Ethiopia



Demographic and Health Survey

2011

Ethiopia Demographic and Health Survey 2011

Central Statistical Agency
Addis Ababa, Ethiopia
ICF International
Calverton, Maryland, USA

March 2012



















The 2011 Ethiopia Demographic and Health Survey (2011 EDHS) is part of the worldwide MEASURE DHS project which is funded by the United States Agency for International Development (USAID). The survey was implemented by the Ethiopian Central Statistical Agency (CSA). The funding for the EDHS was provided by the HIV/AIDS Prevention and Control Office (HAPCO), USAID, the United Nations Population Fund (UNFPA), the United Kingdom for International Development (DFID), the United Nations Children's Fund (UNICEF) and the Centers for Disease Control and Prevention (CDC). ICF International provided technical assistance through the MEASURE DHS project. The opinions expressed herein are those of the authors and do not necessarily reflect the views of USAID.

Additional information about the 2011 EDHS may be obtained from the Central Statistical Agency, P.O. Box 1143, Addis Ababa, Ethiopia; Telephone: (251) 111 55 30 11/111 15 78 41, Fax: (251) 111 55 03 34, E-mail: csa@ethionet.et.

Information about the MEASURE DHS project may be obtained from ICF International, 11785 Beltsville Drive, Suite 300, Calverton, MD 20705, USA; Telephone: 301-572-0200, Fax: 301-572-0999, E-mail: info@measuredhs.com, Internet: http://www.measuredhs.com.

Suggested citation:

Central Statistical Agency [Ethiopia] and ICF International. 2012. Ethiopia Demographic and Health Survey 2011. Addis Ababa, Ethiopia and Calverton, Maryland, USA: Central Statistical Agency and ICF International.

CONTENTS

| FORI | EWORD | FIGURESGMENTSDEVELOPMENT GOAL INDICATORS | xvi |
|------------|----------------|--|-----|
| CHA | PTER 1 | INTRODUCTION | |
| 1.1 | | , Geography, and Economy | |
| 1.2 | Popula | tion | 3 |
| 1.3 | | tion and Health Policies | |
| 1.4 | | ves of the 2011 EDHS Survey | |
| 1.5 1.6 | | zation of the Surveye Design | |
| 1.7. | • | onnaires | |
| 1.8 | | Pretest, Main Training, Fieldwork, and Data Processing | |
| 1.9 | | cometry, Anaemia, and HIV Testing | |
| 1.10 | | nse Rates | |
| СНА | PTER 2 | HOUSING CHARACTERISTICS AND HOUSEHOLD POPULATION | |
| 2.1 | Househ | nold Environment | 13 |
| | 2.1.1 | Drinking Water | |
| | 2.1.2 | Household Sanitation Facilities | |
| | 2.1.3 | Housing Characteristics | |
| | 2.1.4 | Household Possessions | 18 |
| 2.2 | | Index | |
| 2.3 | | tion by Age and Sex | |
| 2.4 | | nold Composition | |
| 2.5 2.6 | | n's Living Arrangements and Parental Survivalion of the Household Population | |
| 2.0 | Educati | ion of the Household Population | 20 |
| | 2.6.1 | School Attendance by Survivorship of Parents | 25 |
| | 2.6.2 | Educational Attainment | |
| | 2.6.3 | School Attendance Ratios | 28 |
| 2.7 | Child La | abour | 31 |
| СНА | PTER 3 | CHARACTERISTICS OF RESPONDENTS | |
| 3.1 | Charac | eteristics of Survey Respondents | 35 |
| 3.2 | | ional Attainment by Background Characteristics | |
| 3.3 | | y | |
| 3.4 | | ıre to Mass Media | |
| 3.5 | | /ment | |
| 3.6 | | ation | |
| 3.7 3.8 | | If Women's Employment | |
| | | | |
| | 3.8.1 3.8.2 | Use of TobaccoAlcohol Consumption | |
| | 3.8.3 | Chewing Chat | |
| | 3.8.4 | Knowledge and Attitudes concerning Tuberculosis | |

CHAPTER 4 MARRIAGE AND SEXUAL ACTIVITY

| 4.1 | | Marital Status | |
|--------------|---------|---|-----|
| 4.2 | , | ly | |
| 4.3 | | First Marriage | |
| 4.4 | | First Sexual Intercourse | |
| 4.5 | Recent | Sexual Activity | 66 |
| CHAF | PTER 5 | FERTILITY LEVELS, TRENDS, AND DIFFERENTIALS | |
| 5.1 | | Fertility | |
| 5.2 | | Differentials by Background Characteristics | |
| 5.3 | | Trends | |
| 5.4 | | n Ever Born and Living | |
| 5.5 | | ervals | |
| 5.6 | • | tum Amenorrhoea, Abstinence, and Insusceptibility | |
| 5.7 | | ause | |
| 5.8 | | First Birth | |
| 5.9 | _ | e Pregnancy and Motherhood | |
| CHAF | PTER 6 | FERTILITY PREFERENCES | |
| 6.1 6.2 | | or More Childreno Limit Childbearing by Background Characteristics | |
| 6.3 | | umber of Children | |
| 6.4 | | deal Number of Children by Women's Background Characteristics | |
| 6.5 | | Planning Status | |
| 6.6 | • | Fertility Rates | |
| CHAF | PTER 7 | FAMILY PLANNING | |
| 7.1 | Knowle | dge of Contraceptive Methods | Q: |
| 7.2 | | Use of Contraceptive Methods | |
| | 7.2.1 | Current Use of Contraceptive Methods By Age | 95 |
| | 7.2.2 | Trends in Contraceptive Use | |
| 7.3 | | Use of Contraception by Background Characteristics | |
| 7.4 | | of Modern Contraceptive Methods | |
| 7.5 | | d Choice | |
| 7.6 | | dge of the Fertile Period | |
| 7.7 | | nd Demand for Family Planning | |
| 7.8 | | Jse of Contraception | |
| 7.9 | | re to Family Planning Messages | |
| 7.10 | | re to Specific Type of Family Planning Messages | |
| 7.11 7.12 | | of Nonusers with Family Planning Providerseptive Discontinuation Rate | |
| CHAF | PTER 8 | INFANT AND CHILD MORTALITY | |
| 8.1 | | uality | 110 |
| 8.2 | | and Trends in Infant and Child Mortality | |
| | 8.2.1 | Early Childhood Mortality Rates | 111 |
| | 8.2.2 | Trends in Early Childhood Mortality | |
| 8.3 | | hildhood Mortality Rates by Socioeconomic Characteristics | |
| 8.4 | | raphic Differentials in Infant and Child Mortality | |
| 8.5 | | al Mortality | |
| 8.6 | High-Ri | sk Fertility Behaviour | 117 |

CHAPTER 9 MATERNAL HEALTH

| 9.1 | Antenata | al Care | 119 |
|--------------|------------------|---|-----|
| | 9.1.1 9.1.2 | Coverage of Antenatal Care | 120 |
| | | Was Received | 121 |
| | 9.1.3 | Components of Antenatal Care | 122 |
| | 9.1.4 | Informed of signs of pregnancy complications during pregnancy | 124 |
| 9.2 | | Toxoid Injections | |
| 9.3 | | Delivery | |
| 9.4 | | nce during Delivery | |
| 9.5 | | s for Not Delivering in a Health Facility | |
| 9.6 9.6 | | al Cares in Accessing Health Care | |
| CHAP | TER 10 | CHILD HEALTH | |
| 10.1 | Child's S | Size at Birth | 135 |
| 10.2 | | tion Coverage | |
| | 10.2.1 | Vaccinations Coverage by Background Characteristics | 140 |
| 10.3 | Trends i | n Vaccination Coverage | 141 |
| 10.4 | Acute R | espiratory Infection | 142 |
| 10.5 | | | |
| 10.6 | Diarrhoe | eal Disease | 146 |
| | 10.6.1 | Prevalence of Diarrhoea | |
| | 10.6.2 10.6.3 | Treatment of Diarrhoea | |
| | | Feeding Practices during Diarrhoea | |
| 10.7 10.8 | | dge of ORS Packetssposal | |
| | | | |
| CHAP | | NUTRITION OF CHILDREN AND ADULTS | |
| 11.1 | Nutrition | al Status of Children | 156 |
| | 11.1.1 | Measurement of Nutritional Status among Young Children | |
| | 11.1.2 | Data Collection | |
| | 11.1.3 | Measures of Children's Nutritional Status | |
| | 11.1.4 | Trends in Children's Nutritional Status | 161 |
| 11.2 | Breastfe | eding and Complementary Feeding | 162 |
| | 11.2.1 | Initiation of Breastfeeding | |
| | 11.2.2 | Breastfeeding Status by Age | |
| | 11.2.3 11.2.4 | Duration of Breastfeeding Types of Complementary Foods | |
| | 11.2.4 | Infant and Young Child Feeding (IYCF) Practices | |
| | | | |
| 11.3 | | nce of Anaemia in Children | |
| 11.4 11.5 | | trient Intake among Childrenon of Household Salt | |
| 11.6 | | al Status of Women and Men | |
| 11.7 | | nce of Anaemia in Women | |
| 11.8 | | nce of Anaemia in Men | |
| 11.9 | | trient Intake among Mothers | |

CHAPTER 12 HIV/AIDS-RELATED KNOWLEDGE, ATTITUDES, AND BEHAVIOUR

| 12.1 | HIV/AID | S Knowledge, Transmission, and Prevention Methods | 190 |
|--------------------------------|--|---|-------------------|
| | 12.1.1 12.1.2 | Awareness of HIV/AIDSRejection of Misconceptions about HIV/AIDS | |
| 12.2 12.3 12.4 12.5 | Attitudes Attitudes Adult Su | dge of Prevention of Mother-to-Child Transmission of HIVs towards People Living with HIV/AIDSs towards Refusing to Have Sex and Negotiating Safer Sex | 196 198 200 |
| 12.6 | Higher-F | Risk Sex | 201 |
| | 12.6.1 12.6.2 | Multiple Partners and Condom Use Transactional Sex | |
| 12.7 | Coverag | ge of HIV Testing | 206 |
| | 12.7.1 12.7.2 | General HIV Testing HIV Counseling and Testing During Pregnancy | |
| 12.8 12.9 12.10 12.11 | Self-Rep Prevaler | cumcision porting of Sexually Transmitted Infections nce of Medical Injections S Knowledge and Sexual Behaviour among Youth | 211 213 |
| | 12.11.1 12.11.2 12.11.3 12.11.4 12.11.5 12.11.6 | HIV/AIDS-Related Knowledge among Young Adults Age at First Sexual Intercourse | 216 219 221 |
| 12.12 12.13 12.14 | Sharing | Alcohol or Chat during Sexual Intercourseof HIV Test Results Among Couplesation in Community Conversation Programme | 226 |
| CHAP | TER 13 | HIV PREVALENCE | |
| 13.1 13.2 | | ge Rates for HIV Testingvalence | |
| | 13.2.1 13.2.2 13.2.3 13.2.4 | HIV Prevalence by Age and Sex | 235 236 |
| 13.3 | HIV Prev | valence among Youth | 238 |
| | 13.3.1 | HIV Prevalence by Sexual Behaviour among Youth | 239 |
| 13.4 | HIV Prev | valence by Other Characteristics | 240 |
| | 13.4.1 13.4.2 13.4.3 | HIV Prevalence and STIs Prior HIV Testing and Current HIV Status HIV Prevalence by Male Circumcision | 241 |
| 13.5 | HIV Prev | valence among Cohabiting Couples | |

CHAPTER 14 WOMEN'S EMPOWERMENT AND DEMOGRAPHIC AND HEALTH OUTCOMES

| 14.1 | | ment and Form of Earnings | |
|-------|---------|---|-----|
| 14.2 | Control | Over and Relative Magnitude of Women's and Husband's Earnings | 247 |
| | 14.2.1 | Control Over Wife's Earnings | 247 |
| | 14.2.2 | Control Over Husband's Earnings | 249 |
| 14.3 | Control | Over Married Women's Earnings and Relative Size of | |
| | | d's and Wife's Earnings | 250 |
| 14.4 | | hip of Assets | |
| 14.5 | | 's Participation in Decision-Making | |
| 14.6 | | towards Wife Beating | |
| 14.7 | | 's Empowerment Indices | |
| 14.8 | | Use of Contraception by Women's Status | |
| 14.9 | | amily Size and Unmet Need by Women's Status | |
| 14.10 | | 's Status and Reproductive Health Care | |
| 14.11 | | tials in Infant and Child Mortality by Women's Status | |
| 14.12 | | Participation in Household Chores | |
| 14.13 | | ainst Domestic Violence | |
| СНАР | | ADULT AND MATERNAL MORTALITY | |
| 15.1 | Assessi | ment of Data Quality | 267 |
| 15.2 | | es of Adult Mortality | |
| 15.3 | Estimat | es of Maternal Mortality | 270 |
| REFE | RENCES | | 273 |
| APPE | NDIX A | SAMPLE IMPLEMENTATION | 275 |
| APPE | NDIX B | ESTIMATES OF SAMPLING ERRORS | 287 |
| APPE | NDIX C | DATA QUALITY TABLES | 307 |
| APPE | NDIX D | PERSONS INVOLVED IN THE 2011 ETHIOPIA DEMOGRAPHIC | |
| | | AND HEALTH SURVEY | 317 |
| ΔΡΡΕΙ | NDIX E | OHESTIONNAIRES | 327 |

TABLES AND FIGURES

| CHAPTER 1 | INTRODUCTION | |
|--------------|--|----|
| Table 1.1 | Basic demographic indicators | 3 |
| Table 1.2 | Results of the household and individual interviews | |
| CHAPTER 2 | HOUSING CHARACTERISTICS AND HOUSEHOLD POPULATION | |
| Table 2.1 | Household drinking water | 14 |
| Table 2.2 | Household sanitation facilities | 16 |
| Table 2.3 | Household characteristics | 17 |
| Table 2.4 | Household possessions | 19 |
| Table 2.5 | Wealth quintiles | 20 |
| Table 2.6 | Household population by age, sex, and residence | 20 |
| Table 2.7 | Household composition | 22 |
| Table 2.8 | Children's living arrangements and orphanhood | 24 |
| Table 2.9 | School attendance by survivorship of parents | 26 |
| Table 2.10.1 | Educational attainment of the female household population | 27 |
| Table 2.10.2 | Educational attainment of the male household population | 28 |
| Table 2.11 | School attendance ratios | 30 |
| Table 2.12 | Child labour | 33 |
| Figure 2.1 | Population pyramid | 21 |
| Figure 2.2 | Age-specific attendance rates of the de facto population 5 to 24 years | 31 |
| CHAPTER 3 | CHARACTERISTICS OF RESPONDENTS | |
| Table 3.1 | Background characteristics of respondents | 36 |
| Table 3.2.1 | Educational attainment: Women | 38 |
| Table 3.2.2 | Educational attainment: Men | 39 |
| Table 3.3.1 | Literacy: Women | 40 |
| Table 3.3.2 | Literacy: Men | 41 |
| Table 3.4.1 | Exposure to mass media: Women | 42 |
| Table 3.4.2 | Exposure to mass media: Men | 43 |
| Table 3.5.1 | Employment status: Women | 45 |
| Table 3.5.2 | Employment status: Men | 47 |
| Table 3.6.1 | Occupation: Women | 48 |
| Table 3.6.2 | Occupation: Men | 49 |
| Table 3.7 | Type of employment: Women | 50 |
| Table 3.8 | Use of tobacco: Men | 51 |
| Table 3.9.1 | Alcohol consumption: Women | 52 |
| Table 3.9.2 | Alcohol consumption: Men | 53 |
| Table 3.10.1 | Chewing chat: Women | 54 |
| Table 3.10.2 | Chewing chat: Men | |
| Table 3.11.1 | Knowledge and attitude concerning tuberculosis: Women | 56 |
| Table 3.11.2 | Knowledge and attitude concerning tuberculosis: Men | |
| Figure 3.1 | Women's employment status in the past 12 months | 46 |

| CHAPTER 4 | MARRIAGE AND SEXUAL ACTIVITY | |
|-------------|--|-----|
| Table 4.1 | Current marital status | 60 |
| Table 4.2.1 | Number of women's co-wives | 61 |
| Table 4.2.2 | Number of men's wives | 62 |
| Table 4.3 | Age at first marriage | 63 |
| Table 4.4 | Median age at first marriage by background characteristics | 64 |
| Table 4.5 | Age at first sexual intercourse | 65 |
| Table 4.6 | Median age at first sexual intercourse by background characteristics | 66 |
| Table 4.7.1 | Recent sexual activity: Women | |
| Table 4.7.2 | Recent sexual activity: Men | 68 |
| CHAPTER 5 | FERTILITY LEVELS, TRENDS, AND DIFFERENTIALS | |
| Table 5.1 | Current fertility | 70 |
| Table 5.2 | Fertility by background characteristics | 71 |
| Table 5.3.1 | Trends in age-specific fertility rates | 72 |
| Table 5.3.2 | Trends in age-specific and total fertility rates | 73 |
| Table 5.4 | Children ever born and living | 74 |
| Table 5.5 | Birth intervals | 75 |
| Table 5.6 | Postpartum amenorrhoea, abstinence, and insusceptibility | 76 |
| Table 5.7 | Median duration of amenorrhoea, postpartum abstinence, and | |
| | postpartum insusceptibility | 77 |
| Table 5.8 | Menopause | 78 |
| Table 5.9 | Age at first birth | 78 |
| Table 5.10 | Median age at first birth | 79 |
| Table 5.11 | Teenage pregnancy and motherhood | 80 |
| Figure 5.1 | Age-specific fertility rates by urban-rural residence | 71 |
| CHAPTER 6 | FERTILITY PREFERENCES | |
| Table 6.1 | Fertility preferences by number of living children | 82 |
| Table 6.2.1 | Desire to limit childbearing: Women | 84 |
| Table 6.2.2 | Desire to limit childbearing: Men | 85 |
| Table 6.3 | Ideal number of children | 87 |
| Table 6.4 | Mean ideal number of children by background characteristics | 89 |
| Table 6.5 | Fertility planning status | 90 |
| Table 6.6 | Wanted fertility rates | 91 |
| Figure 6.1 | Desire for more children among currently married women | 83 |
| Figure 6.2 | Trends in mean ideal family size among women and men | 86 |
| CHAPTER 7 | FAMILY PLANNING | |
| Table 7.1 | Knowledge of contraceptive methods | 94 |
| Table 7.2 | Current use of contraception by age | 96 |
| Table 7.3 | Current use of contraception by background characteristics | 98 |
| Table 7.4 | Source of modern contraception methods | 99 |
| Table 7.5 | Informed choice | 100 |
| Table 7.6 | Knowledge of fertile period | |
| Table 7.7 | Need and demand for family planning among currently married women | 101 |
| Table 7.8 | Future use of contraception | 102 |
| Table 7.9 | Exposure to family planning messages | 104 |

| Table 7.10 | Exposure to specific family planning messages | 106 |
|-------------|--|-----|
| Table 7.11 | Contact of nonusers with family planning providers | |
| Table 7.12 | Contraceptive discontinuation rates | |
| Figure 7.1 | Trends in current use of contraceptives among currently married women | 97 |
| CHAPTER 8 | INFANT AND CHILD MORTALITY | |
| Table 8.1 | Early childhood mortality rates | 111 |
| Table 8.2 | Early childhood mortality rates by socioeconomic characteristics | 113 |
| Table 8.3 | Early childhood mortality rates, by demographic characteristics | 114 |
| Table 8.4 | Perinatal mortality | 116 |
| Table 8.5 | High-risk fertility behaviour | 117 |
| Figure 8.1 | Trends in early childhood mortality | 112 |
| Figure 8.2 | Under-five mortality by socioeconomic characteristics | |
| Figure 8.3 | Infant and under-five mortality rate by selected demographic characteristics | |
| CHAPTER 9 | MATERNAL HEALTH | |
| Table 9.1 | Antenatal care | 120 |
| Table 9.2 | Number of antenatal care visits and timing of first visit | 122 |
| Table 9.3 | Components of antenatal care | |
| Table 9.4 | Informed of signs of pregnancy complications | |
| Table 9.5 | Tetanus toxoid injections | |
| Table 9.6 | Place of delivery | |
| Table 9.7 | Assistance during delivery | |
| Table 9.8 | Reasons for not delivering in a health facility | |
| Table 9.9 | Timing of first postnatal checkup for the mother | |
| Table 9.10 | Type of provider of first postnatal checkup for the mother | |
| Table 9.11 | Problems in accessing health care | |
| CHAPTER 10 | CHILD HEALTH | |
| Table 10.1 | Child's weight and size at birth | 137 |
| Table 10.2 | Vaccinations by source of information | |
| Table 10.3 | Vaccinations by background characteristics | 140 |
| Table 10.4 | Vaccinations in first year of life | |
| Table 10.5 | Prevalence and treatment of symptoms of ARI | 143 |
| Table 10.6 | Prevalence and treatment of fever | 145 |
| Table 10.7 | Prevalence of diarrhoea | 147 |
| Table 10.8 | Diarrhoea treatment | 149 |
| Table 10.9 | Feeding practices during diarrhoea | 151 |
| Table 10.10 | Knowledge of ORS packets | 152 |
| Table 10.11 | Disposal of children's stools | 154 |
| Figure 10.1 | Percentage of children age 12-23 months with specific vaccinations | 139 |
| Figure 10.2 | Trends in vaccination coverage during the first year of life among children 12-23 months | 142 |
| 01145=== :: | | 172 |
| CHAPTER 11 | NUTRITION OF CHILDREN AND ADULTS | |
| Table 11.1 | Nutritional status of children | |
| Table 11.2 | Initial breastfeeding | 163 |

| Table 11.3 | Breastfeeding status by age | |
|---------------|--|-----|
| Table 11.4 | Median duration of breastfeeding | 168 |
| Table 11.5 | Foods and liquids consumed by children in the day or night preceding the interview | 170 |
| Table 11.6 | Infant and young child feeding (IYCF) practices | |
| Table 11.7 | Prevalence of anaemia in children | |
| Table 11.8 | Micronutrient intake among children | |
| Table 11.9 | Presence of iodised salt in household | |
| Table 11.10.1 | Nutritional status of women | |
| Table 11.10.2 | Nutritional status of men | |
| Table 11.11.1 | Prevalence of anaemia in women | |
| Table 11.11.2 | Prevalence of anaemia in men | |
| Table 11.11.2 | Micronutrient intake among mothers | |
| Table 11.12 | wild offuther tilitake among mothers | 100 |
| Figure 11.1 | Nutritional status of children by age | |
| Figure 11.2 | Trends in nutritional status of children under age 5 | |
| Figure 11.3 | Infant feeding practices by age | |
| Figure 11.4 | IYCF indicators of breastfeeding status | 167 |
| Figure 11.5 | Trends in anaemia status among children 6-59 months | 175 |
| CHAPTER 12 | HIV/AIDS-RELATED KNOWLEDGE, ATTITUDES, AND BEHAVIOUR | |
| Table 12.1 | Knowledge of AIDS | 190 |
| Table 12.2 | Knowledge of HIV prevention methods | 191 |
| Table 12.3.1 | Comprehensive knowledge about AIDS: Women | 193 |
| Table 12.3.2 | Comprehensive knowledge about AIDS: Men | 194 |
| Table 12.4 | Knowledge of prevention of mother-to-child transmission of HIV | 196 |
| Table 12.5.1 | Accepting attitudes toward those living with HIV/AIDS: Women | 197 |
| Table 12.5.2 | Accepting attitudes toward those living with HIV/AIDS: Men | 198 |
| Table 12.6 | Attitudes toward negotiating safer sexual relations with husband | 199 |
| Table 12.7 | Adult support of education about condom use to prevent AIDS | 200 |
| Table 12.8.1 | Multiple sexual partners: Women | 202 |
| Table 12.8.2 | Multiple sexual partners: Men | 203 |
| Table 12.9 | Point prevalence and cumulative prevalence of concurrent sexual partners | |
| Table 12.10 | Payment for sexual intercourse | |
| Table 12.11.1 | Coverage of prior HIV testing: Women | 207 |
| Table 12.11.2 | Coverage of prior HIV testing: Men | 208 |
| Table 12.12 | Pregnant women counselled and tested for HIV | 209 |
| Table 12.13.1 | Male circumcision | 210 |
| Table 12.13.2 | Circumstances surrounding male circumcision | 211 |
| Table 12.14 | Self-reported prevalence of sexually-transmitted infections (STIs) and | |
| | STI symptoms | 212 |
| Table 12.15 | Prevalence of medical injections | 214 |
| Table 12.16 | Comprehensive knowledge about AIDS and knowledge of a source of condoms | |
| | among young people | 216 |
| Table 12.17 | Age at first sexual intercourse among young people | 218 |
| Table 12.18 | Premarital sexual intercourse and condom use during premarital sexual intercour | |
| | among youth | |
| Table 12.19.1 | Multiple sexual partners in the past 12 months among young people: Women | |
| Table 12.19.2 | Multiple sexual partners in the past 12 months among young people: Men | |
| Table 12.20 | Age-mixing in sexual relationships among women and men age 15-19 | |
| Table 12.21 | Recent HIV testing among youth | |
| Table 12.22.1 | Use of alcohol and/or chat at last sexual intercourse: Women | 225 |

| Table 12.22.2 | Use of alcohol and/or chat at last sexual intercourse: Men | 226 |
|---------------|--|------|
| Table 12.23 | Sharing of HIV test results among couples | 227 |
| Table 12.24.1 | Exposure to Community Conversation programme: Women | 228 |
| Table 12.24.2 | Exposure to Community Conversation programme: Men | 229 |
| Figure 12.1 | Women and men seeking treatment for STIs | 213 |
| Figure 12.2 | Trends in age at first sexual intercourse | 219 |
| CHAPTER 13 | HIV PREVALENCE | |
| Table 13.1 | Coverage of HIV testing by residence and region | |
| Table 13.2 | Coverage of HIV testing by selected background characteristics | |
| Table 13.3 | HIV prevalence by age | |
| Table 13.4 | HIV prevalence by socioeconomic characteristics | |
| Table 13.5 | HIV prevalence by demographic characteristics | |
| Table 13.6 | HIV prevalence by sexual behaviour | |
| Table 13.7 | HIV prevalence among young people by background characteristics | 239 |
| Table 13.8 | HIV prevalence among young people by sexual behaviour | |
| Table 13.9 | HIV prevalence by other characteristics | 241 |
| Table 13.10 | Prior HIV testing by current HIV status | 241 |
| Table 13.11 | HIV prevalence by male circumcision | 242 |
| Table 13.12 | HIV prevalence among couples | 244 |
| Figure 13.1 | HIV prevalence for women and men age 15-49 by age groups | 234 |
| CHAPTER 14 | WOMEN'S EMPOWERMENT AND DEMOGRAPHIC AND HEALTH OUTCOM | ES |
| Table 14.1 | Employment and cash earnings of currently married women and men | 246 |
| Table 14.2.1 | Control over women's cash earnings and relative magnitude of women's cash earnings: Women | 2/18 |
| Table 14.2.2 | Control over men's cash earnings | |
| Table 14.2.2 | Women's control over their own earnings and over those of their husbands | |
| Table 14.3 | Ownership of assets: Women | |
| Table 14.4.1 | Ownership of assets: Men | |
| Table 14.4.2 | Participation in decision-making | |
| Table 14.5 | , o | |
| Table 14.6 | Women's participation in decision-making by background characteristics Attitude towards wife beating: Women | |
| | <u> </u> | |
| Table 14.7.2 | Attitude towards wife beating: Men | |
| Table 14.8 | Indicators of women's empowerment | |
| Table 14.9 | Current use of contraception by women's empowerment | |
| Table 14.10 | Women's empowerment and ideal number of children, and unmet need for fami planning | • |
| Table 14.11 | Reproductive health care by women's empowerment | 263 |
| Table 14.12 | Early childhood mortality rates by women's status | 263 |
| Table 14.13 | Men's participation in household chores | 264 |
| Table 14.14 | Knowledge of law against domestic violence | |
| Figure 14.1 | Number of decisions in which currently married women participate | 255 |
| CHAPTER 15 | ADULT AND MATERNAL MORTALITY | |
| Table15.1 | Adult mortality rates | 269 |
| Table 15.2 | Adult mortality probabilities | 269 |

| Table 15.3 | Maternal mortality | 270 |
|----------------|---|-----|
| Figure 15.1 | Maternal mortality ratio (MMR) with confidence intervals for the seven years preceding the 200, 2005, and 2011 Ethiopia DHS | 271 |
| APPENDIX A | SAMPLE IMPLEMENTATION | |
| Table A.1 | Enumeration areas and average EA size in the sampling frame | 276 |
| Table A.2 | Distribution of households in the sampling frame | |
| Table A.3 | Sample allocation of clusters and households | |
| Table A.4 | Sample allocation of completed interviews with women and men | 278 |
| Table A.5 | Sample implementation | 280 |
| Table A.6 | Sample implementation: Men | 281 |
| Table A.7 | Coverage of HIV testing by social and demographic characteristics: Women | 282 |
| Table A.8 | Coverage of HIV testing by social and demographic characteristics: Men | 283 |
| Table A.9 | Coverage of HIV testing among interviewed women by sexual behavior characteristics: Women | 284 |
| Table A.10 | Coverage of HIV testing among interviewed men by sexual behavior characte | |
| | Men | |
| APPENDIX B | ESTIMATES OF SAMPLING ERRORS | |
| Table B.1 | List of selected variables for sampling errors, Ethiopia 2011 | 290 |
| Table B.2 | Sampling errors for national sample, Ethiopia 2011 | 291 |
| Table B.3 | Sampling errors for urban sample, Ethiopia 2011 | 292 |
| Table B.4 | Sampling errors for rural sample, Ethiopia 2011 | 293 |
| Table B.5 | Sampling errors for Tigray region, Ethiopia 2011 | |
| Table B.6 | Sampling errors for Affar region, Ethiopia 2011 | 295 |
| Table B.7 | Sampling errors for Amhara region, Ethiopia 2011 | 296 |
| Table B.8 | Sampling errors for Oromiya region, Ethiopia 2011 | |
| Table B.9 | Sampling errors for Somali region, Ethiopia 2011 | |
| Table B.10 | Sampling errors for Benishangul-Gumuz region, Ethiopia 2011 | |
| Table B.11 | Sampling errors for SNNP region, Ethiopia 2011 | |
| Table B.12 | Sampling errors for Gambela region, Ethiopia 2011 | |
| Table B.13 | Sampling errors for Harari region, Ethiopia 2011 | |
| Table B.14 | Sampling errors for Addis Ababa region, Ethiopia 2011 | |
| Table B.15 | Sampling errors for Dire Dawa region, Ethiopia 2011 | |
| Table B.16 | Sampling errors for adult and maternal mortality rates, Ethiopia 2011 | 305 |
| APPENDIX C | DATA QUALITY TABLES | |
| Table C.1 | Household age distribution | |
| Table C.2.1 | Age distribution of eligible and interviewed women | |
| Table C.2.2 | Age distribution of eligible and interviewed men | |
| Table C.3 | Completeness of reporting | |
| Table C.4 | Births by calendar years | |
| Table C.5 | Reporting of age at death in days | |
| Table C.6 | Reporting of age at death in months | 313 |
| Table C.7 | Nutritional status of children based on NCHS/CDC/WHO International Reference Population | 21/ |
| Table C.8 | Completeness of Information on Siblings | |
| Table C.9 | Sibship size and sex ratio of siblings | |
| - - | , - · · · · · · · · · · · · · · · · · · | |

FOREWORD

The 2011 Ethiopia Demographic and Health Survey (EDHS) was conducted by the Central Statistical Agency (CSA) under the auspices of the Ministry of Health. The Ethiopian Health and Nutrition Research Institute (EHNRI) was responsible for the testing of HIV from the dried blood samples (DBS). This is the third Demographic and Health Survey (DHS) conducted in Ethiopia, under the worldwide MEASURE DHS project, a USAID-funded project providing support and technical assistance in the implementation of population and health surveys in countries worldwide. The three EDHS surveys have been conducted at five-year intervals since 2000, and the 2011 EDHS is the second survey presenting results on HIV and anemia prevalence. The preliminary report containing results of selected variables was released in October 2011, and this final report presents the details of the findings of the survey including results released earlier.

The primary objectives of the 2011 EDHS are to provide up-to-date information for planning, policy formulation, monitoring, and evaluation of population and health programmes in the country. The survey was intentionally planned to be fielded at the beginning of the last term of the MDG reporting period to provide data for the assessment of the Millennium Development Goals (MDGs). The 2011 EDHS, in conjunction with statistical information obtained from the Welfare Monitoring Survey (WMS) and the Household Income, Consumption and Expenditure Survey (HICES), provides critical information for monitoring and evaluating the Growth and Transformation Plan (GTP) as well as various sector development policies and programmes.

The survey interviewed a nationally representative population in about 18,500 households, and all women age 15-49 and all men age 15-59 in these households. In this report key indicators relating to family planning, fertility levels and determinants, fertility preferences, infant, child, adult and maternal mortality, maternal and child health, nutrition, women's empowerment, and knowledge of HIV/AIDS are provided for the nine regional states and two city administrations. In addition, this report also provides data by urban and rural residence at the country level.

Major stakeholders from various government, non-government, and UN organizations have been involved and have contributed in the technical, managerial, and operational aspects of the survey. The CSA acknowledges a number of organizations and individuals who contributed in various ways to the successful completion of the 2011 EDHS. The Agency is grateful for the commitment of the Government of Ethiopia and the generous funding support primarily by the HIV/AIDS Prevention and Control Office (HAPCO), the United States Agency for International Development (USAID), the United Nations Population Fund (UNFPA), the United Kingdom Department for International Development (DFID), the United Nations Children's Fund (UNICEF) and the Centers for Disease Control and Prevention (CDC). ICF International provided technical assistance as well as funding to the project through the MEASURE DHS project.

The Agency extends a special thanks to the Ministry of Health for the overall co-ordination and undertaking of the voluntary counseling and testing (VCT) activities and to all members of institutions represented in the 2011 EDHS Steering and Technical Advisory Committees—MoFED, EHNRI, USAID, CDC, UNICEF, DFID, WHO, UNAIDS, UNFPA, CORHA—for their valuable contribution to the successful completion of the survey. Special thanks also goes to the Ethiopia Health and Nutrition Research Institute (EHNRI), which handled the complicated task of testing the dry blood samples collected in the field for determining the HIV status of the surveyed population.

The Agency also wishes to acknowledge the tireless efforts of the CSA staff that made this survey a success. Finally, special thanks go to the field staff and also to the survey respondents, who were critical to the successful completion of this survey.

