An 1 Other m | Any tradi- tional method R | Rhythm | With- drawal C | Other L | Not currently using | N Total | Number of women |
| Number of living children | 2.2 | 0.5 | 0.1 | 0.0 | | 0.1 | 0 0 | | 0.0 | | 0.0 | | 9 | | 9 | | 8 26 | 100.0 | 566 |
| 3 - - 2 | 23.5 32.4 | 21.4 30.2 | 0.5 | 0.8 | 6.0 7.0 | 10.9 15.5 | 2.5 5.4 0.0 | 0.0 | 4 | | 0.0 | 0.0 | 2.0 | 0.0 | . 0 | 0.0 | 76.5 | 0.00 | 2,517 |
| 2+ | 28.1 | 26.5 | 2.2 | 3.3 | | 11.5 | 1.8 | | 0.4 | | 0.0 | | 1.6 | | 1.0 | | 71.9 | 0 | 2,238 |
| Age 15-19 | 10.4 | 8.1 | 0.0 | 0.0 | 1.8 | 3.6 | 6: | | 0.0 | | 0.0 | | 2.3 | | 2.3 | 0 | 9.68 | 100.0 | 245 |
| 20-24 25-29 | 20.1 28.9 | 18.7 26.5 | 0.0 | 0.0 6.1 | 5.7 7.5 | 10.2 4.4 | 1.7 2.8 | | 0.2 0.1 | | 0.0 | | 2. 4 4. 4. | | <u>က</u> မ် က် | 0 0 | 79.9 | 0.00 | 1,031 1,575 |
| 30-34 35-39 | 32.6 32.0 | 31.1 29.4 | 2.5 2.6 | උ හ ව පි | 8.8 7.0 | 15.3 12.8 | 3.28 | 0.0 | 0.3 | 4.0 | 0.0 | 0.0 | 1.5 2.6 | 0.6 0.3 | 0.9 | 0.0 | 67.4 | 0.00 | 1,574 1,006 |
| 40-44 45-49 | 25.2 15.6 | 23.5 13.5 | 2.8 1.7 | 3.7 | 2 2 8 2 | 9.6 6.7 | 1.6 0.8 | | 0.4 0.3 | | 0.2 0.0 | | 1.7 2.0 | | 1.2 0.9 | – ო | 74.8 84.4 | 0.00 | 1,301 965 |
| Residence Urban Rural | 26.8 25.7 | 23.0 24.5 | 2.6 0.9 | 2.3 | 7.4 | 6.4 13.9 | 2.7 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 | 3.8 1.2 | 1.5 | 2.2 | 0.1 | 73.2 | 100.0 | 2,252 5,445 |
| Municipality | 33.3 | 308 | | , , | | 0 | α - | | | | | | и С | ° | | c | | _ | 202 |
| Ainaro | 17.7 | 17.0 | 2.2. | - 0 0 7 80 1 | 4.2. 3.0.1 | 0.00 0.00 0.00 | - c . | 0.00 | 0.0 | 0.00 | 0.0 | 0.0 | 0.7 | 0.00 | 0.0 | 7 4 0 | 82.3 | 100.0 | 329 |
| Bobonaro | 32.0 | 30.1 | | 6.5 - | | ა <u>წ</u> | . O | | 4.0 | | | | 4 <u>-</u> 7 8 | 0.0 | ა. / ე. დ | 0.0 | | 0.001 | /89 648 |
| Covalima | 32.6 | 31.8 | | 0.2 | | 25.1 | 2.5 | | 0.0 | | | | 0.8 | 0.3 | 0.5 | 0,0 | | 100.0 | 479 |
| Ermera | 18.5 | 18.2 | | 9.00 | | 9.00 | 2.5 | | 0.0 | | | | 0.3 | 0.1 | 0.2 | 100 | | 0.00 | 707 |
| Lautem Liquiça | 8.2 26.0 | 8.2 25.4 | | 0.5 | | 0.7 18.4 | . 4 . 1 | | 0:0 | | | | 0.0 | 0.0 | 0.0 | 2 0 | | 100.0 | 406 479 |
| Manatuto | 21.9 | 21.2 | | 2.6 | | 12.9 | 2.5 | | 0.3 | | | | 0.7 | 0.5 | 0.7 | 0,0 | | 100.0 | 373 |
| SAR of Oecussi | 34.8 | 34.6 | | 1.7 | | 22.5 | 0.0 | | 0:0 | | | | 0.2 | 0.0 | 0.0 | 10 | | 100.0 | 545 |
| Viqueque | 17.0 | 17.0 | | ς ∞. | | 10.5 | 0.8 | | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0 | | 100.0 | 514 |
| Education No education | 21.8 | 21.2 | 9.0 | 6. i | 9.0 | 11.7 | £.3 | | | 0.2 | | | | | 4.0 | | | 0 | 2,201 |
| Secondary | 30.1 26.3 | 23.9 | 5. <u>L</u> . | c: 4: | ၀ က ၊ ၁ တ က | 10.8 4.01 | 2.5 | 0.0 | 0.3 | 1 | 0.0 | 0.0 | 2. 4. 2. 4. | 0.3 | 9.1 7.1 | - 0 : | 73.7 | 0.00 | 3,366 |
| More than secondary | | 24.0 | 2.1 | 2.5 | 7.1 | 6.5 | 3.4 | | | 0.7 | | | | | 3.6 | | | 0 | 701 |
| Wealth quintile | 24.0 | 23.4 | 40 | 0 | 5.7 | 7.41 | 6 | | 0.0 | | 0.0 | | | 0.0 | 0.5 | | | 0.001 | 1389 |
| Second | 22.1 | 21.5 | 0.0 | 6.0 | 4.r | 12.8 | 2.4 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 9.0 | 0.0 | 9.0 | 0.0 | 77.9 | 100.0 | 1,511 |
| Fourth | 25.6 27.8 | 24.2 25.3 | | 2 7 5 5 | 5.8 6.7 | 0.91 | 4. E. | | 0.0 | | 0.0 | | | 0.3 | 2.0 | | | 0.001 | 1,547 |
| Highest | 29.8 | 25.5 | 2.9 | 3.1 | 8.1 | 8.9 | 2.5 | | 1.1 | | 4.0 | | | 1.9 | 2.4 | | | 100.0 | 1,646 |
| Total | 26.0 | 24.1 | 4. | 2.0 | 6.2 | 11.7 | 2.2 | | 0.3 | | 0.1 | | | 0.5 | 4:1 | | 74.0 | . 0.001 | 7,697 |
| Note: If more then one | poor of podtom | od+ viao boo. | Critochto toom of | oi bodtom ovite | | Lidot oidt ai bozobioaco | ooite! | | | | | | | | | | | | |

Note: If more than one method is used, only the most effective method is considered in this tabulation. IUD = Intrauterine device; SDM = Standard days method; LAM = Lactational amenorrhea method

or two living children. Contraceptive use increases with age, peaking at age 30-34 (33 percent), before declining to 16 percent among women age 45-49. CPR is lowest in Lautem at 8 percent and is 33 percent or higher in Aileu, Covalima, Manufahi, and SAR of Oecussi. Women with no education (22 percent) are less likely to use a method than women who have any education (26 percent to 30 percent).

Contraception has increased slightly over time. Use of any method increased from 22 percent in the 2009-10 TLDHS to the current 26 percent; this reflects an increase of approximately 8,300 more users among currently married women age 15-49. Use of modern methods also increased from 21 percent to 24 percent. Among modern methods, use increased for long-acting methods such as the IUD and implants.

3.7 NEED AND DEMAND FOR FAMILY PLANNING

The proportion of women who want to stop childbearing or who want to space their next birth is a crude measure of the extent of the need for family planning, given that not all of these women are exposed to the risk of pregnancy and some may already be using contraception. This section discusses the extent of the need and potential demand for family planning services. Women who want to postpone their next birth for 2 or more years or who want to stop childbearing altogether but are not using a contraceptive method are said to have an unmet need for family planning. Pregnant women are considered to have an unmet need for spacing or limiting if their pregnancy was mistimed or unwanted. Similarly, amenorrhoeic women are categorized as having an unmet need if their last birth was mistimed or unwanted. Women who are currently using a family planning method are said to have a met need for family planning. Total demand for family planning services comprises those who fall in the met need and unmet need categories.

Table 7 presents data on unmet need, met need, and total demand for family planning among currently married women and sexually active unmarried women. Figure 2 presents trends in unmet need, modern contraceptive use, and percentage of total demand satisfied with modern methods among currently married women. These indicators help evaluate the extent to which family planning programs in Timor-Leste meet the demand for services. The definition of unmet need for family planning has been revised so that data on levels of unmet need are comparable over time and across surveys. The unmet need estimates in Figure 2 for the previous TLDHS survey have been recalculated using the revised definition of unmet need (Bradley et al. 2012).

Table 7 shows that 25 percent of currently married women have an unmet need for family planning services, while 26 percent of currently married women are using a contraceptive method. Therefore, one-half (51 percent) of currently married women in Timor-Leste have a demand for family planning. At present, 51 percent of the total demand for family planning is being met, mostly by modern methods (47 percent of total demand). Thus, if all married women who said they want to space or limit their children were to use family planning methods, the CPR would increase from the current level of 26 percent to 51 percent.

Among sexually active unmarried women, 75 percent have an unmet need for family planning, and 6 percent are currently using a contraceptive method. The total demand for family planning among unmarried sexually active women is 81 percent, and at present, only 8 percent of the potential demand for family planning is being met. If all of the unmarried sexually active women who said they want to space or limit their births were to use family planning methods, the CPR for these women would increase from 6 percent to 81 percent.

Table 7 Need and demand for family planning among currently married women and sexually active unmarried women

Percentage of currently married women and sexually active unmarried women age 15-49 with unmet need for family planning, percentage with met need for family planning, percentage with met need for family planning who are using modern methods, percentage with demand for family planning, percentage with demand for family planning that is satisfied, and percentage with demand for family planning that is satisfied with modern methods, according to background characteristics, Timor-Leste DHS 2016

| | Unmet need | Met need for fa (current) | | _ Total demand | | Percentage satis | |
|---------------------------|---------------------|------------------------------|--------------------------------|----------------------------------|-----------------|------------------|--------------------------------|
| Background characteristic | for family planning | All methods | Modern methods ² | for family planning ³ | Number of women | All methods | Modern methods ² |
| | | CUR | RENTLY MARE | RIED WOMEN | | | |
| Age | | | | | | | |
| 15-19 | 26.4 | 10.4 | 8.1 | 36.8 | 245 | 28.4 | 22.1 |
| 20-24 | 28.9 | 20.1 | 18.7 | 49.0 | 1,031 | 41.0 | 38.2 |
| 25-29 | 30.8 | 28.9 | 26.5 | 59.7 | 1,575 | 48.4 | 44.4 |
| 30-34 | 28.3 | 32.6 | 31.1 | 60.9 | 1,574 | 53.5 | 51.0 |
| 35-39 | 27.5 | 32.0 | 29.4 | 59.5 | 1,006 | 53.8 | 49.4 |
| 40-44 | 21.4 | 25.2 | 23.5 | 46.6 | 1,301 | 54.2 | 50.5 |
| 45-49 | 10.3 | 15.6 | 13.5 | 25.9 | 965 | 60.2 | 52.3 |
| Residence | | | | | | | |
| Urban | 26.0 | 26.8 | 23.0 | 52.8 | 2,252 | 50.8 | 43.5 |
| Rural | 25.0 | 25.7 | 24.5 | 50.7 | 5,445 | 50.6 | 48.3 |
| Municipality | | | | | | | |
| Aileu | 20.6 | 33.3 | 32.8 | 54.0 | 292 | 61.8 | 60.8 |
| Ainaro | 24.1 | 17.7 | 17.0 | 41.8 | 329 | 42.3 | 40.7 |
| Baucau | 29.9 | 24.7 | 20.5 | 54.6 | 789 | 45.2 | 37.5 |
| Bobonaro | 23.7 | 32.0 | 30.1 | 55.6 | 648 | 57.4 | 54.1 |
| Covalima | 20.2 | 32.6 | 31.8 | 52.8 | 479 | 61.8 | 60.2 |
| Dili | 24.9 | 28.6 | 23.9 | 53.5 | 1,732 | 53.4 | 44.6 |
| Ermera | 35.7 | 18.5 | 18.2 | 54.2 | 707 | 34.2 | 33.6 |
| Lautem | 29.4 | 8.2 | 8.2 | 37.6 | 406 | 21.7 | 21.7 |
| Liquiça | 22.1 | 26.0 | 25.4 | 48.0 | 479 | 54.0 | 52.9 |
| Manatuto | 21.2 | 21.9 | 21.2 | 43.1 | 373 | 50.9 | 49.3 |
| Manufahi | 21.1 | 35.9 | 34.1 | 56.9 | 404 | 63.0 | 59.9 |
| SAR of Oecussi | 21.4 | 34.8 | 34.6 | 56.2 | 545 | 61.9 | 61.5 |
| Viqueque | 25.6 | 17.0 | 17.0 | 42.6 | 514 | 39.9 | 39.9 |
| Education | | | | | | | |
| No education | 23.1 | 21.8 | 21.2 | 44.9 | 2,201 | 48.5 | 47.2 |
| Primary | 23.8 | 30.1 | 28.8 | 53.9 | 1,430 | 55.8 | 53.5 |
| Secondary | 27.5 | 26.3 | 23.9 | 53.9 | 3,366 | 48.9 | 44.4 |
| More than secondary | 24.6 | 29.3 | 24.0 | 53.9 | 701 | 54.4 | 44.5 |
| Wealth quintile | | | | | | | |
| Lowest | 27.1 | 24.0 | 23.4 | 51.1 | 1,389 | 47.0 | 45.8 |
| Second | 27.4 | 22.1 | 21.5 | 49.5 | 1,511 | 44.7 | 43.4 |
| Middle | 22.6 | 25.6 | 24.2 | 48.2 | 1,547 | 53.1 | 50.3 |
| Fourth | 25.2 | 27.8 | 25.3 | 53.1 | 1,604 | 52.5 | 47.7 |
| Highest | 24.5 | 29.8 | 25.5 | 54.3 | 1,646 | 54.9 | 47.0 |
| Total | 25.3 | 26.0 | 24.1 | 51.3 | 7,697 | 50.7 | 46.9 |
| | | SEXUALLY | Y ACTIVE UNI | MARRIED WOME | N ⁴ | | |
| Residence Urban | * | * | * | * | 17 | * | * |
| Rural | (68.6) | (10.8) | (0.0) | (79.5) | 25 | (13.6) | (0.0) |
| | , , | , , | , , | , , | | , , | ` , |
| Total | (74.7) | (6.4) | (0.0) | (81.1) | 43 | (7.9) | (0.0) |

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

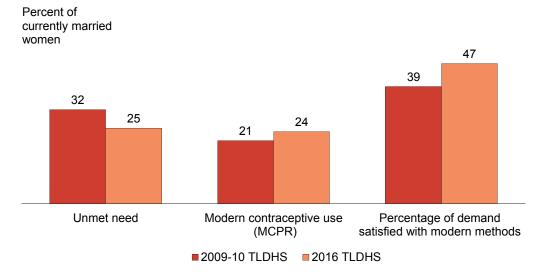
Figure 2 shows that the proportion of married women with unmet need for family planning has decreased slightly from 32 percent in the 2009-10 TLDHS to 25 percent in 2016. At the same time, the proportion of married women using modern contraceptive methods has increased somewhat from 21 percent in 2009-10 to 24 percent in 2016. The percentage of the demand for family planning that is satisfied with modern contraceptive methods has also increased from 39 percent in 2009-10 to 47 percent in 2016.