Samia Zekaria Director General Central Statistical Agency

ACKNOWLEDGEMENTS

The following persons contributed to the preparation of this report:

Mr. Gebeyehu Abelti, Central Statistical Agency

Mr. Jelaludin Ahmed, CDC

Ms. Eleni Seyuom, WHO

Ms. Genet Mengistu, MoFED

Mr. Terefe Bogale, MoFED

Ms. Wegen Tamene, EHNRI

Mr. Desta Kassa, EHNRI

Dr. Belete Tegbaru, EHNRI

Ms. Martha Kibur, UNICEF

Ms. Roman G/Yes, MOH

Ms. Alemitu Seyoum, MOH

Mr. Fantahun Walle, Central Statistical Agency

Mr. Wondwessen Demise, Central Statistical Agency

Mr. Girum Haile, Central Statistical Agency

Mr. Akalework Bezu, Central Statistical Agency

Mr. Assefa Negera, Central Statistical Agency

Mr. Million Taye, Central Statistical Agency

Mr. Ashenafi Seyoum, Central Statistical Agency

Mr. Seyoum Tadesse, Central Statistical Agency

Mr. Hailemariam Teklu, Central Statistical Agency

Mr. Kassahun Mengistu, Central Statistical Agency

Ms. Alemeshet Ayele, Central Statistical Agency

Ms. Alemtsehay Beru, ICF International

Ms. Zhuzhi Moore, ICF International

Dr. Fred Arnold, ICF International

Dr. Pav Govindasamy, ICF International

Ms. Joy Fishel, ICF International

Ms. Anjushree Pradhan, ICF International

Ms. Velma Lopez, ICF International

| | | Va | | |
|------|---|--|---|-------------------------------------|
| | | Female | Male | Total |
| ioal | Indicator | 1 cmaic | Walc | Total |
| • | Eradicate extreme poverty and hunger 1.8 Prevalence of underweight children under five years of age ¹ | 26.8% | 30.5% | 28.7% |
| | Achieve universal primary education 2.1 Net attendance ratio in primary education ² 2.3 Literacy rate of 15-24 year olds ³ | 65.0% 56.9% | 64.5% 75.0% | 64.5% 66.0% |
| | Promote gender equality and empower women 3.1a Ratio of girls to boys in primary education ⁴ 3.1b Ratio of girls to boys in secondary education ⁴ 3.1c Ratio of girls to boys in tertiary education ⁴ | | | 1.0 1.0 1.0 |
| • | Reduce child mortality 4.1 Under-five mortality rate (per 1000 live births) ⁵ 4.2 Infant mortality rate (per 1000 live births) ⁵ 4.3 Proportion of 1 year-old children immunized against measles | 98 per 1,000 63 per 1,000 55.7% | 122 per 1,000 84 per 1,000 55.7% | 88 per 1,00 59 per 1,00 55.7% |
| • | Improve maternal health 5.1 Maternal mortality ratio ⁶ 5.2 Proportion of births attended by skilled health personnel ⁷ 5.3 Contraceptive prevalence rate ⁸ 5.4 Adolescent birth rate ⁹ 5.5 a) Antenatal care coverage: at least one ANC visit b) Antenatal care coverage: at least four ANC visits 5.6 Unmet need for family planning | 676 deaths per 10 10.0% 28.6% 79 per 1,000 42.6% 19.1% 25.3% | 0,000 na na na na na na | na na na na na na |
| | Combat HIV/AIDS, malaria and other diseases 6.1 HIV prevalence among population aged 15-24 6.2 Condom use at last high-risk sex: youth 15-24 years ¹⁰ 6.3 Percentage of population 15-24 years with comprehensive knowledge About AIDS ¹¹ 6.4 Ratio of school attendance of orphans to school attendance of non-orphans aged 10-14 years | 0.5% 61.6% 23.9% 1.01 | 0.1% 47.2% 34.2% 0.81 | 0.3% 54.4% 30.5% 0.90 |
| | | Urban | Rural | Total |
| | Ensure environmental sustainability 7.8 Proportion of population using an improved drinking water source ¹² 7.9 Proportion of population using an improved sanitation facility ¹³ | 92.8% 18.2% | 41.6% 6.8% | 50.8% 8.8% |

na = Not applicable

Refers to respondents who attended secondary school or higher or who could read a whole sentence or part of a sentence

Expressed in terms of maternal deaths per 100,000 live births in the 7 -year period preceding the survey

Expressed in terms of maternal deaths per 100,000 live births in the 7 -year period preceding the survey
 Among births in the five years preceding the survey
 Percentage of currently married women age 15-49 using any method of contraception
 Equivalent to the age-specific fertility rate for women age 15-19 for the 3-year period before the survey, expressed in terms of births per 1,000 women age 15-19
 High-risk sex refers to sexual intercourse with a non-cohabiting, non-marital partner. Expressed as a percentage of men and women age 15-24 who had high-risk sex in the past 12 months.
 Comprehensive knowledge about AIDS means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting the AIDS virus, knowing that a healthy-looking person can have the AIDS virus, and rejecting the two most common local misconceptions about transmission or prevention of the AIDS virus. The two most common local misconceptions in Ethiopia are: 1) AIDS can be transmitted by supernatural means.

mosquito bites and 2) AIDS can be transmitted by supernatural means.

12 Percentage of de-jure population whose main source of drinking water is a household connection (piped), public standpipe, borehole, protected dug well or spring, rainwater collection, or bottled water.

13 Percentage of de-jure population with access to flush toilet, ventilated improved pit latrine, traditional pit latrine with a slab, or composting toilet and does not share

this facility with other households.

Proportion of children age 0-59 months who are below -2 standard deviations (SD) from the median of the WHO Child Growth Standards in weight-for-age.

The rate is based on reported attendance, not enrollment, in primary education among primary school age children (7-14 year-olds). The rate also includes children of primary school age enrolled in secondary education. This is a proxy for MDG indicator 2.1, Net enrollment ratio.

⁴ Based on reported net attendance, not gross enrollment ⁵ Expressed in terms of deaths per 1,000 live births. Mortality by sex refers to a 10-year reference period preceding the survey. Mortality rates for males and females combined refer to the 5-year period preceding the survey. The difference in the reference periods explains the apparent inconsistency between the sex-specific and total mortality rates.

INTRODUCTION

Key Findings

- The 2011 Ethiopia Demographic and Health Survey (EDHS) is a nationally representative survey of 16,515 women age 15-49 and 14,110 men age 15-59.
- The 2011 EDHS is the third comprehensive survey conducted in Ethiopia as part of the worldwide Demographic and Health Surveys project.
- The primary purpose of the EDHS is to furnish policymakers and planners with detailed information on fertility, family planning, infant, child, adult and maternal mortality, maternal and child health, nutrition and knowledge of HIV/AIDS and other sexually transmitted infections.
- In all selected households, women age 15-49 and children age 6-59 months were tested for anaemia, and women age 15-49 and men age 15-59 were tested for HIV.

1.1 HISTORY, GEOGRAPHY, AND ECONOMY

History

Ethiopia is an ancient country. Paleontological studies identify Ethiopia as one of the cradles of mankind. For instance, "Dinknesh" or "Lucy," one of the earliest and most complete hominoid skeletons ever found was discovered in Hadar through archaeological excavations in 1974, and dates back 3.5 million years. More recently, an older female skeleton, nicknamed Ardi, was discovered in 1994, and is considered to be the earliest hominid skeleton—dating a million years before the Lucy was ever found. Situated in the Horn of Africa, the country is at the crossroads between the Middle East and Africa. Thus, throughout its long history Ethiopia has been a melting pot of diverse customs and cultures. Today, it embraces a complex variety of nationalities, peoples, and linguistic groups. Its peoples altogether speak over 80 different languages, constituting 12 Semitic, 22 Cushitic, 18 Omotic, and 18 Nilo-Saharan languages (MOI, 2004).

Ethiopia is one of the few African countries to have maintained its independence, even during the colonial era. Furthermore, the country is one of the founding members of the United Nations. Ethiopia takes an active role in African affairs, for example, playing a pioneering role in the formation of the Organization of African Unity (OAU). In fact, the capital city, Addis Ababa, has been a seat for the OAU since its establishment and continues to serve as the seat for the African Union (AU) today.

Historically, Ethiopia was ruled by successive emperors and kings, with a feudal system of government. In 1974 the military took over the reins of rule by force and administered the country until May 1991. Currently, a federal system of government exists, and political leaders are elected every five years. The government is made up of two tiers of parliament, the House of Peoples' Representatives and the House of the Federation. Major changes in the administrative boundaries within the country have been made three times since the mid-1970s. At present Ethiopia is administratively structured into nine regional states—Tigray, Affar, Amhara, Oromiya, Somali, Benishangul-Gumuz, Southern Nations Nationalities and Peoples (SNNP), Gambela, and Harari—and two city administrations, that is, Addis Ababa and Dire Dawa Administration Councils.

Geography

Ethiopia has great geographical diversity; its topographic features range from the highest peak at Ras Dashen, 4,550 metres above sea level, down to the Affar Depression, 110 metres below sea level (CSA, 2009). The climate varies with the topography, from as high as 47 degrees Celsius in the Affar Depression to as low as 10 degrees Celsius in the highlands. Ethiopia's total surface area is about 1.1 million square kilometres. Djibouti, Eritrea, the Republic of the Sudan, the Republic of the Southern Sudan, Kenya, and Somalia border the country.

There are three principal climates in Ethiopia: tropical rainy, dry, and warm temperate. Maximum and minimum average temperatures vary across regions of the country and seasons of the year. Generally, the mean maximum temperature is highest from March to May and the mean minimum temperature is lowest from November to December. Ethiopia's mean annual distribution of rainfall is influenced by both the westerly and the south-easterly winds. The general distribution of annual rainfall is seasonal and also varies in amount, area, and time as it moves from the southwest to the northeast (MOI, 2004).

Economy

Ethiopia is an agrarian country and agriculture accounts for 43 percent of the gross domestic product or GDP (CSA, 2009). Coffee has long been one of the main export items of the country; however, other agricultural products are currently being introduced on the international market. The Ethiopian currency is the Birr and at the current exchange rate, 1 US dollar is equivalent to about 17 Birr. Between 1974 and 1991 the country operated a central command economy but has since moved toward a market-oriented economy. Currently, the country has one commercial and two specialized government owned banks and 14 privately owned commercial banks, one government-owned insurance company and eleven private insurance companies. There are also 30 micro-financing institutions established by private organizations (NBE, 2010).

To help attain the Millennium Development Goals (MDGs) by 2015, Ethiopia adopted the Plan for Accelerated and Sustained Development to End Poverty (PASDEP), the second poverty reduction strategy, covering the period 2005/06 to 2009/10. In keeping with this plan, the economy has grown in real GDP at a rate of 11 percent per annum in the past five years. With an average population growth rate of 2.6 percent, the GDP growth rate translates to an 8.4 percent growth in average annual per capita income. This rapid growth is the result of diversification and commercialization of small-scale agriculture, expansion of non-agricultural production in services and industry, capacity-building and good governance, off-farm employment especially through small enterprises, and investment in infrastructure (MOFED, 2010).

The Growth and Transformation Plan (GTP) has been developed for the next five years, designed to maintain rapid and broad-based economic growth and eventually to end poverty (MOFED, 2010). The primary objectives of the GTP are:

- Maintain the average real GDP growth rate of 11 percent and meet the MDGs;
- Expand and ensure education and health services, thereby achieving the MDGs in the social sectors;
- Establish favourable conditions for sustainable state-building through the creation of a stable democratic and developmental state;
- Ensure sustainability of growth by realising the above objectives within a stable macroeconomic framework.

1.2 **POPULATION**

Despite Ethiopia's long history, there were no estimates of its total population prior to the 1930s. The first population and housing census was conducted in 1984. The 1984 census covered about 81 percent of the population, and official estimates were made for the remaining 19 percent. A second census was conducted in 1994, and a third in 2007. Unlike the first census, the second and the third censuses covered the entire population. Table 1.1 provides a summary of the basic demographic indicators for Ethiopia from these three censuses.

The population has increased steadily over the last three decades, from 42.6 million in 1984 to 53.5 million in 1994 and 73.8 million in 2007. There were slight declines in the population growth rates over these periods, from 3.1 percent per annum in 1984 to 2.9 percent in 1994 and 2.6 percent in 2007.

| Table 1.1 Basic demographic indicators | | | | | | | |
|--|---------------------|---------------------|---------------------|--|--|--|--|
| Indicator | 1984 | 1994 | 2007 | | | | |
| | Census ¹ | Census ² | Census ³ | | | | |
| Population (millions) Growth rate (percent) Density (population/km²) Percent urban Life expectancy Male Female | 42.6 | 53.5 | 73.8 | | | | |
| | 3.1 | 2.9 | 2.6 | | | | |
| | 34.0 | 48.6 | 67.1 | | | | |
| | 11.4 | 13.7 | 16.1 | | | | |
| | 51.1 | 50.9 | na | | | | |
| | 53.4 | 53.5 | na | | | | |

Ethiopia is one of the least urbanized countries in the world; only 16 percent of the population lives in urban areas (CSA, 2010). The majority of the population lives in the highland areas. The main occupation of the settled rural population is farming, while the lowland areas are mostly inhabited by a pastoral people, who depend mainly on livestock production and move from place to place in search of grass and water. More than 80 percent of the country's total population lives in the regional states of Amhara, Oromiya, and SNNP.

Christianity and Islam are the main religions; about half of the population are Orthodox Christians, one-third are Muslims, about one in every five (18 percent) are Protestants, and 3 percent

na=Not available 1 Including Eritrea; CSA, 1991

CSA, 1998

are followers of traditional religion. The country is home to more than 80 ethnic groups, which vary in population size from more than 26 million people to fewer than 100 (CSA, 2010).

Ethiopia has made an effort to generate reliable demographic data by conducting a number of surveys. These include the 1981 Demographic Survey, the 1990 National Family and Fertility Survey (NFFS), the 1995 Fertility Survey of Urban Addis Ababa, and the 2000, 2005, and 2011 Ethiopia Demographic and Health Surveys (EDHS). The 1990 NFFS was the first nationally representative survey to yield substantial information on fertility, family planning, contraceptive use, and related topics. In addition to the topics covered by the NFFS, the 2000, 2005, and 2011 EDHS surveys collected information on maternal and child health, nutrition and breastfeeding practices, and HIV and other sexually transmitted diseases.

1.3 POPULATION AND HEALTH POLICIES

National Population Policy

Population policies had low priority in Ethiopia until the early 1990s. In 1993 the Transitional Government adopted a national population policy (TGE, 1993a). Since then, developments have taken place nationally and internationally that have a direct bearing on the country's population. The primary objective of the 1993 national population policy is to harmonize the rate of population growth with socioeconomic development in order to achieve a high level of welfare. The main long-term objective is to close the gap between high population growth rates and low economic productivity and to expedite socioeconomic development through holistic, integrated programmes. Other objectives include preserving the environment, reducing rural-to-urban migration, and reducing morbidity and mortality, particularly infant and child mortality. More specifically, the population policy seeks to accomplish the following:

- Reduce the total fertility rate (TFR) from 7.7 children per woman in 1990 to 4.0 children per woman in 2015;
- Increase contraceptive prevalence from 4 percent in 1990 to 44 percent in 2015;
- Reduce maternal, infant, and child morbidity and mortality rates, as well as promote the general welfare of the population;
- Significantly increase female participation at all levels of the educational system;
- Remove all legal and customary practices that prevent women from the full enjoyment of economic and social rights, including property rights and access to gainful employment;
- Ensure spatially balanced population distribution patterns, with a view to maintaining environmental security and extending the scope of development activities;
- Improve productivity in agriculture and introduce off-farm and non-agricultural activities for the purpose of diversifying employment;
- Mount an effective countrywide population information and education programme addressing issues pertaining to small family size and its relationship with human welfare and environmental security (TGE, 1993a).

Population and development has been considered as a cross cutting issue in the Growth and Transformation Plan and due emphases is given to integrate population issues in sector development plans.

Health policy

Ethiopia had no health policy until the early 1960s, when a health policy initiated by the World Health Organization (WHO) was adopted. In the mid-1970s, during the Derg regime, a health policy was formulated with emphasis on disease prevention and control. This policy gave priority to rural areas and advocated community involvement (TGE, 1993b). The current health policy, promulgated by the Transitional Government, takes into account broader issues such as population dynamics, food availability, acceptable living conditions, and other essentials of better health (TGE, 1993b).

To realize the objectives of the health policy, the government established the Health Sector Development Programme (HSDP), which is a 20-year health development strategy implemented through a series of four consecutive 5-year investment programmes (MOH, 2010). The first phase (HSDP I) was initiated in 1996/97. The core elements of the HSDP include: democratisation and decentralisation of the health care system; development of the preventive and curative components of health care; ensuring accessibility of health care for all segments of the population; and, promotion of private sector and NGO participation in the health sector. The HSDP prioritizes maternal and newborn care, and child health, and aims to halt and reverse the spread of major communicable disease such as HIV/AIDS, TB, and malaria. The Health Extension Programme (HEP) serves as the primary vehicle for prevention, health promotion, behavioural change communication, and basic curative care. The HEP is an innovative health service delivery program that aims at universal coverage of primary health care. The programme is based on expanding physical health infrastructure and developing Health Extension Workers (HEWs) who provide basic preventive and curative health services in the rural community.

The first phase (HSDP I) was initiated in 1996/97. Thus far, the country has implemented the HSDP in three cycles and is currently extending it into the forth programme, HSDP IV. Assessment of HSDP III shows remarkable achievements in the expansion and construction of health facilities, and improvement in the quality of health service provision. The assessment also shows that in the last five years the distribution of insecticide treated nets (ITN) were successful in reaching targeted areas of the country including areas that are hard to reach, placing Ethiopia as the third largest distributor of ITNs in Sub Saharan Africa (MOH, 2010).

HSDP IV is designed to provide massive training of health workers to improve the provision of quality health services and the development of a community health insurance strategy for the country. In addition, HSDP IV will prioritize maternal and newborn care, and child health, and aim to halt and reverse the spread of major communicable disease such as HIV/AIDS, TB and Malaria. In line with the government's current five-year national plan, the health sector continues to emphasize primary health care and preventive services; with focus on extending services to those who have not yet been reached and on improving the effectiveness of services, especially addressing difficulties in staffing and the flow of drugs.

1.4 OBJECTIVES OF THE 2011 EDHS SURVEY

The principal objective of the 2011 Ethiopia Demographic and Health Survey (EDHS) is to provide current and reliable data on fertility and family planning behaviour, child mortality, adult and maternal mortality, children's nutritional status, use of maternal and child health services, knowledge of HIV/AIDS, and prevalence of HIV/AIDS and anaemia. The specific objectives are these:

Collect data at the national level that will allow the calculation of key demographic rates;

- Analyse the direct and indirect factors that determine fertility levels and trends;
- Measure the levels of contraceptive knowledge and practice of women and men by family planning method, urban-rural residence, and region of the country;
- Collect high-quality data on family health, including immunisation coverage among children, prevalence and treatment of diarrhoea and other diseases among children under age five, and maternity care indicators, including antenatal visits and assistance at delivery;
- Collect data on infant and child mortality and maternal mortality;
- Obtain data on child feeding practices, including breastfeeding, and collect anthropometric measures to assess the nutritional status of women and children;
- Collect data on knowledge and attitudes of women and men about sexually transmitted diseases and HIV/AIDS and evaluate patterns of recent behaviour regarding condom use;
- Conduct haemoglobin testing on women age 15-49 and children 6-59 months to provide information on the prevalence of anaemia among these groups;
- Carry out anonymous HIV testing on women and men of reproductive age to provide information on the prevalence of HIV.

This information is essential for informed policy decisions, planning, monitoring, and evaluation of programmes on health in general and reproductive health in particular at both the national and regional levels. A long-term objective of the survey is to strengthen the technical capacity of the Central Statistical Agency to plan, conduct, process, and analyse data from complex national population and health surveys.

Moreover, the 2011 EDHS provides national and regional estimates on population and health that are comparable to data collected in similar surveys in other developing countries and to Ethiopia's two previous DHS surveys, conducted in 2000 and 2005. Data collected in the 2011 EDHS add to the large and growing international database of demographic and health indicators.

1.5 ORGANIZATION OF THE SURVEY

The 2011 EDHS was carried out under the aegis of the Ministry of Health (MOH) and was implemented by the Central Statistical Agency (CSA). The testing of the blood samples for HIV status was handled by the Ethiopia Health and Nutrition Research Institute (EHNRI). ICF International provided technical assistance as well as funding to the project through the MEASURE DHS project, a USAID-funded project providing support and technical assistance in the implementation of population and health surveys in countries worldwide.

The resources for the conduct of the survey were provided by the government of Ethiopia and various international donor organizations and governments: the United States Agency for International Development (USAID), the HIV/AIDS Prevention and Control Office (HAPCO), the United Nations Population Fund (UNFPA), the United Nations Children's Fund (UNICEF), the United Kingdom Department for International Development (DFID), and the United States Centers for Disease Control and Prevention (CDC).

A steering committee composed of major stakeholders from the government, international organizations, and NGOs was formed. The steering committee was responsible for coordination,

oversight, advice, and decision-making on all major aspects of the survey. Members of the steering committee include the MOH, CSA, EHNRI, HAPCO, the population Affairs Directorate of the Ministry of Finance and Economic Development (MOFED), the consortium of reproductive Health Associations (CORHA), USAID, UNFPA, UNICEF, the Joint United Nations Programme on HIV/AIDS (UNAIDS), CDC, and WHO. A technical committee was also formed from among the steering committee institutions to oversee all technical issues related to the survey such as questionnaire design, training, and report writing. Ethical clearance for the survey was provided by the EHNRI Review Board, the National Research Ethics Review Committee (NRERC) at the Ministry of Science and Technology, the Institutional Review Board of ICF International, and the CDC.

1.6 SAMPLE DESIGN

The sample for the 2011 EDHS was designed to provide population and health indicators at the national (urban and rural) and regional levels. The sample design allowed for specific indicators, such as contraceptive use, to be calculated for each of Ethiopia's 11 geographic/administrative regions (the nine regional states and two city administrations). The 2007 Population and Housing Census, conducted by the CSA, provided the sampling frame from which the 2011 EDHS sample was drawn.

Administratively, regions in Ethiopia are divided into zones, and zones, into administrative units called *weredas*. Each *wereda* is further subdivided into the lowest administrative unit, called *kebele*. During the 2007 census each *kebele* was subdivided into census enumeration areas (EAs), which were convenient for the implementation of the census. The 2011 EDHS sample was selected using a stratified, two-stage cluster design, and EAs were the sampling units for the first stage. The sample included 624 EAs, 187 in urban areas and 437 in rural areas.

Households comprised the second stage of sampling. A complete listing of households was carried out in each of the 624 selected EAs from September 2010 through January 2011. Sketch maps were drawn for each of the clusters, and all conventional households were listed. The listing excluded institutional living arrangements and collective quarters (e.g., army barracks, hospitals, police camps, and boarding schools). A representative sample of 17,817 households was selected for the 2011 EDHS. Because the sample is not self-weighting at the national level, all data in this report are weighted unless otherwise specified.

In the Somali region, in 18 of the 65 selected EAs listed households were not interviewed for various reasons, such as drought and security problems, and 10 of the 65 selected EAs were not listed due to security reasons. Therefore, the data for Somali may not be totally representative of the region as a whole. However, national-level estimates are not affected, as the percentage of the population in the EAs not covered in the Somali region is proportionally very small.

1.7. QUESTIONNAIRES

The 2011 EDHS used three questionnaires: the Household Questionnaire, the Woman's Questionnaire, and the Man's Questionnaire. These questionnaires were adapted from model survey instruments developed for the MEASURE DHS project to reflect the population and health issues relevant to Ethiopia. Issues were identified at a series of meetings with the various stakeholders. In addition to English, the questionnaires were translated into three major languages—Amharigna, Oromiffa, and Tigrigna.

The Household Questionnaire was used to list all the usual members and visitors of selected households. Basic information was collected on the characteristics of each person listed, including

age, sex, education, and relationship to the head of the household. For children under age 18, survival status of the parents was determined. The data on the age and sex of household members obtained in the Household Questionnaire were used to identify women and men who were eligible for the individual interview. The Household Questionnaire also collected information on characteristics of the household's dwelling unit, such as the source of water, type of toilet facilities, materials used for the floor of the house, and ownership of various consumer durable goods. In addition, this questionnaire was used to record height and weight measurements of eligible women and men and children under age 5, as well as male and female respondents' voluntary consent to give blood samples.

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

- Background characteristics such as age, education and media exposure
- Birth history and childhood mortality
- Knowledge and use of family planning methods
- Fertility preferences
- Antenatal, delivery and postnatal care
- Breastfeeding and infant feeding practices
- Vaccinations and childhood illnesses
- Marriage and sexual activity
- Women's work
- Husband's background characteristics
- Awareness and behaviour regarding AIDS and other sexually transmitted infections (STIs)
- Adult mortality, including maternal mortality

The Man's Questionnaire was administered to all men age 15-59 in each household in the 2011 EDHS sample. The Man's Questionnaire collected much of the same information as the Woman's Questionnaire but was shorter because it did not contain a detailed reproductive history or questions on maternal and child health.

1.8 LISTING, PRETEST, MAIN TRAINING, FIELDWORK, AND DATA PROCESSING

Listing

After the selection of the 624 clusters throughout the 11 regions and administrative areas, a listing operation was conducted in the selected clusters for about four months, starting in September 2010. For this purpose, training was conducted for 44 listing staff and 11 supervisors who had been recruited from all the regions and from the CSA head office to carry out the listing of households and preparation of the sketch map for each selected EA. A manual that described the listing and mapping

procedures was prepared as a guideline, and the training involved both classroom demonstrations and field practice. The listing was performed by organizing the listing staff into teams, with two listers per team. Eleven supervisors were also assigned from the CSA branch offices to perform quality checks and handle all the administrative and financial aspects of the listing operation. Rounds of supervision were carried out by CSA central office staff to assess the quality of the field operation and to ensure proper listing.

Pretest

Before the start of fieldwork, the questionnaires were pretested in all three local languages to make sure that the questions were clear and could be understood by the respondents. Testing of blood sample collection was also conducted during the pretest. CSA staff and various experts from government ministries and donor organizations participated in a three-week pretest training and fieldwork conducted by staff from ICF International, from 20 September to 8 October 2010. Fifty-five participants were trained to administer paper questionnaires, take anthropometric measurements, and collect blood samples for anaemia and HIV testing. Representatives from EHNRI assisted in training participants on the finger prick for blood collection and proper handling and storage of the dried blood spots (DBS) for HIV testing. The pretest fieldwork was conducted over five days in the selected urban *kebeles* of Addis Ababa; and in both urban and rural *kebeles* in the surrounding towns of Ambo, Debre Birhan, Hawassa, and Mekele, covering 191 households. Debriefing sessions were held with the pretest field staff, and the questionnaires were modified based on lessons drawn from the pretest exercise.

Main Training

Recruitment of interviewers, editors, and supervisors for the main fieldwork was conducted in the nine regions and two city administrations, taking into account the languages of the specific areas. Accommodation was arranged for the trainees and trainers at a training site, Ethiopian Civil Service College in Addis Ababa. CSA recruited and trained 307 people for the main fieldwork to serve as supervisors, editors, male and female interviewers, and reserve interviewers. Also trained were field quality control staff, office editors, and office supervisors. The training of interviewers, editors and supervisors was conducted from 24 November to 23 December 2010. The training consisted of instruction on interviewing techniques and field procedures, a detailed review of the questionnaire content, instruction and practice in weighing and measuring children, mock interviews between participants in the classroom, and practice interviews with real respondents in areas outside the 2011 EDHS sample points. Field practice in anthropometry, anaemia testing, and blood sample collection was also carried out for interviewers who were assigned as team biomarker technicians. Team supervisors and editors were trained in data quality control procedures and fieldwork coordination. The Amharic questionnaires were mainly used during the training, while the Tigrigna and Oromiffa versions were simultaneously checked against the Amharic questionnaires to ensure accurate translation.

Fieldwork

Thirty-five interviewing teams carried out data collection for the 2011 EDHS. Each team consisted of one team supervisor, one field editor, four female interviewers, two male interviewers, one cook, and one driver. Ten staff members from CSA coordinated and supervised fieldwork activities. An ICF International staff and representatives from other organisations supporting the survey, including EHNRI, CDC, and USAID, participated in fieldwork monitoring. In addition to the field teams, a quality control team was present in each of the 11 regions. Each quality control team

included a field coordinator, one female and one male staff member to monitor the quality of the interviews, and one biomarker quality control staff member. The quality control teams regularly visited and often stayed with the EDHS teams throughout the fieldwork period to closely supervise and monitor them. Data collection took place over a five-month period from 27 December 2010 to 3 June 2011.

Data Processing

All questionnaires for the 2011 EDHS were returned to the CSA headquarters in Addis Ababa for data processing, which consisted of office editing, coding of open-ended questions, data entry, and editing computer-identified errors. The data were processed by a team of 32 data entry operators, 6 office editors, and 4 data entry supervisors. Data entry and editing were accomplished using the CSPro software. The processing of data was initiated in January 2011 and completed in June 2011.

1.9 ANTHROPOMETRY, ANAEMIA, AND HIV TESTING

The 2011 EDHS included height and weight measurement, anaemia testing, and blood sample collection for HIV testing in the laboratory.

Height and Weight Measurement

Height and weight measurements were carried out on women age 15-49, men age 15-59, and children under age 5 in all selected households. Weight measurements were obtained using lightweight, SECA mother-infant scales with a digital screen, designed and manufactured under the guidance of UNICEF. Height measurements were carried out using a measuring board. Children younger than 24 months were measured for height while lying down, and older children, while standing.

Anaemia Testing

Blood specimens were collected for anaemia testing from all children age 6-59 months, women age 15-49, and men age 15-59 who voluntarily consented to the testing. Blood samples were drawn from a drop of blood taken from a finger prick (or a heel prick in the case of young children with small fingers) and collected in a microcuvette.

Haemoglobin analysis was carried out onsite using a battery-operated portable HemoCue analyser. Results were given verbally and in writing. Parents of children with a haemoglobin level under 7 g/dl were instructed to take the child to a health facility for follow-up care. Likewise, non-pregnant women were referred for follow-up care if their haemoglobin level was below 7 g/dl, and pregnant women and men were referred if their haemoglobin level was below 9 g/dl. All households in which anaemia testing was conducted received a brochure explaining the causes and prevention of anaemia.

HIV Testing

Blood specimens for laboratory testing of HIV were collected by the EDHS biomarker technicians from all women age 15-49 and men age 15-59 who consented to the test. The protocol for the blood specimen collection and analysis was based on the anonymous linked protocol developed for MEASURE DHS. This protocol allows for the merging of the HIV test results with the socio-demographic data collected in the individual questionnaires after all information that could potentially identify an individual respondent has been destroyed.

Interviewers explained the procedure, the confidentiality of the data, and the fact that the test results would not be made available to the respondent. If a respondent consented to the HIV testing, five blood spots from the finger prick were collected on a filter paper card labelled with a barcode unique to the respondent. Respondents were asked whether they consented to having the laboratory store their blood sample for future unspecified testing. If the respondent did not consent to additional testing using their sample, the words "no additional testing" were written on the filter paper card. Each household, whether individuals consented to HIV testing or not, received an informational brochure on HIV/AIDS and a list of fixed sites providing voluntary counselling and testing (VCT) services within the surrounding 10 km radius from the cluster for each region. For households farther than 10 km from a fixed VCT site, mobile VCT units were set up in or near survey areas following data collection. The USAID and CDC partners provided the logistical services for the provisions of mobile VCT services.

For each barcoded blood sample, a duplicate label was attached to the Biomarker Data Collection Form. A third copy of the same barcode was affixed to the Blood Sample Transmittal Form to track the blood samples from the field to the laboratory. Blood samples were dried overnight and packaged for storage the following morning. Samples were periodically collected in the field, along with the completed questionnaires, and transported to CSA in Addis Ababa to be logged in and checked; blood samples were then transported and submitted for testing to EHNRI in Addis Ababa.

Upon arrival at EHNRI, each blood sample was logged into the CSPro HIV Test Tracking System (CHTTS) database, given a laboratory number, and stored at -20°C until tested. The HIV testing protocol stipulates that testing of blood can be conducted only after the questionnaire data entry is completed, verified, and cleaned, and all unique identifiers except the anonymous barcode number are removed from the questionnaire file. The testing algorithm calls for testing all samples on the first ELISA assay test, the Vironostika® HIV Uni-Form II Plus O (Biomerieux). All positives were subjected to a second ELISA, the Murex HIV Ag/Ab Combination. If the first and second tests were discordant, a third confirmatory test, the HIV 2.2 western blot (DiaSorin), was conducted to resolve the discordance. The final result was rendered positive if the western blot confirmed the result to be positive and was rendered negative if the western blot confirmed it to be negative. When the western blot results were indeterminate, the sample result was recorded indeterminate.

Following HIV testing, the HIV test results for the 2011 EDHS were entered into the CHTTS database with a barcode as the unique identifier to the result. The barcodes identifying the HIV test results were linked with the data from the individual interviews to enable analysis and publication of HIV data linked with other EDHS data.

1.10 RESPONSE RATES

Table 1.2 shows household and individual response rates for the 2011 EDHS. A total of 17,817 households were selected for the sample, of which 17,018 were found to be occupied during data collection. Of these, 16,702 were successfully interviewed, yielding a household response rate of 98 percent.

In the interviewed households 17,385 eligible women were identified for individual interview; complete interviews were conducted for 16,515, yielding a response rate of 95 percent. Similarly, a total of 15,908 eligible men were identified for interview; completed interviews were conducted for 14,110, yielding a response rate of 89 percent. In general, response rates were higher in rural areas than urban areas, for both women and men.

Table 1.2 Results of the household and individual interviews

Number of households, number of interviews, and response rates, according to residence (unweighted), Ethiopia 2011

| | Resid | | |
|---|-------------------------|----------------------------|----------------------------|
| Result | Urban | Rural | Total |
| Household interviews Households selected Households occupied Households interviewed | 5,518 5,272 5,112 | 12,299 11,746 11,590 | 17,817 17,018 16,702 |
| Household response rate ¹ | 97.0 | 98.7 | 98.1 |
| Interviews with women age 15-49 Number of eligible women Number of eligible women interviewed | 5,656 5,329 | 11,729 11,186 | 17,385 16,515 |
| Eligible women response rate ² | 94.2 | 95.4 | 95.0 |
| Interviews with men age 15-59 Number of eligible men Number of eligible men interviewed | 5,062 4,216 | 10,846 9,894 | 15,908 14,110 |
| Eligible men response rate ² | 83.3 | 91.2 | 88.7 |

¹ Households interviewed/households occupied

Due to the non-proportional allocation of the sample to the different regions and to their urban and rural areas, sampling weights are used for analyzing the 2011 EDHS data to ensure the actual representativeness of the survey results at the national and regional level (for more information on sample weights, see Appendix A) . Whenever applicable, both weighted and unweighted numbers are used in the tables of this report.

² Respondents interviewed/eligible respondents

Key Findings

- More than half of households in Ethiopia (54 percent) have access to an improved source of drinking water.
- Only 8 percent of households have an improved toilet facility, not shared with other households.
- About one household in every four (23 percent) is electrified.
- A large proportion of the Ethiopian population (47 percent) is under age 15.
- More than one household in every four (26 percent) is female-headed.
- Twenty-seven percent of Ethiopian children age 5-14 are engaged in child labour.

his chapter summarizes demographic and socioeconomic characteristics of the population in the households sampled in the 2011 EDHS. The survey collected information from all usual residents of a selected household (the de jure population) and persons who had stayed in the selected household the night before the interview (the de facto population). Since the difference between these two populations is very small, and to maintain comparability with other DHS reports, all tables in this report refer to the de facto population unless otherwise specified. In the EDHS a household was defined as a single person or a group of related or unrelated persons who live together in the same dwelling unit(s) or in connected premises, who acknowledge one adult member as head of the household, and who have common arrangements for cooking and eating. The Household Questionnaire (see Appendix E) included a schedule collecting basic demographic and socioeconomic information (e.g., age, sex, educational attainment, and current school attendance) for all usual residents and for visitors who spent the night preceding the interview in the household. The Household Questionnaire also obtained information on housing characteristics (e.g., sources of water supply and sanitation facilities) and household possessions.

The information presented in this chapter is intended to facilitate interpretation of the key demographic, socioeconomic, and health indices presented later in the report. It is also intended to assist in the assessment of the representativeness of the survey sample.

2.1 HOUSEHOLD ENVIRONMENT

Physical characteristics of a household's environment are important determinants of the health status of household members, especially children. They can also serve as indicators of the socioeconomic status of households. The 2011 EDHS asked respondents about their household environment, including access to electricity, source of drinking water, type of sanitation facility, type of flooring material, and number of rooms in the dwelling. The results are presented here in terms of households and of the de jure population.

2.1.1 Drinking Water

Increasing access to improved drinking water is one of the Millennium Development Goals that Ethiopia and other nations worldwide have adopted (United Nations General Assembly, 2002). Table 2.1 presents a number of indicators that are useful in monitoring household access to improved drinking water. The source of the water is an indicator of whether it is suitable for drinking. In Table

2.1 sources that are likely to provide water suitable for drinking are identified as improved sources. These include a piped source within the dwelling, yard, or plot; a public tap/stand pipe, or borehole; a protected well; spring water and rainwater (WHO and UNICEF Joint Monitoring Program for Water Supply and Sanitation, 2010). Lack of easy access to a water source may limit the quantity of suitable drinking water that is available to a household. Even if the water is obtained from an improved source, when the water needs to be fetched from a source that is not immediately accessible to the household, it may become contaminated during transport or storage. Especially in such situations, home water treatment can be effective in improving the quality of household drinking water. Another factor in considering access to a water source is that the burden of fetching water often falls disproportionately on female members of the household.

Table 2.1 Household drinking water

Percent distribution of households and de jure population by source of drinking water, time to obtain drinking water, person who usually collects drinking water and by treatment of drinking water, according to residence, Ethiopia 2011

| | Households | | | Population | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| Characteristic | Urban | Rural | Total | Urban | Rural | Total |
| Source of drinking water | | | | | | |
| Improved source Piped into dwelling | 4.2 | 0.0 | 1.0 | 4.9 | 0.0 | 0.9 |
| Piped to yard/plot | 44.2 | 0.0 | 10.1 | 41.9 | 0.0 | 7.6 |
| Public tap/standpipe | 38.6 | 18.8 | 23.3 | 38.6 | 18.9 | 22.5 |
| Borehole | 1.1 | 4.0 | 3.3 | 1.0 | 4.0 | 3.5 |
| Protected well | 4.1 | 7.6 | 6.8 | 3.7 | 7.6 | 6.9 |
| Protected spring | 2.0 | 11.1 | 9.0 | 2.4 | 10.8 | 9.3 |
| Rainwater Bottled water | 0.1 0.3 | 0.2 0.0 | 0.1 0.1 | 0.2 0.1 | 0.2 0.0 | 0.2 0.0 |
| | | | | | | |
| Non-improved source Unprotected well | 5.2 0.5 | 58.0 4.5 | 46.0 3.6 | 7.0 0.8 | 58.1 4.7 | 48.9 4.0 |
| Unprotected well Unprotected spring | 2.5 | 32.0 | 25.3 | 3.0 | 32.1 | 26.9 |
| Tanker truck/cart with small tank | 1.4 | 0.5 | 0.7 | 2.0 | 0.4 | 0.7 |
| Surface water (river/lake/pond/stream dam) | 0.8 | 21.0 | 16.4 | 1.2 | 20.9 | 17.3 |
| Other source | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Percentage using any improved source of | | | | | | |
| drinking water | 94.5 | 41.7 | 53.7 | 92.8 | 41.6 | 50.8 |
| Time to obtain drinking water (round trip) | | | | | | |
| Water on premises | 50.4 | 1.3 | 12.5 | 49.0 | 1.4 | 10.0 |
| Less than 30 minutes 30 minutes or longer | 30.1 18.9 | 35.9 62.4 | 34.6 52.6 | 29.1 21.4 | 34.8 63.6 | 33.8 56.0 |
| Don't know/missing | 0.6 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Person who usually collects drinking water | | | | | | |
| Adult woman | 34.0 | 70.7 | 62.4 | 35.3 | 69.3 | 63.1 |
| Adult man | 8.8 | 7.3 | 7.6 | 6.6 | 5.8 | 5.9 |
| Female child under 15 years old | 3.8 | 14.9 | 12.4 | 5.3 | 17.6 | 15.4 |
| Male child under 15 years old Other | 1.8 1.0 | 4.9 0.9 | 4.2 0.9 | 2.8 0.9 | 5.2 0.7 | 4.8 0.7 |
| Water on premises | 50.4 | 1.3 | 12.5 | 49.0 | 1.4 | 10.0 |
| Missing | 0.2 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Water treatment prior to drinking ¹ | | | | | | |
| Boiled | 3.8 | 2.4 | 2.7 | 4.0 | 2.2 | 2.6 |
| Bleach/chlorine added ² | 9.2 | 4.9 | 5.8 | 9.3 | 4.9 | 5.7 |
| Strained through cloth | 0.6 0.4 | 1.4 0.2 | 1.2 0.2 | 0.5 0.6 | 1.5 0.2 | 1.3 0.2 |
| Bio-sand, composite, ceramic pot filter Let it stand and settle | 0.4 | 0.2 | 0.2 | 0.0 | 0.2 | 0.2 |
| Other | 0.5 | 0.1 | 0.2 | 0.6 | 0.1 | 0.2 |
| No treatment | 86.9 | 91.1 | 90.2 | 86.3 | 91.1 | 90.2 |
| Percentage using an appropriate treatment | | | | | | |
| method ³ | 12.3 | 8.2 | 9.1 | 12.9 | 8.3 | 9.1 |
| Weighted number | 3,780 | 12,922 | 16,702 | 13,939 | 63,438 | 77,377 |
| Unweighted number | 5,112 | 11,590 | 16,702 | 18,917 | 56,738 | 75,655 |

Respondents may report multiple treatment methods; therefore, the sum of treatments may exceed 100 percent. Includes use of water guard, Pur, Bishan Gari, and aquatabs Appropriate water treatment methods include boiling, bleaching, straining, and filtering.

As Table 2.1 shows, more than half of the households in Ethiopia (54 percent) have access to an improved source of drinking water, with a much higher proportion among urban households (95 percent) than among rural households (42 percent). The most common source of improved drinking water in urban households is piped water, used by 87 percent of urban households. In contrast, only 19 percent of rural households have access to piped water. Eleven percent of rural households have access to drinking water from a protected spring, and 8 percent have access to drinking water from a protected well.

Nationally, the proportion of Ethiopian households with access to piped water has increased from 18 percent in 2000 to 24 percent in 2005 and 34 percent in 2011. In the last six years there has been a rapid increase in the percentage of households in Ethiopia that use some type of improved source of drinking water, from 35 percent in the 2005 EDHS to 54 percent in the 2011 EDHS.¹

In the 2011 EDHS only 13 percent of households reported having water on their premises. Households not having water on their premises were asked how long it takes to fetch water. Thirty-five percent of all households (30 percent in urban areas and 36 percent in rural areas) take less than 30 minutes to fetch drinking water. More than half of all households (53 percent) travel 30 minutes or more to fetch their drinking water (19 percent in urban areas and 62 percent in rural areas).

Women in Ethiopia, especially in rural areas, bear the burden of collecting drinking water. In six of every ten households (62 percent), adult women are responsible for water collection. In rural households adult women are ten times more likely than adult men to usually fetch the water for the household (71 percent versus 7 percent). Even in urban households women are almost four times more likely than men to collect water (34 percent versus 9 percent). Female children under age 15 are about three times more likely than male children of the same age group to fetch drinking water (12 percent versus 4 percent).

In the 2011 EDHS all households also were asked whether they treat their drinking water. An overwhelming majority, nine households in every ten, do not treat their drinking water. Urban households (12 percent) are somewhat more likely than rural households (8 percent) to use an appropriate treatment method to ensure that water is safe for drinking.

2.1.2 Household Sanitation Facilities

Ensuring adequate sanitation facilities is another Millennium Development Goal that Ethiopia shares with other countries. At the household level, adequate sanitation facilities include an improved toilet and disposal that separates waste from human contact. A household is classified as having an improved toilet if it is used only by members of one household (that is, it is not shared) and if the facility used by the household separates the waste from human contact (WHO and UNICEF, 2010).

Housing Characteristics and Household Population • 15

¹ There was an error in the 2005 Ethiopia DHS Final Report in the proportion of households with access to an improved source of drinking water. The error occurred because the codes for protected and unprotected spring water were reversed. The total percentage of households with an improved source of drinking water was actually 35 percent and not 61 percent as reported.

Table 2.2 shows that 8 percent of households in Ethiopia use improved toilet facilities that are not shared with other households, 14 percent in urban areas and 7 percent in rural areas. One in ten households (32 percent in urban areas and 3 percent in rural areas) use shared toilet facilities. The large majority of households, 82 percent, use non-improved toilet facilities (91 percent in rural areas and 54 percent in urban areas). The most common type of non-improved toilet facility is an open pit latrine or pit latrine without slabs, used by 45 percent of households in rural areas and 37 percent of households in urban areas. Overall, 38 percent of households have no toilet facility, 16 percent in urban areas and 45 percent in rural areas.

<u>Table 2.2 Household sanitation facilities</u>

Percent distribution of households and de jure population by type of toilet/latrine facilities, according to residence, Ethiopia 2011

| | | Households | | | Population | |
|---|-------|------------|--------|--------|------------|--------|
| Type of toilet/latrine facility | Urban | Rural | Total | Urban | Rural | Total |
| Improved, not shared facility | 14.1 | 6.6 | 8.3 | 18.2 | 6.8 | 8.8 |
| Flush/pour flush to piped sewer system | 1.9 | 0.0 | 0.5 | 2.4 | 0.0 | 0.5 |
| Flush/pour flush to septic tank | 1.2 | 0.1 | 0.4 | 1.6 | 0.1 | 0.4 |
| Flush/pour flush to pit latrine | 1.4 | 0.9 | 1.0 | 1.7 | 1.0 | 1.1 |
| Ventilated improved pit (VIP) latrine | 1.2 | 1.0 | 1.0 | 1.7 | 1.0 | 1.1 |
| Pit latrine with slab | 7.2 | 1.1 | 2.5 | 9.2 | 1.1 | 2.6 |
| Composting toilet | 1.2 | 3.5 | 3.0 | 1.6 | 3.6 | 3.2 |
| Shared facility ¹ | 32.2 | 2.8 | 9.5 | 26.7 | 2.2 | 6.7 |
| Flush/pour flush to piped sewer system | 0.5 | 0.0 | 0.1 | 0.4 | 0.0 | 0.1 |
| Flush/pour flush to septic tank | 0.8 | 0.1 | 0.3 | 0.9 | 0.1 | 0.2 |
| Flush/pour flush to pit latrine | 1.5 | 0.2 | 0.5 | 1.3 | 0.2 | 0.4 |
| Ventilated improved pit (VIP) latrine | 2.0 | 0.3 | 0.7 | 1.7 | 0.2 | 0.5 |
| Pit latrine with slab | 24.4 | 1.0 | 6.3 | 20.2 | 0.8 | 4.3 |
| Composting toilet | 2.9 | 1.2 | 1.6 | 2.3 | 0.9 | 1.2 |
| Non-improved facility | 53.7 | 90.6 | 82.2 | 55.0 | 91.0 | 84.5 |
| Flush/pour flush not to sewer/septic tank/pit latrine | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Pit latrine without slab/open pit | 37.1 | 45.4 | 43.5 | 38.3 | 47.7 | 46.0 |
| Hanging toilet/hanging latrine | 0.1 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| No facility/bush/field | 15.9 | 44.8 | 38.3 | 16.1 | 43.0 | 38.2 |
| Other | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| Missing | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Weighted number | 3,780 | 12,922 | 16,702 | 13,939 | 63,438 | 77,377 |
| Unweighted number | 5,112 | 11,590 | 16,702 | 18,917 | 56,738 | 75,655 |

¹ Facilities that would be considered improved if they were not shared by two or more households.

2.1.3 Housing Characteristics

Table 2.3 presents housing characteristics of households in Ethiopia. Housing characteristics reflect the household's socioeconomic situation. They also may influence environmental conditions—for example, in the use of biomass fuels and resulting exposure to indoor air pollution—that have a direct bearing on the health and welfare of household members.

Table 2.3 Household characteristics

Percent distribution of households by housing characteristics, percentage using solid fuel for cooking, and percent distribution by frequency of smoking in the home, according to residence, Ethiopia 2011

| Housing characteristic Urban Rural Total |
|---|
| Yes No 85.2 4.8 23.0 14.8 95.2 77.0 No 14.8 95.2 77.0 Total 100.0 100.0 100.0 Flooring material Earth/sand 32.8 56.0 50.7 50.0 50.2 50.0 50.2 5 |
| No 14.8 95.2 77.0 Total 100.0 100.0 100.0 Flooring material |
| Total 100.0 100.0 100.0 Flooring material Earth/sand 32.8 56.0 50.7 Dung 15.3 39.5 34.0 Wood/planks 0.4 0.1 0.1 Palm/bamboo 0.7 0.7 0.7 Parquet or polished wood 1.1 0.0 0.2 Vinyl or asphalt strips 23.8 1.0 6.2 Ceramic tiles 1.5 0.0 0.4 Cement 15.5 1.1 4.3 Carpet 8.4 0.9 2.6 Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping 0.2 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 |
| Flooring material Earth/sand 32.8 56.0 50.7 Dung 15.3 39.5 34.0 Wood/planks 0.4 0.1 0.1 Palm/bamboo 0.7 0.7 0.7 Parquet or polished wood 1.1 0.0 0.2 Vinyl or asphalt strips 23.8 1.0 6.2 Ceramic tiles 1.5 0.0 0.4 Cement 15.5 1.1 4.3 Carpet 8.4 0.9 2.6 Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping One 67.8 71.0 70.3 Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking In the house 29.3 59.3 52.5 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 Total 100.0 100.0 100.0 |
| Earth/sand 32.8 56.0 50.7 Dung 15.3 39.5 34.0 Wood/planks 0.4 0.1 0.1 Palm/bamboo 0.7 0.7 0.7 Parquet or polished wood 1.1 0.0 0.2 Vinyl or asphalt strips 23.8 1.0 6.2 Ceramic tiles 1.5 0.0 0.4 Cement 15.5 1.1 4.3 Carpet 8.4 0.9 2.6 Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping One 67.8 71.0 70.3 Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking In the house 29.3 59.3 52.5 |
| Dung Wood/planks 15.3 39.5 34.0 Wood/planks 0.4 0.1 0.1 Palm/bamboo 0.7 0.7 0.7 Parquet or polished wood 1.1 0.0 0.2 Vinyl or asphalt strips 23.8 1.0 6.2 Ceramic tiles 1.5 0.0 0.4 Cement 15.5 1.1 4.3 Carpet 8.4 0.9 2.6 Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping 0 0 70.3 Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking 1 1 0.0 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 |
| Palm/bamboo 0.7 0.7 0.7 Parquet or polished wood 1.1 0.0 0.2 Vinyl or asphalt strips 23.8 1.0 6.2 Ceramic tiles 1.5 0.0 0.4 Cement 15.5 1.1 4.3 Carpet 8.4 0.9 2.6 Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping 0.0 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking 1 0.0 100.0 100.0 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 |
| Parquet or polished wood 1.1 0.0 0.2 Vinyl or asphalt strips 23.8 1.0 6.2 Ceramic tiles 1.5 0.0 0.4 Cement 15.5 1.1 4.3 Carpet 8.4 0.9 2.6 Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping One 67.8 71.0 70.3 Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking In the house 29.3 59.3 52.5 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 |
| Vinyl or asphalt strips 23.8 1.0 6.2 Ceramic tiles 1.5 0.0 0.4 Cement 15.5 1.1 4.3 Carpet 8.4 0.9 2.6 Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping 0 0 70.3 Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking 1 10.0 100.0 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 100.0 |
| Ceramic tiles 1.5 0.0 0.4 Cement 15.5 1.1 4.3 Carpet 8.4 0.9 2.6 Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping One 67.8 71.0 70.3 Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking In the house 29.3 59.3 52.5 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 100.0 |
| Carpet Other 8.4 0.9 0.6 0.7 2.6 0.7 Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping One 67.8 71.0 70.3 Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 Place for cooking In the house In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| Other 0.6 0.7 0.7 Total 100.0 100.0 100.0 Rooms used for sleeping One 67.8 71.0 70.3 Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking In the house 29.3 59.3 52.5 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 100.0 |
| Rooms used for sleeping One 67.8 71.0 70.3 Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking In the house 29.3 59.3 52.5 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| One Two 67.8 cm 71.0 cm 70.3 cm Two 25.9 cm 24.5 cm 24.8 cm Three or more Missing 6.2 cm 4.2 cm 4.6 cm Missing 0.2 cm 0.3 cm 0.3 cm Total 100.0 cm 100.0 cm 100.0 cm Place for cooking In the house cm 29.3 cm 59.3 cm 52.5 cm In a separate building cm 49.4 cm 32.5 cm 36.3 cm Outdoors cm 15.8 cm 7.4 cm 9.3 cm Other cm 0.1 cm 0.1 cm 0.1 cm No food cooked in the house cm 5.4 cm 0.8 cm 1.8 cm Total 100.0 cm 100.0 cm 100.0 cm |
| Two 25.9 24.5 24.8 Three or more 6.2 4.2 4.6 Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking 29.3 59.3 52.5 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| Three or more Missing 6.2 0.2 0.3 0.3 4.2 0.3 0.3 Total 100.0 100.0 100.0 100.0 Place for cooking In the house Separate building A 9.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 100.0 |
| Missing 0.2 0.3 0.3 Total 100.0 100.0 100.0 Place for cooking In the house 29.3 59.3 52.5 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| Place for cooking In the house 29.3 59.3 52.5 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| In the house 29.3 59.3 52.5 In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| In a separate building 49.4 32.5 36.3 Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| Outdoors 15.8 7.4 9.3 Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| Other 0.1 0.1 0.1 No food cooked in the house 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| Total 100.0 100.0 100.0 |
| |
| Cooking fuel |
| |
| Electricity 2.9 0.0 0.7 LPG/natural gas/biogas 1.3 0.0 0.3 |
| Kerosene 10.1 0.1 2.4 |
| Charcoal 29.9 1.2 7.7 |
| Wood 45.9 86.2 77.0 Straw/shrubs/grass 0.3 1.1 0.9 |
| Agricultural crop 1.3 2.2 2.0 |
| Animal dung 2.8 8.3 7.0 |
| Other 0.1 0.1 0.1 No food cooked in household 5.4 0.8 1.8 |
| No food cooked in household 5.4 0.8 1.8 Total 100.0 100.0 100.0 |
| Percentage using solid fuel for cooking ¹ 80.2 99.0 94.7 |
| Frequency of smoking in the home |
| Daily 6.6 7.2 7.1 |
| Weekly 3.0 2.5 2.6 |
| Monthly 0.7 0.6 0.6 Less than monthly 1.0 1.1 1.1 |
| Never 88.7 88.6 88.6 |
| Total 100.0 100.0 100.0 |
| Weighted number 3,780 12,922 16,702 |
| Unweighted number 5,112 11,590 16,702 |

Only about one household in every four (23 percent) has electricity, with a very large disparity between urban and rural households (85 percent versus 5 percent). In urban areas the proportion of households with electricity rose from 76 percent in 2000 to 86 percent in 2005 but then remained virtually unchanged in 2011 at 85 percent. In rural areas the percentage increased from less than 1 percent in 2000 to 2 percent in 2005 and 5 percent in 2011.

More than half (51 percent) of households have earth or sand floors, and about one-third (34 percent) have dung floors. Rural houses are more likely than urban houses to have earth, sand, or

LPG = Liquid petroleum gas ¹ Includes charcoal, wood, straw/shrubs/grass, agricultural crops, and animal

dung floors, while urban houses are more likely to have floors made with vinyl or asphalt strips or with cement.

The number of rooms used for sleeping in relation to the number of household members is an indicator of the extent of crowding, which in turn increases the risk of contracting communicable diseases. Overall, 70 percent of Ethiopian households use one room for sleeping, 25 percent use two rooms, and 5 percent use three or more rooms for sleeping.

More than half (53 percent) of households cook in the housing unit where they live, while more than one-third (36 percent) use a separate building, and about one household in every ten (9 percent) cooks outdoors.

Cooking and heating with solid fuels can lead to high levels of indoor smoke, which consists of a complex mix of pollutants that could increase the risk of contracting diseases. Solid fuels include charcoal, wood, straw, shrubs, grass, agricultural crops, and animal dung. The great majority (95 percent) of households primarily use solid fuel for cooking. The practice is nearly universal in with rural households, at 99 percent, and very common in urban households (80 percent) as well. Wood is the main type of cooking fuel, used by 77 percent of households (46 percent of urban households and 86 of rural households). In addition to wood, charcoal and kerosene are important types of cooking fuel in urban areas; 30 percent of urban households use charcoal and 10 percent use kerosene for cooking.

The 2011 EDHS collected information on the frequency of smoking tobacco in the home. Table 2.2 shows that 7 percent of households are exposed to daily smoking and 3 percent are exposed weekly. There is little difference between rural and urban areas.

2.1.4 Household Possessions

The availability of durable consumer goods is another indicator of a household's socioeconomic status. Moreover, particular goods have specific benefits. For instance, a radio or a television can bring household members information and new ideas; a refrigerator prolongs the wholesomeness of foods; and a means of transport can increase access to many services that are beyond walking distance. Table 2.4 shows the extent of possession of selected consumer goods by urban or rural residence. Forty-one percent of households have radios, 25 percent have mobile telephones, 10 percent have televisions, 5 percent have non-mobile telephones, and 4 percent have refrigerators.

In both urban and rural areas only a small percentage of households possess a means of transport. Urban households are slightly more likely than rural households to own bicycles (6 percent versus 1 percent) or a car or lorry (4 percent versus less than 1 percent). Three-fourths of all households own agricultural land (73 percent) or farm animals (76 percent).

There is noticeable urban-rural variation in the proportion of households owning specific goods. Most of the electronic goods are considerably more prevalent in urban areas, while farmoriented possessions are more common in rural areas. For example, 42 percent of urban households own televisions, compared with only 1 percent of rural households. Similarly, 65 percent of urban households own mobile telephones, compared with 13 percent of rural households. As expected, ownership of agricultural land is much more widespread among rural than urban households (88 percent versus 23 percent), as is ownership of farm animals (90 percent versus 31 percent).

Table 2.4 Household possessions

Percentage of households possessing various household effects, means of transportation, agricultural land, and livestock/farm animals, by residence, Ethiopia 2011

| | Resi | dence | |
|--|----------------|------------------|------------------|
| Possession | Urban | Rural | Total |
| Household effects | | | |
| Radio | 63.9 | 33.7 | 40.5 |
| Television | 42.1 | 1.1 | 10.4 |
| Mobile telephone | 65.2 | 12.8 | 24.7 |
| Non-mobile telephone | 19.0 | 0.2 | 4.5 |
| Refrigerator | 14.3 | 0.6 | 3.7 |
| Means of transportation | | | |
| Bicycle | 5.6 | 1.4 | 2.3 |
| Animal-drawn cart | 0.7 | 1.1 | 1.0 |
| Motorcycle/scooter | 0.6 | 0.1 | 0.2 |
| Car/truck | 3.6 | 0.1 | 0.9 |
| Ownership of agricultural land | 22.5 | 87.8 | 73.1 |
| Ownership of farm animals ¹ | 30.5 | 89.5 | 76.1 |
| Weighted number Unweighted number | 3,780 5,112 | 12,922 11,590 | 16,702 16,702 |

 $^{^{\}rm 1}$ Milk cows, oxen, bulls, horses, donkeys, mules, camels, goats, sheep, or chickens

2.2 WEALTH INDEX

The wealth index used in this survey is a measure that has been used in many DHS and other country-level surveys to indicate inequalities in household characteristics, in the use of health and other services, and in health outcomes (Rutstein et al., 2000). It serves as an indicator of level of wealth that is consistent with expenditure and income measures (Rutstein, 1999). The index was constructed using household asset data via a principal components analysis.

In its current form, which takes better account of urban-rural differences in scores and indicators of wealth, the wealth index is created in three steps. In the first step, a subset of indicators common to urban and rural areas is used to create wealth scores for households in both areas. Categorical variables to be used are transformed into separate dichotomous (0-1) indicators. These indicators and those that are continuous are then examined using a principal components analysis to produce a common factor score for each household. In the second step, separate factor scores are produced for households in urban and rural areas using area-specific indicators. The third step combines the separate area-specific factor scores to produce a nationally applicable combined wealth index by adjusting area-specific scores through a regression on the common factor scores. This three-step procedure permits greater adaptability of the wealth index in both urban and rural areas. The resulting combined wealth index has a mean of zero and a standard deviation of one. Once the index is computed, national-level wealth quintiles (from lowest to highest) are obtained by assigning the household score to each de jure household member, ranking each person in the population by his or her score, and then dividing the ranking into five equal categories, each comprising 20 percent of the population.

Table 2.5 presents the wealth quintiles by residence and administrative regions of the country. In urban areas 88 percent of the population is in the highest wealth quintile, in sharp contrast to the rural areas, where only 5 percent of the population are in the highest wealth quintile. Among regions the wealth quintile distribution varies greatly. A relatively high percentage of the population in the most urbanized regions is in the highest wealth quintile—Addis Ababa (99 percent), Dire Dawa (66 percent), and Harari (60 percent). In contrast, a significant proportion of the population in the

more rural regions are in the lowest wealth quintile, as in Affar (57 percent), Somali (44 percent), and Gambela (35 percent).

Table 2.5 also shows the Gini Coefficient of wealth in Ethiopia, which indicates the concentration of wealth, with 0 representing an exactly equal distribution (everyone having the same amount of wealth) and 1 representing a totally unequal distribution (one person having all the wealth). The overall Gini Coefficient for Ethiopia is 0.23. It is much higher in urban areas (0.14) than in rural areas (0.07), indicating a more unequal distribution of wealth in the urban population than in the rural population. The lowest Gini Coefficient is seen in Addis Ababa (0.02) where almost the entire population (99 percent) is in the highest wealth quintile. The highest Gini Coefficient—that is, the least equitable distribution of wealth—is observed in Affar and Gambela (both 0.29).

Table 2.5 Wealth quintiles

Percent distribution of the de jure population by wealth quintiles, and the Gini Coefficient, according to residence and region, Ethiopia 2011

| | | V | Vealth quinti | е | | | Weighted | Unweighted | Gini |
|-------------------|--------|--------|---------------|--------|---------|-------|----------|------------|-------------|
| Residence/region | Lowest | Second | Middle | Fourth | Highest | Total | number | number | Coefficient |
| Residence | | | | | | | | | |
| Urban | 2.3 | 1.0 | 1.1 | 8.0 | 87.6 | 100.0 | 13,939 | 18,917 | 0.14 |
| Rural | 23.9 | 24.2 | 24.1 | 22.6 | 5.1 | 100.0 | 63,438 | 56,738 | 0.07 |
| Region | | | | | | | | | |
| Tigray | 25.8 | 22.3 | 16.1 | 13.1 | 22.7 | 100.0 | 5,035 | 7,794 | 0.26 |
| Affar | 57.0 | 9.5 | 4.9 | 6.9 | 21.7 | 100.0 | 667 | 6,048 | 0.29 |
| Amhara | 22.4 | 22.7 | 21.8 | 17.1 | 16.0 | 100.0 | 19,478 | 9,264 | 0.20 |
| Oromiya | 16.0 | 20.9 | 22.4 | 25.3 | 15.4 | 100.0 | 29,800 | 10,325 | 0.19 |
| Somali | 43.9 | 8.0 | 9.7 | 11.6 | 26.8 | 100.0 | 1,810 | 5,150 | 0.20 |
| Benishangul-Gumuz | 29.7 | 18.7 | 19.0 | 20.2 | 12.3 | 100.0 | 809 | 5,978 | 0.18 |
| SNNP | 21.7 | 20.4 | 20.6 | 21.0 | 16.2 | 100.0 | 16,069 | 10,169 | 0.17 |
| Gambela | 34.9 | 7.5 | 8.0 | 22.7 | 26.9 | 100.0 | 284 | 5,473 | 0.29 |
| Harari | 2.0 | 6.5 | 10.0 | 21.4 | 60.1 | 100.0 | 213 | 4,865 | 0.26 |
| Addis Ababa | 0.3 | 0.2 | 0.1 | 0.4 | 98.9 | 100.0 | 2,919 | 5,710 | 0.02 |
| Dire Dawa | 8.0 | 9.7 | 11.0 | 5.7 | 65.7 | 100.0 | 291 | 4,879 | 0.23 |
| Total | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 100.0 | 77,377 | 75,655 | 0.23 |

2.3 POPULATION BY AGE AND SEX

Age and sex are important variables that are the primary basis for demographic classification in vital statistics, censuses, and surveys. They are also important variables for the study of mortality, fertility, and marriage.

<u>Table 2.6 Household population by age, sex, and residence</u>

Percent distribution of the de facto household population by five-year age groups, according to sex and residence, Ethiopia 2011

| | | Urban | | | Rural | | | Total | |
|--------------------------------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Age | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| <5 | 11.8 | 10.2 | 10.9 | 17.2 | 15.7 | 16.4 | 16.3 | 14.6 | 15.4 |
| 5-9 | 13.1 | 10.5 | 11.7 | 18.0 | 17.2 | 17.6 | 17.1 | 15.9 | 16.5 |
| 10-14 | 13.0 | 13.0 | 13.0 | 15.9 | 13.9 | 14.9 | 15.4 | 13.8 | 14.6 |
| 15-19 | 11.1 | 14.7 | 13.0 | 8.9 | 10.2 | 9.6 | 9.3 | 11.0 | 10.2 |
| 20-24 | 11.0 | 12.6 | 11.8 | 7.0 | 7.3 | 7.2 | 7.7 | 8.3 | 8.0 |
| 25-29 | 9.7 | 11.0 | 10.4 | 6.5 | 7.9 | 7.2 | 7.1 | 8.5 | 7.8 |
| 30-34 | 7.0 | 6.7 | 6.8 | 4.5 | 5.1 | 4.8 | 4.9 | 5.4 | 5.1 |
| 35-39 | 6.6 | 5.4 | 6.0 | 4.8 | 5.0 | 4.9 | 5.1 | 5.1 | 5.1 |
| 40-44 | 4.7 | 3.6 | 4.1 | 3.5 | 3.4 | 3.4 | 3.7 | 3.4 | 3.5 |
| 45-49 | 3.1 | 2.3 | 2.6 | 2.7 | 2.9 | 2.8 | 2.8 | 2.8 | 2.8 |
| 50-54 | 2.4 | 3.0 | 2.7 | 2.1 | 3.3 | 2.7 | 2.1 | 3.2 | 2.7 |
| 55-59 | 1.4 | 1.8 | 1.7 | 1.7 | 3.0 | 2.4 | 1.7 | 2.7 | 2.2 |
| 60-64 | 1.8 | 1.5 | 1.6 | 2.2 | 1.8 | 2.0 | 2.1 | 1.8 | 1.9 |
| 65-69 | 1.3 | 1.2 | 1.2 | 1.9 | 1.1 | 1.5 | 1.8 | 1.1 | 1.5 |
| 70-74 | 0.8 | 0.9 | 0.9 | 1.3 | 1.1 | 1.2 | 1.2 | 1.1 | 1.1 |
| 75-79 | 0.5 | 0.5 | 0.5 | 0.7 | 0.5 | 0.6 | 0.7 | 0.5 | 0.6 |
| 80 + | 0.7 | 1.0 | 0.9 | 1.1 | 0.7 | 0.9 | 1.0 | 0.8 | 0.9 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Weighted number Unweighted number | 6,346 8,653 | 7,412 9,964 | 13,758 18,617 | 30,731 27,037 | 31,808 28,442 | 62,539 55,479 | 37,077 35,690 | 39,219 38,406 | 76,296 74,096 |

Table 2.6 shows the distribution of the household population in the 2011 EDHS by five-year age groups, according to urban or rural residence and sex. The total population counted in the survey was 76,296, with females slightly outnumbering males (39,219 compared with 37,077). The results indicate an overall sex ratio of 95 males per 100 females. The sex ratio is higher in rural areas (97 males per 100 females) than in urban areas (86 males per 100 females).

The age structure of the household population in Ethiopia is typical of a society with a young population. The population pyramid in Figure 2.1 shows the sex and age distribution of the population. The pyramidal age structure reflects the large number of children under age 15. Children under age 15 account for nearly half (47 percent) of the total population, a feature of populations with high fertility levels, while only about 4 percent of Ethiopians are over age 65. This population distribution is similar to that observed in the 2000 and 2005 surveys.

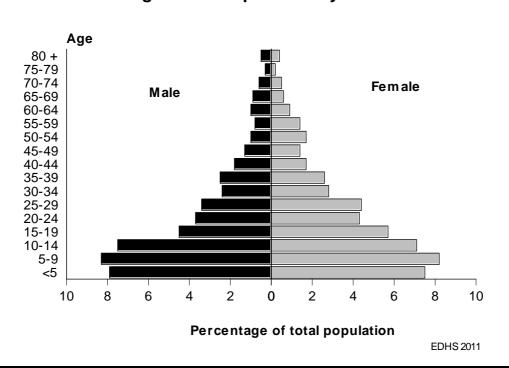


Figure 2.1 Population Pyramid

2.4 HOUSEHOLD COMPOSITION

Table 2.7 presents information about the composition of households by sex of the household head and size of the household. These characteristics are important because they are associated with household welfare.