¹ Percentage of demand satisfied is met need divided by total demand.

² Modern methods include female sterilization, male sterilization, pill, IUD, injectables, implants, male condom, emergency contraception, standard days method (SDM), lactational amenorrhea method (LAM), and Billings Method.

Total demand is the sum of unmet need and met need.
 Women who have had sexual intercourse within 30 days preceding the survey.

Figure 2 Trends in unmet need, modern contraceptive use, and percentage of demand satisfied with modern methods, 2010-2016



3.8 EARLY CHILDHOOD MORTALITY

Infant and child mortality rates are basic indicators of a country's socioeconomic situation and quality of life (UNDP 2007). Estimates of childhood mortality are based on information collected in the birth history section of the Woman's Questionnaire, which includes questions about women's aggregate childbearing experience (the number of sons and daughters who live with their mother, the number who live elsewhere, and the number who have died). Table 8 presents estimates for three successive 5-year periods prior to the 2016 TLDHS. The rates are estimated directly from the information recorded in the birth history about a child's birth date, survivorship status, and age at death for children who died. This information is used to directly estimate the following five mortality rates:

Neonatal mortality: the probability of dying within the first month of life

Postneonatal mortality: the probability of dying after the first month of life but before the first birthday

(the difference between infant and neonatal mortality)

Infant mortality: the probability of dying before the first birthday

Child mortality: the probability of dying between the first and the fifth birthday

Under-5 mortality: the probability of dying between birth and the fifth birthday

All rates are expressed per 1,000 live births, except for child mortality, which is expressed per 1,000 children surviving to age 12 months.

As shown in Table 8, during the 5 years immediately preceding the survey, the infant mortality rate was 30 deaths per 1,000 live births. The child mortality rate was 12 deaths per 1,000 children surviving to age 12 months, while the overall under-5 mortality rate was 41 deaths per 1,000 live births. The neonatal mortality rate was 19 deaths per 1,000 live births. The postneonatal mortality rate was 11 deaths per 1,000 live births.

Table 8 Early childhood mortality rates

Neonatal, postneonatal, infant, child and under-5 mortality rates for 5-year periods preceding the survey, Timor-Leste DHS 2016

| | | N | Nortality rate: | S | |
|-------------------------|-------------------------------|--|---|-----------------------------|--|
| Period preceding survey | Neonatal mortality (NN) | Post- neonatal mortality (PNN) ¹ | Infant mortality (1q ₀) | Child mortality (4q1) | Under-5 mortality (5q ₀) |
| 0-4 5-9 10-14 | 19 15 19 | 11 15 17 | 30 30 36 | 12 10 9 | 41 40 45 |

¹ Computed as the difference between the infant and neonatal mortality rates

Figure 3 presents trends in childhood mortality, as assessed through previous surveys. There appears to be a decline in childhood mortality over time; for example, under-5 mortality rates decreased from 83 deaths per 1,000 live births during the 5 years immediately preceding the 2003 DHS, to 64 deaths per 1,000 live births in the 5 years prior to the 2009-10 TLDHS, to 41 deaths per 1,000 live births in the most recent 5-year period. Infant and child mortality appear to have similarly decreased.

An initial review of the data indicates mortality in the 2016 TLDHS may be underestimated, particularly for the periods 5-9 and 10-14 years prior to the survey. Childhood mortality during these periods measured in the 2016 TLDHS should correspond with the 0-4 and 5-9 rates of the 2009-10 TLDHS; instead, the 2016 numbers are substantially lower. Additionally, the 2016 mortality trends are relatively flat and do not show decline over the last 15 years; for example, the under-5 mortality rate for 10-14 years ago is 45, that for 5-9 years ago is 40, and the rate for 0-4 years ago is 41 (Table 8). Overall, childhood mortality results should be considered with caution.

Deaths per 1,000

83

64

41

Infant mortality

Child mortality

Under-5 mortality

2009-10 TLDHS

2016 TLDHS

Figure 3 Trends in childhood mortality, 1998-2016

3.9 MATERNAL CARE

In the 2016 TLDHS, women who had given birth in the 5 years preceding the survey were asked a number of questions about maternal care. Mothers were asked if they had obtained antenatal care (ANC) during the pregnancy for their most recent live birth in the 5 years preceding the survey and whether they had received tetanus toxoid injections while pregnant. For each live birth over the same period, mothers were also asked what type of assistance they received at the time of delivery. Finally, women who had a live birth in the 2 years before the survey were asked if they received a postnatal check during the first two days after delivery. Table 9 summarizes information on the coverage of these maternal health services.

3.9.1 Antenatal Care

Antenatal care (ANC) from a skilled provider is important to monitor pregnancy and reduce morbidity and mortality risks for the mother and child during pregnancy, delivery, and the postnatal period (within 42 days after delivery). The 2016 TLDHS results show that 84 percent of women who gave birth in the 5 years preceding the survey received ANC from a skilled provider at least once for their last birth. More than three-quarters (77 percent) of women had four or more ANC visits.

Women age 20-34 were more likely to have accessed ANC from a skilled provider and more likely to have had four or more ANC visits compared with their older or younger counterparts. Urban women were more likely to receive ANC compared with rural women; 92 percent received ANC from a skilled provider and 87 percent had four or more ANC visits compared with 81 percent and 72 percent among rural women. Receipt of ANC generally increases with education and wealth.

3.9.2 Tetanus Toxoid Vaccination

Tetanus toxoid injections are given during pregnancy to prevent neonatal tetanus, a major cause of early infant death in many developing countries that often results from failure to observe hygienic procedures during delivery. Table 9 shows that 72 percent of women received sufficient doses of tetanus toxoid to protect their last birth against neonatal tetanus. Women who are age 35-49 at the birth of the child, those living in rural areas, those with less education, and those belonging to the lower wealth quintiles are less likely to have had their last birth protected from tetanus. For instance, only 63 percent of women with no education had their last birth protected from tetanus compared with 85 percent of women with more than a secondary level of education.

3.9.3 Delivery Care

Access to proper medical attention and hygienic conditions during delivery can reduce the risk of complications and infections that may lead to death or serious illness for the mother, baby, or both (Van Lerberghe and De Brouwere 2001; WHO 2006). About 6 in 10 (57 percent) live births in the 5 years preceding the survey were delivered by a skilled provider, and about one-half (49 percent) were delivered in a health facility.

Eighty-seven percent of births to urban mothers were assisted by a skilled provider and 84 percent were delivered in a health facility, as compared with 45 percent and 34 percent, respectively, of births to rural women. By municipality, the percentage of births assisted by a skilled provider and the percentage delivered in a health facility is lowest in Ermera (20 and 15 percent) and highest in Dili (85 and 83 percent). Mothers' education and wealth ranged widely depending on whether the birth was attended by a skilled provider and whether the birth took place in a health facility. For example, 33 percent of births to mothers with no education were assisted by a skilled provider and 26 percent were delivered in a health facility, as compared with 95 percent and 91 percent of births to mothers with more than a secondary education. A similar relationship is apparent with wealth. For example, 26 percent of births to mothers in the lowest wealth quintile were assisted by a skilled provider, and 17 percent were delivered in a health facility, as compared with 90 percent and 87 percent, respectively, of births to mothers with more than a secondary education.

Table 9 Maternal care indicators

Among women age 15-49 who had a live birth in the 5 years preceding the survey, the percentage who received antenatal care from a skilled provider for the most recent live birth, percentage with four or more ANC visits for the most recent live birth, and percentage whose most recent live birth was protected against neonatal tetanus; among all live births in the five years before the survey, percentage delivered by a skilled provider and percentage delivered in a health facility; and among women age 15-49 who had a live birth in the 2 years preceding the survey, percentage who received a postnatal check during the first 2 days after giving birth, according to background characteristics, Timor-Leste DHS 2016

| | Women who h | nad a live birth in surve | , , | eceding the | Live births in | the 5 years pre- | ceding the | Women who birth in the preceding the | 2 years |
|------------------------------|--|-------------------------------------|--|--------------------|--|---|------------------|--|-----------------|
| Background characteristic | Percentage receiving antenatal care from a skilled provider ¹ | Percentage with 4+ ANC visits | Percentage whose most recent live birth was protected against neonatal tetanus ² | Number of women | Percentage delivered by a skilled provider ¹ | Percentage delivered in a health facility | Number of births | Percentage of women with a postnatal check during the first 2 days after birth ³ | Number of women |
| Mother's age at birth | | | | | | | | | |
| <20 | 80.4 | 73.2 | 72.6 | 305 | 53.8 | 42.3 | 560 | 31.0 | 223 |
| 20-34 | 85.8 | 78.1 | 72.8 | 3,750 | 58.3 | 50.5 | 5,586 | 36.1 | 2,213 |
| 35-49 | 80.1 | 72.4 | 68.6 | 946 | 50.7 | 41.9 | 1,195 | 28.1 | 430 |
| Residence | | | | | | | | | |
| Urban | 92.2 | 87.0 | 77.2 | 1,478 | 86.5 | 84.0 | 2,103 | 56.1 | 783 |
| Rural | 81.1 | 72.4 | 69.8 | 3,522 | 44.8 | 34.2 | 5,238 | 26.4 | 2,083 |
| Municipality | | | | | | | | | |
| Aileu | 89.3 | 77.5 | 79.9 | 190 | 70.7 | 59.4 | 279 | 27.5 | 116 |
| Ainaro | 69.2 | 52.5 | 54.5 | 235 | 22.7 | 18.2 | 381 | 12.4 | 152 |
| Baucau | 80.3 | 75.4 | 69.1 | 524 | 61.6 | 51.9 | 762 | 39.8 | 335 |
| Bobonaro | 78.8 | 73.5 | 67.8 | 436 | 48.6 | 44.6 | 629 | 30.3 | 239 |
| Covalima | 85.1 | 78.2 | 69.0 | 302 | 60.1 | 47.3 | 419 | 35.0 | 165 |
| Dili | 92.9 | 88.1 | 75.9 | 1,150 | 85.0 | 83.2 | 1,656 | 60.1 | 610 |
| Ermera | 71.0 | 58.5 | 60.2 | 427 | 19.8 | 15.4 | 689 | 11.5 | 234 |
| Lautem | 83.8 | 78.4 | 74.4 | 253 | 65.1 | 53.4 | 403 | 16.9 | 161 204 |
| Liquiça Manatuto | 83.2 89.9 | 79.1 84.5 | 88.8 86.2 | 342 235 | 44.8 65.8 | 35.2 46.9 | 483 352 | 32.9 21.0 | 204 140 |
| Manatuto Manufahi | 69.9 76.9 | 64.5 60.2 | 69.2 | 235 266 | 47.1 | 46.9 29.9 | 352 376 | 33.1 | 154 |
| SAR of Oecussi | 76.9 88.8 | 79.0 | 67.9 | 331 | 33.5 | 22.8 | 457 | 29.5 | 175 |
| Vigueque | 92.7 | 84.8 | 71.1 | 312 | 58.8 | 43.1 | 455 | 30.8 | 180 |
| Mother's education | | | | | | | | | |
| No education | 71.9 | 63.4 | 63.3 | 1,213 | 32.8 | 25.9 | 1,851 | 22.6 | 655 |
| Primary | 83.8 | 73.6 | 69.9 | 919 | 44.8 | 33.9 | 1,345 | 24.5 | 485 |
| Secondary | 89.3 | 82.3 | 74.6 | 2,390 | 66.9 | 58.0 | 3,491 | 38.0 | 1,444 |
| More than secondary | 92.5 | 88.7 | 85.0 | 478 | 94.6 | 91.2 | 654 | 61.6 | 282 |
| Wealth quintile | | | | | | | | | |
| Lowest | 74.3 | 63.4 | 62.2 | 954 | 26.2 | 16.7 | 1,494 | 14.8 | 561 |
| Second | 78.7 | 68.7 | 65.7 | 999 | 38.8 | 28.0 | 1,500 | 21.9 | 587 |
| Middle | 83.1 | 75.0 | 72.7 | 985 | 56.2 | 45.8 | 1,440 | 32.5 | 593 |
| Fourth | 90.3 | 84.8 | 79.4 | 1,044 | 73.7 | 66.3 | 1,471 | 43.1 | 582 |
| Highest | 94.6 | 90.6 | 79.0 | 1,018 | 90.2 | 87.3 | 1,436 | 61.5 | 542 |
| Total | 84.4 | 76.7 | 72.0 | 5,000 | 56.7 | 48.5 | 7,341 | 34.5 | 2,866 |

Note: If more than one source of assistance was mentioned, only the provider with the highest qualifications is considered in this tabulation.

As shown in Figure 4, there is little change over time in the percentage of women receiving ANC from a skilled provider. The proportion of women whose births occurred in a health facility has increased more dramatically (from 22 percent in 2009-10 to 49 percent in 2016). Similarly, the proportion of women whose births were attended by a skilled provider has risen from 30 percent in 2009-10 to 57 percent in 2016.

¹ Skilled provider includes doctor, nurse/midwife, and assistant nurse.

² 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 last live birth

³ Includes women who received a check from a doctor, midwife, nurse, community health worker, or traditional birth attendant

Percent

86 84

49

30

ANC by a skilled provider

Birth occurred in a health facility

Birth attended by a skilled provider

Figure 4 Trends in maternal health care, 2010-2016

3.9.4 Postnatal Care for the Mother

A large proportion of maternal and neonatal deaths occur during the first 48 hours after delivery. Thus, prompt postnatal care (PNC) for both the mother and the child is important to treat any complications that arise from the delivery, as well as to provide the mother with important information on caring for herself and her child. Safe motherhood programs recommend that all women receive a check of their health within 2 days after delivery.