About one-quarter (26 percent) of Ethiopian households are headed by women, a slight increase from 23 percent in 2005. Average household size is 4.6 persons, which is slightly lower than the average of 5.0 persons per household reported in 2005.

Urban households have fewer members than rural households. In urban areas the average household size is 3.7 persons, compared with 4.9 persons in rural areas. Single-person households are more common in urban areas (17 percent) than in rural areas (5 percent). Also, a much lower

proportion of urban households (19 percent) have six or more members than do rural households (38 percent).

The 2011 EDHS also collected information on the presence in households of foster children and orphans. Foster children are children under age 18 living in households with neither their mother nor their father present; orphans are children with one or both parents dead. Foster children and orphans are of concern because they may be neglected or exploited if no parent is present. There is little difference between rural and urban areas in the distribution of orphans. Overall, 19 percent of households have foster children, with little variation between urban and rural households. Single orphans (one parent dead) are present in 11 percent of households, whereas double orphans (both parents dead) are present in 1 percent of households.

Table 2.7 Household composition

Percent distribution of households by sex of head of household and by household size; mean size of household, and percentage of households with orphans and foster children under 18 years of age, according to residence, Ethiopia 2011

| | Resi | dence | |
|---|---|---|---|
| Characteristic | Urban | Rural | Total |
| Household headship Male Female | 64.2 35.8 | 76.8 23.2 | 73.9 26.1 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of usual members 0 1 2 3 4 5 6 7 8 9+ | 0.2 16.5 18.5 17.8 14.1 14.1 8.4 4.7 2.4 3.3 | 0.1 5.0 9.9 14.2 16.0 16.9 14.0 10.4 7.3 6.2 | 0.1 7.6 11.9 15.0 15.5 16.3 12.7 9.1 6.2 5.5 |
| Total Mean size of households | 100.0 3.7 | 100.0 4.9 | 100.0 4.6 |
| Percentage of households with orphans and foster children under 18 years of age Foster children ¹ Double orphans Single orphans ² Foster and/or orphan children | 21.2 1.9 10.2 25.7 | 18.9 1.3 11.7 25.6 | 19.4 1.4 11.3 25.6 |
| Weighted number Unweighted number | 3,780 5,112 | 12,922 11,590 | 16,702 16,702 |

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

1 Foster children are those under age 18 living in households with neither their mother nor their father present.

2.5 CHILDREN'S LIVING ARRANGEMENTS AND PARENTAL SURVIVAL

Table 2.8 presents data on children's living arrangements and orphanhood in Ethiopia. Seventy-two percent of children under age 18 live with both parents; 14 percent live with their mothers but not their fathers; 3 percent live with their fathers but not their mothers; and 11 percent live with neither of their natural parents.

² Includes children with one dead parent and an unknown survival status of the other parent.

The proportion of children living with both parents decreases with age. That is, younger children are more likely than older children to live with both parents. The proportion of children living with both parents varies little by the child's sex. Rural children are substantially more likely to live with both parents than urban children (74 percent versus 58 percent). Among regions of the country, the highest proportion of children living with both parents is in Benishangul-Gumuz (75 percent), while the lowest proportion is in Addis Ababa (52 percent). The percentage of children living with both parents tends to decrease with an increase in household wealth.

Table 2.8 Children's living arrangements and orphanhood

Percent distribution of de jure children under 18 years of age by living arrangements and survival status of parents, the percentage of children not living with a biological parent, and the percentage of children with one or both parents dead, according to background characteristics, Ethiopia 2011

| | | , |) | | | | | | | | | | | | |
|--|--------------------------------|-----------------------------|--|--|----------------------|---------------------------|--------------------------|---|---|---------------------------------------|----------------------------------|---|---|--|-------------------------------------|
| | | Living w but not | Living with mother but not with father | Living with father but not with mothe | h father h mother | | Not livin | Not living with either parent | er parent | | | Dorontaga | | | |
| Background characteristic | Living with both parents | Father alive | Father | Mother alive | Mother dead | Both alive | Only father alive | Only mother alive | Both dead | Missing information on father/ mother | Total | not living with a biological parent | Percentage with one or both parents dead | Weighted number of children | Unweighted number of children |
| Age 0-4 | 82.3 | 11.1 | 2.0 | 0.7 | 0.3 | 2.8 | 0.3 | 0.2 | 0.1 | 0.2 | 100.0 | 3.4 | 2.9 | 11,801 | 11,569 |
| 0-1 2-4 | 86.3 79.8 | 11.0 | 1.5 | 0.1 | 0.0 | 0.7 4.1 | 0.2 | 0.0 | 0.0 | 0.2 | 100.0 | 0.0 6.0 | 1.7 3.6 | 4,423 7.378 | 4,254 7.315 |
| 5-9 | 73.4 | 0.0 | 14. | 2.2 | 0.0 | 7.7 | 0.7 | 0.0 | 0.5 | 0.00 | 100.0 | 9.7 | 4.7 | 12,739 | 12,310 |
| 15-17 | 54.1 | 7.3 | 9.6 | 2.2 | 2.3 | 15.1 | 2.3 | . 8. 5. 8. | . <u>.</u> 6. | 1.2 | 100.0 | 23.1 | 20.2 | 4,798 | 4,457 |
| Sex Male Female | 72.9 70.3 | 9.1 | 5.2 | 2.2 1.5 | 1.3 | 6.2 9.0 | 1.0 | 1.2 2.4. | 0.9 0.7 | 0.3 0.6 | 100.0 | 9.2 12.0 | 9.4 9.2 | 20,451 20,062 | 19,582 19,294 |
| Residence Urban Rural | 58.3 73.9 | 14.9 8.3 | 6. 6. 4. 1. | 2.3 .8 | 0.7 | 12.5 6.7 | 1.2 | 2.4 | 1.7 | 0.7 | 100.0 | 17.8 9.3 | 11.5 8.9 | 5,948 34,565 | 7,492 31,384 |
| Region Tigray Affar Amhara Oromiya Somali | 69.1 63.3 74.1 70.4 | 7.47 9.88 6.9 7.61 | 6.24 6.24 7.74 7.74 | - 2 2 2 2 8 & 4 - 6 | 2.5.4. 1.1.4.5.0 | 5.0 6.6 7.5 5.2 | 0.5 1.2 1.0 1.1 | 0.4 1.0 1.0 0.8 | 0.8 0.7 0.7 0.1 | 0.00 0.00 0.00 0.00 | 100.0 100.0 100.0 100.0 | 7.6 7.9 9.3 10.3 8.1 | 9.2 10.0 7.4 9.6 7.8 | 2,617 363 9,632 16,124 1,083 | 4,083 4,624 3,591 9,093 |
| Benishangul-Gumuz SNNP Gambela Harari | 75.0 67.8 52.6 70.9 | 9.01 6.05 7.4 7.8 | 3.7 5.0 1.0 1.0 1.0 | 3.2 2.4 2.4 2.4 2.4 | £ £ 0 6 | 5.2 8.8 11.5 8.7 | 0.0 | 1. 1. 8. 4. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. | 0.8 0.9 1.7 | 0.0 0.0 4.0 0.0 | 100.0 100.0 0.0 0.0 | 8.1 12.3 17.9 | 7.2 10.3 16.5 | 424 8,935 132 98 | 3,149 5,696 2,887 2,249 |
| Addis Ababa Dire Dawa | 51.7 65.2 | 12.8 | 6.8 5.0 | 2.0 | 0.0 | 16.9 | 7: 7: 6: 0: | 3.1 1.8 | <u>6</u> 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. | 0.8 | 100.0 | 23.3 15.8 | 13.6 10.6 | 972 132 | 1,848 2,287 |
| Wealth quintile Lowest Second Middle Fourth | 72.0 75.5 75.9 | 10.3 7.9 6.9 8.6 | 0 4 4 4 7 0 7 6 | 1.7 1.9 2.2 | 5. 5. 5. ±. | 5.0 6.2 6.5 6.5 | 0.9 0.7 0.9 | 1.1.1.1 1.0.0.4 | 0.6 0.7 0.6 | 0.00 0.03 0.04 0.04 | 100.0 100.0 100.0 | 7 8 8 5 5 7 1 1 1 | 0.8 0.8 0.8 0.0 | 8,652 8,365 8,470 8,277 | 11,403 6,635 6,295 6,384 |
| Highest Total <15 Total <18 | 60.6 73.9 71.6 | 13.6 9.6 9.3 | 4.9 5.1 | 6. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. | 0.8 1.0 1.2 | 12.7 6.6 7.6 | 1.0 1.0 | 2.2 0.9 1.3 | 1.5 0.6 0.8 | 0.7 0.3 0.4 | 100.0 | 17.5 8.9 10.6 | 10.5 7.8 9.3 | 6,750 35,715 40,513 | 8,159 34,419 38,876 |

Note: Table is based on de jure members, i.e., usual residents.
¹ Includes children with father dead, mother dead, both dead and one parent dead but missing information on survival status of the other parent.

2.6 EDUCATION OF THE HOUSEHOLD POPULATION

Education is a key determinant of individual opportunities, attitudes, and economic and social status. Studies have consistently shown that educational attainment has a strong effect on reproductive behaviour, fertility, infant and child mortality and morbidity, and attitudes and awareness related to family health, use of family planning, and sanitation. The 2011 EDHS reports educational attainment among household members and school attendance among youth.

For many years Ethiopia's education system did not change substantially. Recently, however, the Ethiopian government undertook a major restructuring and expansion programme within the government system, as well as opening the education sector to the free-market economy and to private investments. The current system of formal education is based on a three-tier system: eight years of primary education, followed by four years of secondary education, and four to seven years for tertiary education, depending on the area of study. Currently, several pre-university colleges and educational institutions operated by the government or the private sector offer vocational, technical, and professional training in different parts of the country. The number of public and private universities and vocational and technical schools has increased substantially over the last few years.

2.6.1 School Attendance by Survivorship of Parents

The survival status of parents has an impact on their children's school attendance. Table 2.9 shows the percentage of children age 10-14 attending school by parental survival, and the ratio of the percentage attending by parental survival, according to background characteristics. Children whose parents both are dead are less likely to attend school (69 percent) than children who have both parents alive and are living with at least one parent (76 percent), resulting in a ratio of 0.90 between the percentage of children with both parents deceased and the percentage with both parents alive and living with a parent.

Male children with both parents deceased are much less likely than female children in the same situation to attend school (60 percent versus 80 percent).

Table 2.9 School attendance by survivorship of parents

For de jure children 10-14 years of age, the percentage attending school by parental survival and the ratio of the percentage attending, by parental survival, according to background characteristics, Ethiopia 2011

| | | Percentage | attending school | ol by survivorshi | p of parents | | |
|---------------------------|-----------------------|--------------------|----------------------|--|--------------------|-------------------|--------------------|
| Background characteristic | Both parents deceased | Weighted number | Unweighted number | Both parents alive and living with at least one parent | Weighted number | Unweighted number | Ratio ¹ |
| Sex | | | | | | | |
| Male | 59.9 | 81 | 81 | 73.6 | 4,513 | 4,273 | 0.81 |
| Female | 79.7 | 68 | 71 | 79.1 | 4,077 | 3,692 | 1.01 |
| Residence | | | | | | | |
| Urban | 93.2 | 50 | 61 | 94.4 | 1,263 | 1,402 | 0.99 |
| Rural | 56.8 | 100 | 91 | 73.1 | 7,327 | 6,563 | 0.78 |
| Region | | | | | | | |
| Tigray | * | 8 | 11 | 78.3 | 542 | 846 | 0.92 |
| Affar | * | 1 | 13 | 55.1 | 75 | 701 | 0.67 |
| Amhara | * | 23 | 9 | 77.9 | 2,349 | 1,112 | 0.75 |
| Oromiya | * | 54 | 20 | 73.4 | 3,198 | 1,117 | 0.88 |
| Somali | * | 6 | 11 | 67.2 | 208 | 588 | 0.97 |
| Benishangul-Gumuz | * | 1 | 9 | 81.5 | 90 | 674 | 0.85 |
| SNNP | (75.5) | 46 | 27 | 77.6 | 1,882 | 1,202 | 0.97 |
| Gambela | * | 1 | 11 | 93.3 | 22 | 533 | 0.73 |
| Harari | * | 0 | 10 | 78.2 | 20 | 450 | 1.01 |
| Addis Ababa | * | 8 | 17 | 97.5 | 182 | 342 | 0.97 |
| Dire Dawa | * | 1 | 14 | 82.2 | 22 | 400 | 0.73 |
| Wealth quintile | | | | | | | |
| Lowest | * | 22 | 30 | 62.6 | 1,745 | 2,351 | 1.05 |
| Second | (42.0) | 29 | 18 | 71.2 | 1,709 | 1,373 | 0.59 |
| Middle | * * | 21 | 22 | 73.9 | 1,858 | 1,336 | 1.00 |
| Fourth | (64.3) | 29 | 20 | 81.8 | 1,853 | 1,353 | 0.79 |
| Highest | (87.0) | 49 | 62 | 94.6 | 1,425 | 1,552 | 0.92 |
| Total | 68.9 | 150 | 152 | 76.2 | 8,590 | 7,965 | 0.90 |

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

1 Ratio of the percentage with both parents deceased to the percentage with both parents alive and living with a parent.

2.6.2 Educational Attainment

Tables 2.10.1 and 2.10.2 show the percent distribution of the de facto female and male household population age 6 and older by highest level of education attended or completed, according to background characteristics. The majority of Ethiopians have little or no education, with females even less educated than males. Fifty-two percent of females and 38 percent of males have never attended school. While these percentages are large, they constitute a substantial decrease from the findings of the 2005 EDHS, when 67 percent of females and 52 percent of males had never attended school.

About four in every ten females (39 percent) and half of all males (49 percent) have only some primary education, while 2 percent of females and 3 percent of males completed primary education and did not attend secondary school. Only 3 percent of females and 5 percent of males have attended but not completed secondary education, and an additional 3 percent of females and 5 percent of males have completed secondary or higher education. The gender gap in education is more obvious at lower levels of education, primarily because the proportion of males and females attending higher levels of education is so small.

The trends in educational attainment by successive age groups indicate the long-term trend of the country's educational achievement. There has been a marked improvement in the educational attainment of women. For example, the proportion of females with no education has declined significantly, from 98 percent among those age 65 and over to just 17 percent among females

age 10-14 at the time of the survey. Similarly, among males 89 percent of men age 65 and older had no education, compared with 13-19 percent of males age 10-24.

As expected, educational attainment is much higher among the urban population than among the rural population. For example, in urban areas 28 percent of females and 15 percent of males have no education, compared with 58 percent of females and 44 percent of males in rural areas. Among regions, the proportion of females and males with no education is highest in Affar (69 and 53 percent, respectively), followed by Somali for women (68 percent) and Amhara for men (47 percent), and lowest in the capital city, Addis Ababa (23 and 10 percent). The highest percentages of females and males who have completed secondary or more than secondary education live in the urbanized regions, such as Harari, Addis Ababa, and Dire Dawa.

The most substantial variation in educational attainment occurs across the wealth quintiles. Only 27 percent of females in the wealthiest households have no education, compared with 69 percent in the poorest households. Among males 14 percent of those in the wealthiest households have no education, compared with 54 percent in the poorest households.

Table 2.10.1 Educational attainment of the female household population

Percent distribution of the de facto female household population age six and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Ethiopia 2011

| | | | | | | | Don't | | | Un- | Median |
|-----------------|-----------|---------|----------------------|-----------|------------------------|-----------|---------|-------|----------|----------|-----------|
| Background | No | Some | Completed | Some | Completed | More than | know/ | | Weighted | weighted | years |
| characteristic | education | primary | primary ¹ | secondary | secondary ² | secondary | missing | Total | number | number | completed |
| Age | | | | | | | | | | | |
| 7-9 | 47.6 | 52.2 | na | na | na | na | 0.2 | 100.0 | 3,772 | 3,688 | 0.0 |
| 10-14 | 17.2 | 81.7 | 0.7 | 0.1 | 0.0 | 0.0 | 0.2 | 100.0 | 5,401 | 4,982 | 1.6 |
| 15-19 | 18.4 | 60.9 | 8.4 | 9.9 | 0.1 | 2.3 | 0.1 | 100.0 | 4,321 | 4,110 | 4.2 |
| 20-24 | 39.3 | 34.9 | 4.4 | 11.6 | 0.6 | 9.0 | 0.1 | 100.0 | 3,271 | 3,356 | 2.0 |
| 25-29 | 60.2 | 25.7 | 2.5 | 4.9 | 1.2 | 5.2 | 0.2 | 100.0 | 3,324 | 3,362 | 0.0 |
| 30-34 | 67.7 | 22.0 | 2.5 | 2.1 | 2.1 | 3.5 | 0.1 | 100.0 | 2,105 | 2,158 | 0.0 |
| 35-39 | 70.7 | 21.5 | 1.5 | 1.6 | 1.7 | 2.8 | 0.1 | 100.0 | 2,004 | 2,052 | 0.0 |
| 40-44 | 77.4 | 15.2 | 1.4 | 1.7 | 1.3 | 2.6 | 0.5 | 100.0 | 1,331 | 1,340 | 0.0 |
| 45-49 | 85.0 | 11.5 | 1.0 | 0.4 | 0.5 | 1.3 | 0.3 | 100.0 | 1,099 | 1,007 | 0.0 |
| 50-54 | 89.6 | 7.4 | 1.1 | 0.3 | 0.3 | 0.7 | 0.7 | 100.0 | 1,268 | 1,253 | 0.0 |
| 55-59 | 94.8 | 4.4 | 0.2 | 0.2 | 0.1 | 0.2 | 0.0 | 100.0 | 1,078 | 976 | 0.0 |
| 60-64 | 95.1 | 2.8 | 0.3 | 0.4 | 0.1 | 0.2 | 1.2 | 100.0 | 699 | 762 | 0.0 |
| 65+ | 97.8 | 1.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.6 | 100.0 | 1,340 | 1,342 | 0.0 |
| Residence | | | | | | | | | | | |
| Urban | 28.3 | 41.7 | 6.6 | 11.4 | 2.5 | 9.4 | 0.1 | 100.0 | 6,510 | 8,869 | 3.5 |
| Rural | 58.1 | 38.4 | 1.3 | 1.3 | 0.0 | 0.6 | 0.2 | 100.0 | 25,926 | 22,910 | 0.0 |
| Region | | | | | | | | | | | |
| Tigray | 47.3 | 42.4 | 3.4 | 4.6 | 0.6 | 1.7 | 0.1 | 100.0 | 2,146 | 3,306 | 0.0 |
| Affar | 69.3 | 25.0 | 1.6 | 2.2 | 0.3 | 1.3 | 0.3 | 100.0 | 265 | 2,397 | 0.0 |
| Amhara | 56.9 | 35.5 | 2.0 | 3.2 | 0.2 | 1.9 | 0.2 | 100.0 | 8,368 | 3,943 | 0.0 |
| Oromiva | 52.6 | 39.6 | 2.5 | 2.8 | 0.3 | 2.0 | 0.2 | 100.0 | 11,976 | 4,162 | 0.0 |
| Somali | 67.9 | 28.5 | 0.8 | 1.7 | 0.2 | 0.6 | 0.4 | 100.0 | 670 | 1,925 | 0.0 |
| Benishangul- | | | | | | | | | | , | |
| Gumuz | 53.5 | 38.5 | 2.0 | 2.2 | 0.4 | 2.8 | 0.5 | 100.0 | 326 | 2.385 | 0.0 |
| SNNP | 51.4 | 42.7 | 1.4 | 2.5 | 0.1 | 1.6 | 0.3 | 100.0 | 6,920 | 4,353 | 0.0 |
| Gambela | 35.8 | 52.1 | 4.2 | 3.4 | 0.2 | 3.8 | 0.5 | 100.0 | 120 | 2,326 | 1.0 |
| Harari | 40.2 | 37.7 | 3.9 | 6.6 | 3.4 | 7.7 | 0.4 | 100.0 | 91 | 2,077 | 1.0 |
| Addis Ababa | 22.5 | 40.6 | 6.5 | 11.8 | 6.0 | 12.5 | 0.2 | 100.0 | 1,427 | 2,827 | 5.0 |
| Dire Dawa | 43.1 | 37.1 | 3.6 | 6.8 | 2.2 | 7.0 | 0.2 | 100.0 | 126 | 2,078 | 0.5 |
| Wealth quintile | | | | | | | | | | | |
| Lowest | 69.2 | 29.9 | 0.4 | 0.4 | 0.0 | 0.0 | 0.2 | 100.0 | 6,245 | 7,905 | 0.0 |
| Second | 63.0 | 35.1 | 0.8 | 0.7 | 0.0 | 0.1 | 0.3 | 100.0 | 6,304 | 4,968 | 0.0 |
| Middle | 57.7 | 39.2 | 1.0 | 1.5 | 0.0 | 0.3 | 0.3 | 100.0 | 6,292 | 4,635 | 0.0 |
| Fourth | 47.6 | 46.6 | 2.6 | 2.2 | 0.0 | 0.7 | 0.2 | 100.0 | 6,473 | 4,889 | 0.0 |
| Highest | 26.6 | 43.8 | 6.4 | 11.0 | 2.3 | 9.7 | 0.1 | 100.0 | 7,122 | 9,382 | 3.4 |
| Total | 52.1 | 39.1 | 2.3 | 3.4 | 0.5 | 2.3 | 0.2 | 100.0 | 31,019 | 31,779 | 0.0 |

Total includes 5 cases with missing information on age na = Not applicable

Table 2.10.2 Educational attainment of the male household population

Percent distribution of the de facto male household population age six and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Ethiopia 2011

| Background characteristic | No education | Some primary | Completed primary ¹ | Some secondary | Completed secondary ² | More than secondary | Don't know/ missing | Total | Weighted number | Un- weighted number | Median years completed |
|---------------------------|-----------------|--------------|--------------------------------|----------------|----------------------------------|---------------------|---------------------------|-------|-----------------|---------------------------|------------------------------|
| Age | | | | | | | | | | | |
| 6-9 | 44.8 | 55.1 | na | na | na | na | 0.1 | 100.0 | 3,877 | 3,716 | 0.0 |
| 10-14 | 18.1 | 81.2 | 0.5 | 0.2 | 0.0 | 0.0 | 0.1 | 100.0 | 5,712 | 5,437 | 1.6 |
| 15-19 | 12.6 | 67.1 | 8.0 | 10.3 | 0.1 | 1.8 | 0.1 | 100.0 | 3,449 | 3,164 | 4.4 |
| 20-24 | 19.3 | 48.1 | 6.5 | 14.8 | 8.0 | 10.5 | 0.1 | 100.0 | 2,837 | 2,709 | 4.7 |
| 25-29 | 32.0 | 40.0 | 5.3 | 9.4 | 0.9 | 12.3 | 0.1 | 100.0 | 2,616 | 2,578 | 2.9 |
| 30-34 | 40.6 | 37.8 | 4.8 | 6.0 | 3.4 | 7.3 | 0.1 | 100.0 | 1,824 | 1,948 | 1.5 |
| 35-39 | 42.2 | 40.5 | 4.3 | 4.4 | 3.8 | 4.7 | 0.1 | 100.0 | 1,906 | 1,751 | 1.4 |
| 40-44 | 44.9 | 38.6 | 4.1 | 3.6 | 2.1 | 6.4 | 0.2 | 100.0 | 1,358 | 1,382 | 0.9 |
| 45-49 | 50.5 | 37.3 | 2.9 | 3.2 | 1.5 | 4.3 | 0.3 | 100.0 | 1,029 | 1,039 | 0.0 |
| 50-54 | 61.4 | 27.7 | 1.6 | 2.3 | 0.9 | 5.5 | 0.5 | 100.0 | 792 | 805 | 0.0 |
| 55-59 | 72.8 | 19.6 | 3.1 | 1.3 | 0.9 | 2.2 | 0.1 | 100.0 | 625 | 532 | 0.0 |
| 60-64 | 77.1 | 18.2 | 1.3 | 0.9 | 0.2 | 1.5 | 0.7 | 100.0 | 780 | 775 | 0.0 |
| 65+ | 88.8 | 9.3 | 0.3 | 0.6 | 0.3 | 0.4 | 0.3 | 100.0 | 1,756 | 1,638 | 0.0 |
| Residence | | | | | | | | | | | |
| Urban | 14.5 | 45.9 | 7.0 | 13.7 | 3.8 | 14.9 | 0.1 | 100.0 | 5,442 | 7,489 | 5.4 |
| Rural | 43.6 | 50.1 | 2.2 | 2.5 | 0.2 | 1.2 | 0.2 | 100.0 | 24,468 | 21,334 | 0.0 |
| Region | | | | | | | | | | | |
| Tigray | 37.9 | 50.5 | 2.5 | 4.2 | 0.5 | 4.4 | 0.0 | 100.0 | 1,849 | 2,858 | 1.0 |
| Affar | 53.4 | 35.3 | 3.4 | 3.5 | 1.2 | 3.0 | 0.3 | 100.0 | 257 | 2,290 | 0.0 |
| Amhara | 47.1 | 44.6 | 2.6 | 3.5 | 0.3 | 1.8 | 0.1 | 100.0 | 7,822 | 3,742 | 0.0 |
| Oromiya | 37.7 | 50.4 | 3.5 | 4.4 | 0.4 | 3.4 | 0.2 | 100.0 | 11,531 | 4,000 | 0.6 |
| Somali Benishangul- | 46.0 | 43.5 | 2.4 | 2.9 | 1.3 | 3.3 | 0.7 | 100.0 | 637 | 1,834 | 0.0 |
| Gumuz | 39.7 | 48.8 | 3.0 | 3.5 | 0.4 | 4.0 | 0.6 | 100.0 | 301 | 2.225 | 0.4 |
| SNNP | 33.3 | 56.0 | 2.4 | 3.9 | 0.6 | 3.5 | 0.2 | 100.0 | 6,038 | 3,810 | 1.2 |
| Gambela | 21.9 | 51.9 | 5.7 | 9.0 | 2.7 | 8.4 | 0.4 | 100.0 | 113 | 2,001 | 3.2 |
| Harari | 22.4 | 44.9 | 6.2 | 10.1 | 3.9 | 12.3 | 0.3 | 100.0 | 84 | 1,925 | 4.0 |
| Addis Ababa | 9.5 | 41.0 | 7.6 | 15.5 | 8.5 | 17.5 | 0.3 | 100.0 | 1,166 | 2,282 | 6.9 |
| Dire Dawa | 24.5 | 43.3 | 4.7 | 11.0 | 4.3 | 12.1 | 0.1 | 100.0 | 112 | 1,856 | 3.4 |
| Wealth quintile | | | | | | | | | | | |
| Lowest | 54.1 | 44.0 | 0.7 | 0.8 | 0.1 | 0.2 | 0.1 | 100.0 | 5,592 | 6,991 | 0.0 |
| Second | 47.9 | 48.6 | 1.6 | 1.5 | 0.0 | 0.2 | 0.2 | 100.0 | 5,884 | 4,545 | 0.0 |
| Middle | 43.5 | 51.4 | 2.5 | 1.5 | 0.1 | 0.7 | 0.2 | 100.0 | 6,149 | 4,454 | 0.0 |
| Fourth | 33.8 | 55.7 | 3.3 | 5.2 | 0.2 | 1.6 | 0.2 | 100.0 | 6,197 | 4,712 | 1.2 |
| Highest | 14.0 | 46.2 | 7.3 | 13.1 | 3.6 | 15.6 | 0.1 | 100.0 | 6,088 | 8,121 | 5.4 |
| Total | 38.3 | 49.3 | 3.1 | 4.5 | 0.8 | 3.7 | 0.2 | 100.0 | 29,910 | 28,823 | 0.6 |

Total includes 9 cases with missing information on age. ¹ Completed 8th grade at the primary level. ² Completed 4th grade at the secondary level.

2.6.3 **School Attendance Ratios**

Table 2.11 shows data on net attendance ratios (NARs) and gross attendance ratios (GARs) for the de facto household population by school level and sex, according to residence, region, and wealth index. The NAR for primary school is the total number of students of primary school age (age 7-14) expressed as the percentage of the population of primary school age. The NAR for secondary school is the percentage of the population of secondary school age (age 15-18) that attends secondary school. By definition, the NAR cannot exceed 100 percent.

The GAR for primary school is the total number of primary school students of any age, expressed as a percentage of the official primary-school-age population. The GAR for secondary school is the total number of secondary school students of any age, expressed as a percentage of the official secondary-school-age population. If there are significant numbers of overage and underage students at a given level of schooling, the GAR can exceed 100 percent. Persons are considered to be currently attending school if they attended formal academic school at any point during the school year.

It is important to note that in the 2011 EDHS the NAR and GAR are based on the new organisation of education levels, in which primary school covers grades 1-8, while in the 2005 EDHS

survey the NAR and GAR were based on the previous organisation, in which primary school covered grades 1-6. Therefore, comparison of the NAR and GAR between the two surveys is not possible.

As Table 2.11 shows, 65 percent of children of primary school age in Ethiopia attend primary school (64 percent of males and 65 percent of females). At the same time, only 14 percent of young people of secondary school age are attending school (14 percent of males and 13 percent of females). Attendance ratios are much lower in rural areas than in urban areas; they are lowest in Affar and Somali regions.

At the primary level the GAR is higher among females (90) than males (87), and at the secondary level, higher among males (24) than females (21). Although the overall GAR at the primary level is 88, there are significant levels of over-age and/or under-age participation in the urban areas among both females (111) and males (108) as well as in Addis Ababa and Gambela (both 111).

There is a strong relationship between household economic status and schooling at both the primary and secondary levels and among males and females. For example, at the primary education level the NAR increases from 52 percent in the lowest wealth quintile to 84 percent in the highest wealth quintile. Similarly, at the secondary level the NAR rises from 3 percent in the lowest wealth quintile to 37 percent in the highest wealth quintile.

The Gender Parity Index (GPI) measures sex-related differences in school attendance ratios. It is the ratio of female to male attendance. A GPI of 1 indicates parity, or equality, between the school participation ratios for males and females. A GPI lower than 1 indicates a gender disparity in favour of males—that is, a higher proportion of males than females attend that level of schooling. A GPI higher than 1 indicates a gender disparity in favour of females.

In Ethiopia the GPI for primary school attendance is slightly higher than 1 (1.02 for NAR and 1.04 for GAR). For secondary school attendance it is lower than 1 (0.95 for NAR and 0.85 for GAR). These data indicate that the gender gap is smaller at the primary level than at the secondary level of schooling. There are some differences in the GPI for NAR and for GAR by place of residence and by region. For both primary and secondary education, the GPI for both NAR and GAR is higher in rural areas than urban areas. The primary school and secondary school GPI for both NAR and GAR is lowest in Somali region.

Table 2.11 School attendance ratios

Net attendance ratios (NAR) and gross attendance ratios (GAR) for the de facto household population by sex and level of schooling; and the Gender Parity Index (GPI), according to background characteristics, Ethiopia 2011

| | | Net attenda | ance ratio ¹ | | | Gross atten | dance ratio | 2 |
|---------------------------|--------------|--------------|-------------------------|------------------------------|---------------|---------------|---------------|-------------------------------------|
| Berleyen | | | | Gender | | | | 0 |
| Background characteristic | Male | Female | Total | Parity Index ³ | Male | Female | Total | Gender Parity Index ³ |
| | | | PRIMARY | SCHOOL | | | | |
| Residence | | | | | | | | |
| Urban Rural | 85.8 60.3 | 81.5 61.9 | 83.6 61.1 | 0.95 1.03 | 108.4 83.1 | 110.6 86.0 | 109.5 84.5 | 1.02 1.04 |
| Region | | | | | | | | |
| Tigray | 71.4 | 79.0 | 75.3 | 1.11 | 96.6 | 103.6 | 100.1 | 1.07 |
| Affar Amhara | 53.3 65.2 | 50.1 71.9 | 51.9 68.4 | 0.94 1.10 | 78.1 90.2 | 72.4 98.9 | 75.5 94.4 | 0.93 1.10 |
| Oromiva | 60.1 | 60.3 | 60.2 | 1.00 | 82.7 | 83.7 | 83.2 | 1.01 |
| Somali | 63.3 | 50.2 | 57.3 | 0.79 | 86.5 | 68.8 | 78.3 | 0.80 |
| Benishangul-Gumuz | 70.1 | 69.0 | 69.6 | 0.98 | 98.8 | 94.2 | 96.4 | 0.95 |
| SNNP | 64.3 | 61.7 | 63.0 | 0.96 | 84.3 | 86.1 | 85.2 | 1.02 |
| Gambela | 82.2 | 79.6 | 80.9 | 0.97 | 105.1 | 117.3 | 111.2 | 1.12 |
| Harari | 79.1 | 68.5 | 74.1 | 0.87 | 96.4 | 95.9 | 96.2 | 1.00 |
| Addis Ababa | 89.6 | 79.7 | 84.2 | 0.89 | 108.7 | 113.6 | 111.3 | 1.05 |
| Dire Dawa | 77.5 | 72.6 | 75.2 | 0.94 | 97.0 | 100.6 | 98.7 | 1.04 |
| Wealth quintile | | | | | | | | |
| Lowest | 51.3 | 52.7 | 52.0 | 1.03 | 70.2 | 71.8 | 71.0 | 1.02 |
| Second | 58.7 | 57.0 | 57.9 | 0.97 | 80.3 | 79.5 | 79.9 | 0.99 |
| Middle | 60.8 | 62.5 | 61.7 | 1.03 | 86.0 | 87.2 | 86.6 | 1.01 |
| Fourth | 68.2 | 71.9 | 70.0 | 1.05 | 93.5 | 103.2 | 98.2 | 1.10 |
| Highest | 85.7 | 82.2 | 83.9 | 0.96 | 108.4 | 108.7 | 108.5 | 1.00 |
| Total | 64.0 | 65.0 | 64.5 | 1.02 | 86.7 | 89.8 | 88.2 | 1.04 |
| | | | SECONDAR' | Y SCHOOL | | | | |
| Residence | | | | | | | | |
| Urban | 43.6 | 36.1 | 39.1 | 0.83 | 75.6 | 54.2 | 62.7 | 0.72 |
| Rural | 6.6 | 5.9 | 6.2 | 0.90 | 11.2 | 9.7 | 10.4 | 0.86 |
| Region | 45.0 | 40.0 | 40.4 | 4.00 | 00.0 | 04.4 | 00.0 | 4.00 |
| Tigray | 15.3 | 16.6 | 16.1 | 1.08 | 23.6 | 24.1 | 23.9 | 1.02 |
| Affar Amhara | 11.7 11.6 | 7.9 12.7 | 9.6 12.2 | 0.68 1.10 | 26.6 22.9 | 12.6 18.7 | 18.6 20.6 | 0.47 0.81 |
| Oromiya | 13.3 | 13.3 | 13.3 | 1.00 | 20.4 | 20.6 | 20.5 | 1.01 |
| Somali | 11.4 | 4.8 | 7.9 | 0.42 | 18.3 | 6.7 | 12.1 | 0.37 |
| Benishangul-Gumuz | 13.5 | 11.2 | 12.4 | 0.83 | 20.1 | 16.0 | 18.0 | 0.80 |
| SNNP | 14.0 | 9.7 | 11.6 | 0.69 | 26.7 | 18.0 | 21.8 | 0.67 |
| Gambela | 17.1 | 10.1 | 13.0 | 0.59 | 25.1 | 15.5 | 19.4 | 0.62 |
| Harari | 29.4 | 19.3 | 23.4 | 0.66 | 52.9 | 29.9 | 39.3 | 0.56 |
| Addis Ababa | 42.6 | 30.6 | 34.7 | 0.72 | 69.8 | 44.7 | 53.2 | 0.64 |
| Dire Dawa | 32.9 | 26.4 | 28.9 | 0.80 | 62.7 | 35.4 | 45.9 | 0.56 |
| Wealth quintile | | | | | | | | |
| Lowest | 2.9 | 2.5 | 2.7 | 0.88 | 4.9 | 3.2 | 4.0 | 0.64 |
| Second | 2.2 | 4.0 | 3.2 | 1.79 | 6.2 | 5.0 | 5.6 | 0.81 |
| Middle | 4.6 | 4.3 | 4.4 | 0.93 | 7.6 | 10.1 | 8.9 | 1.34 |
| Fourth | 13.5 | 12.7 | 13.0 | 0.94 | 24.0 | 17.9 | 20.6 | 0.74 |
| Highest | 40.5 | 34.4 | 36.9 | 0.85 | 67.6 | 53.2 | 59.3 | 0.79 |
| Total | 14.0 | 13.4 | 13.7 | 0.95 | 24.2 | 20.7 | 22.3 | 0.85 |

¹ The NAR for primary school is the percentage of the primary-school age (7-14 years) population that is attending primary school. The NAR for secondary school is the percentage of the secondary-school age (15-18 years) population that is attending secondary school. By definition the NAR cannot exceed 100 percent.

Figure 2.2 shows the age-specific attendance rates (ASARs) for the population age 5 and over, by sex. The ASAR indicates participation in schooling at any level, from primary to higher levels of education. Although the official minimum age for schooling in Ethiopia is age 7, some children are enrolled at younger ages. Nevertheless, only 35-39 percent of children age 7 are attending school, indicating that a large majority of children age 7 in Ethiopia have not entered the school system. However, enrolment at age 7 has improved since the 2000 EDHS, when only 15 percent of

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

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

children age 7 were attending school, and since the 2005 EDHS, when 21 percent were attending school.

There are some differences in the proportion of males and females attending school. Between ages 7-9 and 16-24, the proportion of males attending school is somewhat higher than the proportion of females, while for ages 10-15 the proportion of females attending school is either higher than or similar to the proportion of males.

Percentage
90 80 70 60 50 40 30 20 10 -

9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Figure 2.2 Age-Specific Attendance Rates of the de facto Population 5 to 24 Years

2.7 CHILD LABOUR

5

8

Article 32 of the UN Convention on the Rights of the Child recognises the right of children to be protected from economic exploitation and to be protected from performing any work that is hazardous, interferes with their education, or is harmful to their health or physical, mental, spiritual, moral, or social development (UN General Assembly, 1989). Article 32 calls on countries to establish a minimum age for admission to employment and to appropriately regulate work hours of children.

Age

To assess the extent to which children in Ethiopia are working, the 2011 EDHS included a set of questions on the participation by each child age 5-14 in the household in different types of work. The types of work included working for persons other than members of the household, working in a household business or farm, or selling goods in the street, and doing household chores.

The number of hours worked in the seven days preceding the survey was recorded for all children engaged in any type of work. For work that was done for any person not a member of the household, a question was also asked to determine whether the child was paid or not paid for the work. This information was used to calculate the percentage of children age 5-14 engaged in child labour. The definition of child labour includes (a) children age 5-11 who in the seven days preceding the survey worked for someone who is not a member of the household, with or without pay, or

EDHS 2011

engaged in any other family work or did household chores for 28 hours or more, and (b) children age 12-14 who in the seven days preceding the survey worked for someone who is not a member of the household, with or without pay, or engaged in any other family work for 14 hours or more or did household chores for 28 hours or more. This definition helps to identify the type of child work that should be eliminated in order to conform to the UN Convention on the Rights of the Child. As such, the estimate provided here is a minimum of the prevalence of child labour, since some children may be involved in hazardous labour activities for a number of hours that could be less than the numbers specified in the criteria described above.

Table 2.12 shows the percentage of de jure children age 5-14 engaged in different types of work in the seven days preceding the interview, by background characteristics. Percentages do not add up to the total for child labour, as children may be involved in more than one type of work. Overall, 27 percent of children age 5-14 in Ethiopia are involved in child labour—17 percent of children age 5-11 and 55 percent of children age 12-14. Less than 1 percent of children age 5-11 and 2 percent of children age 12-14 are engaged in paid work; 3 percent and 6 percent, respectively, are engaged in unpaid work for someone who is not a member of their household; and 14 percent and 30 percent, respectively, work for a family business. Furthermore, 18 percent of children age 5-11 and 40 percent of children age 12-14 are engaged in household chores for 28 or more hours in a week.

For all children age 5-14, the percentage engaged in labour is higher among males (31 percent) than females (24 percent). The proportion of children engaged in labour is substantially higher among rural children (30 percent) than urban children (13 percent). Among regions it varies from 7 percent of children in Addis Ababa to 42 percent in Tigray. Child labour decreases steadily with mother's education and household wealth. Only 6 percent of children of mothers who have more than secondary education are engaged in child labour, compared with 29 percent of children whose mothers have no education. Similarly, this proportion decreases from 31 percent for children in the lowest wealth quintile to 15 percent for children in the highest wealth quintile.

Table 2.12 Child labour

Percentage of the de jure children age 5-14 who were engaged in economic activity, in household chores and in child labour during the seven days preceding the survey, by background characteristics, Ethiopia 2011

| Morking outside | Working outside household* Working outside household* Activity* Hold outside hold* Paid Unpaid for family hour per Strant work work work work as 2.6 17.8 20.4 48.7 0.4 3.9 3.8 8.0 53.4 0.6 3.2 34.9 36.6 46.3 0.8 4.9 15.7 20.2 46.8 0.6 3.2 34.9 36.6 46.3 0.8 4.9 15.7 20.2 46.8 0.8 4.9 15.7 20.2 46.8 0.8 2.1 11.8 13.9 41.9 0.8 2.2 6.7 9.1 11.0 53.5 0.4 1.9 20.1 21.9 46.8 0.2 2.1 9.1 11.0 53.9 0.4 1.9 20.1 21.9 44.9 0.2 2.1 9.1 11.0 53.9 0.2 2.1 9.1 11.0 53.9 0.8 <t< th=""><th>Working outside household's household's household's work business Activity activity hold hold household's work business Avorking least one less than less than</th><th>Working outside household' household' household' working outside household' working used to household' working least one less than le</th></t<> | Working outside household's household's household's work business Activity activity hold hold household's work business Avorking least one less than | Working outside household' household' household' working outside household' working used to household' working least one less than le |
|---|---|--|---|
| Paid Unpaid forfamily from per 28 hours hours per veck work business Veck business <t< th=""><th>Paid Unpaid for family for family work hours per ber week hours per ber week hours per week hours</th><th>Paid Unpaid for family hour per 28 hours hours per work business? week per week week week business? 26 17.8 20.4 48.7 16.9 0.4 3.9 3.8 12.7 55.5 18.2 0.4 3.9 3.8 17.9 51.9 19.1 0.8 1.9 15.7 20.2 46.8 16.3 0.6 2.2 6.7 9.4 49.9 23.3 16.9 0.4 1.9 11.8 13.9 41.9 14.4 0.2 2.1 9.1 12.0 46.5 9.0 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 0.4 2.6 47.3 11.0 0.8 2.2 8.4 11.1 57.8 5.0 3.0 0.0 2.0 0.0 2.0 50.5 2.9 0.0 0.0 2.0 0.0 2.0 50.5 3.0 0.0 0.0 2.0 0.0 2.0 50.5 3.0 0.0 0.0 3.0 15.1 18.7 52.1 23.8 0.0 0.0 3.0 15.1 18.7 52.1 23.8 18.7 18.7 52.1 18.7 5</th><th>Paid Unpaid for family hour per 28 hours hours per work business? week per week week week o.4 3.9 3.8 12.7 55.5 18.2 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9</th></t<> | Paid Unpaid for family for family work hours per ber week hours per ber week hours per week hours | Paid Unpaid for family hour per 28 hours hours per work business? week per week week week business? 26 17.8 20.4 48.7 16.9 0.4 3.9 3.8 12.7 55.5 18.2 0.4 3.9 3.8 17.9 51.9 19.1 0.8 1.9 15.7 20.2 46.8 16.3 0.6 2.2 6.7 9.4 49.9 23.3 16.9 0.4 1.9 11.8 13.9 41.9 14.4 0.2 2.1 9.1 12.0 46.5 9.0 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 0.4 2.6 47.3 11.0 0.8 2.2 8.4 11.1 57.8 5.0 3.0 0.0 2.0 0.0 2.0 50.5 2.9 0.0 0.0 2.0 0.0 2.0 50.5 3.0 0.0 0.0 2.0 0.0 2.0 50.5 3.0 0.0 0.0 3.0 15.1 18.7 52.1 23.8 0.0 0.0 3.0 15.1 18.7 52.1 23.8 18.7 18.7 52.1 18.7 5 | Paid Unpaid for family hour per 28 hours hours per work business? week per week week week o.4 3.9 3.8 12.7 55.5 18.2 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9 |
| 0.8 2.6 17.8 20.4 48.7 16.9 0.4 3.9 3.8 12.7 55.5 18.2 0.6 2.6 15.3 17.9 51.9 19.1 0.6 3.2 34.9 36.6 46.3 7.2 0.8 4.9 15.7 20.2 46.8 16.3 0.8 2.2 6.7 9.1 12.0 46.5 9.0 0.4 1.9 20.1 12.0 46.5 9.0 0.2 2.1 9.1 12.0 64.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 0.4 1.9 2.1 2.1 17.0 53.9 3.6 0.4 1.9 2.1 1.0 53.9 3.6 0.4 1.0 2.2 8.4 11.1 57.8 5.8 0.5 2.6 14.8 17.2 51.4 17.2 0.7 2.6 16.6 13.5 54.9 15.6 0.9 3 3.4 12.6 50.9 2.9 0.0 2.0 0.0 2.0 50.5 3.8 0.4 1.0 2.0 50.5 3.8 | 0.8 2.6 17.8 20.4 48.7 16.9 0.4 3.9 3.8 8.0 53.4 7.6 0.6 2.6 15.3 17.9 51.9 19.1 0.6 3.2 34.9 36.6 46.3 7.2 0.8 4.9 15.7 20.2 46.8 16.3 0.8 2.2 6.7 20.2 46.8 16.3 0.8 1.9 11.8 13.9 41.9 14.4 0.4 2.7 9.1 12.0 46.5 9.0 0.2 2.1 9.1 12.0 46.5 9.0 0.2 2.1 9.1 12.0 46.5 13.8 0.4 1.0 2.2 3.5 51.0 13.8 0.4 1.0 2.2 8.4 11.1 57.8 5.8 0.7 2.6 14.8 17.2 51.4 17.2 0.7 2.6 14.8 17.2 51.4 17.2 0.7 2.6 16.6 13.5 54.9 15.6 0.7 2.6 16.6 13.5 54.9 15.6 0.8 2.0 0.0 2.0 50.5 3.0 0.6 3.6 15.2 18.7 52.1 23.8 | 0.8 2.6 17.8 20.4 48.7 16.9 0.4 3.9 3.8 8.0 53.4 7.6 0.6 2.6 15.3 17.9 51.9 19.1 0.8 4.9 15.7 20.2 46.8 16.3 0.8 4.9 15.7 20.2 46.8 16.3 0.9 2.2 6.7 9.1 12.0 46.5 14.2 0.4 2.7 9.1 12.0 46.5 14.2 0.4 2.7 9.1 12.0 46.5 19.0 0.4 2.7 9.1 12.0 46.5 19.0 0.4 2.7 9.1 12.0 46.5 19.0 0.4 1.9 2.1 9.1 1.2 11.9 51.9 14.4 0.4 1.0 2.2 8.4 11.1 57.8 5.8 0.8 2.2 8.4 11.1 57.8 5.8 0.9 2.0 0.0 2.0 50.5 3.0 0.0 2.0 0.0 2.0 50.5 3.0 0.0 3.0 17.1 19.1 48.4 17.9 0.6 3.0 17.1 19.1 48.4 17.9 0.6 3.0 15.9 18.9 53.1 18.7 0.6 3.0 15.9 18.9 53.1 18.7 0.6 3.0 15.9 18.9 53.1 18.7 | 0.8 2.6 17.8 20.4 48.7 16.9 0.4 3.0 9.8 12.7 55.5 18.2 0.6 2.6 15.3 17.9 51.9 19.1 0.6 2.2 15.7 20.2 46.8 16.9 0.8 1.9 11.8 13.9 41.9 14.4 0.4 2.7 9.1 12.0 46.5 9.0 0.4 2.1 9.1 12.0 46.5 14.2 0.4 1.0 2.2 3.5 51.0 13.8 0.8 0.2 2.1 0.4 2.6 47.3 13.8 0.0 2.2 0.1 1.1 12.0 55.9 3.6 0.4 1.0 2.2 3.5 51.0 13.8 0.4 1.0 2.2 3.5 51.0 13.8 0.7 2.6 14.8 17.2 51.4 17.2 0.0 9.3 3.4 12.6 50.9 2.9 0.6 2.0 17.1 19.1 48.4 17.9 0.6 2.0 17.1 19.1 48.4 17.9 0.6 3.0 15.9 18.9 50.1 19.8 0.6 3.0 15.9 18.9 50.1 19.8 0.6 3.0 15.9 18.9 50.1 19.8 0.6 3.0 15.9 18.6 55.0 9.3 |
| 904 3.9 3.8 8.0 53.4 7.6 19.1 10.0 10.6 3.2 34.9 36.6 46.3 7.2 10.5 1.6 15.9 17.6 33.5 16.9 19.1 10.0 10.8 4.9 15.7 20.2 46.8 16.3 10.9 11.8 13.9 44.9 23.3 10.0 2.1 9.1 12.0 46.5 9.0 14.4 19.0 2.1 9.1 12.0 46.5 9.0 14.4 19.0 2.1 9.1 11.0 53.9 3.6 10.0 13.8 10.0 2.2 10.0 14.1 17.2 51.4 | 9.4 3.9 3.8 8.0 53.4 7.6 19.1 10.0 5.3 4 17.2 51.9 19.1 10.1 10.6 3.2 34.9 36.6 46.3 7.2 10.8 4.9 15.7 20.2 46.8 16.3 10.8 1.9 11.8 13.9 41.9 14.4 10.0 2.0 2.1 21.9 64.5 14.2 10.0 2.0 2.1 21.9 64.5 14.2 10.0 2.0 2.1 21.9 64.5 14.2 10.0 2.0 3.5 51.0 13.8 10.0 2.0 0.0 2.0 50.5 51.0 13.8 10.0 2.0 0.0 2.0 50.5 3.0 2.9 10.0 2.0 2.0 50.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 904 3.9 3.8 8.0 53.4 7.6 19.1 10.0 10.6 3.2 34.9 36.6 46.3 7.2 10.5 1.6 15.9 17.6 33.5 16.9 19.1 10.8 4.9 15.7 20.2 46.8 16.9 23.3 10.8 4.9 10.4 4.9 20.1 11.8 13.9 44.9 19.3 23.3 10.0 10.2 2.1 9.1 12.0 46.5 19.0 14.4 10.0 2.2 2.1 9.1 12.0 46.5 19.0 13.8 10.0 2.2 10.4 2.6 47.3 1.0 13.8 10.0 2.0 10.0 2.0 2.0 50.5 50.9 2.9 10.1 10.0 10.0 2.0 2.0 2.0 2.0 10.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 | 9.4 3.9 3.8 8.0 53.4 7.6 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19 |
| 90-6 3.2 34.9 36.6 46.3 7.2 16.9 0.6 15.9 17.6 13.5 16.9 0.8 1.9 17.6 13.5 16.9 0.8 2.2 6.7 9.4 49.9 23.3 14.4 90.9 2.1 12.0 46.5 9.0 0.4 1.9 20.1 21.9 64.5 14.2 0.4 1.0 2.2 3.5 5.8 14.0 17.2 51.4 | 9ul- 0.6 3.2 34.9 36.6 46.3 7.2 0.8 4.9 15.7 20.2 46.8 16.9 0.8 2.2 6.7 9.4 49.9 23.3 9ul- 0.8 1.9 11.8 13.9 41.9 14.4 9ul- 0.4 2.7 9.1 12.0 46.5 9.0 0.4 1.9 20.1 21.9 64.5 14.2 0.4 1.9 20.1 21.9 64.5 14.2 0.4 1.0 2.1 9.1 11.0 53.9 3.6 0.4 1.0 0.2 2.1 9.1 11.0 53.9 3.6 0.4 1.0 0.4 1.0 2.2 3.5 51.0 13.8 0.8 2.2 8.4 11.1 57.8 5.8 0.9 0.0 9.3 3.4 12.6 50.9 2.9 0.0 2.0 0.0 2.0 50.5 3.0 0.0 2.0 2.0 2.0 50.5 3.0 0.0 15.2 18.7 52.1 23.8 0.0 15.2 18.7 52.1 23.8 | 9ul- 0.6 3.2 34.9 36.6 46.3 7.2 0.8 4.9 15.7 20.2 46.8 16.3 0.8 2.2 6.7 9.4 49.9 23.3 9ul- 0.4 2.7 9.1 12.0 46.5 9.0 0.4 1.9 20.1 21.9 64.5 14.2 0.4 1.0 20.1 21.9 64.5 14.2 0.4 1.0 2.2 3.5 51.0 13.8 0.8 2.2 8.4 11.1 57.8 5.8 0.7 2.6 10.6 13.5 54.9 15.6 0.9 3.0 15.9 18.9 50.1 19.1 0.6 3.6 17.1 19.1 48.4 17.9 0.6 3.0 15.9 18.9 50.1 19.7 0.6 3.0 15.9 18.9 50.1 19.7 | 906 3.2 34.9 36.6 46.3 7.2 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9 |
| 0.5 1.6 15.9 17.6 33.5 16.9 0.6 4.9 15.7 20.2 46.8 16.3 0.8 4.9 15.7 20.2 46.8 16.3 0.8 1.9 11.8 13.9 41.9 13.4 41.9 13.4 0.4 1.9 20.1 21.9 64.5 14.2 0.2 2.1 9.1 12.0 46.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 10.0 10.8 2.2 8.4 11.1 57.8 5.8 11.0 0.7 2.6 10.6 13.5 54.9 15.6 0.9 0.0 2.0 0.0 2.0 50.5 3.0 0.6 3.6 15.2 18.7 52.1 23.8 | 0.5 1.6 15.9 17.6 33.5 16.9 0.8 4.9 15.7 20.2 46.8 16.3 0.8 2.2 6.7 20.2 46.8 16.3 0.8 1.9 11.8 13.9 41.9 14.4 9.0 2.1 12.0 46.5 9.0 0.4 1.9 20.1 21.9 64.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 9.1 11.0 53.9 3.6 0.4 1.0 2.2 3.5 51.0 13.8 0.8 2.2 8.4 11.1 57.8 5.8 0.0 0.0 2.0 50.5 3.0 0.0 2.0 2.0 50.5 3.0 0.0 2.0 2.0 50.5 3.0 0.0 0.0 2.0 50.5 3.0 0.0 0.0 2.0 50.5 3.0 0.0 0.0 0.0 2.0 50.5 3.0 0.0 0.0 0.0 2.0 50.5 3.0 0.0 0.0 0.0 0.0 50.5 3.0 0.0 0.0 0.0 0.0 50.5 3.0 0.0 0.0 0.0 0.0 0.0 50.5 3.0 0.0 0.0 0.0 0.0 0.0 0.0 50.5 3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50.5 3.0 0.0 0.0 0.0 0.0 0.0 0.0 50.5 3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.5 1.6 15.9 17.6 33.5 16.9 0.8 4.9 15.7 20.2 46.8 16.3 0.8 2.2 6.7 20.2 46.8 16.3 0.8 1.9 11.8 13.9 41.9 14.4 904 0.4 1.9 2.1 12.0 64.5 14.2 0.2 2.1 9.1 12.0 64.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 14.2 0.4 2.2 3.5 51.0 13.8 aba 0.2 2.1 9.1 11.0 53.9 3.6 14.2 0.4 2.6 11.0 53.9 3.5 51.0 13.8 aba 0.2 2.1 8.4 11.1 57.8 5.8 aba 0.3 2.2 8.4 11.1 57.8 5.8 aba 0.4 2.6 10.6 13.5 54.9 15.6 0.0 0.0 2.0 0.0 2.0 50.5 3.0 aba 0.6 3.6 15.2 18.7 52.1 23.8 aba 0.6 3.6 15.1 18.7 52.1 23.8 aba 0.6 3.0 17.1 19.1 48.4 17.9 0.6 3.0 15.9 18.9 50.1 19.8 | 0.5 1.6 15.9 17.6 33.5 16.9 0.8 4.9 15.7 20.2 46.8 16.3 0.8 2.2 6.7 20.2 46.8 16.3 0.8 1.9 11.8 13.9 41.9 14.4 99.0 23.3 14.8 15.9 0.4 2.7 9.1 12.0 46.5 9.0 23.3 0.2 2.1 9.1 12.0 46.5 9.0 23.3 0.2 2.1 9.1 12.0 46.5 9.0 23.3 0.2 2.1 9.1 12.0 46.5 9.0 13.8 0.2 2.1 9.1 11.0 57.8 53.9 3.6 10.0 10.0 2.0 10.0 10.0 2.0 10.0 10.0 1 |
| 0.8 4.9 15.7 20.2 46.8 16.3 16.3 19.4 10.8 1.9 11.8 13.9 44.9 23.3 19.4 10.8 1.9 11.8 13.9 44.9 23.3 10.4 10.9 10.4 1.9 20.1 21.9 64.5 14.2 10.2 2.1 9.1 11.0 53.9 3.6 10.4 11.0 53.9 3.6 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8 | 0.8 4.9 15.7 20.2 46.8 16.3 16.3 19.4 10.8 4.9 15.7 20.2 46.8 16.3 16.3 19.4 10.8 1.9 11.8 13.9 44.9 23.3 10.4 10.9 10.4 1.9 10.4 1.9 10.4 10.9 10.4 10.9 10.4 10.0 10.8 10.8 10.8 10.8 10.8 10.8 10.8 | 0.8 4.9 15.7 20.2 46.8 16.3 16.3 19.4 10.8 1.9 1.0 1.8 1.3 1.9 1.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | 0.8 4.9 15.7 20.2 46.8 16.3 16.3 19.4 10.8 1.9 11.8 13.9 41.9 14.4 10.8 1.9 11.8 13.9 41.9 14.4 10.4 1.9 11.8 13.9 41.9 14.4 10.4 1.9 1.9 1.1 12.0 46.5 9.0 10.4 1.9 1.9 1.1 12.0 46.5 9.0 10.2 2.1 9.1 11.0 53.9 3.6 14.2 10.0 10.2 2.1 0.4 2.6 47.3 1.0 13.8 10.0 10.0 2.0 10.0 13.5 54.9 15.6 10.0 10.0 2.0 10.0 10.0 2.0 10.0 10.0 1 |
| gul- 0.8 1.9 11.8 13.9 41.9 14.4 0.4 2.7 9.1 12.0 64.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 9.1 11.0 53.9 3.6 0.3 2.2 8.4 11.1 57.8 5.8 tition 0.6 2.6 14.8 17.2 51.4 17.2 v 0.0 2.0 0.0 2.0 50.5 3.0 v 0.6 3.6 15.2 18.7 52.1 23.8 | gul- 0.8 1.9 11.8 13.9 41.9 14.4 gul- 0.4 2.7 9.1 12.0 46.5 9.0 0.2 2.1 9.1 11.0 64.5 14.2 0.2 2.1 9.1 11.0 64.5 14.2 0.3 2.1 9.1 11.0 53.9 3.6 1.0 2.2 3.5 51.0 13.8 aba 0.2 2.1 8.4 11.1 57.8 5.8 tition 0.6 2.6 14.8 17.2 51.4 17.2 than 0.0 2.0 0.0 2.0 50.5 3.0 y 0.0 2.0 0.0 2.0 50.5 3.0 intile | gul- 0.8 1.9 11.8 13.9 41.9 14.4 gul- 0.4 2.7 9.1 12.0 46.5 9.0 0.2 2.1 9.1 12.0 64.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 aba 0.2 2.1 9.1 11.0 53.9 3.6 aba 0.2 2.1 9.1 11.0 53.9 3.6 aba 0.2 2.1 9.1 11.0 53.9 3.6 tition 0.6 2.6 14.8 17.2 51.4 17.2 than 0.0 2.0 0.0 2.0 50.5 3.0 y 0.0 9.3 3.4 12.6 50.9 2.9 writtle 0.6 2.0 17.1 19.1 48.4 17.9 nritle 0.6 2.0 17.1 19.1 48.4 17.9 0.6 3.3 15.1 18.7 53.1 18.7 0.6 3.3 15.1 18.7 53.1 18.7 | aba 0.2 2.1 2.0 46.5 9.0 14.4 aba 0.2 2.1 9.1 12.0 46.5 9.0 3.6 0.4 1.9 1.1 2.1 2.1 46.5 9.0 1.2 1.0 0.4 1.9 1.4 2.7 9.1 12.0 46.5 9.0 1.2 1.0 0.2 2.1 0.4 2.6 47.3 1.0 13.8 aba 0.2 2.1 0.4 2.6 47.3 1.0 13.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 |
| gul- 0.4 2.7 9.1 12.0 46.5 9.0 0.4 1.9 20.1 21.9 64.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 0.4 2.6 47.3 1.0 0.8 2.2 8.4 11.1 57.8 5.8 tion 0.6 2.6 14.8 17.2 51.4 17.2 than 0.0 2.0 0.0 2.0 50.5 3.0 v 0.6 3.6 15.2 18.7 52.1 23.8 | gul- 0.4 2.7 9.1 12.0 46.5 9.0 0.4 1.9 20.1 21.9 64.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 9.1 21.0 64.5 14.2 aba 0.2 2.1 0.4 2.6 47.3 1.0 a 0.8 2.2 8.4 11.1 57.8 5.8 tion 0.6 2.6 14.8 17.2 51.4 17.2 than 0.0 2.0 0.0 2.0 50.5 3.0 y 0.0 2.0 0.0 2.0 50.5 3.0 intile | gul- 0.4 2.7 9.1 12.0 46.5 9.0 0.4 1.9 20.1 21.9 64.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 0.4 2.6 47.3 1.0 0.8 2.2 8.4 11.1 57.8 5.8 tition 0.6 2.6 14.8 17.2 51.4 17.2 y 0.0 2.0 0.0 2.0 50.5 3.0 y 0.6 3.6 15.2 18.7 52.1 23.8 intile 0.6 2.0 17.1 19.1 48.4 17.9 0.6 3.3 15.1 18.7 52.1 18.7 0.6 3.3 15.1 18.7 52.1 18.7 0.6 3.3 15.1 18.7 0.6 3.5 18.7 0.6 3.5 18.7 0.7 1 | gul- 0.4 2.7 9.1 12.0 46.5 9.0 0.4 1.9 20.1 21.9 64.5 14.2 0.2 2.1 9.1 11.0 53.9 3.6 0.2 2.1 0.4 2.6 47.3 14.2 a 0.8 2.2 8.4 11.1 57.8 5.8 tition 0.6 2.6 14.8 17.2 51.4 17.2 than 0.0 2.0 0.0 2.0 50.5 3.0 y 0.0 2.0 17.1 19.1 48.4 17.9 0.6 3.3 15.1 18.6 50.1 19.8 0.6 2.0 17.1 19.1 48.4 17.9 0.6 3.3 15.1 18.6 50.1 19.8 0.6 2.1 13.6 55.0 9.3 0.7 17.1 19.1 48.4 17.9 0.8 3.3 15.1 18.6 50.9 0.9 3.0 15.9 18.9 50.1 19.8 0.6 2.0 17.1 19.1 48.4 17.9 0.6 3.1 13.6 55.0 9.3 |
| 0.4 1.9 20.1 21.9 64.5 14.2 21.9 0.0 2.1 21.9 64.5 14.2 21.9 0.0 2.1 21.9 64.5 14.2 21.9 0.0 2.1 21.9 64.5 14.2 21.9 0.0 2.0 0.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 | aba 0.2 2.1 21.9 64.5 14.2 14.2 aba 0.2 2.1 0.4 2.6 47.3 1.0 1.0 2.2 3.5 51.0 13.8 1.0 aba 0.2 2.1 0.4 2.6 47.3 1.0 13.8 1.0 above 0.2 2.1 0.4 2.6 47.3 1.0 13.8 1.0 above 0.7 2.6 14.8 17.2 51.4 17.2 10.0 0.7 2.6 10.6 13.5 54.9 15.6 y than 0.0 2.0 0.0 2.0 50.5 3.0 y 0.6 3.6 15.2 18.7 52.1 23.8 intile | aba 0.2 2.1 9.1.9 64.5 14.2 21.9 0.2 2.1 9.1 11.0 53.9 3.6 11.0 0.2 2.1 0.4 2.6 47.3 1.0 2.6 11.0 0.8 2.2 8.4 11.1 57.8 5.8 11.1 11.0 0.7 2.6 10.6 13.5 54.9 15.6 13.5 14.0 0.0 2.0 0.0 2.0 50.5 3.0 2.0 0.0 3.6 15.2 18.7 52.1 23.8 18.7 18.7 19.1 18.9 50.1 19.8 18.9 18.7 19.1 18.9 50.1 19.8 18.9 18.7 18.9 18.9 18.7 18.9 18.7 18.9 18.9 18.9 18.7 18.9 18.9 18.7 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9 | aba 0.2 2.1 21.9 64.5 14.2 21.9 64.5 0.4 20.1 21.9 64.5 14.2 21.9 0.4 2.1 21.9 64.5 14.2 21.9 0.4 2.1 21.0 53.9 3.6 11.0 0.4 2.1 0.4 2.6 47.3 1.0 2.6 11.0 2.6 47.3 0.0 2.6 14.8 17.2 51.4 17.2 17.2 17.2 17.0 0.0 9.3 3.4 12.6 50.9 2.9 12.6 14.8 17.1 19.1 48.4 17.9 19.1 19.1 19.1 19.8 18.9 19.1 10.0 2.0 17.1 19.1 48.4 17.9 19.1 19.1 19.8 18.9 10.6 3.3 15.1 18.2 53.6 19.5 15.6 19.1 19.8 18.9 10.5 3.9 4.4 8.6 55.0 9.3 8.6 |
| aba 0.2 2.1 9.1 11.0 53.9 3.6 11.0 0.4 1.0 0.4 1.0 0.5 2.2 3.5 51.0 13.8 3.5 11.0 a.8 0.2 2.1 0.4 2.6 47.3 1.0 2.6 a.0.8 2.2 8.4 11.1 57.8 5.8 11.1 ation 0.6 2.6 14.8 17.2 51.4 17.2 17.2 17.2 0.7 2.6 10.6 13.5 54.9 15.6 13.5 than 0.0 2.0 0.0 2.0 50.5 3.0 2.0 12.6 than 0.6 3.6 15.2 18.7 52.1 23.8 18.7 18.7 | aba 0.2 2.1 9.1 11.0 53.9 3.6 aba 0.2 2.1 0.4 2.6 47.3 1.0 a 0.8 2.2 8.4 11.1 57.8 5.8 tion 0.6 2.6 14.8 17.2 51.4 17.2 by 0.0 9.3 3.4 12.6 50.9 2.9 than 0.0 2.0 0.0 2.0 50.5 3.0 y 0.6 3.6 15.2 18.7 52.1 23.8 intile | aba 0.2 2.1 9.1 11.0 53.9 3.6 11.0 0.4 1.0 0.2 2.5 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.6 47.3 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2 | aba 0.2 2.1 9.1 11.0 53.9 3.6 a 0.2 2.1 0.4 2.6 47.3 1.0 a 0.8 2.2 8.4 11.1 57.8 5.8 intion 0.6 2.6 14.8 17.2 51.4 17.2 than 0.0 2.0 0.0 2.0 50.5 3.0 y o.0 2.0 17.1 19.1 48.4 17.9 intile 0.6 2.0 17.1 19.1 48.4 17.9 0.6 3.3 15.1 18.2 53.6 18.7 0.6 3.3 15.1 18.2 53.6 18.7 0.6 3.3 15.1 18.2 53.6 18.7 0.6 3.3 15.1 8.6 55.0 9.3 |
| aba 0.2 2.1 0.4 2.6 47.3 1.0 2.6 aba 0.8 2.2 8.4 11.1 57.8 5.8 11.1 ation 0.6 2.6 14.8 17.2 51.4 17.2 17.2 by 0.0 9.3 3.4 12.6 50.9 2.9 12.6 than 0.0 2.0 0.0 2.0 50.5 3.0 2.0 v 0.6 3.6 15.2 18.7 52.1 23.8 18.7 | aba 0.2 2.1 0.4 26 47.3 1.0 above 0.8 2.2 8.4 11.1 57.8 5.8 5.8 tion 0.6 2.6 14.8 17.2 51.4 17.2 than 0.0 9.3 3.4 12.6 50.9 2.9 than 0.0 2.0 0.0 2.0 50.5 3.0 y 0.6 3.6 15.2 18.7 52.1 23.8 initile | aba 0.2 2.1 0.4 2.6 47.3 1.0 2.6 and 0.8 2.2 8.4 11.1 57.8 5.8 11.1 2.6 and 0.7 2.0 and 0. | aba 0.2 2.1 0.4 2.6 47.3 1.0 2.6 and 0.8 2.2 8.4 11.1 57.8 5.8 11.1 ation 0.6 2.6 14.8 17.2 51.4 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 |
| a 0.8 2.2 8.4 11.1 57.8 5.8 11.1 tion 0.6 2.6 14.8 17.2 51.4 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 | a 0.8 2.2 8.4 11.1 57.8 5.8 title 0.0 2.0 0.0 2.0 50.5 3.0 y 0.0 3.6 15.2 18.7 52.1 23.8 intile | a 0.8 2.2 8.4 11.1 57.8 5.8 11.1 title 0.6 2.6 14.8 17.2 51.4 17.2 17.2 1 17.2 17.2 1 | a 0.8 2.2 8.4 11.1 57.8 5.8 11.1 titlen 0.6 2.6 14.8 17.2 51.4 17.2 17.2 1 17.2 |
| tition 0.6 2.6 14.8 17.2 51.4 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 | vition 0.6 2.6 14.8 17.2 51.4 17.2 ry 0.7 2.6 10.6 13.5 54.9 15.6 ry 0.0 9.3 3.4 12.6 50.9 2.9 rhan 0.0 2.0 0.0 2.0 50.5 3.0 y 0.6 3.6 15.2 18.7 52.1 23.8 intile | tition 0.6 2.6 14.8 17.2 51.4 17.2 17.2 1 17 | trion 0.6 2.6 14.8 17.2 51.4 17.2 17.2 1 0.7 2.6 10.6 13.5 54.9 15.6 13.5 14.0 17.2 17.2 1 1.2 |
| on 0.5 2.6 14.8 17.2 51.4 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 | 0.0 2.0 14.8 17.2 51.4 17.2 0.0 2.0 0.0 2.0 0.0 2.0 50.9 2.9 0.0 0.0 2.0 50.5 3.0 0.0 3.6 15.2 18.7 52.1 23.8 | 0.0 2.0 14.6 17.2 17.2 1 0.0 2.0 0.0 2.0 50.5 54.9 15.6 12.6 12.6 12.6 12.6 12.6 12.6 12.6 12 | 0.0 2.0 14.8 17.2 14.2 17.2 1 0.0 2.0 0.0 2.0 50.9 2.9 12.6 12.6 12.6 12.6 12.6 12.6 12.6 12.6 |
| han 0.0 2.0 0.0 2.0 50.5 3.0 2.0 0.6 3.6 15.2 18.7 52.1 23.8 18.7 | 0.0 2.0 0.0 2.0 50.5 3.0 0.6 3.6 15.2 18.7 52.1 23.8 | 0.0 2.0 0.0 2.0 50.5 3.0 2.0 0.0 0.0 2.0 50.5 3.0 2.0 0.0 0.0 3.6 15.2 18.7 52.1 23.8 18.7 0.0 0.0 3.0 17.1 19.1 48.4 17.9 19.1 0.0 3.0 15.9 18.9 50.1 19.8 18.9 0.0 3.3 15.1 18.2 53.6 18.2 | 0.0 2.0 0.0 2.0 50.5 2.0 50.5 3.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 |
| 0.0 2.0 0.0 2.0 50.5 3.0 0.6 3.6 15.2 18.7 52.1 23.8 | 0.0 2.0 0.0 2.0 50.5 3.0 0.6 3.6 15.2 18.7 52.1 23.8 | 0.0 2.0 0.0 2.0 50.5 3.0 2.0 0.6 3.6 15.2 18.7 52.1 23.8 18.7 18.7 52.1 23.8 18.7 18.7 19.1 19.1 48.4 17.9 19.1 10.6 3.3 15.1 18.2 53.6 18.7 18.2 | 0.0 2.0 0.0 2.0 50.5 3.0 2.0 0.0 0.0 2.0 48.7 52.1 23.8 18.7 18.7 52.1 23.8 18.7 18.7 52.1 23.8 18.7 18.7 18.2 18.9 19.1 19.6 15.6 55.0 9.3 8.6 55.0 9.3 8.6 |
| | | 0.6 2.0 17.1 19.1 48.4 17.9 0.9 3.0 15.9 18.9 50.1 19.8 0.8 18.1 18.2 5.3 6 18.7 18.7 18.7 5.3 6 18.7 18.7 5.3 6 18.7 18.7 5.3 6 18.7 18.7 5.3 6 18.7 18.7 5.3 6 18.7 5.2 6 18.7 5.2 6 18.7 5.2 6 18.7 5.2 6 18.7 5.2 6 18.7 | 0.6 2.0 17.1 19.1 48.4 17.9 0.9 3.0 15.9 18.9 50.1 19.8 0.6 3.3 15.1 18.2 53.6 18.7 0.4 2.1 13.6 54.4 19.6 0.5 3.9 4.4 8.6 55.0 9.3 |

¹ Any work, paid or unpaid, for someone who is not a member of the household
² Includes any work in a family business, on the farm, or selling goods in the street
³ Encludes any work in a family business, on the farm, or selling goods in the street
⁴ Chief and or unpaid, for someone who is not a member of the household, with or without pay, or engaged in any other family work or did household chores for 28 or more hours,
⁴ Chief labour includes (a) children 5-11 years who in the 7 days preceding the survey, worked for someone who is not a member of the household, with or without pay, or engaged in any other family work for 14 or more hours or did household chores for 28 or more hours
⁵ Includes children of mothers whose educational status is missing, unknown, or who do not live in the household.