■2009-10 TLDHS ■2016 TLDHS

To assess the extent of postnatal care utilization, respondents were asked, for their last birth in the 2 years preceding the survey, whether they had received a postnatal check and the timing of the first postnatal check. As shown in Table 9, 35 percent of women reported receiving a postnatal check during the first 2 days after birth.

The proportion of women who received a postnatal check during the first 2 days after delivery is higher in urban areas than rural areas (56 versus 26 percent), and increases with both education and wealth. There is variation in the proportion of women who received a timely postnatal check by municipality, ranging from a low of 12 percent in Ainaro and Ermera to a high of 60 percent in Dili.

3.10 CHILD HEALTH AND NUTRITION

The 2016 TLDHS collected data on a number of key child health indicators such as vaccinations of young children, nutritional status as assessed by anthropometry, infant feeding practices, and treatment practices when a child is ill.

3.10.1 Vaccination of Children

Universal immunization of children against six common vaccine-preventable diseases (tuberculosis, diphtheria, whooping cough (pertussis), tetanus, polio, and measles) is crucial to reducing infant and child mortality. The 2016 TLDHS collected information on coverage from these vaccines among children born in the 3 years preceding the survey. The information obtained in the survey on differences in vaccination status among subgroups of children is useful for program planning and targeting resources toward areas most in need.

According to guidelines developed by the World Health Organization (WHO), children have received all basic vaccinations when they have received a vaccination against tuberculosis (also known as BCG), three doses each of the DPT-HepB-Hib/pentavalent and polio vaccines, and a vaccination against measles. The BCG vaccine is usually given at birth or at first clinical contact, while the DPT-HepB-Hib and polio vaccines

are given at approximately age 6, 10, and 14 weeks. Measles vaccinations should be given at or soon after age 9 months. A child age 12-23 months is considered to be fully immunized (all age-appropriate vaccinations) in Timor-Leste if the child has received all basic vaccinations, plus a birth dose of polio vaccine.

Information on vaccination coverage was obtained in two ways in the 2016 TLDHS: from written vaccination records, including the LISIO or other child health card/book, and from mothers' verbal reports. In the TLDHS, for each child born in the 3 years before the survey, mothers were asked to show the interviewer the LISIO or other card used to record the child's immunizations. If the LISIO or card was available, the interviewer copied the dates of each vaccination received. If a vaccination was not recorded in the LISIO or card as being given, the mother was asked to recall whether the child had received any vaccinations in addition to those on the LISIO or card. If the mother was not able to present the LISIO or card for a child, she was asked to recall whether the child had received BCG, polio, DPT-HepB-Hib, or measles vaccine. If she indicated that the child had received the polio or DPT-HepB-Hib vaccine, she was asked the number of doses that the child had received.

In Timor-Leste, a new LISIO was designed and released during survey fieldwork. Accordingly, the CAPI data collection system allowed interviewers to record vaccine data using either the older or newer LISIO format. Among children age 12-23 months, 56 percent had written vaccination records; overall, data was collected from written records for 51 percent children (data not shown). Mother's recall may not be as reliable as written vaccination records, and therefore may result in an underestimate of vaccinations (Miles et al 2013).

Table 10 presents data on vaccination coverage among children age 12-23 months by background information. Children age 12-23 months are the youngest cohort to have reached the age by which a child should have received the required vaccines. Table 10 shows that 49 percent of children age 12-23 months received all basic vaccinations, and 45 percent received all age-appropriate vaccinations. Nineteen percent of children in this age group had not received any vaccinations. Eighty-one percent of children received the BCG vaccination, 78 percent the first dose of DPT-HepB-Hib, and 73 percent the first (non-birth) dose of polio. Sixty-nine percent of children received a measles vaccination. Coverage rates decline for subsequent doses, with 62 percent of children receiving the recommended three doses of DPT-HepB-Hib and 54 percent the three doses of polio.

Male children are slightly less likely to receive all basic vaccinations compared with female children (47 percent compared with 51 percent). First-born children, urban children, and children of mothers with more than secondary eduction are more likely to receive all basic vaccinations compared with their counterparts. Basic vaccination coverage is highest in Baucau (67 percent) and lowest in Ermera (31 percent). Receipt of all basic vaccinations increases with household wealth.

Basic vaccination coverage has declined slightly since the 2009-10 TLDHS, from 53 percent of children with all basic vaccinations to 49 percent in 2016.

Table 10 Vaccinations by background characteristics

Percentage of children age 12-23 months who received specific vaccines at any time before the survey (according to a vaccination card or LISIO or the mother's report), percentage with all basic vaccinations, percentage with all age-appropriate vaccinations, and percentage with no vaccinations, according to background characteristics, Timor-Leste DHS 2016

| | | DI | PT-HepB-l | Hib | | Po | lio ¹ | | Sarampo | | All age | | |
|---------------------------|--------------|--------------|--------------|--------------|----------------------|--------------|------------------|--------------|-------------------------------------|--------------------------------------|--|-------------------------|--------------------|
| Background characteristic | BCG | 1 | 2 | 3 | 0 (birth dose) | 1 | 2 | 3 | (measles- containing vaccine) | All basic vaccina-tions ² | appropriate vaccina-tions ³ | No vaccina- tions | Number of children |
| Sex | | | | | | | | | | | | | |
| Male | 80.5 | 77.1 | 69.2 | 60.6 | 70.6 | 71.7 | 63.4 | 52.2 | 68.3 | 47.0 | 43.1 | 19.5 | 742 |
| Female | 80.5 | 79.8 | 74.4 | 62.8 | 72.8 | 74.6 | 65.6 | 56.5 | 70.4 | 50.5 | 47.4 | 18.9 | 714 |
| Birth order | | | | | | | | | | | | | |
| 1 | 81.8 | 82.3 | 77.8 | 68.2 | 74.9 | 77.9 | 71.2 | 61.6 | 71.1 | 55.1 | 52.1 | 17.6 | 376 |
| 2-3 | 82.9 | 78.8 | 71.2 | 60.1 | 75.3 | 73.3 | 62.2 | 51.9 | 70.8 | 46.3 | 44.5 | 17.1 | 537 |
| 4-5 | 80.0 | 77.3 | 70.1 | 59.7 | 70.0 | 71.2 | 62.5 | 52.8 | 68.1 | 47.1 | 43.6 | 19.7 | 330 |
| 6+ | 72.8 | 72.1 | 65.0 | 57.2 | 59.6 | 67.0 | 61.5 | 49.9 | 64.5 | 46.2 | 37.6 | 26.7 | 213 |
| Residence | | | | | | | | | | | | | |
| Urban | 87.2 | 86.8 | 74.5 | 65.7 | 81.6 | 76.5 | 67.3 | 56.6 | 74.2 | 50.6 | 48.4 | 12.7 | 405 |
| Rural | 77.9 | 75.2 | 70.7 | 60.1 | 67.9 | 71.8 | 63.4 | 53.4 | 67.5 | 48.0 | 44.0 | 21.7 | 1,051 |
| Municipality | | | | | | | | | | | | | |
| Aileu . | 91.0 | 88.8 | 82.1 | 68.2 | 81.6 | 80.1 | 73.1 | 60.8 | 89.7 | 58.0 | 54.7 | 9.0 | 59 |
| Ainaro | 74.0 | 69.2 | 55.5 | 48.9 | 61.4 | 61.5 | 48.5 | 41.5 | 62.1 | 35.0 | 33.1 | 26.0 | 73 |
| Baucau | 87.9 | 87.5 | 86.0 | 78.7 | 81.2 | 85.6 | 79.2 | 74.3 | 79.6 | 67.4 | 61.7 | 12.1 | 168 |
| Bobonaro | 80.2 | 75.9 | 72.5 | 61.7 | 66.1 | 75.8 | 70.1 | 53.7 | 65.5 | 46.7 | 41.6 | 18.1 | 121 |
| Covalima | 71.4 | 67.8 | 63.5 | 48.0 | 66.4 | 61.4 | 54.4 | 43.3 | 59.3 | 40.2 | 40.2 | 28.6 | 99 |
| Dili | 88.9 | 88.9 | 74.7 | 65.6 | 82.4 | 78.3 | 67.1 | 56.9 | 74.5 | 52.1 | 49.4 | 11.1 | 323 |
| Ermera | 58.6 | 58.6 | 57.4 | 47.6 | 52.1 | 54.1 | 50.2 | 36.8 | 52.5 | 30.6 | 26.5 | 41.4 | 127 |
| Lautem | 80.5 81.3 | 75.2 77.0 | 72.6 70.9 | 69.7 58.5 | 78.2 69.4 | 73.7 71.8 | 70.8 59.3 | 66.2 55.0 | 65.5 | 57.2 | 53.9 | 18.2 18.7 | 78 |
| Liquiça Manatuto | 81.3 82.7 | 77.0 81.7 | 70.9 79.8 | 58.5 78.2 | 69.4 75.7 | 71.8 80.6 | 59.3 78.3 | 66.2 | 70.1 74.2 | 52.4 61.2 | 46.8 57.0 | 17.3 | 89 58 |
| Manufahi | 72.3 | 69.4 | 64.5 | 53.5 | 62.1 | 61.8 | 49.9 | 38.9 | 67.5 | 34.2 | 32.6 | 26.2 | 80 |
| SAR of Oecussi | 85.3 | 82.0 | 79.1 | 54.1 | 64.9 | 77.6 | 61.7 | 48.3 | 68.7 | 39.2 | 34.8 | 14.7 | 87 |
| Viqueque | 77.1 | 74.1 | 63.9 | 56.9 | 67.6 | 73.3 | 65.0 | 52.6 | 65.8 | 47.7 | 45.1 | 22.9 | 93 |
| Education | | | | | | | | | | | | | |
| No education | 70.1 | 66.4 | 60.4 | 51.1 | 59.4 | 61.9 | 55.1 | 45.4 | 58.8 | 40.6 | 37.9 | 29.3 | 336 |
| Primary | 79.4 | 77.4 | 74.5 | 61.9 | 67.8 | 72.3 | 64.5 | 54.2 | 71.8 | 51.3 | 45.4 | 20.6 | 252 |
| Secondary | 83.0 | 81.1 | 73.3 | 63.8 | 75.9 | 75.1 | 66.1 | 56.4 | 70.8 | 49.8 | 46.7 | 16.8 | 726 |
| More than secondary | 94.3 | 94.6 | 85.8 | 75.4 | 86.2 | 90.6 | 78.1 | 64.6 | 82.4 | 57.8 | 54.8 | 5.2 | 143 |
| Wealth quintile | | | | | | | | | | | | | |
| Lowest | 69.4 | 64.0 | 58.2 | 48.1 | 55.0 | 60.1 | 48.4 | 41.0 | 54.4 | 37.4 | 33.6 | 30.6 | 268 |
| Second | 74.2 | 71.9 | 68.0 | 57.5 | 66.2 | 68.0 | 60.9 | 50.6 | 61.2 | 43.3 | 39.7 | 25.7 | 301 |
| Middle | 80.4 | 80.2 | 73.7 | 60.4 | 70.3 | 74.7 | 67.3 | 55.9 | 74.8 | 50.1 | 45.0 | 18.2 | 285 |
| Fourth | 86.1 | 84.6 | 78.1 | 68.8 | 81.6 | 77.4 | 70.5 | 60.3 | 76.7 | 55.5 | 52.6 | 13.9 | 324 |
| Highest | 91.5 | 90.2 | 79.5 | 72.4 | 83.5 | 84.4 | 74.0 | 62.4 | 78.2 | 56.3 | 54.2 | 8.5 | 278 |
| Total | 80.5 | 78.4 | 71.8 | 61.7 | 71.7 | 73.1 | 64.5 | 54.3 | 69.3 | 48.7 | 45.2 | 19.2 | 1,456 |

BCG = Bacille Calmette-Guérin

DPT = diphtheria-pertussis-tetanus

HepB = hepatitis B

Hib = Haemophilus influenzae type b

Note: Children are considered to have received the vaccine if it was either written on the child's vaccination card or LISIO 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.

Polio 0 is the polio vaccination given at birth.

3.10.2 Childhood Acute Respiratory Infection, Fever, and Diarrhea

Acute respiratory infection (ARI), fever, and dehydration from diarrhea are important contributing causes of childhood morbidity and mortality in developing countries (WHO 2003). Prompt medical attention when a child has the symptoms of these illnesses is crucial in reducing child deaths. In the 2016 TLDHS, mothers were asked if each child under age 5 had experienced an episode of diarrhea; short, rapid breathing or difficulty breathing as a result of a chest-related problem (symptoms of ARI); or a fever in the 2 weeks preceding the survey. Respondents were also asked if treatment was sought when the child was ill. It should be noted that the morbidity data collected are subjective because they are based on a mother's perception of illnesses without validation by medical personnel.

Table 11 shows that treatment was sought for 70 percent of children with ARI symptoms, 56 percent of those with a fever, and 65 percent of children with diarrhea. Seventy percent of children with diarrhea received a rehydration solution from an oral rehydration salt (ORS) packet or pre-packaged ORS fluid; 50 percent were given zinc supplements; and 40 percent received both ORS and zinc supplements. Fifty-two percent of children with diarrhea were given oral rehydration therapy (ORT) and/or increased fluids.

² BCG, three doses of DPT-HepB-Hib, three doses of oral polio vaccine (excluding polio vaccine given at birth), and one dose of Sarampo (measles-containing vaccine) ³ BCG, three doses of DPT-HepB-Hib, polio vaccine given at birth, three doses of oral polio vaccine, and one dose of Sarampo (measles-containing vaccine)

Table 11 Treatment for acute respiratory infection, fever, and diarrhea

Among children under age 5 who had symptoms of acute respiratory infection (ARI) or had fever in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, percentage given a fluid made from oral rehydration salt (ORS) packets or given pre-packaged ORS fluid, percentage given discretized for whom advice or treatment was sought, percentage given advice or treatment was sought, percentage given one sold fluids and continued feeding, and percentage who continued feeding and were given ORS and zinc, percentage given increased fluids and continued feeding. And percentage who continued feeding and were given ORT and/or increased fluids, according to background characteristics, Timor-Leste DHS 2016

| IIIIIIII - FESIE DI IS 20 IO | | | | | | | | | | | |
|-------------------------------|--|-----------------------|--|-----------------------|--|--|--------------------------|-------------------------------------|--|--|-----------------------|
| | Children with symptoms of ARI1 | nptoms of ARI¹ | Children with | ith fever | | | J | Children with diarrhea | a | | |
| Background characteristic | Percentage for whom advice or treatment was sought² | Number of children | Percentage for whom advice or treatment was sought² | Number of children | Percentage for whom advice or treatment was sought ² | Percentage given fluid from ORS packet or pre-packaged ORS fluid | Percentage given zinc | Percentage given ORS and zinc | Percentage given increased fluids and continued feeding³ | Percentage who continued feeding³ and were given ORT and/or increased fluids | Number of children |
| Age in months | | | | | | | | | | | |
| 1 | * | 10 | 61.1 | 83 | 53.9 | 40.8 | 51.7 | 77.7 | 1 6 | 292 | 228 |
| 6-11 | * | , | 56.0 | 113 | 64.5 | 67.8 | 4 5 | 29.7 | . 6 | 474 | 22 |
| 12-23 | (654) | 2 % | 5.45 | 259 | 67.7 | 76.1 | 50.1 | 43.8 | . rc | 57.9 | 259 |
| 24-35 | (74.0) | 33 | 57.8 | 192 | 63.9 | 72.6 | 52.6 | 45.3 | . ro | 52.5 | 148 |
| 36-47 | * | 27 | 50.3 | 138 | 62.9 | 70.7 | 53.3 | 44.7 | 5.5 | 55.5 | 113 |
| 48-59 | * | 19 | 29.7 | 146 | 65.3 | 67.5 | 49.4 | 34.4 | 4.1 | 46.1 | 100 |
| Sex | (| (| , | ! | 1 | Ç C | 0 | 0 | | (| Ş |
| Male Female | 66.5 75.9 | 82 57 | 57.0 57.0 | 497 433 | 67.7 60.5 | 72.6 66.5 | 48.6 52.3 | 29.3 41.5 | 3.7 | 53.9 48.8 | 335 |
| Residence | | | | | | | | | | | |
| Urban | (86.0) | 53 | 66.5 | 323 | 70.8 | 69.1 | 56.0 46.4 | 46.5 36.2 | 6.5 7.5 | 52.9 50.8 | 299 456 |
| Minimitality | | 8 | | 5 | 5 | - | - | i | | 9 | 2 |
| Municipality | * | ц | 0 99 | 72 | 6 9 9 | 7 7 7 | 60.0 | 7 | · | 2 | Oc. |
| Ainaro | * | . C | 00.9 46.1 | 5 4 5 4 | (66.1) | 4.1.4 | 5.00 | (46.1) | j. 6 | (44.1) | 3 6 |
| Baucau | * | <u>o</u> თ | (26.0) | 27 | (50.1) | (63.2) | (46.3) | (30.9) | (1.5) | (39.3) | 14 |
| Bobonaro | * | 19 | 52.5 | 23 | 66.1 | 65.2 | 70.7 | 53.9 | 6.9 | 48.3 | 27. |
| Covalima | * | 2 | (66.7) | 40 | (2.62) | (78.9) | (54.1) | (50.4) | (1.3) | (0.89) | 20 |
| Dill | * | 38 | 67.5 | 263 | 69.5 | 72.0 | 54.8 8. | 47.2 | 0.6 | 57.8 | 247 |
| Ermera | * * | ∞ ı | 21.6 | 95 10 10 | (52.6) | (77.9) | (33.1) | (23.4) | (3.8) | (50.5) | 63 |
| Lautem | c -}c | ა ද | (55.3) | 3/ | 61.7 | 57.7 | 26.4 4.05 | 13.0 | 9.0 | 32.2 | 7 6 |
| Liquica | * | 2 = | 7.04 | 9 6 | 20.0 | 4.00 | 17.7 | 22.7 | 0.0 | 0.04 | 90 |
| Manufahi | : * | 4 V | ر ا ا | S S | (77.0) | (83.1) | (20.3) | (25.9) | (o.o) | (500.5) (50.0) | 9 % |
| SAR of Oecussi | * | 10 | 51.1 | 8 | (6.69 | 62.7 | 36.3 | 26.8 | 4.2) | 54.3 | 20 |
| Viqueque | * | 6 | 70.2 | 47 | (76.3) | (57.3) | (38.2) | (29.9) | (3.5) | (36.7) | 27 |
| Mother's education | ; | į | | | , | , | | ! | ; | | : |
| No education | (61.2) | 33 | 48.0 | 196 | 58.3 | 8.69 | 46.0 | 35.9 | 2.8 | 54.6 | 131 |
| Primary | (76.2) | 50 | 60.9 | 170 | 72.6 | 73.3 | 49.6 | 37.4 | 5.7 | 9.84 | 135 |
| Secondary More than secondary | o.; | S 00 | 32.9 76.5 | 47.4 86 | 73.9 | 75.7 | 0. 80 0. 60 0. 60 | 00.00 00.00 | 0.0 | 90.0 90.3 | 417 78 78 |
| Wealth quintile | | ì | 2 | 3 | | . | | | ! | | 2 |
| Lowest | (66.5) | 27 | 42.5 | 171 | 59.3 | 62.2 | 41.4 | 31.3 | 3.8 | 47.7 | 107 |
| Second | * | 23 | 50.3 | 150 | 55.2 | 72.2 | 49.2 | 37.2 | 3.0 | 49.1 | 128 |
| Middle | * | 21 | 53.9 | 208 | 64.1 | 72.3 | 51.7 | 40.8 | 3.1 | 48.7 | 125 |
| Fourth | (73.2) | 8 8 | 59.6 | 201 | 62.6 | 68.0 | 41.1 | 34.2 | 6.9 | 49.3 | 208 |
| Tiglies | (90.4) | ţ (|) 1 | - 0 | 0.00 | 4.0 | 0.00 | 5 ¢ | . r | 7.00 | 0 1 |
| lotal | 70.3 | 139 | 55.5 | 930 | 04.5 | 68.8 | 2.06 | 40.3 | 5.3 | 9.1.6 | 00/ |
| | | | | | | | | | | | |

ORT = Oral rehydration therapy

Note: ORT includes fluid prepared from oral rehydration salt (ORS) packets, pre-packaged ORS fluid, and recommended homemade fluids (RHF). An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Figures in parentheses are based on 25.49 unweighted cases.

I and has been suppressed. Figures in parentheses are based on 25.49 unweighted cases.

Excludes sequipation of ARI include short, rapid breathing which was chest-related and/or difficult breathing which was chest-related.

Excludes advice or treatment from a traditional practitional p

3.10.3 Infant and Young Child Feeding Practices

Breastfeeding is sufficient and beneficial for infant nutrition in the first 6 months of life. Breastfeeding immediately after birth also helps the uterus contract, which reduces the mother's postpartum blood loss. Supplementing breast milk before the child is age 6 months is discouraged because it may inhibit breastfeeding and expose the infant to illness. Infants older than 6 months need other food and drink while they continue to breastfeed until age 2 or older. Breastmilk still is an important source of energy, protein, and other nutrients such as vitamin A and iron. Complimentary foods should include a variety of options, such as peeled, cooked, and mashed vegetables, grains, pulses and fruit, some oil, and also meat, eggs, chicken, and dairy products to provide adequate nourishment (Pan American Health Organization 2002).

The 2016 TLDHS collected data on infant and young child feeding (IYCF) practices for all children born in the 2 years preceding the survey. Table 12 shows breastfeeding practices by child's age. Fifty percent of infants under age 6 months are exclusively breastfed. Contrary to the recommendation that children under age 6 months be exclusively breastfed, 11 percent consume plain water, 3 percent consume nonmilk liquids, 7 percent consume other milk, and 22 percent consume complementary foods in addition to breast milk. Seven percent of infants under age 6 months are not breastfed at all. The percentage of children exclusively breastfed decreases sharply with age, from 64 percent of infants age 0-1 month to 53 percent of infants age 2-3 months and, further, to 35 percent of infants age 4-5 months. Eighteen percent of infants under age 6 months are fed using a bottle with a nipple, a practice that is discouraged because of the risk of illness to the child.

Breastfeeding a child until age 2 is recommended. However, the proportion of children who are currently breastfeeding decreases with increasing child age from 83 percent among children age 9-11 months to 60 percent among children 12-17 months, and finally to 40 percent among children age 18-23 months.

Table 12 Breastfeeding status by age

Percent distribution of youngest children under age 2 who are living with their mother, by breastfeeding status, percentage currently breastfeeding; and percentage of all children under age 2 using a bottle with a nipple, according to age in months, Timor-Leste DHS 2016

| | | | Bre | eastfeeding sta | atus | | | | | | |
|---------------|------------------------|----------------------------|--|---|---|--|-------|---|---|--|--|
| Age in months | Not breast- feeding | Exclusively breast-feeding | Breast- feeding and consuming plain water only | Breast- feeding and consuming non-milk liquids ¹ | Breast- feeding and consuming other milk | Breast- feeding and consuming comple- mentary foods | Total | Percentage currently breast- feeding | Number of youngest children under age 2 living with the mother | Percentage using a bottle with a nipple | Number of all children under age 2 |
| 0-1 | 4.6 | 63.7 | 8.1 | 5.1 | 6.4 | 12.2 | 100.0 | 95.4 | 238 | 12.1 | 243 |
| 2-3 | 7.1 | 52.7 | 11.3 | 3.4 | 10.1 | 15.4 | 100.0 | 92.9 | 247 | 13.3 | 252 |
| 4-5 | 9.7 | 34.5 | 12.6 | 0.7 | 4.6 | 37.9 | 100.0 | 90.3 | 243 | 26.7 | 254 |
| 6-8 | 11.2 | 13.2 | 10.9 | 3.8 | 4.0 | 57.0 | 100.0 | 88.8 | 369 | 24.9 | 383 |
| 9-11 | 17.0 | 5.6 | 7.2 | 1.6 | 1.8 | 66.7 | 100.0 | 83.0 | 313 | 23.2 | 331 |
| 12-17 | 39.8 | 3.5 | 2.8 | 1.6 | 0.5 | 51.7 | 100.0 | 60.2 | 745 | 27.0 | 809 |
| 18-23 | 59.7 | 1.4 | 1.7 | 1.0 | 0.1 | 36.1 | 100.0 | 40.3 | 550 | 25.1 | 647 |
| 0-3 | 5.9 | 58.1 | 9.7 | 4.2 | 8.3 | 13.8 | 100.0 | 94.1 | 485 | 12.7 | 495 |
| 0-5 | 7.1 | 50.2 | 10.7 | 3.0 | 7.1 | 21.9 | 100.0 | 92.9 | 728 | 17.5 | 750 |
| 6-9 | 11.7 | 12.4 | 11.1 | 3.1 | 3.5 | 58.2 | 100.0 | 88.3 | 488 | 24.7 | 512 |
| 12-15 | 37.6 | 3.4 | 2.6 | 2.1 | 0.4 | 54.0 | 100.0 | 62.4 | 499 | 28.6 | 531 |
| 12-23 | 48.3 | 2.6 | 2.3 | 1.3 | 0.4 | 45.1 | 100.0 | 51.7 | 1,295 | 26.1 | 1,456 |
| 20-23 | 60.2 | 1.4 | 1.4 | 0.9 | 0.2 | 36.0 | 100.0 | 39.8 | 356 | 24.8 | 425 |

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 breastfeeding, 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 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, or other liquids

The minimum acceptable diet indicator is used to assess the proportion of children age 6-23 months who meet minimum standards with respect to IYCF practices. Specifically, children age 6-23 months who have a minimum acceptable diet meet all three IYCF criteria below:

- 1. Breastfeeding, or not breastfeeding and receiving two or more feedings of commercial infant formula; fresh, tinned, or powdered animal milk; or yogurt
- 2. Fed with foods from four or more of the following groups: a. infant formula, milk other than breast milk, and 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; d. other fruits and vegetables; e. eggs; f. meat, poultry, fish, and shellfish (and organ meats); and g. legumes and nuts
- 3. Fed the minimum recommended number of times per day according to their age and breastfeeding status:
 - a. For breastfed children, minimum meal frequency is receiving solid or semi-solid 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.
 - b. For children age 6-23 months who are not breastfed, minimum meal frequency is receiving solid or semisolid food or milk feeds at least four times a day.

Figure 5 shows the percentage of children being fed the minimum acceptable diet, by age. In total, only 13 percent of children age 6-23 months have met the criteria for a minimum acceptable diet.

12 13 13 15 15 16-23 months months months Total 6-23 months

Figure 5 Minimum acceptable diet according to age, in months

ANEMIA PREVALENCE IN CHILDREN, WOMEN, AND MEN

Percent

3.11

Anemia is a condition marked by low levels of hemoglobin in the blood. Iron is a key component of hemoglobin, and iron deficiency is estimated to be responsible for half of all anemia globally. Other causes of anemia include hookworm and other helminths, malaria infection, other nutritional deficiencies, chronic infections, and genetic conditions. Anemia is a serious concern for children because it can impair cognitive development, stunt growth, and increase morbidity from infectious diseases. As a part of the 2016 TLDHS, hemoglobin levels were successfully measured for 87 percent of children age 6-59 months eligible for testing, 98 percent of women age 15-49 eligible for testing, and 98 percent of men age 15-59 eligible for testing.

Timor-Leste DHS 2016

Tables 13.1-13.3 present anemia prevalence for children age 6-59 months, women age 15-49, and men age 15-49, respectively, by background characteristics. Hemoglobin levels were adjusted for altitude and, for women and men, by smoking status. Children and pregnant women with hemoglobin levels below 11.0 g/dl

were defined as anemic. For non-pregnant women, hemoglobin levels below 12.0 g/dl were defined as anemic, while for men, levels below 13.0 g/dl were defined as anemic.

Four in ten children age 6-59 months (40 percent) suffered from some degree of anemia: 28 percent were mildly anemic, 12 percent moderately anemic, and less than 1 percent severely anemic. The prevalence of anemia decreases with age from a high of 62 percent among children age 6-8 months to a low of 28 percent among children age 48-59 months. There is little variation in anemia by sex or by urban-rural status. The lowest municipality-level prevalence of anemia is among children living in Manufahi (19 percent), and the highest in Liquica (61 percent).

Almost one-quarter (23 percent) of women age 15-49 are anemic. The majority of these women are mildly anemic (19 percent); 4 percent are moderately anemic, and 1 percent are severely anemic. The proportion of women with any anemia is slightly higher in urban areas than in rural areas (25 percent and 22 percent, respectively). By municipality, anemia prevalence among women ranges from 10 percent in Manufahi to 46 percent in SAR of Oecussi. Fewer men are considered anemic compared with women and children. Thirteen percent of men age 15-49 are anemic, ranging from 5 percent in Dili and Manufahi to 28 percent in Ermera.