Key Findings

- About half of women 15-49 (51 percent) and one-third of men 15-59 (33 percent) have no formal education. These proportions have decreased since the 2005 EDHS, when 66 percent of women and 43 percent of men had no formal education.
- Thirty-eight percent of women 15-49 and 65 percent of men 15-59 are literate, an increase from 29 percent and 59 percent, respectively, in 2005.
- Sixty-eight percent of women and 53 percent of men age 15-49 are not exposed to any mass media.
- Fifty-eight percent of women were employed in the 12 months preceding the survey. The largest group of these women (46 percent) worked in the agricultural sector.
- Three in every ten working women received no pay of any kind.

his chapter provides a demographic and socioeconomic profile of respondents interviewed in the 2011 EDHS. Such background information is essential to interpreting the findings and understanding the results presented later in this report. Basic characteristics collected include age, level of education, marital status, religion, ethnicity, and wealth status. The EDHS also examined literacy status and exposure to mass media and collected detailed information on employment status, occupation, and earnings. In addition, this chapter includes a discussion of tobacco use, alcohol consumption and chewing *chat*, all of which have important health implications.

3.1 CHARACTERISTICS OF SURVEY RESPONDENTS

Table 3.1 shows the percent distribution of women and men age 15-49 by their background characteristics. About six in every ten women (61 percent) and men age 15-49 (60 percent) are under age 30. In general, the proportion of women and men in each age group declines as age increases, reflecting the comparatively young age structure of the population in Ethiopia, which is a result of high fertility in the past.

By religious affiliation about half of the respondents (48 percent of both women and men) are Orthodox Christians, and about three in every ten (28 percent of women and 30 percent of men) are Muslims. Protestants account for 22 percent of women and 19 percent of men.

By ethnic composition about one-third of respondents (33 percent of women and 36 percent of men) belong to the Oromo ethnic group, and similar proportions (33 percent of women and 32 percent of men) are Amharas. Tigraways constitute 7 percent of women and 6 percent of men. While there are more than 80 ethnic groups in Ethiopia, most are small in number and, therefore, are not shown separately but are grouped under the category 'Other'.

The majority of respondents (62 percent of women and 54 percent of men) are married or living together. The proportion not currently married varies by gender. A much lower percentage of women (27 percent) than men (44 percent) have never married. Women are more likely than men to be divorced, separated, or widowed (11 percent versus 3 percent).

A person's place of residence, whether rural or urban, determines access to services and information about reproductive health and other aspects of life. Over three-quarters of respondents live in rural areas—76 percent of women and 78 percent of men.

More than eight respondents in every ten (83 percent of women and 84 percent of men) live in three major regions: Amhara, Oromiya, and the Southern Nations, Nationalities, and People's (SNNP) region. Respondents in Tigray (6-7 percent), Addis Ababa (5 percent), and Somali (2 percent) constitute considerably lower proportions of survey respondents.

| Table 3.1 Background of | | | | karound obor | actoriation Ct | hionia 2011 |
|---|--|---|---|--|--|---|
| Percent distribution of w | omen and me | Women | by selected bac | kground char | Men | niopia 2011 |
| Background characteristic | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 24.3 17.7 19.1 12.4 11.6 7.6 7.2 | 4,009 2,931 3,147 2,054 1,916 1,261 1,196 | 3,835 3,022 3,185 2,100 1,958 1,314 1,101 | 23.5 18.1 17.9 11.6 12.8 8.7 7.4 | 3,013 2,319 2,297 1,483 1,648 1,121 952 | 2,832 2,330 2,274 1,682 1,579 1,210 961 |
| Religion Orthodox Catholic Protestant Muslim Traditional Missing Ethnicity | 47.5 1.1 22.0 27.8 0.8 0.1 | 7,847 179 3,634 4,588 128 13 | 6,995 177 2,936 6,170 93 8 | 47.8 0.9 19.2 29.6 0.8 0.0 | 6,140 120 2,459 3,796 96 2 | 5,514 125 2,071 4,876 87 2 |
| Affar Amhara Guragie Nuwer Oromo Sidamo Somali Tigray Welaita Other Missing | 0.7 32.5 3.1 0.1 32.5 3.6 1.9 6.9 3.2 15.1 0.4 | 110 5,364 520 12 5,362 602 316 1,134 528 2,501 66 | 1,055 4,232 692 364 3,853 380 969 1,838 344 2,715 73 | 0.6 31.7 2.7 0.1 35.9 3.8 1.8 6.4 2.9 13.9 0.4 | 73 4,064 345 8 4,607 487 225 820 368 1,788 50 | 699 3,264 513 219 3,280 336 741 1,354 277 2,133 52 |
| Marital status Never married Married Living together Divorced/separated Widowed | 27.1 58.1 4.2 7.4 3.2 | 4,469 9,594 694 1,222 536 | 4,413 9,478 726 1,317 581 | 43.6 51.5 2.0 2.5 0.3 | 5,600 6,610 261 322 41 | 5,641 6,427 348 383 69 |
| Residence Urban Rural | 23.9 76.1 | 3,947 12,568 | 5,329 11,186 | 22.5 77.5 | 2,882 9,952 | 3,915 8,953 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 6.7 0.9 26.8 36.4 2.0 1.1 19.6 0.4 0.3 5.4 | 1,104 145 4,433 6,011 329 174 3,236 69 49 896 69 | 1,728 1,291 2,087 2,135 914 1,259 2,034 1,130 1,101 1,741 1,095 | 6.0 0.8 27.1 38.6 1.9 1.1 18.0 0.5 0.3 5.3 0.4 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 |
| Education No education Primary Secondary More than secondary | 50.8 38.0 6.8 4.4 | 8,394 6,276 1,117 728 | 8,278 5,858 1,395 984 | 29.5 53.1 10.1 7.3 | 3,785 6,813 1,296 940 | 3,659 6,334 1,565 1,310 |
| Wealth quintile Lowest Second Middle Fourth Highest Total 15-49 50-59 Total 15-59 | 18.1 18.4 18.4 19.5 25.7 100.0 na | 2,986 3,041 3,031 3,215 4,242 16,515 na | 3,711 2,402 2,268 2,505 5,629 16,515 na | 16.7 18.4 19.1 20.9 24.9 100.0 na | 2,141 2,362 2,454 2,683 3,194 12,834 1,276 14,110 | 2,563 1,891 1,935 2,203 4,276 12,868 1,242 14,110 |

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

na = Not applicable

Education is an important factor influencing an individual's attitudes and opportunities. Generally, educational attainment in Ethiopia is low among both men and women, although women are much more disadvantaged than men. About half of women 15-49 (51 percent) and one-third of men 15-59 (33 percent) have no formal education. The corresponding figures in the 2005 EDHS were 66 percent for women and 43 percent for men, evidence that education has become more widespread over the past six years. A notably higher proportion of men than women have primary education (53 percent of men compared with 38 percent of women) or secondary education and higher (18 percent of men compared with 11 percent of women).

3.2 EDUCATIONAL ATTAINMENT BY BACKGROUND CHARACTERISTICS

Tables 3.2.1 and 3.2.2 show the relationship between respondents' level of education and their other background characteristics. As mentioned, men are better educated than women. The percentage of women with no education decreases steadily by age group, from 85 percent among women age 45-49 to 17 percent among women age 15-19, suggesting an improvement in women's education over time. Six rural women in every ten (60 percent) have no education, compared with about two urban women in every ten (22 percent). The urban-rural difference is also pronounced at the secondary or higher levels. For example, only 4 percent of women in rural areas have secondary or higher education, compared with 35 percent of urban women. Women's educational attainment also differs among regions. The highest proportions of women with no education are in the Affar and Somali regions (75 and 74 percent, respectively), and the lowest is in Addis Ababa (15 percent).

Access to education increases with women's wealth. Seven women in every ten in the lowest wealth quintile (72 percent) have no education, compared with just two women in every ten in the highest wealth quintile (21 percent). Furthermore, women in the highest wealth quintile have had substantially more opportunity to move beyond the primary level of education than other women. More than one-third of women in the highest wealth quintile (35 percent) have attended or completed secondary or higher levels of education, compared with 1-6 percent of women in the lowest four wealth quintiles.

The pattern of educational attainment among men is similar to that of women. At every level of education, however, a higher percentage of men, than women, are educated. This gender disparity is more marked at higher than at lower levels of education, indicating the government's recognition and successful intervention in recent years to address gender disparity in basic education.

Table 3.2.1 Educational attainment: Women

Percent distribution of women age 15-49 by highest level of schooling attended or completed, and median years completed, by background characteristics, Ethiopia 2011

| Highest level of school | | | | | g | | | Median | Weighted | Unweighted |
|---------------------------|--------------|--------------|--------------------------------|----------------|----------------------------------|---------------------|-------|-----------------|-----------------|-----------------|
| Background characteristic | No education | Some primary | Completed primary ¹ | Some secondary | Completed secondary ² | More than secondary | Total | years completed | number of women | number of women |
| Age | | | | | | | | | | |
| 15-24 | 26.1 | 50.5 | 7.0 | 10.5 | 0.4 | 5.7 | 100.0 | 3.6 | 6,940 | 6,857 |
| 15-19 | 17.3 | 61.6 | 8.6 | 9.9 | 0.2 | 2.4 | 100.0 | 4.2 | 4,009 | 3,835 |
| 20-24 | 38.0 | 35.2 | 4.8 | 11.3 | 0.5 | 10.2 | 100.0 | 2.2 | 2,931 | 3,022 |
| 25-29 | 60.7 | 26.9 | 2.5 | 4.2 | 0.9 | 4.8 | 100.0 | 0.0 | 3,147 | 3,185 |
| 30-34 | 67.0 | 22.8 | 1.6 | 2.8 | 1.7 | 4.1 | 100.0 | 0.0 | 2,054 | 2,100 |
| 35-39 | 67.4 | 23.7 | 2.5 | 1.5 | 2.0 | 2.9 | 100.0 | 0.0 | 1,916 | 1,958 |
| 40-44 | 78.4 | 15.8 | 1.0 | 1.5 | 1.2 | 2.2 | 100.0 | 0.0 | 1,261 | 1,314 |
| 45-49 | 85.0 | 11.7 | 1.0 | 0.5 | 0.5 | 1.3 | 100.0 | 0.0 | 1,196 | 1,101 |
| Residence | | | | | | | | | | |
| Urban | 22.2 | 33.2 | 9.4 | 16.7 | 3.5 | 15.0 | 100.0 | 6.3 | 3,947 | 5,329 |
| Rural | 59.8 | 34.2 | 2.3 | 2.5 | 0.1 | 1.1 | 100.0 | 0.0 | 12,568 | 11,186 |
| Region | | | | | | | | | | |
| Tigray | 49.4 | 32.3 | 6.0 | 8.4 | 0.8 | 3.2 | 100.0 | 0.0 | 1,104 | 1,728 |
| Affar | 74.6 | 15.6 | 3.0 | 3.9 | 0.5 | 2.4 | 100.0 | 0.0 | 145 | 1,291 |
| Amhara | 61.4 | 25.9 | 3.5 | 4.8 | 0.4 | 4.0 | 100.0 | 0.0 | 4,433 | 2,087 |
| Oromiya | 49.4 | 36.9 | 4.4 | 5.1 | 0.5 | 3.6 | 100.0 | 0.0 | 6,011 | 2,135 |
| Somali | 74.2 | 19.3 | 1.4 | 3.5 | 0.4 | 1.2 | 100.0 | 0.0 | 329 | 914 |
| Benishangul-Gumuz | 57.7 | 30.0 | 2.9 | 3.7 | 0.4 | 5.3 | 100.0 | 0.0 | 174 | 1,259 |
| SNNP | 46.6 | 42.2 | 2.8 | 4.9 | 0.4 | 3.1 | 100.0 | 0.4 | 3,236 | 2,034 |
| Gambela | 30.7 | 49.3 | 6.9 | 6.1 | 0.2 | 6.7 | 100.0 | 3.3 | 69 | 1,130 |
| Harari | 35.6 | 28.4 | 5.7 | 10.4 | 6.1 | 13.9 | 100.0 | 4.5 | 49 | 1,101 |
| Addis Ababa | 14.9 | 34.6 | 7.1 | 17.4 | 7.8 | 18.3 | 100.0 | 7.1 | 896 | 1,741 |
| Dire Dawa | 37.0 | 29.7 | 5.5 | 12.1 | 3.7 | 12.0 | 100.0 | 4.2 | 69 | 1,095 |
| Wealth quintile | | | | | | | | | | |
| Lowest | 72.4 | 25.9 | 0.9 | 0.8 | 0.0 | 0.0 | 100.0 | 0.0 | 2,986 | 3,711 |
| Second | 65.5 | 31.3 | 1.7 | 1.3 | 0.0 | 0.2 | 100.0 | 0.0 | 3,041 | 2,402 |
| Middle | 61.7 | 33.6 | 1.8 | 2.4 | 0.1 | 0.4 | 100.0 | 0.0 | 3,031 | 2,268 |
| Fourth | 45.9 | 43.9 | 4.4 | 4.4 | 0.0 | 1.3 | 100.0 | 0.5 | 3,215 | 2,505 |
| Highest | 21.1 | 34.3 | 9.3 | 16.2 | 3.4 | 15.7 | 100.0 | 6.3 | 4,242 | 5,629 |
| Total | 50.8 | 34.0 | 4.0 | 5.9 | 0.9 | 4.4 | 100.0 | 0.0 | 16,515 | 16,515 |

¹ Completed 8 grades at the primary level ² Completed 4 grades at the secondary level

Table 3.2.2 Educational attainment: Men

Percent distribution of men age 15-49 by highest level of schooling attended or completed, and median years completed, according to background characteristics, Ethiopia 2011

| | | Highest level of schooling | | | | | | Median | Weighted | Unweighted |
|-------------------|-----------|----------------------------|----------------------|-----------|------------------------|-----------|-------|-----------|-----------|------------|
| Background | No | Some | Completed | Some | Completed | More than | | years | number of | number of |
| characteristic | education | primary | primary ¹ | secondary | secondary ² | secondary | Total | completed | women | women |
| Age | | | | | | | | | | _ |
| 15-24 | 15.1 | 58.2 | 7.4 | 13.1 | 0.2 | 6.0 | 100.0 | 4.6 | 5,332 | 5,162 |
| 15-19 | 12.9 | 66.1 | 7.8 | 11.2 | 0.1 | 1.9 | 100.0 | 4.4 | 3,013 | 2,832 |
| 20-24 | 17.8 | 48.0 | 6.9 | 15.7 | 0.4 | 11.3 | 100.0 | 5.0 | 2,319 | 2,330 |
| 25-29 | 32.8 | 39.2 | 5.8 | 8.8 | 1.0 | 12.5 | 100.0 | 2.8 | 2,297 | 2,274 |
| 30-34 | 37.8 | 39.4 | 5.6 | 6.3 | 2.0 | 8.9 | 100.0 | 1.8 | 1,483 | 1,682 |
| 35-39 | 41.8 | 41.7 | 4.0 | 4.0 | 3.6 | 4.9 | 100.0 | 1.3 | 1,648 | 1,579 |
| 40-44 | 44.4 | 38.8 | 5.3 | 4.1 | 1.9 | 5.4 | 100.0 | 0.9 | 1,121 | 1,210 |
| 45-49 | 50.6 | 36.5 | 2.2 | 3.0 | 1.6 | 6.1 | 100.0 | 0.0 | 952 | 961 |
| Residence | | | | | | | | | | |
| Urban | 8.2 | 32.0 | 10.1 | 21.5 | 4.6 | 23.6 | 100.0 | 8.0 | 2,882 | 3,915 |
| Rural | 35.7 | 51.6 | 4.7 | 5.2 | 0.3 | 2.6 | 100.0 | 2.0 | 9,952 | 8,953 |
| Region | | | | | | | | | | |
| Tigray | 30.7 | 45.2 | 6.1 | 8.7 | 0.6 | 8.7 | 100.0 | 2.9 | 770 | 1,235 |
| Affar | 48.9 | 27.9 | 6.2 | 7.2 | 2.2 | 7.5 | 100.0 | 0.2 | 101 | 910 |
| Amhara | 45.1 | 39.0 | 4.4 | 7.0 | 0.6 | 3.9 | 100.0 | 0.8 | 3,481 | 1,739 |
| Oromiya | 26.1 | 51.5 | 6.7 | 8.1 | 0.5 | 7.0 | 100.0 | 3.1 | 4,957 | 1,889 |
| Somali | 42.4 | 36.1 | 5.5 | 7.7 | 1.7 | 6.7 | 100.0 | 1.0 | 245 | 653 |
| Benishangul-Gumuz | 31.6 | 49.2 | 5.3 | 7.1 | 0.2 | 6.6 | 100.0 | 2.7 | 138 | 1,047 |
| SNNP | 19.0 | 58.9 | 4.9 | 9.2 | 1.2 | 6.8 | 100.0 | 4.1 | 2,307 | 1,550 |
| Gambela | 12.8 | 44.7 | 9.4 | 15.7 | 3.3 | 14.1 | 100.0 | 6.1 | 59 | 865 |
| Harari | 13.0 | 35.4 | 9.5 | 16.5 | 4.3 | 21.4 | 100.0 | 7.2 | 40 | 898 |
| Addis Ababa | 4.1 | 28.7 | 10.0 | 22.2 | 10.1 | 24.9 | 100.0 | 9.1 | 682 | 1,237 |
| Dire Dawa | 16.1 | 31.6 | 8.4 | 14.9 | 6.1 | 23.0 | 100.0 | 7.3 | 53 | 845 |
| Wealth quintile | | | | | | | | | | |
| Lowest | 50.8 | 44.9 | 1.7 | 2.0 | 0.1 | 0.4 | 100.0 | 0.0 | 2,141 | 2,563 |
| Second | 40.7 | 52.0 | 3.7 | 3.2 | 0.0 | 0.4 | 100.0 | 1.1 | 2,362 | 1,891 |
| Middle | 34.9 | 54.9 | 5.2 | 3.4 | 0.2 | 1.4 | 100.0 | 1.9 | 2,454 | 1,935 |
| Fourth | 23.9 | 55.9 | 6.1 | 10.5 | 0.4 | 3.2 | 100.0 | 3.7 | 2,683 | 2,203 |
| Highest | 7.5 | 32.0 | 10.6 | 20.4 | 4.4 | 25.1 | 100.0 | 8.0 | 3,194 | 4,276 |
| Total 15-49 | 29.5 | 47.2 | 5.9 | 8.9 | 1.3 | 7.3 | 100.0 | 3.2 | 12,834 | 12,868 |
| 50-59 | 63.6 | 28.2 | 2.0 | 1.7 | 0.8 | 3.7 | 100.0 | 0.0 | 1,276 | 1,242 |
| Total 15-59 | 32.6 | 45.5 | 5.5 | 8.2 | 1.2 | 7.0 | 100.0 | 2.8 | 14,110 | 14,110 |

Completed 8 grades at the primary level

3.3 LITERACY

The ability to read and write is an important asset, enabling individuals to have more opportunities in life. Knowing the distribution of the literate population can help managers of social programmes, including programmes in health and family planning, to decide how to reach women and men with health messages and other information.

In the 2011 EDHS, literacy status was determined by the respondents' ability to read all or part of a sentence. To test respondents' literacy, during data collection interviewers carried a set of cards on which simple sentences were printed in five of the major languages spoken in Ethiopia. Only women and men who had never been to school and those who had not completed primary level education were asked to read the cards, in the language they were most likely able to read; those who had attained middle school or above were assumed to be literate.

As Table 3.3.1 indicates, 38 percent of women are literate, an increase from 29 percent in 2005. Literacy among women varies greatly by age, increasing sharply from 13 percent among women age 45-49 to 64 percent among women age 15-19. Literacy is much higher in urban areas than rural areas. About seven urban women in every ten (69 percent) are literate compared with about three rural women in every ten (29 percent).

² Completed 4 grades at the secondary level

Table 3.3.1 Literacy: Women

Percent distribution of women age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Ethiopia 2011

| | No schooling or primary school | | | | | | | | | | |
|---------------------------|----------------------------------|---------------------------|-----------------------------|--------------------|---|--------------------------------|---------|-------|-------------------------------------|--------------------------|----------------------------|
| Background characteristic | Secondary school or higher | Can read a whole sentence | Can read part of a sentence | Cannot read at all | No card with required language | Blind/ visually impaired | Missing | Total | Percentage literate ¹ | Weighted number of women | Unweighted number of women |
| Age | | | | | | | | | | | |
| 15-24 | 16.5 | 27.7 | 12.8 | 39.2 | 3.2 | 0.0 | 0.6 | 100.0 | 56.9 | 6,940 | 6,857 |
| 15-19 | 12.5 | 36.9 | 14.3 | 31.3 | 4.0 | 0.0 | 1.0 | 100.0 | 63.7 | 4,009 | 3,835 |
| 20-24 | 21.9 | 15.1 | 10.8 | 50.1 | 2.0 | 0.0 | 0.2 | 100.0 | 47.8 | 2,931 | 3,022 |
| 25-29 | 9.9 | 9.5 | 8.3 | 70.2 | 1.8 | 0.0 | 0.2 | 100.0 | 27.8 | 3,147 | 3,185 |
| 30-34 | 8.6 | 8.9 | 9.8 | 72.1 | 0.7 | 0.0 | 0.0 | 100.0 | 27.2 | 2,054 | 2,100 |
| 35-39 | 6.4 | 11.0 | 10.2 | 71.9 | 0.4 | 0.1 | 0.0 | 100.0 | 27.6 | 1,916 | 1,958 |
| 40-44 | 4.9 | 6.8 | 9.6 | 78.0 | 0.2 | 0.5 | 0.0 | 100.0 | 21.4 | 1,261 | 1,314 |
| 45-49 | 2.3 | 3.5 | 7.3 | 86.3 | 0.1 | 0.5 | 0.0 | 100.0 | 13.1 | 1,196 | 1,101 |
| Residence | | | | | | | | | | | |
| Urban | 35.2 | 24.7 | 9.2 | 28.9 | 1.2 | 0.0 | 0.9 | 100.0 | 69.0 | 3,947 | 5,329 |
| Rural | 3.6 | 14.0 | 11.1 | 69.0 | 2.0 | 0.1 | 0.1 | 100.0 | 28.8 | 12,568 | 11,186 |
| Region | | | | | | | | | | | |
| Tigray | 12.3 | 24.0 | 8.7 | 54.7 | 0.1 | 0.0 | 0.2 | 100.0 | 45.0 | 1,104 | 1,728 |
| Affar | 6.8 | 8.3 | 5.2 | 78.5 | 0.8 | 0.0 | 0.4 | 100.0 | 20.3 | 145 | 1,291 |
| Amhara | 9.2 | 18.8 | 8.4 | 62.7 | 0.1 | 0.1 | 0.7 | 100.0 | 36.4 | 4,433 | 2,087 |
| Oromiya | 9.2 | 15.7 | 13.0 | 60.7 | 1.1 | 0.1 | 0.2 | 100.0 | 38.0 | 6,011 | 2,135 |
| Somali | 5.1 | 7.3 | 7.4 | 76.3 | 3.9 | 0.0 | 0.0 | 100.0 | 19.8 | 329 | 914 |
| Benishangul-Gumuz | 9.4 | 12.3 | 7.7 | 65.5 | 4.7 | 0.0 | 0.4 | 100.0 | 29.4 | 174 | 1,259 |
| SNNP | 8.4 | 11.8 | 10.8 | 63.0 | 5.8 | 0.1 | 0.1 | 100.0 | 30.9 | 3,236 | 2,034 |
| Gambela | 13.0 | 16.1 | 7.2 | 47.5 | 15.7 | 0.2 | 0.3 | 100.0 | 36.3 | 69 | 1,130 |
| Harari | 30.3 | 16.0 | 7.6 | 45.6 | 0.3 | 0.0 | 0.1 | 100.0 | 54.0 | 49 | 1,101 |
| Addis Ababa | 43.5 | 25.9 | 10.3 | 19.3 | 0.6 | 0.0 | 0.3 | 100.0 | 79.7 | 896 | 1,741 |
| Dire Dawa | 27.8 | 13.1 | 10.0 | 45.2 | 3.3 | 0.0 | 0.6 | 100.0 | 50.8 | 69 | 1,095 |
| Wealth quintile | | | | | | | | | | | |
| Lowest | 0.8 | 10.2 | 7.0 | 79.7 | 2.0 | 0.2 | 0.1 | 100.0 | 18.0 | 2,986 | 3,711 |
| Second | 1.6 | 11.7 | 9.4 | 75.2 | 2.0 | 0.1 | 0.1 | 100.0 | 22.7 | 3,041 | 2,402 |
| Middle | 2.9 | 12.9 | 11.3 | 70.8 | 2.0 | 0.0 | 0.1 | 100.0 | 27.2 | 3,031 | 2,268 |
| Fourth | 5.7 | 20.1 | 15.7 | 55.6 | 2.2 | 0.1 | 0.5 | 100.0 | 41.5 | 3,215 | 2,505 |
| Highest | 35.4 | 24.5 | 9.8 | 28.5 | 1.2 | 0.0 | 0.6 | 100.0 | 69.7 | 4,242 | 5,629 |
| Total | 11.2 | 16.6 | 10.6 | 59.4 | 1.8 | 0.1 | 0.3 | 100.0 | 38.4 | 16,515 | 16,515 |

¹ Refers to women who attended secondary school or higher and women who can read a whole sentence or part of a sentence.

Regional differences in literacy are also marked, with literacy levels highest among women in predominantly urban Addis Ababa (80 percent) and lowest in the predominantly rural Somali and Affar regions (both 20 percent). There is also a marked difference in literacy by women's wealth, ranging from 18 percent among women in the lowest wealth quintile to 70 percent in the highest wealth quintile.

Table 3.3.2 shows that 65 percent of men 15-59 are literate, an increase from 59 percent in 2005. Men age 15-49 are much more likely than women to be literate (67 percent versus 38 percent). Similar to women, men age 15-24 (75 percent), men living in urban areas (90 percent), men residing in Addis Ababa (95 percent), and men in the highest wealth quintile (89 percent) have the highest literacy levels.

Table 3.3.2 Literacy: Men

Percent distribution of men age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Ethiopia 2011

| | | No schooling or primary school | | | | | | | | | |
|---------------------------|----------------------------------|--------------------------------|-----------------------------|--------------------|---|--------------------------------|---------|-------|------------|------------------------------|--------------------------|
| Background characteristic | Secondary school or higher | Can read a whole sentence | Can read part of a sentence | Cannot read at all | No card with required language | Blind/ visually impaired | Missing | Total | Percentage | Weighted number of men | Unweighted number of men |
| Age | | | | | | | | | | | |
| 15-24 | 19.4 | 38.9 | 16.8 | 22.3 | 2.0 | 0.1 | 0.7 | 100.0 | 75.0 | 5,332 | 5,162 |
| 15-19 | 13.2 | 44.4 | 17.8 | 21.6 | 2.1 | 0.1 | 0.8 | 100.0 | 75.4 | 3,013 | 2,832 |
| 20-24 | 27.3 | 31.7 | 15.5 | 23.1 | 1.8 | 0.0 | 0.5 | 100.0 | 74.6 | 2,319 | 2,330 |
| 25-29 | 22.3 | 25.2 | 14.6 | 35.2 | 1.9 | 0.1 | 0.6 | 100.0 | 62.2 | 2,297 | 2,274 |
| 30-34 | 17.1 | 24.8 | 17.0 | 39.3 | 1.3 | 0.1 | 0.4 | 100.0 | 58.9 | 1,483 | 1,682 |
| 35-39 | 12.6 | 27.7 | 19.9 | 39.3 | 0.4 | 0.0 | 0.2 | 100.0 | 60.1 | 1,648 | 1,579 |
| 40-44 | 11.5 | 30.6 | 19.6 | 37.1 | 1.1 | 0.0 | 0.1 | 100.0 | 61.7 | 1,121 | 1,210 |
| 45-49 | 10.7 | 28.1 | 19.6 | 40.6 | 0.7 | 0.2 | 0.2 | 100.0 | 58.4 | 952 | 961 |
| Residence | | | | | | | | | | | |
| Urban | 49.7 | 31.8 | 8.5 | 8.8 | 0.7 | 0.1 | 0.5 | 100.0 | 90.0 | 2,882 | 3,915 |
| Rural | 8.1 | 31.9 | 19.8 | 38.0 | 1.7 | 0.1 | 0.5 | 100.0 | 59.8 | 9,952 | 8,953 |
| Region | | | | | | | | | | | |
| Tigray | 18.1 | 37.6 | 16.1 | 27.6 | 0.4 | 0.2 | 0.0 | 100.0 | 71.8 | 770 | 1,235 |
| Affar | 16.9 | 21.0 | 14.6 | 46.5 | 0.7 | 0.0 | 0.2 | 100.0 | 52.5 | 101 | 910 |
| Amhara | 11.5 | 36.0 | 14.4 | 37.2 | 0.2 | 0.1 | 0.6 | 100.0 | 61.9 | 3,481 | 1,739 |
| Oromiya | 15.6 | 28.4 | 22.8 | 31.9 | 0.7 | 0.0 | 0.6 | 100.0 | 66.8 | 4,957 | 1,889 |
| Somali | 16.0 | 23.4 | 11.8 | 38.5 | 9.6 | 0.2 | 0.4 | 100.0 | 51.2 | 245 | 653 |
| Benishangul-Gumuz | 13.9 | 32.8 | 15.6 | 34.4 | 2.6 | 0.0 | 0.7 | 100.0 | 62.3 | 138 | 1,047 |
| SNNP | 17.2 | 32.5 | 15.1 | 29.8 | 5.0 | 0.1 | 0.3 | 100.0 | 64.8 | 2,307 | 1,550 |
| Gambela | 33.1 | 30.4 | 9.8 | 20.2 | 6.2 | 0.1 | 0.3 | 100.0 | 73.3 | 59 | 865 |
| Harari | 42.1 | 25.8 | 14.2 | 17.4 | 0.0 | 0.1 | 0.4 | 100.0 | 82.1 | 40 | 898 |
| Addis Ababa | 57.2 | 32.1 | 5.2 | 5.4 | 0.0 | 0.0 | 0.2 | 100.0 | 94.5 | 682 | 1,237 |
| Dire Dawa | 43.9 | 28.8 | 5.9 | 17.4 | 2.6 | 0.0 | 1.4 | 100.0 | 78.6 | 53 | 845 |
| Wealth quintile | | | | | | | | | | | |
| Lowest | 2.5 | 24.0 | 19.1 | 51.2 | 2.8 | 0.2 | 0.3 | 100.0 | 45.6 | 2,141 | 2,563 |
| Second | 3.6 | 30.3 | 18.7 | 45.4 | 1.7 | 0.1 | 0.3 | 100.0 | 52.6 | 2,362 | 1,891 |
| Middle | 5.0 | 35.0 | 21.3 | 36.6 | 1.4 | 0.1 | 0.6 | 100.0 | 61.4 | 2,454 | 1,935 |
| Fourth | 14.2 | 38.1 | 21.0 | 25.1 | 1.2 | 0.0 | 0.4 | 100.0 | 73.2 | 2,683 | 2,203 |
| Highest | 49.9 | 30.6 | 8.9 | 9.1 | 8.0 | 0.1 | 0.7 | 100.0 | 89.3 | 3,194 | 4,276 |
| Total 15-49 | 17.4 | 31.8 | 17.3 | 31.4 | 1.5 | 0.1 | 0.5 | 100.0 | 66.5 | 12,834 | 12,868 |
| 50-59 | 6.2 | 21.0 | 22.2 | 49.6 | 0.7 | 0.1 | 0.2 | 100.0 | 49.4 | 1,276 | 1,242 |
| Total 15-59 | 16.4 | 30.9 | 17.7 | 33.1 | 1.4 | 0.1 | 0.4 | 100.0 | 65.0 | 14,110 | 14,110 |

¹ Refers to men who attended secondary school or higher and men who can read a whole sentence or part of a sentence.