Table 13.1 Anemia among children

Percentage of children age 6-59 months classified as having any, mild, moderate, and severe anemia, according to background characteristics, Timor-Leste DHS 2016

| | | | Severity of anemia | | |
|---------------------------|--------------------------|-------------------------------|---------------------------------|----------------------------|--------|
| Background characteristic | Any anemia <11.0 g/dl | Mild anemia 10.0-10.9 g/dl | Moderate anemia 7.0-9.9 g/dl | Severe anemia <7.0 g/dl | Number |
| Sex | | | | - | |
| Male | 40.8 | 27.0 | 13.7 | 0.1 | 1,078 |
| Female | 39.9 | 28.4 | 10.8 | 0.7 | 940 |
| Age in months | | | | | |
| 6-8 | 61.7 | 34.8 | 25.9 | 1.1 | 81 |
| 9-11 | 59.9 | 36.6 | 21.0 | 2.3 | 90 |
| 12-17 | 57.3 | 34.0 | 23.3 | 0.0 | 264 |
| 18-23 | 45.8 | 27.4 | 18.1 | 0.3 | 199 |
| 24-35 | 40.8 | 29.4 | 11.0 | 0.4 | 448 |
| 36-47 | 33.2 | 25.5 | 7.3 | 0.4 | 477 |
| 48-59 | 27.7 | 21.5 | 6.0 | 0.2 | 458 |
| Residence | | | | | |
| Urban | 41.0 | 30.0 | 10.9 | 0.1 | 488 |
| Rural | 40.1 | 26.9 | 12.8 | 0.5 | 1,529 |
| Municipality | | | | | |
| Aileu | 30.9 | 13.3 | 17.5 | 0.0 | 68 |
| Ainaro | 45.6 | 27.3 | 16.8 | 1.5 | 121 |
| Baucau | 37.6 | 23.3 | 14.3 | 0.0 | 224 |
| Bobonaro | 38.8 | 28.3 | 10.1 | 0.3 | 180 |
| Covalima | 46.1 | 35.4 | 9.8 | 0.9 | 132 |
| Dili | 41.5 | 33.1 | 8.4 | 0.0 | 365 |
| Ermera | 41.1 | 32.5 | 7.6 | 1.0 | 159 |
| Lautem | 37.9 | 30.5 | 7.4 | 0.0 | 122 |
| Liquiça | 60.9 | 30.2 | 29.2 | 1.6 | 165 |
| Manatuto | 49.1 | 37.3 | 11.8 | 0.0 | 89 |
| Manufahi | 18.9 | 13.9 | 5.0 | 0.0 | 116 |
| SAR of Oecussi | 41.0 | 25.2 | 15.8 | 0.0 | 115 |
| Viqueque | 28.8 | 17.0 | 11.7 | 0.0 | 162 |
| Wealth quintile | | | | | |
| Lowest | 38.6 | 26.5 | 11.8 | 0.2 | 416 |
| Second | 38.7 | 25.7 | 12.5 | 0.5 | 442 |
| Middle | 39.6 | 26.0 | 13.4 | 0.2 | 411 |
| Fourth | 44.6 | 29.4 | 14.9 | 0.4 | 397 |
| Highest | 40.6 | 31.4 | 8.5 | 0.7 | 351 |
| Total | 40.4 | 27.6 | 12.3 | 0.4 | 2,017 |

Note: Table is based on children who stayed in the household the night before the interview. Prevalence of anemia, based on hemoglobin levels, is adjusted for altitude using CDC formulas (CDC 1998). Hemoglobin is in grams per deciliter (g/dl).

Table 13.2 Anemia among women

Percentage of women age 15-49 classified as having any, mild, moderate, and severe anemia, according to background characteristics, Timor-Leste DHS 2016

| | | | | Severity of anemia | | |
|-----------------|--------------|------------|----------------|--------------------|---------------|--------|
| | | Any anemia | Mild anemia | Moderate anemia | Severe anemia | |
| Background | Non-pregnant | <12.0 g/dl | 10.0-11.9 g/dl | 7.0-9.9 g/dl | <7.0 g/dl | |
| characteristic | Pregnant | <11.0 g/dl | 10.0-10.9 g/dl | 7.0-9.9 g/dl | <7.0 g/dl | Number |
| Residence | | | | | | |
| Urban | | 24.8 | 19.8 | 4.5 | 0.5 | 1,373 |
| Rural | | 21.7 | 17.9 | 3.3 | 0.5 | 2,828 |
| Municipality | | | | | | |
| Aileu . | | 13.6 | 12.0 | 1.7 | 0.0 | 166 |
| Ainaro | | 16.0 | 14.2 | 1.7 | 0.0 | 189 |
| Baucau | | 29.9 | 24.9 | 4.4 | 0.6 | 416 |
| Bobonaro | | 19.5 | 16.0 | 2.5 | 1.0 | 315 |
| Covalima | | 17.4 | 13.5 | 2.8 | 1.1 | 262 |
| Dili | | 27.0 | 21.4 | 5.2 | 0.3 | 1,058 |
| Ermera | | 18.2 | 15.9 | 2.3 | 0.0 | 371 |
| Lautem | | 22.6 | 20.4 | 2.3 | 0.0 | 219 |
| Liquiça | | 15.9 | 13.1 | 2.5 | 0.4 | 275 |
| Manatuto | | 20.5 | 17.8 | 2.7 | 0.0 | 186 |
| Manufahi | | 9.7 | 8.8 | 0.9 | 0.0 | 215 |
| SAR of Oecus | si | 46.1 | 33.7 | 10.4 | 2.0 | 244 |
| Viqueque | | 18.2 | 14.3 | 3.3 | 0.6 | 287 |
| Wealth quintile | | | | | | |
| Lowest | | 22.9 | 18.3 | 4.0 | 0.5 | 681 |
| Second | | 21.1 | 16.4 | 4.3 | 0.3 | 826 |
| Middle | | 23.6 | 20.7 | 2.5 | 0.4 | 820 |
| Fourth | | 22.0 | 17.6 | 3.6 | 0.8 | 911 |
| Highest | | 23.9 | 19.5 | 4.2 | 0.2 | 963 |
| Total | | 22.7 | 18.5 | 3.7 | 0.5 | 4,201 |

Note: Table is based on women who stayed in the household the night before the interview. Prevalence of anemia, based on hemoglobin levels, is adjusted for altitude and smoking using CDC formulas (CDC 1998). Hemoglobin is in grams per deciliter (g/dl).

Table 13.3 Anemia among men

Percentage of men aged 15-49 years classified as having any anemia, according to background characteristics, Timor-Leste DHS 2016

| Background characteristic | Any anemia <13.0 g/dl | Number |
|-----------------------------|--------------------------|----------------|
| | 110.0 g/ui | Number |
| Residence Urban Rural | 7.4 15.7 | 1,309 2,647 |
| Municipality | | |
| Aileu | 20.3 | 171 |
| Ainaro | 11.4 | 182 |
| Baucau | 9.6 | 378 |
| Bobonaro Covalima | 17.2 13.7 | 291 231 |
| Covalima Dili | 13.7 5.4 | 1,047 |
| Ermera | 27.5 | 332 |
| Lautem | 21.9 | 187 |
| Liquiça | 16.1 | 248 |
| Manatuto | 9.0 | 172 |
| Manufahi | 4.8 | 225 |
| SAR of Oecussi | 22.0 | 206 |
| Viqueque | 13.2 | 285 |
| Wealth guintile | | |
| Lowest | 13.7 | 628 |
| Second | 17.3 | 813 |
| Middle | 16.1 | 789 |
| Fourth | 11.9 | 813 |
| Highest | 6.7 | 913 |
| Total 15-49 | 12.9 | 3,956 |
| Men 50-59 | 15.6 | 529 |
| Total 15-59 | 13.2 | 4,485 |

Note: Table is based on men who stayed in the household the night before the interview. Prevalence of anemia, based on hemoglobin levels, is adjusted for altitude and smoking using CDC formulas (CDC, 1998). Hemoglobin in grams per deciliter (g/dl).

3.12 OWNERSHIP AND USE OF MOSQUITO NETS

3.12.1 Ownership of Mosquito Nets

The use of insecticide-treated mosquito nets is a primary health intervention designed to reduce malaria transmission in Timor-Leste. An insecticide-treated net (ITN) is (1) a factory-treated net that does not require any further treatment or (2) a net that has been soaked with insecticide within the past 12 months. Longlasting insecticidal nets (LLINs) are a subset of ITNs. An LLIN is a factory-treated mosquito net made with netting material that has insecticide incorporated within or bound around the fibers. The current generation of LLINs lasts 3 to 5 years, after which the net should be replaced.

All households in the 2016 TLDHS were asked if they owned mosquito nets and if so, what type and how many. Table 14 presents the percentage of households with at least one ITN, the average number of ITNs per household, and the percentage of households with at least one ITN for every two persons who stayed in the household the previous night, according to background characteristics. Among all households in Timor-Leste, 64 percent possess at least one ITN. On average, there are 1.5 ITNs per household.

Table 14 Household possession of insecticide-treated nets

Percentage of households with at least one insecticide-treated net (ITN); average number of ITNs per household; and percentage of households with at least one ITN per two persons who stayed in the household last night, by background characteristics. Timor-Leste DHS 2016

| Background characteristic | Percentage of households with at least one insecticide- treated net (ITN) ¹ | Average number of insecticide-treated nets (ITN)¹ per household | Number of households | Percentage of households with at least one insecticide-treated net (ITN)¹ for every two persons who stayed in the household last night² | Number of households with at least one person who stayed in the household last night |
|------------------------------|--|---|-------------------------|---|---|
| Residence | | | | | |
| Urban | 57.2 | 1.3 | 2,744 | 23.7 | 2,738 |
| Rural | 66.2 | 1.6 | 8,758 | 35.7 | 8,751 |
| Municipality | | | | | |
| Aileu | 71.9 | 1.8 | 414 | 31.2 | 414 |
| Ainaro | 51.4 | 1.1 | 617 | 25.3 | 615 |
| Baucau | 61.2 | 1.7 | 1,383 | 35.1 | 1,383 |
| Bobonaro | 56.2 | 1.3 | 953 | 26.8 | 953 |
| Covalima | 74.3 | 1.7 | 787 | 45.2 | 787 |
| Dili | 53.9 | 1.1 | 2,016 | 19.0 | 2,010 |
| Ermera | 51.3 | 1.1 | 1,175 | 22.3 | 1,175 |
| Lautem | 74.0 | 1.8 | 695 | 43.5 | 695 |
| Liquiça | 65.8 | 1.7 | 721 | 34.8 | 720 |
| Manatuto | 73.6 | 1.8 | 505 | 37.9 | 505 |
| Manufahi | 72.3 | 2.0 | 556 | 37.2 | 554 |
| SAR of Oecussi | 87.3 | 2.0 | 883 | 54.9 | 880 |
| Viqueque | 70.1 | 1.7 | 798 | 39.5 | 798 |
| Wealth quintile | | | | | |
| Lowest | 55.8 | 1.1 | 2,802 | 29.7 | 2,799 |
| Second | 67.0 | 1.5 | 2,417 | 33.6 | 2,414 |
| Middle | 69.3 | 1.7 | 2,288 | 36.6 | 2,284 |
| Fourth | 74.1 | 1.9 | 2,079 | 39.1 | 2,077 |
| Highest | 55.0 | 1.4 | 1,916 | 25.1 | 1,914 |
| Total | 64.0 | 1.5 | 11,502 | 32.8 | 11,489 |

¹ An insecticide-treated net (ITN) is (1) a factory-treated net that does not require any further treatment, including longlasting insecticidal nets (LLINs) or (2) a net that has been soaked with insecticide within the past 12 months. ² De facto household members

The percentage of households that own at least one ITN is higher in rural households (66 percent) compared with urban households (57 percent). Ownership of at least one ITN is highest in SAR of Oecussi (87 percent) and lowest in Ainaro and Ermera (both 51 percent).

One-third (33 percent) of households in Timor-Leste had at least one ITN for every two persons who stayed in the household the night before the survey. The percentage is higher in rural households than in urban households (36 percent and 24 percent, respectively). By municipality, the percentage of households with at

least one ITN for every two persons who stayed in the household the night before the survey is highest in SAR of Oecussi at 55 percent and lowest in Dili at 19 percent. With the exception of households in the highest wealth quintile, the percentage of households with at least one ITN for every two persons increases with wealth.

ITN ownership has improved from 41 percent in the 2009-10 TLDHS to 64 percent in the 2016 survey, and the average number of ITNs per household has improved from 0.8 to 1.5. Improvement is especially notable in rural areas.

Figure 6 shows the percentage of the de facto population with access to an ITN, that is the percentage who could sleep under an ITN if each ITN in the household were used by up to two people. Overall, 48 percent of the household population has access to an ITN. Those living in rural areas (52 percent), those living in SAR of Occussi (73 percent), and those in the fourth highest wealth quintile (56 percent) are the most likely to have access to an ITN.

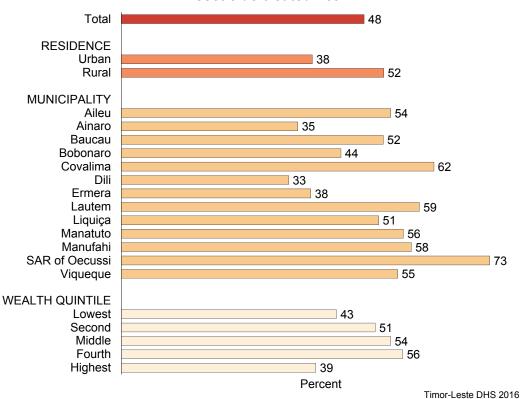


Figure 6 Percentage of the de facto household population with access to an insecticide-treated net

3.12.2 Use of ITNs by Children and Pregnant Women

Community-level protection against malaria helps reduce the spread of disease and offers additional protection against malaria for those who are most vulnerable: children under age 5 and pregnant women. Table 16 presents the use of mosquito nets among children and pregnant women.

Fifty-six percent of children under age 5 slept under an ITN the night before the survey. As might be expected, the figure is higher for children in households that have ITNs; 79 percent of those in households with at least one ITN slept under an ITN the night before the survey. Sixty percent of pregnant women age 15-49 in all households slept under an ITN the night before the survey. In households with at least one ITN, 80 percent of pregnant women slept under an ITN the night before the survey. Children and pregnant women living in rural areas are more likely than those in urban areas to have slept under an ITN. The proportion of children and women sleeping under an ITN the night before the survey is generally lowest in Ainaro and

Dili. With the exception of those living in households in the highest wealth quintile, the percentage of children and of women who slept under an ITN the night before the survey increases with wealth.

The percentage of children and pregnant women who slept under an ITN the night before the survey has improved from 41 percent each in the 2009-10 TLDHS to 56 percent and 60 percent, respectively, in 2016.

Table 15 Use of insecticide-treated nets by children and pregnant women

Percentage of children under age 5 who, the night before the survey, slept under an insecticide-treated net (ITN); among children under age 5 in households with at least one ITN, percentage who slept under an ITN the night before the survey; percentage of pregnant women age 15-49 who, the night before the survey, slept under an 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, Timor-Leste DHS 2016

| | Children unde | | Children und households wit | th at least one | Pregnant women age 15-49 in all households | | Pregnant women age 15-49 in households with at least one ITN ¹ | |
|---------------------------|--|--------------------|--|--------------------|--|--------------------------|---|--------------------------|
| Background characteristic | Percentage who slept under an ITN ¹ last night | Number of children | Percentage who slept under an ITN ¹ last night | Number of children | Percentage who slept under an ITN ¹ last night | Number of pregnant women | Percentage who slept under an ITN ¹ last night | Number of pregnant women |
| Residence Urban | 48.2 | 2.097 | 77.2 | 1 210 | 50.0 | 225 | 71.5 | 164 |
| Rural | 58.6 | 5,529 | 77.2 79.9 | 1,310 4,051 | 65.5 | 235 441 | 83.7 | 345 |
| Municipality | | | | | | | | |
| Aileu | 60.5 | 294 | 73.5 | 242 | (81.2) | 19 | (97.1) | 16 |
| Ainaro | 39.7 | 391 | 76.7 | 202 | (45.5) | 29 | ` *´ | 15 |
| Baucau | 63.0 | 825 | 81.6 | 637 | (65.0) | 66 | (79.3) | 54 |
| Bobonaro | 53.5 | 659 | 83.2 | 423 | (58.3) | 48 | (81.6) | 34 |
| Covalima | 63.6 | 435 | 79.2 | 349 | (89.8) | 41 | (97.1) | 38 |
| Dili | 44.6 | 1,606 | 75.6 | 946 | 46.2 | 199 | 67.9 | 135 |
| Ermera | 47.7 | 738 | 76.4 | 460 | (48.6) | 41 | * | 28 |
| Lautem | 67.1 | 436 | 84.5 | 346 | (64.4) | 32 | (85.4) | 24 |
| Liquiça | 62.1 | 528 | 89.1 | 368 | 68.2 | 47 | (91.6) | 35 |
| Manatuto | 63.9 | 356 | 82.6 | 276 | 78.4 | 37 | 92.9 | 32 |
| Manufahi | 62.9 | 396 | 82.7 | 301 | (62.2) | 25 | (83.8) | 19 |
| SAR of Oecussi | 61.3 | 485 | 67.1 | 443 | (70.8) | 52 | (72.4) | 51 |
| Viqueque | 64.2 | 476 | 83.2 | 367 | 60.3 | 40 | (83.9) | 29 |
| Wealth quintile | | | | | | | | |
| Lowest | 49.2 | 1,581 | 74.9 | 1,038 | 60.2 | 108 | 74.8 | 87 |
| Second | 58.7 | 1,567 | 80.0 | 1,149 | 64.8 | 129 | 86.1 | 97 |
| Middle | 62.8 | 1,496 | 82.5 | 1,139 | 67.3 | 123 | 88.0 | 94 |
| Fourth | 62.8 | 1,498 | 82.6 | 1,139 | 64.5 | 167 | 79.3 | 136 |
| Highest | 45.3 | 1,483 | 74.9 | 896 | 45.2 | 150 | 70.4 | 96 |
| Total | 55.7 | 7,625 | 79.3 | 5,361 | 60.1 | 676 | 79.8 | 510 |

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

1 An insecticide-treated net (ITN) is (1) a factory-treated net that does not require any further treatment, or (2) a net that has been soaked with insecticide within the past 12 months

3.12.3 Prevalence, Diagnosis, and Prompt Treatment of Fever among Children

In moderately to highly endemic areas of malaria, acute clinical disease is almost always confined to young children who suffer high parasite densities. If untreated, this condition can progress very rapidly to severe malaria, which can lead to death. The diagnosis of malaria is based on clinical criteria and supplemented by the detection of parasites in the blood (parasitological or confirmatory diagnosis). Fever is a major manifestation of malaria in young children, although it also accompanies other illnesses. In Timor-Leste, artemisinin-based combination therapy (ACT) is the recommended first-line treatment for uncomplicated malaria.

In the 2016 TLDHS, for each child under age 5, mothers were asked if the child had experienced an episode of fever in the 2 weeks preceding the survey and, if so, whether treatment and advice were sought. Information was also collected about the type and timing of the treatment given.

Table 16 shows 13 percent of children under age 5 had a fever during the 2 weeks preceding the survey. The prevalence of fever was slightly higher among children in urban areas than children in rural areas (16 percent and 12 percent, respectively). Advice or treatment was sought for 57 percent of children with a fever, and 25 percent had blood taken from a finger or heel for testing. Advice or treatment for fever was more likely

to be sought for children in urban areas than for children in rural areas (68 percent and 51 percent, respectively). Among children with a fever who took any antimalarial drug, only 11 percent took ACT.

Table 16 Prevalence, diagnosis, and prompt treatment of children with fever

Percentage of children under age 5 with fever in the 2 weeks preceding the survey; among children under age 5 with fever, percentage for whom advice or treatment was sought and percentage who had blood taken from a finger or heel; and among children under age 5 with fever who took any antimalarial drug, percentage who took any artemisinin-based combination therapy (ACT), according to background characteristics, Timor-Leste DHS 2016

| | Children ur | nder age 5 | Childre | n under age 5 wit | h fever | fever who | Children under age 5 with fever who took any antimalarial drug | | |
|---|--|---|--|---|---|-----------------------------------|--|--|--|
| Background characteristic | Percentage with fever in the 2 weeks preceding the survey | Number of children | | Percentage who had blood taken from a finger or heel for testing | Number of children | Percentage who took any ACT | Number of children | | |
| Residence Urban Rural | 15.8 12.1 | 2,044 5,024 | 68.1 51.2 | 26.3 23.6 | 323 607 | (4.0) (17.0) | 42 51 | | |
| Municipality Aileu Ainaro Baucau Bobonaro Covalima Dili Ermera Lautem Liquiça Manatuto Manufahi SAR of Oecussi Viqueque | 15.9 12.5 7.9 8.6 9.9 16.5 14.1 9.3 20.6 9.9 9.4 20.2 | 271 358 727 617 405 1,596 664 398 467 332 360 438 435 | 66.8 46.1 (56.0) 53.6 (68.4) 69.2 26.5 (57.5) 43.7 71.9 55.0 54.9 70.2 | 33.9 15.9 (11.9) 27.1 (40.7) 23.8 9.0 (23.8) 36.4 52.5 23.5 18.4 27.7 | 43 45 57 53 40 263 94 37 96 33 34 88 | * * * * * * * * * * * * * * * * | 0 1 3 8 3 35 16 4 18 1 1 2 | | |
| Wealth quintile Lowest Second Middle Fourth Highest | 12.1 10.4 15.0 14.1 14.4 | 1,416 1,444 1,389 1,424 1,396 7,068 | 44.5 51.2 54.4 61.5 70.7 57.1 | 17.5 23.8 21.5 26.3 32.4 24.5 | 171 150 208 201 201 | * * * * * | 9 24 11 27 22 | | |

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

3.13 HIV/AIDS AWARENESS, KNOWLEDGE, AND BEHAVIOR

3.13.1 Knowledge of HIV Prevention

The 2016 TLDHS included a series of questions that addressed respondents' knowledge of HIV prevention, their awareness of modes of HIV transmission, and behaviors that can prevent the spread of HIV.

Table 17 shows that 29 percent of women and 52 percent of men age 15-49 know that consistent use of condoms is a means of preventing the spread of HIV. Thirty-four percent of women and 54 percent of men know that limiting sexual intercourse to one faithful, uninfected partner can reduce the chances of contracting HIV. Twenty-six percent of women and 47 percent of men know that both using condoms and limiting sexual intercourse to one uninfected partner are means of preventing HIV.

Across municipalities, there are some large differences in knowledge about the value of using condoms and limiting sexual intercourse to one uninfected partner. Knowledge that doing both—using condoms and limiting sexual intercourse to one uninfected partner—is a way to prevent HIV is lowest in Viqueque (6 percent among women and 13 percent among men) and highest in Dili (48 percent among women and 67 percent among men). Knowledge about HIV prevention methods among women and men increases with education and wealth.

¹ Excludes advice or treatment from a traditional practitioner

Table 17 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 and by having one sex partner who is not infected and has no other partners, according to background characteristics, Timor-Leste DHS 2016

| | Percentage | e of women who | say HIV can be pr | evented by: | Percentage of men who say HIV can be prevented by: | | | | |
|------------------------------|----------------------------|----------------|--|-----------------|--|----------------|--|---------------|--|
| Background characteristic | Using condoms ¹ | intercourse to | Using condoms and limiting sexual intercourse to one uninfected partner ^{1,2} | Number of women | Using condoms ¹ | intercourse to | Using condoms and limiting sexual intercourse to one uninfected partner ^{1,2} | Number of men | |
| Age | | | | | | | | | |
| 15-24 | 30.3 | 36.7 | 25.5 | 1,765 | 48.3 | 50.2 | 43.1 | 1,690 | |
| 15-19 | 23.6 | 30.4 | 19.6 | 984 | 40.7 | 42.6 | 35.5 | 1,001 | |
| 20-24 | 38.8 | 44.6 | 32.9 | 782 | 59.4 | 61.1 | 54.2 | 689 | |
| 25-29 | 34.9 | 38.7 | 30.7 | 692 | 58.1 | 62.7 | 54.5 | 539 | |
| 30-39 | 33.1 | 37.5 | 30.5 | 982 | 58.3 | 59.8 | 52.8 | 918 | |
| | | | | | | | | | |
| 40-49 | 19.0 | 23.0 | 16.2 | 866 | 46.8 | 50.0 | 43.9 | 928 | |
| Residence | = 4.0 | 50.0 | | 4 40= | | = 0.4 | 0.7.0 | | |
| Urban | 51.8 | 58.6 | 45.7 | 1,427 | 71.7 | 73.1 | 65.0 | 1,374 | |
| Rural | 18.3 | 22.5 | 15.7 | 2,878 | 41.3 | 44.2 | 37.8 | 2,701 | |
| Municipality | | | | | | | | | |
| Aileu | 31.0 | 34.2 | 23.9 | 169 | 67.6 | 71.9 | 64.4 | 174 | |
| Ainaro | 14.6 | 16.7 | 12.1 | 189 | 29.0 | 32.3 | 24.8 | 184 | |
| Baucau | 22.2 | 25.5 | 20.3 | 421 | 53.6 | 51.4 | 48.2 | 388 | |
| Bobonaro | 30.2 | 39.5 | 26.4 | 327 | 45.9 | 52.0 | 44.8 | 305 | |
| Covalima | 21.9 | 29.3 | 19.1 | 262 | 23.4 | 26.2 | 20.4 | 234 | |
| Dili | 54.8 | 60.8 | 48.3 | 1,105 | 74.9 | 74.4 | 67.1 | 1,098 | |
| Ermera | 13.7 | 17.5 | 8.7 | 394 | 50.7 | 46.5 | 42.8 | 350 | |
| Lautem | 24.0 | 33.4 | 21.8 | 219 | 36.9 | 39.8 | 35.7 | 188 | |
| Liquiça | 21.3 | 25.5 | 17.9 | 280 | 62.1 | 69.0 | 59.7 | 255 | |
| Manatuto | 18.2 | 21.6 | 14.9 | 187 | 33.2 | 40.1 | 30.1 | 177 | |
| Manufahi | 26.7 | 30.3 | 26.0 | 215 | 38.9 | 46.9 | 36.4 | 225 | |
| SAR of Oecussi | 21.5 | 24.9 | 20.1 | 250 | 53.9 | 53.1 | 50.0 | 212 | |
| Viqueque | 6.9 | 9.3 | 5.9 | 287 | 13.4 | 26.3 | 13.4 | 285 | |
| Education | | | | | | | | | |
| | 0.0 | 10.2 | 6.7 | 988 | 07.0 | 00.0 | 25.0 | 770 | |
| No education | 8.3 | | | | 27.6 | 28.8 | | 772 | |
| Primary | 11.9 | 16.8 | 10.4 | 641 | 37.6 | 40.9 | 34.4 | 736 | |
| Secondary | 34.7 72.0 | 41.0 77.8 | 30.1 | 2,194 481 | 57.1 85.8 | 59.0 91.0 | 51.0 82.5 | 2,063 504 | |
| More than secondary | 72.0 | 77.8 | 64.1 | 481 | 85.8 | 91.0 | 82.5 | 504 | |
| Wealth quintile | | • | | | | 24.2 | | 0.40 | |
| Lowest | 9.2 | 9.4 | 7.6 | 692 | 29.9 | 31.6 | 26.2 | 648 | |
| Second | 14.3 | 18.5 | 11.9 | 841 | 41.2 | 43.8 | 37.0 | 823 | |
| Middle | 23.5 | 28.0 | 20.4 | 836 | 43.8 | 47.8 | 40.5 | 809 | |
| Fourth | 32.5 | 40.3 | 28.5 | 941 | 60.4 | 61.2 | 55.2 | 844 | |
| Highest | 58.2 | 65.1 | 51.4 | 995 | 73.9 | 76.7 | 68.1 | 950 | |
| Total 15-49 | 29.4 | 34.4 | 25.6 | 4,305 | 51.5 | 53.9 | 47.0 | 4,075 | |
| Men 50-59 | na | na | na | na | 36.3 | 39.4 | 32.7 | 547 | |
| Total 15-59 | na | na | na | na | 49.7 | 52.2 | 45.3 | 4,622 | |

na = Not applicable

3.13.2 Comprehensive Knowledge about HIV Prevention among Young People

Table 18 shows comprehensive knowledge about HIV prevention among young people age 15-24. Comprehensive knowledge about HIV prevention is defined as knowing that both condom use and limiting sexual intercourse to one uninfected partner are HIV prevention methods, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about HIV transmission: that HIV can be transmitted by mosquito bites or by sharing food with a person who has HIV. 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 behaviors.