3.4 EXPOSURE TO MASS MEDIA

Exposure to information on television and radio and in the print media can increase knowledge and awareness of new ideas, social changes, and opportunities and can affect an individual's perceptions and behaviour, including those about health. The 2011 EDHS assessed exposure to the media by asking how often a respondent reads a newspaper, watches television, or listens to the radio. Tables 3.4.1 and 3.4.2 show the percentage of women and of men who are exposed to different types of media, by their age, urban or rural residence, region, level of education, and wealth quintile.

Table 3.4.1 Exposure to mass media: Women

Percentage of women age 15-49 who are exposed to specific media on a weekly basis, by background characteristics, Ethiopia 2011

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Weighted number of women | Unweighted number of women |
|---------------------------|---|--|---|--|---|--------------------------------|----------------------------------|
| Age | | | | | | | _ |
| 15-19 | 9.0 | 17.9 | 25.8 | 2.1 | 61.6 | 4,009 | 3,835 |
| 20-24 | 6.5 | 20.9 | 25.2 | 2.3 | 62.3 | 2,931 | 3,022 |
| 25-29 | 3.5 | 15.5 | 22.7 | 1.9 | 69.3 | 3,147 | 3,185 |
| 30-34 | 3.0 | 14.2 | 19.5 | 1.5 | 72.7 | 2,054 | 2,100 |
| 35-39 | 1.7 | 12.7 | 18.7 | 0.9 | 73.2 | 1,916 | 1,958 |
| 40-44 | 1.3 | 12.2 | 19.0 | 0.5 | 74.6 | 1,261 | 1,314 |
| 45-49 | 0.9 | 9.7 | 14.7 | 0.6 | 79.8 | 1,196 | 1,101 |
| Residence | | | | | | | |
| Urban | 10.8 | 48.3 | 38.1 | 6.0 | 37.8 | 3,947 | 5,329 |
| Rural | 2.8 | 5.7 | 17.2 | 0.3 | 77.8 | 12,568 | 11,186 |
| Region | | | | | | | |
| Tigray | 5.5 | 19.3 | 24.7 | 2.5 | 66.1 | 1,104 | 1,728 |
| Affar | 2.1 | 16.8 | 13.4 | 1.0 | 74.7 | 145 | 1,291 |
| Amhara | 1.5 | 12.1 | 18.7 | 0.4 | 73.6 | 4,433 | 2,087 |
| Oromiya | 6.4 | 10.3 | 23.3 | 1.4 | 69.1 | 6,011 | 2,135 |
| Somali | 1.5 | 10.4 | 10.9 | 0.2 | 81.8 | 329 | 914 |
| Benishangul-Gumuz | 2.5 | 9.6 | 15.9 | 0.5 | 76.8 | 174 | 1,259 |
| SNNP | 3.4 | 17.8 | 19.3 | 1.1 | 68.7 | 3,236 | 2,034 |
| Gambela | 2.7 | 14.9 | 8.1 35.5 | 0.9 7.1 | 78.8 | 69 | 1,130 |
| Harari Addis Ababa | 10.7 14.8 | 54.5 59.5 | 35.5 45.3 | 7.1 10.6 | 38.8 31.4 | 49 896 | 1,101 1.741 |
| Dire Dawa | 14.6 | 59.5 50.1 | 45.3 31.9 | 6.7 | 31.4 42.6 | 69 | 1,741 |
| | 11.2 | 50.1 | 31.9 | 0.7 | 42.0 | 09 | 1,095 |
| Education | | | | | | | |
| No education | 0.0 | 5.6 | 13.9 | 0.0 | 82.3 | 8,394 | 8,278 |
| Primary | 6.3 | 18.1 | 25.8 | 1.2 | 61.8 | 6,276 | 5,858 |
| Secondary | 18.5 | 50.4 | 42.3 | 8.3 | 31.4 | 1,117 | 1,395 |
| More than secondary | 24.0 | 63.4 | 54.9 | 14.3 | 18.3 | 728 | 984 |
| Wealth quintile | | | | | | | |
| Lowest | 1.0 | 3.9 | 6.0 | 0.0 | 89.9 | 2,986 | 3,711 |
| Second | 2.0 | 4.5 | 13.0 | 0.2 | 82.0 | 3,041 | 2,402 |
| Middle | 1.9 | 4.8 | 17.9 | 0.0 | 77.7 | 3,031 | 2,268 |
| Fourth | 5.0 | 6.4 | 27.5 | 0.4 | 67.5 | 3,215 | 2,505 |
| Highest | 11.0 | 47.7 | 39.0 | 6.0 | 36.9 | 4,242 | 5,629 |
| Total | 4.7 | 15.9 | 22.2 | 1.7 | 68.2 | 16,515 | 16,515 |
| | | | | | | | |

Table 3.4.2 Exposure to mass media: Men Percentage of men age 15-49 who are exposed to specific media on a weekly basis, by background characteristics, Ethiopia 2011

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Weighted number of men | Unweighted number of men |
|--|---|--|--|--|---|--|---|
| Age 15-19 20-24 25-29 30-34 | 11.5 14.2 12.6 11.7 | 20.1 27.4 21.8 24.3 | 32.0 43.6 40.6 41.8 | 4.0 7.5 6.2 7.0 | 57.7 47.2 50.8 50.8 | 3,013 2,319 2,297 1,483 | 2,832 2,330 2,274 1,682 |
| 35-39 40-44 45-49 | 8.9 9.8 6.9 | 18.8 18.2 16.5 | 38.2 37.2 36.8 | 5.2 4.7 3.6 | 55.6 55.2 57.4 | 1,648 1,121 952 | 1,579 1,210 961 |
| Residence Urban Rural | 26.8 6.9 | 60.1 10.5 | 59.0 32.4 | 18.8 1.7 | 22.2 62.3 | 2,882 9,952 | 3,915 8,953 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa Education | 12.2 6.0 5.6 12.6 9.3 7.9 6.8 14.8 25.2 46.1 33.8 | 33.4 19.1 15.8 17.9 18.3 22.2 15.6 33.9 59.6 79.0 66.3 | 38.5 28.4 26.5 44.5 38.1 33.4 30.1 29.9 62.6 82.4 64.7 | 5.0 2.1 1.9 5.2 2.7 3.2 2.2 5.5 17.6 38.3 26.8 | 42.9 62.7 65.8 48.8 52.3 55.0 62.2 47.4 19.7 7.1 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 |
| No education Primary Secondary More than secondary | 1.0 9.5 29.3 41.8 | 5.3 19.1 50.8 64.7 | 22.2 38.9 60.2 69.8 | 0.2 3.2 18.0 27.5 | 74.9 52.0 26.5 12.4 | 3,785 6,813 1,296 940 | 3,659 6,334 1,565 1,310 |
| Wealth quintile Lowest Second Middle Fourth Highest | 3.8 3.7 6.9 10.7 26.0 | 5.9 8.1 9.1 13.6 58.5 | 20.1 26.8 32.9 42.9 59.6 | 0.6 1.0 1.5 2.7 17.7 | 75.7 68.9 62.2 50.3 22.3 | 2,141 2,362 2,454 2,683 3,194 | 2,563 1,891 1,935 2,203 4,276 |
| Total 15-49 50-59 Total 15-59 | 11.4 6.6 10.9 | 21.6 14.9 21.0 | 38.4 32.4 37.9 | 5.6 3.1 5.3 | 53.3 61.6 54.0 | 12,834 1,276 14,110 | 12,868 1,242 14,110 |

The survey shows that the level of exposure to mass media is low in Ethiopia, especially exposure to the print media. Respondents are more likely to listen to the radio (22 percent of women and 38 percent of men) than to watch television or read newspapers. Men have greater access than women to each of these media.

Women under age 25 are more likely than older women to be exposed to the mass media, primarily because their level of education is higher. There is also a wide gap in exposure to mass media by place of residence, education, and wealth. For example, the proportion of women who read a newspaper at least once a week is highest among urban residents (11 percent), women with some secondary education (19 percent) or more than secondary education (24 percent), and women in the wealthiest quintile (11 percent). Women in Addis Ababa are the most likely to read a newspaper on a weekly basis (15 percent). The patterns of exposure to mass media are similar among men and women.

Exposure to each of the specified media sources has increased since 2005. For example, the proportion of women 15-49 who listen to the radio at least once a week has increased from 16 percent in the 2005 EDHS to 22 percent in 2011, while the proportion among men 15-59 has increased from 31 percent to 38 percent.

3.5 EMPLOYMENT

The 2011 EDHS asked respondents whether they were employed at the time of the survey (that is, had worked in the past seven days) and, if not, whether they had worked any time during the 12 months preceding the survey. Table 3.5.1 and Figure 3.1 show that 38 percent of women are currently employed (worked in the past seven days). The proportion of women currently employed rises from 27 percent among women age 15-19 to a peak of 44 percent among women age 25-29 and then declines slightly for the older age groups. By marital status, women who are divorced, separated, or widowed are most likely to be currently employed (51 percent).

There are notable variations in the proportion currently employed by place of residence and by region. Urban women are more likely to be currently employed than rural women (50 percent compared with 34 percent). Women in Addis Ababa and Gambela are the most likely to be currently employed (52 and 47 percent, respectively), while women in Affar and Somali regions are the least likely (19 and 22 percent, respectively).

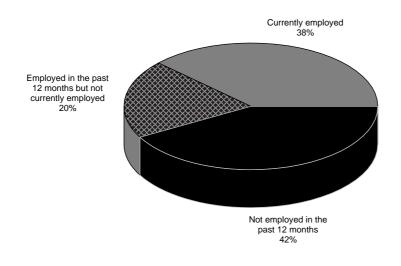
Table 3.5.1 Employment status: Women

Percent distribution of women age 15-49 by employment status, according to background characteristics, Ethiopia 2011

| | | ed in the preceding urvey | Not employed in the 12 | | | | |
|----------------------------|---------------------------------|---------------------------------|-----------------------------------|------------------------|----------------|--------------------------------|----------------------------------|
| Background characteristic | Currently employed ¹ | Not currently employed | months preceding the survey | Missing/ don't know | Total | Weighted number of women | Unweighted number of women |
| Age 15-19 | 27.1 | 22.3 | 50.5 | 0.1 | 100.0 | 4,009 | 3,835 |
| 20-24 | 38.9 | 19.0 | 42.2 | 0.0 | 100.0 | 2,931 | 3,022 |
| 25-29 | 44.0 | 16.1 | 39.8 | 0.1 | 100.0 | 3,147 | 3,185 |
| 30-34 | 42.1 | 18.6 | 39.3 | 0.0 | 100.0 | 2,054 | 2,100 |
| 35-39 40-44 | 41.4 | 20.5 | 38.1 | 0.0 | 100.0 | 1,916 | 1,958 |
| 40-44 45-49 | 38.9 38.2 | 24.2 23.9 | 36.9 38.0 | 0.0 0.0 | 100.0 100.0 | 1,261 1,196 | 1,314 1,101 |
| 45-49 | 30.2 | 23.9 | 36.0 | 0.0 | 100.0 | 1,190 | 1,101 |
| Marital status | | | | | | | |
| Never married | 36.8 | 17.7 | 45.4 | 0.1 | 100.0 | 4,469 | 4,413 |
| Married or living together | 35.8 | 20.8 | 43.4 | 0.0 | 100.0 | 10,287 | 10,204 |
| Divorced/separated/widowed | 50.8 | 22.3 | 26.9 | 0.0 | 100.0 | 1,758 | 1,898 |
| Number of living children | | | | | | | |
| 0 | 36.6 | 19.1 | 44.2 | 0.1 | 100.0 | 5,708 | 5,771 |
| 1-2 3-4 | 39.4 | 19.6 | 40.9 | 0.0 0.1 | 100.0 | 3,987 | 4,257 |
| 5+ | 40.0 35.2 | 18.9 23.4 | 41.0 41.5 | 0.1 | 100.0 100.0 | 3,219 3,601 | 3,151 3,336 |
| | 33.2 | 25.4 | 41.5 | 0.0 | 100.0 | 3,001 | 3,330 |
| Residence | 40.0 | 7.0 | 40.0 | 0.0 | 400.0 | 0.047 | 5.000 |
| Urban | 49.9 33.8 | 7.8 24.0 | 42.3 42.2 | 0.0 0.1 | 100.0 | 3,947 | 5,329 |
| Rural | 33.0 | 24.0 | 42.2 | 0.1 | 100.0 | 12,568 | 11,186 |
| Region | | | | | | | |
| Tigray | 29.9 | 45.2 | 24.8 | 0.0 | 100.0 | 1,104 | 1,728 |
| Affar | 19.0 | 4.4 | 76.7 | 0.0 | 100.0 | 145 | 1,291 |
| Amhara Oromiya | 31.4 41.0 | 30.2 15.1 | 38.4 43.9 | 0.0 0.1 | 100.0 100.0 | 4,433 6,011 | 2,087 2,135 |
| Somali | 22.2 | 3.1 | 74.5 | 0.1 | 100.0 | 329 | 914 |
| Benishangul-Gumuz | 42.4 | 12.2 | 45.2 | 0.2 | 100.0 | 174 | 1,259 |
| SNNP | 40.7 | 14.5 | 44.8 | 0.0 | 100.0 | 3,236 | 2,034 |
| Gambela | 46.7 | 9.1 | 44.1 | 0.0 | 100.0 | 69 | 1,130 |
| Harari | 40.1 | 6.1 | 53.8 | 0.1 | 100.0 | 49 | 1,101 |
| Addis Ababa | 51.5 | 6.2 | 42.3 | 0.0 | 100.0 | 896 | 1,741 |
| Dire Dawa | 40.2 | 2.3 | 57.4 | 0.0 | 100.0 | 69 | 1,095 |
| Education | | | | | | | |
| No education | 34.7 | 22.8 | 42.4 | 0.0 | 100.0 | 8,394 | 8,278 |
| Primary | 37.8 | 19.7 | 42.5 | 0.0 | 100.0 | 6,276 | 5,858 |
| Secondary | 40.5 | 12.3 | 46.8 | 0.5 | 100.0 | 1,117 | 1,395 |
| More than secondary | 65.4 | 4.8 | 29.9 | 0.0 | 100.0 | 728 | 984 |
| Wealth quintile | | | | | | | |
| Lowest | 28.1 | 28.4 | 43.5 | 0.0 | 100.0 | 2,986 | 3,711 |
| Second | 31.8 | 25.8 | 42.4 | 0.0 | 100.0 | 3,041 | 2,402 |
| Middle | 35.7 | 22.7 | 41.4 | 0.2 | 100.0 | 3,031 | 2,268 |
| Fourth Highest | 38.8 49.0 | 20.7 7.9 | 40.5 43.1 | 0.1 0.0 | 100.0 100.0 | 3,215 4,242 | 2,505 5,629 |
| • | | | | | | , | |
| Total | 37.6 | 20.1 | 42.2 | 0.1 | 100.0 | 16,515 | 16,515 |

¹ "Currently employed" is defined as having done work in the past seven days. This measure includes persons who did not work in the past seven days but who are regularly employed and were absent from work due to leave, illness, vacation, or any other such reason.

Figure 3.1 Women's Employment Status in the Past 12 Months



EDHS 2011

The percentage of women currently employed increases as their level of education increases; the proportion of women employed rises from 35 percent among uneducated women to 65 percent among women with more than secondary education. There is also an increase in the percentage of women employed by wealth quintile; women in the highest quintile have the highest level of employment (49 percent) when compared with women in the lowest quintiles.

Table 3.5.2 shows that a large majority of men, 80 percent, are currently employed. Men age 15-19 (65 percent), men who have never married (71 percent), men with no living children (73 percent), and urban men (77 percent) are less likely to be currently employed than other men. Men in Addis Ababa and SNNP (both 84 percent) have the highest level of current employment, while men in Harari have the lowest level (58 percent).

Table 3.5.2 Employment status: Men

Percent distribution of men age 15-49 by employment status, according to background characteristics, Ethiopia 2011

| | 12 months | ed in the preceding urvey | Not employed in the 12 | | | | |
|--|---------------------------------|---------------------------------|-----------------------------------|------------------------|----------------|------------------------------|--------------------------------|
| Background characteristic | Currently employed ¹ | Not currently employed | months preceding the survey | Missing/ don't know | Total | Weighted number of men | Unweighted number of men |
| Age | | | | | | | |
| 15-19 | 65.2 | 20.6 | 14.2 | 0.0 | 100.0 | 3,013 | 2,832 |
| 20-24 25-29 | 75.4 86.7 | 16.9 11.7 | 7.6 1.6 | 0.1 0.0 | 100.0 100.0 | 2,319 2.297 | 2,330 2.274 |
| 30-34 | 86.6 | 12.2 | 1.2 | 0.0 | 100.0 | 1,483 | 1.682 |
| 35-39 | 87.8 | 11.8 | 0.4 | 0.0 | 100.0 | 1,648 | 1,579 |
| 40-44 | 87.2 | 11.8 | 0.9 | 0.1 | 100.0 | 1,121 | 1,210 |
| 45-49 | 86.3 | 13.2 | 0.4 | 0.0 | 100.0 | 952 | 961 |
| Marital status | | | | | | | |
| Never married | 71.0 | 17.7 | 11.3 | 0.0 | 100.0 | 5,600 | 5,641 |
| Married or living together Divorced/separated/widowed | 86.6 84.5 | 12.8 12.7 | 0.5 2.7 | 0.0 0.0 | 100.0 100.0 | 6,872 363 | 6,775 452 |
| · | 04.5 | 12.7 | 2.1 | 0.0 | 100.0 | 303 | 432 |
| Number of living children 0 | 72.9 | 17.0 | 10.0 | 0.0 | 100.0 | 6,465 | 6,534 |
| 1-2 | 86.8 | 12.8 | 0.5 | 0.0 | 100.0 | 2,338 | 2,463 |
| 3-4 | 86.4 | 13.1 | 0.5 | 0.0 | 100.0 | 2,038 | 1,922 |
| 5+ | 86.7 | 12.7 | 0.5 | 0.1 | 100.0 | 1,994 | 1,949 |
| Residence | | | | | | | |
| Urban | 76.6 | 11.4 | 12.1 | 0.0 | 100.0 | 2,882 | 3,915 |
| Rural | 80.7 | 16.0 | 3.3 | 0.0 | 100.0 | 9,952 | 8,953 |
| Region | 70.0 | 40.0 | 0.7 | 0.0 | 400.0 | 770 | 4.005 |
| Tigray Affar | 79.3 66.8 | 18.0 24.8 | 2.7 8.4 | 0.0 0.0 | 100.0 100.0 | 770 101 | 1,235 910 |
| Amhara | 76.9 | 17.0 | 6.1 | 0.0 | 100.0 | 3,481 | 1,739 |
| Oromiya | 80.3 | 15.5 | 4.1 | 0.0 | 100.0 | 4,957 | 1,889 |
| Somali | 64.2 | 13.8 | 21.8 | 0.2 | 100.0 | 245 | 653 |
| Benishangul-Gumuz | 81.6 | 10.9 | 7.6 | 0.0 | 100.0 | 138 | 1,047 |
| SNNP Gambela | 84.2 82.8 | 11.7 9.7 | 4.1 7.5 | 0.1 0.0 | 100.0 100.0 | 2,307 59 | 1,550 865 |
| Harari | 62.6 57.7 | 9.7 24.2 | 7.5 18.0 | 0.0 | 100.0 | 59 40 | 898 |
| Addis Ababa | 83.9 | 7.9 | 8.2 | 0.0 | 100.0 | 682 | 1,237 |
| Dire Dawa | 78.2 | 10.5 | 11.3 | 0.0 | 100.0 | 53 | 845 |
| Education | | | | | | | |
| No education | 83.2 | 15.6 | 1.1 | 0.1 | 100.0 | 3,785 | 3,659 |
| Primary | 78.7 | 15.8 | 5.5 | 0.0 | 100.0 | 6,813 | 6,334 |
| Secondary More than secondary | 73.9 81.2 | 14.0 7.0 | 12.1 11.8 | 0.0 0.0 | 100.0 100.0 | 1,296 940 | 1,565 1,310 |
| • | 01.2 | 7.0 | 11.0 | 0.0 | 100.0 | 340 | 1,310 |
| Wealth quintile Lowest | 82.9 | 14.2 | 2.8 | 0.1 | 100.0 | 2,141 | 2,563 |
| Second | 81.8 | 15.6 | 2.6 | 0.0 | 100.0 | 2,362 | 1,891 |
| Middle | 78.3 | 17.8 | 3.9 | 0.1 | 100.0 | 2,454 | 1,935 |
| Fourth | 79.9 | 16.1 | 4.0 | 0.0 | 100.0 | 2,683 | 2,203 |
| Highest | 77.1 | 11.7 | 11.2 | 0.0 | 100.0 | 3,194 | 4,276 |
| Total 15-49 | 79.7 | 14.9 | 5.3 | 0.0 | 100.0 | 12,834 | 12,868 |
| 50-59 | 87.3 | 10.9 | 1.8 | 0.0 | 100.0 | 1,276 | 1,242 |
| Total 15-59 | 80.4 | 14.6 | 5.0 | 0.0 | 100.0 | 14,110 | 14,110 |

¹ "Currently employed" is defined as having done work in the past seven days. This measure includes persons who did not work in the past seven days but who are regularly employed and were absent from work due to leave, illness, vacation, or any other such reason.

There is no clear pattern in the variation of men's employment level by level of education. By wealth status, current employment among men decreases from 83 percent among the poorest men to 77 percent among the wealthiest.

Current employment among women 15-49 increased from 29 percent in 2005 to 38 percent in 2011. In contrast, among men 15-59 it decreased from 86 percent to 80 percent.

3.6 OCCUPATION

The 2011 EDHS asked currently employed respondents to state their occupation. Tables 3.6.1 and 3.6.2, for women and men respectively, show that 46 percent of working women 15-49 and 74 percent of working men 15-59 are in agricultural occupations, a drop from the 52 percent and 84 percent, respectively, reported in 2005. Sales and services account for 33 percent of current employment for women and 10 percent for men. Thirteen percent of employed women and 7 percent of employed men work in skilled manual labour, an increase from six years ago.

<u>Table 3.6.1 Occupation: Women</u>

Percent distribution of women age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Ethiopia 2011

| Background characteristic | Professional/ technical/ managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Agriculture | Missing | Total | Weighted number of women | Unweighted number of women |
|----------------------------|---|------------|--------------------------|-------------------|---------------------|-------------|---------|-------|--------------------------------|----------------------------|
| Age | | | | | | | | | | |
| 15-19 | 0.1 | 0.3 | 34.3 | 9.0 | 2.1 | 52.6 | 1.6 | 100.0 | 1,980 | 1,611 |
| 20-24 | 6.4 | 4.2 | 36.2 | 12.4 | 2.4 | 37.3 | 1.0 | 100.0 | 1,694 | 1,576 |
| 25-29 | 4.8 | 2.6 | 35.8 | 13.3 | 1.8 | 41.0 | 0.7 | 100.0 | 1,892 | 1,723 |
| 30-34 | 3.0 | 3.2 | 34.6 | 13.8 | 1.6 | 43.0 | 0.7 | 100.0 | 1,245 | 1,131 |
| 35-39 | 3.2 | 1.7 | 30.6 | 14.4 | 0.5 | 46.6 | 3.0 | 100.0 | 1,186 | 1,106 |
| 40-44 | 1.9 | 1.7 | 28.2 | 12.3 | 0.8 | 53.1 | 1.9 | 100.0 | 796 | 748 |
| 45-49 | 1.2 | 1.5 | 22.0 | 17.4 | 1.2 | 55.6 | 1.2 | 100.0 | 742 | 638 |
| Marital status | 1.2 | 1.0 | 22.0 | | 1.2 | 00.0 | | 100.0 | , | 000 |
| Never married | 4.1 | 3.8 | 40.7 | 10.0 | 2.7 | 37.5 | 1.1 | 100.0 | 2,433 | 2,203 |
| Married or living together | 3.0 | 3.6 1.8 | 29.2 | 12.8 | 1.1 | 50.6 | 1.6 | 100.0 | 2,433 5,817 | 4,981 |
| | 3.0 1.8 | 1.0 | 36.0 | 17.3 | 2.3 | 40.4 | 1.0 | 100.0 | 1,286 | 1,349 |
| Divorced/separated/widowed | 1.0 | 1.2 | 30.0 | 17.3 | 2.3 | 40.4 | 1.0 | 100.0 | 1,200 | 1,349 |
| Number of living children | 4.3 | 2.4 | 27.5 | 10.2 | 2.7 | 40.7 | 4.4 | 100.0 | 2 170 | 2.020 |
| 0 | | 3.4 | 37.5 | 10.3 | 2.7 | | 1.1 | | 3,179 | 2,929 |
| 1-2 | 5.1 | 3.3 | 32.1 | 13.4 | 2.0 | 43.2 | 0.9 | 100.0 | 2,354 | 2,298 |
| 3-4 | 2.1 | 0.9 | 33.0 | 16.3 | 0.7 | 45.5 | 1.4 | 100.0 | 1,895 | 1,624 |
| 5+ | 0.2 | 0.5 | 27.4 | 12.2 | 0.5 | 56.9 | 2.2 | 100.0 | 2,107 | 1,682 |
| Residence | | | | | | | | | | |
| Urban | 9.1 | 8.5 | 52.3 | 14.2 | 5.2 | 9.5 | 1.2 | 100.0 | 2,276 | 2,919 |
| Rural | 1.3 | 0.3 | 27.0 | 12.2 | 0.5 | 57.3 | 1.4 | 100.0 | 7,259 | 5,614 |
| Region | | | | | | | | | | |
| Tigray | 1.8 | 1.0 | 25.8 | 8.4 | 2.0 | 59.1 | 1.9 | 100.0 | 830 | 1,314 |
| Affar | 8.2 | 4.0 | 44.7 | 16.3 | 1.8 | 22.6 | 2.4 | 100.0 | 34 | 255 |
| Amhara | 2.3 | 1.2 | 18.5 | 10.3 | 2.1 | 64.3 | 1.4 | 100.0 | 2,731 | 1,293 |
| Oromiya | 3.0 | 1.9 | 33.9 | 13.0 | 1.3 | 45.9 | 1.0 | 100.0 | 3,369 | 1,186 |
| Somali | 1.5 | 2.7 | 68.2 | 19.1 | 2.1 | 2.5 | 3.9 | 100.0 | 83 | 195 |
| Benishangul-Gumuz | 3.5 | 3.1 | 26.2 | 19.5 | 0.7 | 45.4 | 1.6 | 100.0 | 95 | 686 |
| SNNP | 3.1 | 1.4 | 48.3 | 16.9 | 0.4 | 28.7 | 1.2 | 100.0 | 1,786 | 1,125 |
| Gambela | 3.0 | 7.7 | 43.3 | 29.2 | 0.4 | 12.2 | 4.2 | 100.0 | 39 | 513 |
| Harari | 10.5 | 10.3 | 65.1 | 8.7 | 2.2 | 1.9 | 1.2 | 100.0 | 23 | 501 |
| Addis Ababa | 10.1 | 13.6 | 53.6 | 13.0 | 5.1 | 1.8 | 2.8 | 100.0 | 517 | 1,018 |
| Dire Dawa | 8.9 | 5.3 | 67.3 | 11.4 | 1.2 | 3.5 | 2.3 | 100.0 | 29 | 447 |
| Education | | | | | | | | | | |
| No education | 0.1 | 0.1 | 27.1 | 13.7 | 1.3 | 56.1 | 1.6 | 100.0 | 4,829 | 4,032 |
| Primary | 0.0 | 0.6 | 41.7 | 12.3 | 1.8 | 42.5 | 1.1 | 100.0 | 3,606 | 3,106 |
| Secondary | 5.2 | 11.4 | 42.8 | 15.7 | 3.6 | 19.6 | 1.9 | 100.0 | 589 | 710 |
| More than secondary | 51.8 | 23.8 | 42.6 16.7 | 2.6 | 1.4 | 3.0 | 0.7 | 100.0 | 511 | 685 |
| , | 31.0 | 25.0 | 10.7 | 2.0 | 1.4 | 3.0 | 0.7 | 100.0 | 311 | 000 |
| Wealth quintile | 0.0 | 0.0 | 24.7 | 11.0 | 1.0 | CE O | 4.4 | 100.0 | 1 000 | 1 570 |
| Lowest | 0.2 | 0.0 | 21.7 | 11.0 | 1.0 | 65.0 | 1.1 | 100.0 | 1,688 | 1,573 |
| Second | 0.3 | 0.3 | 22.7 | 10.2 | 0.5 | 64.4 | 1.5 | 100.0 | 1,751 | 1,291 |
| Middle | 0.1 | 0.2 | 27.2 | 11.5 | 0.4 | 59.3 | 1.3 | 100.0 | 1,771 | 1,241 |
| Fourth | 0.8 | 0.2 | 35.4 | 14.9 | 1.4 | 45.5 | 1.8 | 100.0 | 1,911 | 1,344 |
| Highest | 11.4 | 8.3 | 50.9 | 14.9 | 4.1 | 9.5 | 1.1 | 100.0 | 2,414 | 3,084 |
| Total | 3.1 | 2.2 | 33.0 | 12.7 | 1.7 | 45.9 | 1.4 | 100.0 | 9,535 | 8,533 |

<u>Table 3.6.2 Occupation: Men</u>

Percent distribution of men age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Ethiopia 2011

| Background characteristic | Professional/ technical/ managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Agriculture | Missing | Total | Weighted number of men | Unweighted number of men |
|-------------------------------|---|-------------|--------------------|-------------------|---------------------|--------------|---------|-------|------------------------|--------------------------|
| Age 15-19 | 0.9 | 0.5 | 9.6 | 3.6 | 2.2 | 76.2 | 6.9 | 100.0 | 2,586 | 2,277 |
| 20-24 | 0.9 4.1 | 1.4 | 9.6 12.4 | 3.6 6.5 | 2.2 | 76.2 70.8 | 2.2 | 100.0 | 2,566 | 2,277 |
| 25-29 | 8.0 | 1.5 | 11.7 | 9.1 | 1.1 | 67.7 | 0.9 | 100.0 | 2,260 | 2,210 |
| 30-34 | 5.0 | 2.4 | 10.7 | 10.0 | 2.1 | 68.4 | 1.4 | 100.0 | 1,465 | 1,651 |
| 35-39 | 3.8 | 1.2 | 8.9 | 9.7 | 0.6 | 75.3 | 0.6 | 100.0 | 1,642 | 1,563 |
| 40-44 | 3.7 | 1.1 | 10.2 | 8.0 | 1.6 | 74.9 | 0.5 | 100.0 | 1,110 | 1,190 |
| 45-49 | 5.0 | 1.7 | 7.9 | 4.7 | 0.2 | 79.2 | 1.3 | 100.0 | 948 | 953 |
| Marital status | | | | | | | | | | |
| Never married | 4.4 | 1.6 | 12.4 | 6.7 | 2.4 | 67.8 | 4.7 | 100.0 | 4,965 | 4,779 |
| Married or living together | 4.1 | 1.1 | 8.8 | 7.3 | 1.0 | 76.8 | 0.8 | 100.0 | 6,832 | 6,694 |
| Divorced/separated/widowed | 3.7 | 1.5 | 14.5 | 12.9 | 2.6 | 63.3 | 1.4 | 100.0 | 353 | 439 |
| Number of living children | | | | | | | | | | |
| 0 | 4.8 | 1.6 | 12.0 | 7.3 | 2.2 | 67.9 | 4.2 | 100.0 | 5,815 | 5,650 |
| 1-2 | 5.9 | 1.8 | 11.8 | 11.0 | 1.6 | 67.0 | 1.0 | 100.0 | 2,327 | 2,435 |
| 3-4 | 2.8 | 0.6 | 9.7 | 5.9 | 1.4 | 78.9 | 0.7 | 100.0 | 2,027 | 1,903 |
| 5+ | 2.3 | 0.7 | 5.1 | 3.8 | 0.1 | 87.3 | 0.7 | 100.0 | 1,981 | 1,924 |
| Residence | | | | | | | | | | |
| Urban | 12.9 | 5.2 | 29.8 | 27.1 | 6.1 | 15.0 | 3.9 | 100.0 | 2,534 | 3,398 |
| Rural | 2.0 | 0.3 | 5.3 | 2.0 | 0.5 | 87.9 | 2.0 | 100.0 | 9,616 | 8,514 |
| Region | | | | | | | | | | |
| Tigray | 5.5 | 0.7 | 9.9 | 9.1 | 2.2 | 71.1 | 1.5 | 100.0 | 749 | 1,204 |
| Affar | 11.4 | 2.9 | 16.6 | 8.3 | 1.5 | 57.9 | 1.4 | 100.0 | 93 | 850 |
| Amhara | 1.9 | 0.7 | 6.5 | 6.2 | 1.1 | 80.1 | 3.5 | 100.0 | 3,267 | 1,642 |
| Oromiya | 3.7 | 1.1 | 9.5 | 4.6 | 1.7 | 77.3 | 2.0 | 100.0 | 4,750 | 1,805 |
| Somali | 12.6 | 0.5 | 19.4 | 6.7 | 3.6 | 56.1 | 1.0 | 100.0 | 191 | 527 |
| Benishangul-Gumuz | 3.2 | 1.7 | 6.7 | 4.7 | 0.6 | 76.9 | 6.3 | 100.0 | 128 | 974 |
| SNNP | 4.6 | 1.5 | 10.5 | 5.0 | 0.4 | 76.6 | 1.3 | 100.0 | 2,211 | 1,501 |
| Gambela | 13.5 | 8.4 | 33.8 | 10.0 | 1.9 | 30.6 | 1.9 | 100.0 | 55 | 783 |
| Harari | 12.7 | 3.2 | 25.1 | 16.5 | 4.2 | 37.4 | 0.8 | 100.0 | 33 | 736 |
| Addis Ababa | 11.9 | 4.9 | 31.8 | 35.9 | 7.0 | 3.4 | 5.2 | 100.0 | 627 | 1,134 |
| Dire Dawa | 13.3 | 3.9 | 23.7 | 23.1 | 5.6 | 26.8 | 3.5 | 100.0 | 47 | 756 |
| Education | 0.4 | 0.0 | 5.1 | 2.9 | 0.5 | 90.4 | 0.6 | 100.0 | 2 744 | 3,581 |
| No education | 0.4 | 0.0 | 10.7 | 2.9 7.1 | 2.2 | 90.4 75.9 | 2.8 | 100.0 | 3,741 6,440 | 5,848 |
| Primary | 5.8 | 3.2 | 25.1 | 17.9 | 2.2 | 40.7 | 5.0 | 100.0 | 1,140 | 1,335 |
| Secondary More than secondary | 5.6 46.6 | 3.∠ 11.7 | 25.1 12.4 | 17.9 | 2.3 0.9 | 40.7 12.1 | 3.7 | 100.0 | 829 | 1,335 |
| Wealth quintile | | | | | | | | | | ., |
| Lowest | 0.7 | 0.0 | 2.9 | 0.8 | 0.4 | 93.8 | 1.4 | 100.0 | 2,078 | 2,423 |
| Second | 0.5 | 0.1 | 2.5 | 1.7 | 0.2 | 93.6 | 1.4 | 100.0 | 2,301 | 1,828 |
| Middle | 0.7 | 0.1 | 3.6 | 1.3 | 0.4 | 91.4 | 2.5 | 100.0 | 2,358 | 1,848 |
| Fourth | 2.3 | 0.2 | 10.2 | 3.6 | 1.4 | 79.7 | 2.5 | 100.0 | 2,576 | 2,068 |
| Highest | 14.5 | 5.3 | 28.2 | 24.6 | 5.0 | 18.5 | 4.0 | 100.0 | 2,837 | 3,745 |
| Total 15-49 | 4.2 | 1.3 | 10.4 | 7.2 | 1.6 | 72.7 | 2.4 | 100.0 | 12,150 | 11,912 |
| 50-59 | 3.8 | 0.8 | 7.4 | 5.2 | 1.0 | 80.7 | 1.0 | 100.0 | 1,253 | 1,215 |
| Total 15-59 | 4.2 | 1.3 | 10.2 | 7.0 | 1.6 | 73.5 | 2.3 | 100.0 | 13,403 | 13,127 |

The proportion of women in sales and services decreases with age and is highest among never-married women, women with no living children, urban women, women with primary or secondary education, and women in the highest wealth quintile. The percentage of women who work in agriculture is highest among the youngest and oldest age groups, currently married women, women with five or more children, rural women, women with no education, and women in the lowest wealth quintile. The patterns among men are similar.