Table 18 shows that 8 percent of young women and 15 percent of young men have comprehensive knowledge about HIV. This is a slight decrease since the 2009-10 TLDHS where 12 percent of women and 20 percent of men reported comprehensive knowledge of HIV. Among both sexes, the proportion with comprehensive knowledge increases with age and education, and is positively associated with urban residence.

¹ Using condoms every time they have sexual intercourse

² Partner who has no other partners

Table 18 Comprehensive knowledge about HIV prevention among young people

Percentage of young women and young men age 15-24 with comprehensive knowledge about HIV prevention, according to background characteristics, Timor-Leste DHS 2016

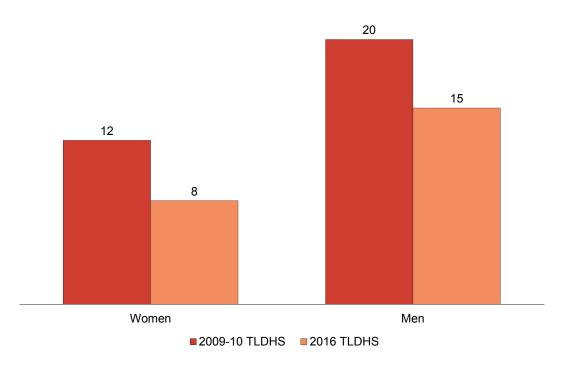
| | Women ag | je 15-24 | Men age | 15-24 |
|-------------------------------|---|-----------------|--|---------------|
| Background characteristic | Percentage with comprehensive knowledge about HIV prevention ¹ | Number of women | Percentage with comprehensive knowledge about HIV prevention ¹ | Number of men |
| Age | | | | |
| 15-19 | 5.9 | 984 | 12.7 | 1,001 |
| 15-17 | 4.3 | 656 | 10.8 | 634 |
| 18-19 | 9.1 | 328 | 15.9 | 367 |
| 20-24 | 9.9 | 782 | 17.4 | 689 |
| 20-22 23-24 | 9.6 10.4 | 487 | 16.4 | 440 |
| | 10.4 | 295 | 19.3 | 249 |
| Marital status | 7.5 | 4 000 | 44.4 | 4.504 |
| Never married | 7.5 | 1,329 | 14.4 | 1,561 |
| Ever had sex Never had sex | (5.0) 7.6 | 41 1,288 | 22.6 12.2 | 323 1,237 |
| Ever married | 7.0 8.1 | 436 | 17.6 | 130 |
| | 0.1 | 430 | 17.0 | 130 |
| Residence | 40.0 | 050 | 00.0 | 000 |
| Urban | 12.6 4.8 | 656 | 23.2 9.8 | 609 |
| Rural | 4.0 | 1,109 | 9.0 | 1,081 |
| Municipality | | | | |
| Aileu | 5.2 | 73 | 9.2 | 74 |
| Ainaro | 2.7 1.9 | 66 168 | 7.5 10.9 | 66 176 |
| Baucau Bobonaro | 1.9 4.4 | 116 | 23.0 | 139 |
| Covalima | 8.0 | 100 | 6.3 | 91 |
| Dili | 12.9 | 511 | 21.6 | 474 |
| Ermera | 4.9 | 160 | 9.5 | 131 |
| Lautem | 16.1 | 88 | 12.3 | 74 |
| Liquiça | 10.0 | 136 | 16.7 | 113 |
| Manatuto | 6.2 | 69 | 14.1 | 70 |
| Manufahi | 5.9 | 96 | 4.3 | 102 |
| SAR of Oecussi | 0.0 | 65 | 23.1 | 62 |
| Viqueque | 1.4 | 117 | 5.6 | 117 |
| Education | | | | |
| No education | 2.7 | 176 | 2.8 | 175 |
| Primary | 2.8 | 162 | 5.2 | 234 |
| Secondary | 6.3 | 1,226 | 16.1 | 1,172 |
| More than secondary | 24.4 | 202 | 37.7 | 109 |
| Wealth quintile | | | | |
| Lowest | 2.5 | 241 | 7.4 | 234 |
| Second | 3.6 | 338 | 11.1 | 346 |
| Middle | 5.0 | 341 | 9.5 | 328 |
| Fourth | 8.7 14.8 | 414 431 | 18.4 22.3 | 374 408 |
| Highest | | | | |
| Total 15-24 | 7.7 | 1,765 | 14.6 | 1,690 |

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

1 Comprehensive knowledge about HIV prevention 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.

Figure 7 Trends in comprehensive knowledge of HIV among young people, 2010-2016

Percent



3.13.3 Multiple Sexual Partners

Information on sexual behavior is important in designing and monitoring intervention programs to control the spread of HIV. The 2016 TLDHS included questions on respondents' sexual partners during the 12 months preceding the survey and during their lifetime. Information was also collected on use of condoms at respondents' last sexual intercourse. These questions are sensitive, and it is recognized that some respondents may have been reluctant to provide information on recent sexual behavior. Results are shown in Table 19.1 for women and Table 19.2 for men.

Overall, less than one percent of women age 15-49 reported that they had more than one partner in the past 12 months. Among women who had intercourse with someone who was not a husband nor a partner living with them, 21 percent reported using a condom during their last sexual intercourse with the person. The mean number of lifetime partners among all women who have ever had sexual intercourse is 1.8.

Three percent of all men age 15-49 reported that they had more than one partner in the past 12 months. Among men who had two or more partners in the past 12 months, 24 percent reported using a condom during their last sexual intercourse. Among those who had intercourse with a person who was neither their wife nor living with him, 30 percent reported using a condom at last sex with this person. The mean number of lifetime partners among all men who have ever had sexual intercourse is 2.5.

Table 19.1 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 was neither their husband nor lived with them; among those 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 was neither 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, Timor-Leste DHS 2016

| | | All women | | Women who partners in the month | e past 12 | Women white intercourse in the months with a part was neither the nor lived with the more of the more | he past 12 person who ir husband | Women who sexual inte | |
|--|---|--|--|--|------------------------------|---|--|---|--|
| Background characteristic | Percentage who had 2+ partners in the past 12 months | Percentage who had inter- course in the past 12 months with a person who was neither their husband nor lived with them | Number of women | Percentage who reported using a condom during last sexual inter- course | Number of women | Percentage who reported using a condom during last sexual inter- course with such a partner | Number of women | Mean number of sexual partners in lifetime | Number of women |
| Age | | | | | | | | | |
| 15-24 15-19 20-24 25-29 30-39 40-49 | 0.1 0.0 0.3 0.3 0.5 | 1.2 0.7 1.9 1.2 0.7 0.2 | 5,149 2,985 2,165 2,011 2,913 2,534 | * * * * * * | 7 1 6 7 14 10 | 26.5 (29.0) (7.9) * | 62 21 42 23 21 5 | 1.8 1.6 1.8 1.7 1.8 1.7 | 1,350 255 1,095 1,585 2,623 2,339 |
| | 0.4 | 0.2 | 2,334 | | 10 | | 3 | 1.7 | 2,339 |
| Marital status Never married Married/living together Divorced/separated/ widowed | 0.1 0.4 0.1 | 1.5 0.4 2.9 | 4,615 7,697 294 | * (2.4) * | 4 35 0 | 21.8 (19.6) * | 71 31 9 | 1.4 1.8 1.7 | 170 7,452 275 |
| Residence | | | | | - | | - | | |
| Urban Rural | 0.3 0.3 | 1.0 0.8 | 4,182 8,425 | (9.6) | 14 25 | (20.0) 20.9 | 42 68 | 1.5 1.8 | 2,198 5,699 |
| Municipality | | | | | | | | | |
| Aileu | 0.7 | 0.8 | 524 | * | 4 | * | 4 | 1.5 | 297 |
| Ainaro | 0.0 | 0.1 | 515 | * | 0 | * | 0 | 2.0 | 334 |
| Baucau Bobonaro | 0.1 0.4 | 0.4 2.1 | 1,288 946 | * | 1 4 | * | 5 20 | 1.1 1.6 | 841 684 |
| Covalima | 0.4 | 0.0 | 750 | * | 2 | * | 0 | 1.8 | 502 |
| Dili | 0.2 | 1.0 | 3,206 | * | 7 | * | 32 | 1.2 | 1.662 |
| Ermera | 0.3 | 0.1 | 1,178 | * | 3 | * | 2 | 1.2 | 730 |
| Lautem | 0.6 | 1.1 | 645 | * | 4 | * | 7 | 4.9 | 420 |
| Liquiça | 0.3 | 0.7 | 757 | * | 2 | * | 5 | 1.0 | 492 |
| Manatuto Manufahi | 0.2 0.6 | 0.2 3.6 | 555 676 | * | 1 4 | (42.0) | 1 24 | 2.4 1.2 | 370 452 |
| SAR of Oecussi Viqueque | 0.6 0.6 | 0.9 0.3 | 778 791 | * | 3 5 | (4 2.0) * * | 7 3 | 1.6 3.8 | 579 533 |
| Education | | | | | | | | | |
| No education | 0.4 | 0.6 | 2,741 | * | 12 | * | 18 | 1.6 | 2,291 |
| Primary | 0.3 | 0.6 | 1,922 | * | 7 | * | 12 | 1.8 | 1,483 |
| Secondary More than secondary | 0.3 0.1 | 0.9 1.7 | 6,561 1,383 | (10.1) | 20 1 | 26.3 | 56 24 | 1.9 1.3 | 3,413 710 |
| Ť | 0.1 | 1.7 | 1,000 | | į. | | 47 | 1.5 | 110 |
| Wealth quintile | 0.0 | 0.0 | 2.005 | * | E | * | 17 | 1 5 | 1.460 |
| Lowest Second | 0.2 0.4 | 0.8 0.8 | 2,085 2,287 | * | 5 8 | * | 17 17 | 1.5 2.0 | 1,469 1,569 |
| Middle | 0.4 | 0.8 | 2,423 | * | 8 | (18.7) | 20 | 1.9 | 1,605 |
| Fourth | 0.3 | 1.0 | 2,771 | * | 7 | (14.9) | 28 | 1.8 | 1,648 |
| Highest | 0.4 | 0.9 | 3,041 | * | 11 | (31.1) | 29 | 1.5 | 1,607 |
| Total | 0.3 | 0.9 | 12,607 | (6.2) | 39 | 20.6 | 111 | 1.8 | 7,897 |

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

¹ Means are calculated excluding respondents who gave non-numeric responses and outliers.

Table 19.2 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 was neither their wife nor lived with them; among those 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 was neither 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, Timor-Leste DHS 2016

| Percentage who had inter- course in the past 12 months with a person to characteristic with the past 12 months with a person to characteristic with the past 12 months with a person to characteristic with the past 12 months with the past | | | All men | | Men who had 2 in the past 12 | | Men who had in the past 12 m a person who we their wife nor them | nonths with vas neither lived with | Men who ever | |
|--|---|---|--|---|---|--|---|--|---|--|
| 15-24 | <u> </u> | who had 2+ partners in the | who had inter- course in the past 12 months with a person who was neither their wife nor lived | | who reported using a condom during last sexual inter- | | who reported using a condom during last sexual intercourse with | | of sexual partners in | |
| Never married 3.0 2.04 2.043 (44.0) 61 29.9 417 2.6 560 Married/filwing together 2.8 2.9 2.003 5.4 56 36.7 59 2.4 1,837 1,838 1,83 | 15-24 15-19 20-24 25-29 30-39 | 0.8 5.3 3.9 4.4 | 8.2 24.3 21.0 11.0 | 1,001 689 539 918 | (17.1) * | 8 36 21 40 | 29.8 25.7 33.1 31.3 | 82 168 113 101 | 2.3 2.2 3.1 2.5 | 112 304 405 776 |
| Urban 4.5 20.0 1,374 35.5 62 37.2 274 2.7 838 Rural 2.2 8.0 2,701 (12.9) 60 20.8 215 2.3 1,586 Municipality Alleu 1.1 6.9 174 * 2 (39.7) 12 2.0 93 Alnaro 1.5 7.1 184 * 3 (31.9) 54 1.6 219 Bobonaro 6.3 13.9 305 * 19 (26.3) 42 3.8 201 Covallina 1.9 4.2 234 * 4 * 10 1.3 88 Dili 3.8 20.1 1.098 * 42 40.3 221 2.7 688 Ermera 1.4 3.7 350 * 5 * 13 2.4 191 Lautem 2.4 7.4 188 * 5 * | Never married Married/living together Divorced/separated/ | 2.8 | 2.9 | 2,003 | | 56 | 36.7 | 59 | 2.4 | 1,837 |
| Aileu 1.1 6.9 174 * 2 (39.7) 12 2.0 93 Ainaro 1.5 7.1 184 * 3 * 13 2.7 125 Baucau 5.7 14.0 388 * 22 (31.9) 54 1.6 219 Bobonaro 6.3 13.9 305 * 19 (26.3) 42 3.8 201 Covalima 1.9 4.2 234 * 4 * 10 1.3 88 Dili 3.8 20.1 1,098 * 42 40.3 221 2.7 689 Ermera 1.4 3.7 350 * 5 * 13 2.4 191 Lautem 2.4 7.4 188 * 5 * 13 2.4 191 Lautem 2.4 7.7 4 188 * 5 * 13 2.4 191 Lautem 2.4 13.7 2.55 * 6 (18.6) | Urban | | | | | | | | | |
| No education 1.9 6.5 772 * 15 (14.1) 50 2.1 537 Primary 2.4 8.1 736 * 17 17.8 59 2.3 493 Secondary 3.1 12.9 2,063 26.7 64 33.1 267 2.4 989 More than secondary 5.2 22.5 504 (39.8) 26 36.3 113 3.4 405 Wealth quintile Lowest 2.3 5.8 648 * 15 (6.2) 38 2.3 401 Second 2.8 7.6 823 * 23 12.9 62 2.4 476 Middle 1.1 9.0 809 * 9 26.9 73 2.1 473 Fourth 3.0 15.1 844 (9.2) 25 30.9 128 2.4 487 Highest 5.3 19.9 950 | Aileu Ainaro Baucau Bobonaro Covalima Dili Ermera Lautem Liquiça Manatuto Manufahi SAR of Oecussi | 1.5 5.7 6.3 1.9 3.8 1.4 2.4 2.4 1.5 0.1 4.3 | 7.1 14.0 13.9 4.2 20.1 3.7 7.4 13.7 4.0 17.2 10.6 | 184 388 305 234 1,098 350 188 255 177 225 212 | * * * * * * * * * * * * | 3 22 19 4 42 5 5 6 3 0 9 | (31.9) (26.3) * 40.3 * (18.6) * | 13 54 42 10 221 13 14 35 7 39 23 | 2.7 1.6 3.8 1.3 2.7 2.4 2.5 2.6 1.4 1.5 2.9 | 125 219 201 88 689 191 122 170 96 143 |
| Lowest 2.3 5.8 648 * 15 (6.2) 38 2.3 401 Second 2.8 7.6 823 * 23 12.9 62 2.4 476 Middle 1.1 9.0 809 * 9 26.9 73 2.1 473 Fourth 3.0 15.1 844 (9.2) 25 30.9 128 2.4 487 Highest 5.3 19.9 950 (38.8) 50 41.0 189 2.9 587 Total 15-49 3.0 12.0 4,075 24.4 122 30.0 490 2.5 2,424 Men 50-59 0.5 2.3 547 * 3 * 13 2.4 492 | No education Primary Secondary | 2.4 3.1 | 8.1 12.9 | 736 2,063 | * 26.7 | 17 64 | 17.8 [°] 33.1 | 59 267 | 2.3 2.4 | 493 989 |
| Men 50-59 0.5 2.3 547 * 3 * 13 2.4 492 | Lowest Second Middle Fourth Highest | 2.8 1.1 3.0 5.3 | 7.6 9.0 15.1 19.9 | 823 809 844 950 | (9.2) (38.8) | 23 9 25 50 | 12.9 26.9 30.9 41.0 | 62 73 128 189 | 2.4 2.1 2.4 2.9 | 476 473 487 587 |
| TUBLID-DU Z./ 10.9 4.022 25.0 1/3 /9./ 30/ /5 /9.1h | Men 50-59 | 0.5 | 2.3 | 547 | * | 3 | * | 13 | 2.4 | 492 |

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

unweighted cases.

1 Means are calculated excluding respondents who gave non-numeric responses and outliers.

3.14 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 have HIV, knowledge of their status allows them to take action to protect their sexual partners and access treatment.

To assess awareness and coverage of HIV testing services, TLDHS respondents were asked if they had ever been tested for HIV. If they said that they had been tested, they were asked if they had received the results of their last test and where they had been tested. If they said they had never been tested, they were asked if they knew a place where they could go to be tested.

Tables 20.1 and 20.2 show that only a small percentage of respondents age 15-49 know of a place where they could get an HIV test, and this percentage is much smaller for women compared with men (7 percent of women and 26 percent of men). Knowledge of a place to get an HIV test was highest for women of urban residence, women in Aileu and in Dili, women with more than secondary education, and women in the highest wealth quintile. By comparison, men in urban households and in Aileu, Dili, Ermera, and Liquica were more likely to know where to get tested compared with their counterparts. As among women, knowledge of a place to get tested increased with education and wealth.

Tables 20.1 and 20.2 also show coverage of HIV testing services. Among respondents age 15-49, a majority have never been tested for HIV: 96 percent among both women and men. Most of those who had been tested said that they had received the results of the last test they took. Three percent of women and of men had ever been tested and had received the results of their last test. Less than 2 percent of women and men had been tested in the 12-month period preceding the survey and had been told the results of the last test they took.

Table 20.1 Coverage of prior HIV testing: Women

Percentage of women age 15-49 who know where to get an HIV test, percent distribution of women age 15-49 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, Timor-Leste DHS 2016

| | Percentage | Percent distribution status and by whe | | | | | Percentage who have been tested for HIV in the past 12 months and | |
|--|---|--|------------------------------|---------------------------|-------|-------------|---|-----------|
| Background characteristic | who know where to get an HIV test | Ever tested and | Ever tested, did not receive | Neverteeted ¹ | Total | Percentage | received the results of the | Number of |
| cnaracteristic | HIV test | received results | results | Never tested ¹ | rotar | ever tested | last test | women |
| Age | | | | | | | | |
| 15-24 | 6.1 | 1.3 | 0.9 | 97.8 | 100.0 | 2.2 | 0.8 | 1,765 |
| 15-19 | 4.5 | 0.2 | 0.7 | 99.1 | 100.0 | 0.9 | 0.0 | 984 |
| 20-24 | 8.1 | 2.6 | 1.3 | 96.1 | 100.0 | 3.9 | 1.7 | 782 |
| 25-29 | 10.0 | 4.3 | 2.8 | 93.0 | 100.0 | 7.0 | 1.6 | 692 |
| 30-39 | 8.0 | 4.1 | 1.2 | 94.7 | 100.0 | 5.3 | 1.9 | 982 |
| 40-49 | 4.2 | 2.1 | 0.3 | 97.6 | 100.0 | 2.4 | 1.0 | 866 |
| Marital status | | | | | | | | |
| Never married | 5.1 | 0.7 | 0.7 | 98.5 | 100.0 | 1.5 | 0.4 | 1,567 |
| Ever had sex | 5.4 | 2.5 | 0.7 | 96.8 | 100.0 | 3.2 | 1.2 | 88 |
| Never had sex | 5.1 | 0.6 | 0.7 | 98.6 | 100.0 | 1.4 | 0.4 | 1,479 |
| Married or living together Divorced/separated/ | 7.8 | 3.6 | 1.4 | 95.0 | 100.0 | 5.0 | 1.7 | 2,628 |
| widowed ['] | 6.1 | 3.8 | 1.6 | 94.6 | 100.0 | 5.4 | 1.0 | 110 |
| Residence | | | | | | | | |
| Urban | 11.4 | 5.0 | 1.8 | 93.2 | 100.0 | 6.8 | 2.4 | 1,427 |
| Rural | 4.5 | 1.4 | 0.8 | 97.8 | 100.0 | 2.2 | 0.6 | 2,878 |
| Municipality | | | | | | | | |
| Aileu | 14.8 | 3.6 | 0.9 | 95.5 | 100.0 | 4.5 | 2.9 | 169 |
| Ainaro | 5.4 | 2.6 | 0.8 | 96.6 | 100.0 | 3.4 | 1.2 | 189 |
| Baucau | 4.7 | 0.9 | 1.5 | 97.6 | 100.0 | 2.4 | 0.9 | 421 |
| Bobonaro | 8.0 | 3.7 | 0.9 | 95.4 | 100.0 | 4.6 | 1.7 | 327 |
| Covalima | 5.5 | 0.7 | 0.7 | 98.6 | 100.0 | 1.4 | 0.3 | 262 |
| Dili | 11.1 | 5.3 | 1.7 | 93.0 | 100.0 | 7.0 | 2.1 | 1,105 |
| Ermera | 4.2 | 0.0 | 1.1 | 98.9 | 100.0 | 1.1 | 0.0 | 394 |
| Lautem | 6.8 | 2.8 | 1.5 | 95.8 | 100.0 | 4.2 | 0.2 | 219 |
| Liquiça | 3.1 | 1.7 | 0.6 | 97.7 | 100.0 | 2.3 | 0.8 | 280 |
| Manatuto | 7.1 | 3.2 | 1.8 | 95.1 | 100.0 | 4.9 | 2.3 | 187 |
| Manufahi | 3.3 | 1.6 | 0.0 | 98.4 | 100.0 | 1.6 | 0.6 | 215 |
| SAR of Oecussi | 4.8 | 1.5 | 1.5 | 97.0 | 100.0 | 3.0 | 0.7 | 250 |
| Viqueque | 0.3 | 0.0 | 0.1 | 99.9 | 100.0 | 0.1 | 0.0 | 287 |
| Education | | | | | | | | |
| No education | 1.3 | 0.4 | 0.1 | 99.6 | 100.0 | 0.4 | 0.4 | 988 |
| Primary | 3.0 | 1.1 | 1.0 | 97.9 | 100.0 | 2.1 | 0.4 | 641 |
| Secondary | 7.8 | 2.5 | 1.3 | 96.1 | 100.0 | 3.9 | 1.0 | 2,194 |
| More than secondary | 18.3 | 9.3 | 2.8 | 87.9 | 100.0 | 12.1 | 4.8 | 481 |
| Wealth quintile | | | | | | | | |
| Lowest | 3.0 | 0.1 | 0.9 | 99.0 | 100.0 | 1.0 | 0.1 | 692 |
| Second | 3.3 | 0.7 | 0.6 | 98.6 | 100.0 | 1.4 | 0.5 | 841 |
| Middle | 5.2 | 1.1 | 1.4 | 97.5 | 100.0 | 2.5 | 0.4 | 836 |
| Fourth | 6.0 | 2.6 | 0.8 | 96.6 | 100.0 | 3.4 | 1.3 | 941 |
| Highest | 14.4 | 7.1 | 2.0 | 91.0 | 100.0 | 9.0 | 3.1 | 995 |
| _ | | | | | | | | |
| Total | 6.8 | 2.6 | 1.2 | 96.3 | 100.0 | 3.7 | 1.2 | 4,305 |

¹ Includes don't know/missing responses

Table 20.2 Coverage of prior HIV testing: Men

Percentage of men age 15-49 who know where to get an HIV test, percent distribution of men age 15-49 by testing status and by whether they received the results of the last test, percentage of men ever tested, and percentage of men who were tested in the past 12 months and received the results of the last test, according to background characteristics, Timor-Leste DHS 2016

| | Percentage | Percent distribution status and by whe | | /men by testing ved the results of | | | Percentage who have been tested for HIV in the past 12 months and | |
|---|---|--|--|---------------------------------------|-------|------------------------|---|---------------|
| Background characteristic | who know where to get an HIV test | Ever tested and received results | Ever tested, did not receive results | Never tested ¹ | Total | Percentage ever tested | received the results of the last test | Number of men |
| Age | | | | | | | | |
| 15-24 | 21.3 | 1.1 | 0.9 | 98.0 | 100.0 | 2.0 | 0.7 | 1,690 |
| 15-19 | 16.7 | 0.5 | 1.0 | 98.5 | 100.0 | 1.5 | 0.3 | 1,001 |
| 20-24 | 27.8 | 2.0 | 8.0 | 97.2 | 100.0 | 2.8 | 1.3 | 689 |
| 25-29 | 32.1 | 4.1 | 0.8 | 95.1 | 100.0 | 4.9 | 3.0 | 539 |
| 30-39 | 28.9 | 4.1 | 1.1 | 94.8 | 100.0 | 5.2 | 2.2 | 918 |
| 40-49 | 27.8 | 3.1 | 1.5 | 95.4 | 100.0 | 4.6 | 1.9 | 928 |
| Marital status | | | | | | | | |
| Never married | 24.6 | 2.0 | 0.9 | 97.1 | 100.0 | 2.9 | 1.3 | 2,043 |
| Ever had sex | 34.4 | 5.6 | 1.1 | 93.3 | 100.0 | 6.7 | 3.6 | 612 |
| Never had sex | 20.4 | 0.5 | 0.8 | 98.7 | 100.0 | 1.3 | 0.3 | 1,431 |
| Married or living together Divorced/separated/ | 27.3 | 3.3 | 1.2 | 95.5 | 100.0 | 4.5 | 2.0 | 2,003 |
| widowed | (21.5) | (2.7) | (1.9) | (95.4) | 100.0 | (4.6) | (2.7) | 29 |
| Residence | | | | | | | | |
| Urban | 34.7 | 5.0 | 0.2 | 94.8 | 100.0 | 5.2 | 3.3 | 1,374 |
| Rural | 21.4 | 1.4 | 1.5 | 97.1 | 100.0 | 2.9 | 8.0 | 2,701 |
| Municipality | | | | | | | | |
| Aileu | 37.8 | 2.5 | 4.0 | 93.5 | 100.0 | 6.5 | 2.0 | 174 |
| Ainaro | 20.4 | 3.3 | 0.6 | 96.1 | 100.0 | 3.9 | 1.8 | 184 |
| Baucau | 14.5 | 1.9 | 0.4 | 97.7 | 100.0 | 2.3 | 1.3 | 388 |
| Bobonaro | 28.7 | 5.6 | 0.2 | 94.2 | 100.0 | 5.8 | 3.4 | 305 |
| Covalima | 20.2 | 1.3 | 1.0 | 97.7 | 100.0 | 2.3 | 0.4 | 234 |
| Dili | 37.4 | 4.6 | 0.1 | 95.3 | 100.0 | 4.7 | 3.4 | 1,098 |
| Ermera | 38.0 | 0.0 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | 350 |
| Lautem | 5.0 | 0.6 | 0.0 | 99.4 | 100.0 | 0.6 | 0.4 | 188 |
| Liquiça | 38.3 | 2.5 | 0.6 | 97.0 | 100.0 | 3.0 | 1.1 | 255 |
| Manatuto | 20.1 | 4.0 | 9.9 | 86.0 | 100.0 | 14.0 | 0.7 | 177 |
| Manufahi | 12.2 | 0.3 | 1.8 | 97.9 | 100.0 | 2.1 | 0.2 | 225 |
| SAR of Oecussi | 19.9 | 1.7 | 2.1 | 96.2 | 100.0 | 3.8 | 0.3 | 212 |
| Viqueque | 1.5 | 0.1 | 0.6 | 99.3 | 100.0 | 0.7 | 0.0 | 285 |
| Education | | | | | | | | |
| No education | 14.4 | 0.3 | 0.4 | 99.4 | 100.0 | 0.6 | 0.3 | 772 |
| Primary | 16.4 | 1.0 | 0.7 | 98.3 | 100.0 | 1.7 | 0.5 | 736 |
| Secondary | 26.4 | 2.4 | 1.4 | 96.2 | 100.0 | 3.8 | 1.4 | 2,063 |
| More than secondary | 55.5 | 9.5 | 1.2 | 89.3 | 100.0 | 10.7 | 6.4 | 504 |
| Wealth quintile | | | | | | | | |
| Lowest | 13.9 | 0.7 | 1.1 | 98.2 | 100.0 | 1.8 | 0.5 | 648 |
| Second | 22.9 | 1.0 | 1.8 | 97.2 | 100.0 | 2.8 | 0.3 | 823 |
| Middle | 22.1 | 1.9 | 0.7 | 97.4 | 100.0 | 2.6 | 1.1 | 809 |
| Fourth | 27.4 | 1.6 | 1.1 | 97.3 | 100.0 | 2.7 | 1.0 | 844 |
| Highest | 38.6 | 7.0 | 0.6 | 92.4 | 100.0 | 7.6 | 4.6 | 950 |
| Total 15-49 | 25.9 | 2.6 | 1.1 | 96.3 | 100.0 | 3.7 | 1.6 | 4,075 |
| Men 50-59 | 19.4 | 0.9 | 0.7 | 98.4 | 100.0 | 1.6 | 0.8 | 547 |
| Total 15-59 | 25.1 | 2.4 | 1.0 | 96.5 | 100.0 | 3.5 | 1.5 | 4,622 |

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

¹ Includes *don't know/missing* responses

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