As expected, residence, whether rural or urban, has a significant effect on type of occupation. In rural areas nearly six in every ten employed women (57 percent) and nine in every ten employed men (88 percent) are engaged in agricultural work. Women with secondary or higher education tend to be employed in sales and services and in professional, technical, and managerial occupations, whereas women with little or no education tend to be employed in the agricultural sector. Agriculture is by far the most important occupation for women in all wealth quintiles but the highest. Employment outside the agricultural sector is highest among men with more than secondary education and men in the highest wealth quintile.

3.7 Type Of Women's Employment

Table 3.7 presents the percent distribution of employed women age 15-49 by type of earnings and employer characteristics, according to type of employment (agricultural or non-agricultural). More than half of women (56 percent) engaged in agricultural work are unpaid workers, most likely employed by family members at the peak of the agricultural season. Women are more likely to be paid in cash if they are employed in the nonagricultural sector; 68 percent of women employed in this sector are paid only in cash. Overall, three in every ten employed women (30 percent) are not paid at all, and only about four in every ten (39 percent) are paid only in cash for their work.

Table 3.7 Type of employment: Women

Percent distribution of women age 15-49 employed in the 12 months preceding the survey by type of earnings, type of employer, and continuity of employment, according to type of employment (agricultural or nonagricultural), Ethiopia 2011

| Employment characteristic | Agricultural work | Nonagricultural work | Total |
|--|-----------------------------|----------------------------|-----------------------------|
| Type of earnings | | | |
| Cash only Cash and in-kind In-kind only Not paid | 6.7 24.0 12.8 56.4 | 67.7 23.5 1.2 7.5 | 39.3 23.8 6.7 30.1 |
| Total | 100.0 | 100.0 | 100.0 |
| Type of employer Employed by family member Employed by nonfamily member Self-employed | 65.0 4.8 30.1 | 21.9 21.5 56.5 | 41.8 13.7 44.4 |
| Total | 100.0 | 100.0 | 100.0 |
| Continuity of employment All year Seasonal Occasional | 13.1 77.6 9.3 | 61.5 16.4 22.0 | 39.2 44.6 16.0 |
| Total | 100.0 | 100.0 | 100.0 |
| Weighted number of women employed during the last 12 months Unweighted number of women employed during the last 12 months | 4,373 3,143 | 5,033 5,227 | 9,535 8,533 |

Note: Total includes 12 cases with information missing on type of earnings, 12 cases with information missing on type of employer, and 15 cases with information missing on continuity of employment.

More than four in every ten employed women work for a family member (42 percent), and another four in every ten are self-employed (44 percent). Only 14 percent of employed women work for someone outside the family.

Sixty-five percent of women in the agricultural sector are working for a family member, compared with 22 percent in the nonagricultural sector. In addition, the proportion of women employed by someone outside the family is much higher among women in the nonagricultural sector than in the agricultural sector (22 percent versus 5 percent).

Three-quarters of women employed in the agricultural sector are seasonal workers. In contrast, the majority of women in the nonagricultural sector (62 percent) work all year. Sixteen percent of women are also employed occasionally, with more than twice as many women in the nonagricultural sector (22 percent) employed occasionally as women in the agricultural sector (9 percent).

3.8 HEALTH ISSUES

The 2011 EDHS asked women and men about their use of cigarettes or other tobacco, consumption of alcohol, and use of chat. This information is important in helping understand how widespread the use of these substances is among the adult population in Ethiopia. Also, the 2011 EDHS collected data on women's and men's knowledge and attitudes concerning tuberculosis (TB).

3.8.1 Use of Tobacco

Few women smoke cigarettes (35 female respondents) or use tobacco of any kind, according to the 2011 EDHS, and so data for women are not shown here. Table 3.8 shows data for men. Seven percent of men age 15-49 use tobacco products of some kind; 6 percent say that they smoke cigarettes. Men age 40-49 (11-13 percent) and men in Harari (27 percent), Somali and Dire Dawa (both 24 percent), and Affar (20 percent) are the most likely to smoke cigarettes.

Table 3.8 Use of tobacco: Men

Percentage of men age 15-49 who smoke cigarettes or use other tobacco products and the percent distribution of cigarette smokers, by number of cigarettes smoked in preceding 24 hours, according to background characteristics, Ethiopia 2011

| | Us | ses tobacc | 0 | | Un- | | t distribut er of ciga | | | | arettes by 4 hours | | Weighted | Un- weighted |
|---------------------------|------------|---------------|----------------------|------------------------------|--------|--------|---------------------------|--------|--------|-------|---------------------------|-------|----------|-----------------------------|
| Background characteristic | Cigarettes | Other tobacco | Does not use tobacco | Weighted number of men | | 0 | 1-2 | 3-5 | 6-9 | 10+ | Don't know/ missing | Total | | number of cigarette smokers |
| Age | | | | | | | | | | | | | | |
| 15-19 | 1.3 | 0.2 | 98.5 | 3,013 | 2,832 | 8.2 | 17.1 | 39.1 | 6.3 | 23.5 | 5.7 | 100.0 | 40 | 80 |
| 20-24 | 2.7 | 0.9 | 96.3 | 2,319 | 2,330 | 9.4 | 17.1 | 21.0 | 22.5 | 23.7 | 6.3 | 100.0 | 63 | 183 |
| 25-29 | 6.3 | 1.8 | 92.6 | 2,297 | 2,274 | 9.7 | 28.8 | 33.5 | 6.9 | 20.0 | 1.2 | 100.0 | 146 | 293 |
| 30-34 | 8.9 | 2.5 | 89.6 | 1,483 | 1,682 | 2.5 | 9.2 | 33.8 | 15.3 | 37.7 | 1.5 | 100.0 | 132 | 282 |
| 35-39 | 9.0 | 2.9 | 89.1 | 1,648 | 1,579 | 4.9 | 12.4 | 33.6 | 20.4 | 28.8 | 0.0 | 100.0 | 148 | 247 |
| 40-44 | 12.6 | 4.4 | 85.3 | 1,121 | 1,210 | 5.7 | 12.7 | 34.0 | 10.7 | 36.9 | 0.0 | 100.0 | 142 | 231 |
| 45-49 | 11.2 | 5.9 | 84.0 | 952 | 961 | 3.5 | 13.0 | 41.9 | 14.1 | 27.5 | 0.0 | 100.0 | 106 | 146 |
| Residence | | | | | | | | | | | | | | |
| Urban | 7.9 | 1.0 | 91.4 | 2,882 | 3,915 | 4.7 | 10.8 | 29.9 | 24.0 | 30.1 | 0.5 | 100.0 | 228 | 507 |
| Rural | 5.5 | 2.3 | 92.9 | 9,952 | 8,953 | 6.3 | 17.7 | 35.8 | 9.6 | 28.9 | 1.6 | 100.0 | 549 | 955 |
| Region | | | | | | | | | | | | | | |
| Tigray | 1.5 | 0.1 | 98.4 | 770 | 1,235 | * | * | * | * | * | * | 100.0 | 12 | 16 |
| Affar | 20.4 | 17.3 | 68.5 | 101 | 910 | 2.9 | 10.3 | 23.9 | 9.0 | 52.8 | 1.1 | 100.0 | 21 | 197 |
| Amhara | 2.0 | 1.1 | 97.0 | 3,481 | 1,739 | (12.8) | (15.9) | (28.9) | (27.0) | (9.6) | (5.7) | 100.0 | 68 | 30 |
| Oromiya | 8.8 | 2.0 | 90.2 | 4,957 | 1,889 | 3.7 | 15.5 | 37.4 | 12.1 | 30.6 | 0.8 | 100.0 | 434 | 174 |
| Somali | 23.9 | 6.1 | 73.8 | 245 | 653 | 5.9 | 8.4 | 16.0 | 12.1 | 57.6 | 0.0 | 100.0 | 58 | 159 |
| Benishangul-Gumuz | 9.5 | 7.9 | 85.4 | 138 | 1,047 | 6.6 | 15.4 | 34.7 | 9.3 | 33.9 | 0.0 | 100.0 | 13 | 114 |
| SNNP | 3.7 | 2.9 | 93.9 | 2,307 | 1,550 | 10.1 | 29.3 | 42.7 | 9.6 | 6.8 | 1.5 | 100.0 | 85 | 59 |
| Gambela | 17.6 | 5.4 | 79.1 | 59 | 865 | 5.4 | 12.9 | 35.7 | 14.5 | 31.5 | 0.0 | 100.0 | 10 | 164 |
| Harari | 26.6 | 2.8 | 71.3 | 40 | 898 | 3.2 | 6.0 | 15.4 | 16.9 | 57.3 | 1.1 | 100.0 | 11 | 242 |
| Addis Ababa | 7.6 | 0.6 | 91.9 | 682 | 1,237 | 10.5 | 12.8 | 31.2 | 18.1 | 26.5 | 1.0 | 100.0 | 52 | 100 |
| Dire Dawa | 23.6 | 4.7 | 72.6 | 53 | 845 | 3.5 | 4.5 | 23.0 | 18.0 | 50.5 | 0.4 | 100.0 | 13 | 207 |
| Education | | | | | | | | | | | | | | |
| No education | 6.7 | 4.3 | 90.2 | 3,785 | 3,659 | 6.3 | 15.5 | 32.2 | 14.2 | 30.3 | 1.5 | 100.0 | 253 | 495 |
| Primary | 5.9 | 1.2 | 93.4 | 6,813 | 6,334 | 4.7 | 17.2 | 35.3 | 10.5 | 30.9 | 1.4 | 100.0 | 405 | 665 |
| Secondary | 5.7 | 0.4 | 94.0 | 1,296 | 1,565 | 11.3 | 3.5 | 36.3 | 25.5 | 22.4 | 0.8 | 100.0 | 74 | 181 |
| More than secondary | 4.7 | 1.5 | 94.2 | 940 | 1,310 | 4.9 | 22.8 | 29.9 | 22.6 | 19.9 | 0.0 | 100.0 | 44 | 121 |
| Wealth quintile | | | | | | | | | | | | | | |
| Lowest | 6.8 | 4.9 | 89.6 | 2,141 | 2,563 | 5.3 | 19.3 | 40.5 | 5.8 | 26.7 | 2.4 | 100.0 | 147 | 364 |
| Second | 5.5 | 2.5 | 92.6 | 2,362 | 1,891 | 3.4 | 15.2 | 33.6 | 17.1 | 30.7 | 0.1 | 100.0 | 130 | 173 |
| Middle | 4.9 | 1.4 | 94.1 | 2,454 | 1,935 | 14.3 | 18.0 | 34.5 | 9.0 | 20.8 | 3.4 | 100.0 | 119 | 159 |
| Fourth | 5.8 | 1.4 | 93.7 | 2,683 | 2,203 | 3.4 | 14.7 | 41.5 | 9.9 | 29.3 | 1.2 | 100.0 | 157 | 234 |
| Highest | 7.0 | 0.8 | 92.4 | 3,194 | 4,276 | 4.9 | 13.1 | 24.7 | 22.4 | 34.6 | 0.3 | 100.0 | 224 | 532 |
| Total 15-49 | 6.1 | 2.0 | 92.6 | 12,834 | 12,868 | 5.9 | 15.7 | 34.1 | 13.8 | 29.3 | 1.3 | 100.0 | 777 | 1,462 |
| 50-59 | 10.8 | 8.0 | 84.5 | 1,276 | 1,242 | 9.0 | 17.1 | 27.9 | 9.2 | 35.3 | 1.6 | 100.0 | 137 | 192 |
| Total 15-59 | 6.5 | 2.6 | 91.9 | 14,110 | 14,110 | 6.3 | 15.9 | 33.1 | 13.1 | 30.2 | 1.4 | 100.0 | 914 | 1,654 |

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

Among men age 15-49 who smoke cigarettes, the largest proportion (34 percent) had smoked three to five cigarettes in the previous 24 hours, while another 29 percent had smoked 10 or more cigarettes in the previous 24 hours.

3.8.2 Alcohol Consumption

Tables 3.9.1 and 3.9.2 show the percentage of respondents age 15-49 who ever drank alcohol and the percent distribution by the number of days they drank alcohol in the last 30 days, according to respondents' background characteristics. Forty-five percent of women and 53 percent of men reported drinking alcohol at some point in their lives. For both women and men this proportion increases with age, and it is higher among urban residents than rural residents. Among regions the percentage of respondents who ever drank alcohol ranges from 2 percent of women and 5 percent of men in Somali to 86 percent of women and 91 percent of men in Tigray. Alcohol consumption is highest among both women and men with more than secondary education and in the highest wealth quintile, but there is no clear association between alcohol consumption and education and wealth in general.

Table 3.9.1 Alcohol consumption: Women

Percentage of women age 15-49 who ever drank alcohol, and among women who ever drank alcohol, percent distribution by the number of days they drank alcohol in the last 30 days, according to background characteristics, Ethiopia 2011

| | Percentage of all women who | Weighted | Unweighted | | of days the | ever dran y drank alco 0 days | | Weighted number of women who | Unweighted number of women who | |
|---------------------------|-----------------------------------|--------------------|--------------------|-------|-------------|-------------------------------------|-------|------------------------------------|--------------------------------|--|
| Background characteristic | ever drank alcohol | number of women | number of women | None | 1-5 | 6+ | Total | ever drank alcohol | ever drank alcohol | |
| Age | | | | | | | | | | |
| 15-19 | 40.4 | 4,009 | 3,835 | 10.5 | 50.0 | 39.4 | 100.0 | 1,619 | 1,333 | |
| 20-24 | 44.2 | 2,931 | 3,022 | 9.3 | 48.2 | 42.5 | 100.0 | 1,296 | 1,153 | |
| 25-29 | 44.5 | 3,147 | 3,185 | 8.3 | 42.5 | 49.0 | 100.0 | 1,400 | 1,184 | |
| 30-34 | 44.9 | 2,054 | 2,100 | 8.7 | 37.0 | 54.0 | 100.0 | 922 | 796 | |
| 35-39 | 49.0 | 1,916 | 1,958 | 10.4 | 35.6 | 53.9 | 100.0 | 940 | 807 | |
| 40-44 | 45.1 | 1,261 | 1,314 | 10.2 | 37.1 | 52.4 | 100.0 | 569 | 525 | |
| 45-49 | 52.9 | 1,196 | 1,101 | 10.9 | 34.0 | 55.1 | 100.0 | 633 | 536 | |
| Residence | | | | | | | | | | |
| Urban | 49.5 | 3,947 | 5,329 | 16.7 | 55.4 | 27.7 | 100.0 | 1,954 | 2,095 | |
| Rural | 43.2 | 12,568 | 11,186 | 7.1 | 37.8 | 55.0 | 100.0 | 5,424 | 4,239 | |
| Region | | | | | | | | | | |
| Tigray | 86.3 | 1,104 | 1,728 | 2.1 | 54.4 | 43.3 | 100.0 | 952 | 1,511 | |
| Affar | 4.0 | 145 | 1,291 | (6.2) | (67.2) | (26.6) | 100.0 | 6 | 37 | |
| Amhara | 78.3 | 4,433 | 2,087 | 4.9 | 30.7 | 64.2 | 100.0 | 3,469 | 1,613 | |
| Oromiya | 28.7 | 6,011 | 2,135 | 11.6 | 55.3 | 32.9 | 100.0 | 1,722 | 602 | |
| Somali | 2.4 | 329 | 914 | * | * | * | 100.0 | 8 | 18 | |
| Benishangul-Gumuz | 42.4 | 174 | 1,259 | 2.4 | 42.9 | 54.7 | 100.0 | 74 | 554 | |
| SNNP | 19.7 | 3,236 | 2,034 | 20.5 | 46.0 | 33.5 | 100.0 | 637 | 399 | |
| Gambela | 41.6 | 69 | 1,130 | 17.8 | 48.9 | 33.3 | 100.0 | 29 | 361 | |
| Harari | 17.2 | 49 | 1,101 | 47.0 | 45.4 | 7.7 | 100.0 | 8 | 191 | |
| Addis Ababa | 51.6 | 896 | 1,741 | 38.3 | 50.7 | 10.6 | 100.0 | 462 | 906 | |
| Dire Dawa | 15.0 | 69 | 1,095 | 10.5 | 71.8 | 17.8 | 100.0 | 10 | 142 | |
| Education | | | | | | | | | | |
| No education | 47.3 | 8,394 | 8,278 | 6.8 | 33.2 | 59.8 | 100.0 | 3,972 | 3,056 | |
| Primary | 39.9 | 6,276 | 5,858 | 10.8 | 49.9 | 39.2 | 100.0 | 2,504 | 2,224 | |
| Secondary | 46.3 | 1,117 | 1,395 | 15.7 | 60.2 | 24.0 | 100.0 | 517 | 586 | |
| More than secondary | 52.7 | 728 | 984 | 23.7 | 65.4 | 10.8 | 100.0 | 384 | 468 | |
| Wealth quintile | | | | | | | | | | |
| Lowest | 45.0 | 2,986 | 3,711 | 7.3 | 39.9 | 52.8 | 100.0 | 1,344 | 1,229 | |
| Second | 46.4 | 3,041 | 2,402 | 5.4 | 37.9 | 56.6 | 100.0 | 1,412 | 1,055 | |
| Middle | 44.8 | 3,031 | 2,268 | 5.3 | 33.6 | 60.8 | 100.0 | 1,358 | 936 | |
| Fourth | 39.3 | 3,215 | 2,505 | 10.0 | 38.6 | 51.2 | 100.0 | 1,264 | 917 | |
| Highest | 47.1 | 4,242 | 5,629 | 16.9 | 55.7 | 27.2 | 100.0 | 2,000 | 2,197 | |
| Total | 44.7 | 16,515 | 16,515 | 9.6 | 42.4 | 47.8 | 100.0 | 7,378 | 6,334 | |

Table 3.9.2 Alcohol consumption: Men

Percentage of men age 15-49 who ever drank alcohol, and among men who ever drank alcohol, percent distribution by the number of days they drank alcohol in the last 30 days, according to background characteristics, Ethiopia 2011

| | Percentage of all men who ever | Weighted | Unweighted | | g men who of days they last 3 | | | Weighted number of men who | Unweighted number of men who |
|-------------------------------|--------------------------------------|------------------|------------------|--------------|-------------------------------------|--------------|----------------|----------------------------------|------------------------------|
| Background characteristic | drank alcohol | number of men | number of men | None | 1-5 | 6+ | Total | ever drank alcohol | ever drank alcohol |
| Age | | | | | | | | | |
| 15-19 | 48.2 | 3,013 | 2,832 | 7.9 | 50.0 | 42.1 | 100.0 | 1,452 | 1,240 |
| 20-24 | 51.8 | 2,319 | 2,330 | 10.1 | 44.8 | 44.8 | 100.0 | 1,200 | 1,161 |
| 25-29 | 53.6 | 2,297 | 2,274 | 10.1 | 33.3 | 56.4 | 100.0 | 1,231 | 1,202 |
| 30-34 | 53.5 | 1,483 | 1,682 | 10.1 | 32.6 | 57.1 | 100.0 | 794 | 841 |
| 35-39 | 54.0 | 1,648 | 1,579 | 13.5 | 30.0 | 56.4 | 100.0 | 890 | 825 |
| 40-44 | 58.6 | 1,121 | 1,210 | 11.0 | 25.9 | 62.8 | 100.0 | 657 | 643 |
| 45-49 | 62.9 | 952 | 961 | 8.8 | 28.0 | 62.4 | 100.0 | 599 | 546 |
| Residence | | | | | | | | | |
| Urban | 60.8 | 2,882 | 3,915 | 15.1 | 45.2 | 39.5 | 100.0 | 1,753 | 2,253 |
| Rural | 50.9 | 9,952 | 8,953 | 8.3 | 34.4 | 57.0 | 100.0 | 5,070 | 4,205 |
| Region | | | | | | | | | |
| Tigray | 91.3 | 770 | 1,235 | 3.6 | 36.6 | 59.7 | 100.0 | 703 | 1,139 |
| Affar | 9.8 | 101 | 910 | 8.6 | 41.4 | 50.0 | 100.0 | 10 | 66 |
| Amhara | 84.2 | 3,481 | 1,739 | 4.4 | 28.4 | 66.9 | 100.0 | 2,930 | 1,457 |
| Oromiya | 33.9 | 4,957 | 1,889 | 10.1 | 46.2 | 43.4 | 100.0 | 1,682 | 627 |
| Somali | 4.9 | 245 | 653 | (19.1) | (53.3) | (27.6) | 100.0 | 12 | 25 |
| Benishangul-Gumuz | 59.6 | 138 | 1,047 | 4.8 | 46.6 | 48.4 | 100.0 | 82 | 635 |
| SNNP | 35.8 | 2,307 | 1,550 | 25.8 | 38.4 | 35.5 | 100.0 | 825 | 560 |
| Gambela | 58.4 | 59 | 865 | 9.0 | 44.1 | 46.9 | 100.0 | 35 | 493 |
| Harari | 26.6 | 40 | 898 | 25.8 | 48.9 | 25.3 | 100.0 | 11 | 227 |
| Addis Ababa | 75.0 | 682 | 1,237 | 25.2 | 53.5 | 21.2 | 100.0 | 512 | 935 |
| Dire Dawa | 40.6 | 53 | 845 | 29.4 | 47.6 | 23.0 | 100.0 | 22 | 294 |
| Education | 00.0 | 0.705 | 0.050 | | 00.5 | 07.0 | 400.0 | 0.000 | 4 770 |
| No education | 60.8 | 3,785 | 3,659 | 5.5 | 26.5 | 67.6 | 100.0 | 2,302 | 1,773 |
| Primary | 47.8 53.2 | 6,813 | 6,334 | 11.1 | 38.7 51.8 | 50.1 32.7 | 100.0 100.0 | 3,253 690 | 3,012 854 |
| Secondary More than secondary | 53.2 61.5 | 1,296 940 | 1,565 1,310 | 15.5 15.5 | 54.1 | 32.7 29.9 | 100.0 | 578 | 819 |
| | 61.5 | 940 | 1,310 | 15.5 | 54.1 | 29.9 | 100.0 | 5/6 | 019 |
| Wealth quintile | 50.4 | 0.444 | 0.500 | 0.4 | 00.0 | 00.7 | 400.0 | 4.400 | 4.407 |
| Lowest | 53.1 | 2,141 | 2,563 | 6.4 | 32.6 | 60.7 | 100.0 | 1,136 | 1,127 |
| Second | 55.0 | 2,362 | 1,891 | 6.3 | 36.8 | 56.8 | 100.0 | 1,299 | 1,009 |
| Middle Fourth | 52.1 47.5 | 2,454 2,683 | 1,935 2,203 | 8.2 10.4 | 33.1 33.4 | 58.3 56.3 | 100.0 100.0 | 1,279 1,275 | 954 994 |
| Highest | 47.5 57.4 | 2,063 3,194 | 2,203 4,276 | 16.0 | 33.4 45.8 | 37.8 | 100.0 | 1,275 | 2,374 |
| • | | | | | | | | | |
| Total 15-49 | 53.2 | 12,834 | 12,868 | 10.0 | 37.2 | 52.5 | 100.0 | 6,823 | 6,458 |
| 50-59 | 68.8 | 1,276 | 1,242 | 9.3 | 30.2 | 60.3 | 100.0 | 878 | 765 |
| Total 15-59 | 54.6 | 14,110 | 14,110 | 10.0 | 36.4 | 53.4 | 100.0 | 7,700 | 7,223 |

Note: Total includes 15 cases with information missing on the number of days they drank alcohol in the last 30 days. Figures in parentheses are based on 25-49 unweighted cases.

Among respondents who ever drank alcohol, the majority drank on six or more days in the preceding 30 days (48 percent of women and 53 percent of men).

3.8.3 Chewing Chat

Chat is a plant native to the Horn of Africa and the Arabian Peninsula. Chat chewing in communities in these areas is a social custom that dates back thousands of years. However, chat is a strong stimulant that causes mild to moderate psychological dependence, although not as strong as that of alcohol and tobacco, and its consumption can have serious health and economic consequences.

Tables 3.10.1 and 3.10.2 show the percentages of women and men who have ever chewed chat and, among respondents who ever chewed chat, the percent distribution by the number of days that they chewed chat in the last 30 days, according to respondents' background characteristics. Eleven percent of women and 28 percent of men reported that they had ever chewed chat. Among both women and men, this proportion increases with age. Among women, chat consumption is higher in rural areas than in urban areas (12 percent versus 7 percent), while among men there is no marked difference by place of residence. The percentage of respondents who ever chewed chat is lowest in Tigray (1 percent of women and 4 percent of men) and highest in Harari (39 percent of women and 82 percent of men). The percentage who ever chewed chat is highest among women with no education (14 percent) and among men with more than secondary education (32 percent). Women in the highest wealth quintile are the least likely to have ever chewed chat (8 percent). Conversely, men in the highest wealth quintile are the most likely to have chewed chat (31 percent).

Among respondents who have ever chewed chat, most chewed chat on six or more days in the last 30 days (43 percent of women and 57 percent of men).

<u>Table 3.10.1 Chewing chat: Women</u>

Percentage of women age 15-49 who ever chewed chat, and among women who ever chewed chat, percent distribution by the number of days they

chewed chat in the last 30 days, according to background characteristics, Ethiopia 2011

| | Percentage who ever | Weighted | Unweighted | | | | wed chat, nu the last 30 c | | Weighted number of women who | Unweighted number of women who |
|---------------------------|------------------------|--------------------|--------------------|--------|--------|-------|-------------------------------|-------|------------------------------------|--------------------------------|
| Background characteristic | chewed chat | number of women | number of women | None | 1-5 | 6+ | Missing | Total | ever chewed chat | |
| Age | | | | | | | | | | |
| Ī5-19 | 5.6 | 4,009 | 3,835 | 15.1 | 48.5 | 36.4 | 0.1 | 100.0 | 224 | 176 |
| 20-24 | 9.3 | 2,931 | 3,022 | 22.3 | 48.6 | 29.1 | 0.0 | 100.0 | 272 | 269 |
| 25-29 | 12.3 | 3,147 | 3,185 | 15.0 | 42.3 | 42.0 | 0.7 | 100.0 | 388 | 382 |
| 30-34 | 13.0 | 2,054 | 2,100 | 14.2 | 32.9 | 51.9 | 0.9 | 100.0 | 268 | 266 |
| 35-39 | 14.0 | 1,916 | 1,958 | 18.8 | 29.2 | 50.8 | 1.1 | 100.0 | 269 | 292 |
| 40-44 | 17.4 | 1,261 | 1,314 | 16.8 | 36.9 | 46.3 | 0.0 | 100.0 | 220 | 201 |
| 45-49 | 15.0 | 1,196 | 1,101 | 15.1 | 38.8 | 46.0 | 0.0 | 100.0 | 180 | 174 |
| Residence | | | | | | | | | | |
| Urban | 6.8 | 3,947 | 5,329 | 36.8 | 32.0 | 31.2 | 0.0 | 100.0 | 269 | 699 |
| Rural | 12.3 | 12,568 | 11,186 | 13.3 | 41.0 | 45.1 | 0.5 | 100.0 | 1,551 | 1,061 |
| Region | | | | | | | | | | |
| Tigray | 0.9 | 1,104 | 1,728 | * | * | * | 0.0 | 100.0 | 10 | 15 |
| Affar | 6.9 | 145 | 1,291 | 7.0 | 52.3 | 40.7 | 0.0 | 100.0 | 10 | 74 |
| Amhara | 7.6 | 4,433 | 2,087 | 26.7 | 55.3 | 18.0 | 0.0 | 100.0 | 336 | 176 |
| Oromiya | 20.0 | 6,011 | 2,135 | 11.0 | 35.5 | 52.8 | 0.7 | 100.0 | 1,200 | 429 |
| Somali | 7.3 | 329 | 914 | 13.6 | 40.6 | 45.8 | 0.0 | 100.0 | 24 | 63 |
| Benishangul-Gumuz | 3.3 | 174 | 1,259 | (24.9) | (65.1) | (7.9) | 2.1 | 100.0 | 6 | 45 |
| SNNP | 4.2 | 3,236 | 2,034 | 26.8 | 42.6 | 30.6 | 0.0 | 100.0 | 137 | 81 |
| Gambela | 14.2 | 69 | 1,130 | 43.3 | 40.6 | 16.2 | 0.0 | 100.0 | 10 | 55 |
| Harari | 39.2 | 49 | 1,101 | 12.0 | 25.3 | 62.3 | 0.5 | 100.0 | 19 | 433 |
| Addis Ababa | 5.7 | 896 | 1,741 | 55.5 | 31.0 | 13.5 | 0.0 | 100.0 | 51 | 96 |
| Dire Dawa | 27.1 | 69 | 1,095 | 3.8 | 33.5 | 62.7 | 0.0 | 100.0 | 19 | 293 |
| Education | | | | | | | | | | |
| No education | 13.7 | 8,394 | 8,278 | 11.2 | 38.2 | 50.3 | 0.3 | 100.0 | 1,148 | 919 |
| Primary | 9.0 | 6,276 | 5,858 | 22.1 | 43.0 | 34.0 | 0.9 | 100.0 | 567 | 590 |
| Secondary | 4.9 | 1,117 | 1,395 | 54.8 | 40.0 | 5.3 | 0.0 | 100.0 | 55 | 150 |
| More than secondary | 6.9 | 728 | 984 | 41.9 | 37.1 | 21.0 | 0.0 | 100.0 | 50 | 101 |
| Wealth quintile | | | | | | | | | | |
| Lowest | 10.3 | 2,986 | 3,711 | 12.9 | 36.8 | 50.3 | 0.0 | 100.0 | 308 | 187 |
| Second | 12.4 | 3,041 | 2,402 | 14.4 | 33.8 | 51.1 | 0.8 | 100.0 | 377 | 226 |
| Middle | 12.9 | 3,031 | 2,268 | 10.9 | 37.5 | 50.9 | 0.7 | 100.0 | 392 | 251 |
| Fourth | 12.2 | 3,215 | 2,505 | 15.5 | 55.4 | 28.4 | 0.7 | 100.0 | 394 | 302 |
| Highest | 8.2 | 4,242 | 5,629 | 30.8 | 33.3 | 35.8 | 0.0 | 100.0 | 350 | 794 |
| Total | 11.0 | 16,515 | 16,515 | 16.8 | 39.7 | 43.1 | 0.5 | 100.0 | 1,820 | 1,760 |

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

Table 3.10.2 Chewing chat: Men

Percentage of men age 15-49 who ever chewed chat, and among men who ever chewed chat, percent distribution by the number of days they chewed chat in the last 30 days, according to background characteristics, Ethiopia 2011

| | | | | | | | chat, numbe e last 30 day | | Weighted number of | Unweighted number of |
|---------------------------|--|------------------------------|--------------------------|--------|--------|--------------------|------------------------------|-------|-----------------------------------|-----------------------------------|
| Background characteristic | Percentage who ever chewed chat | Weighted number of men | Unweighted number of men | None | 1-5 | 6+ | Missing | Total | men who ever chewed chat | men who ever chewed chat |
| Age | | | | | | | | | | |
| 15-19 | 14.9 | 3,013 | 2,832 | 12.9 | 28.6 | 58.6 | 0.0 | 100.0 | 448 | 506 |
| 20-24 | 28.6 | 2,319 | 2,330 | 15.4 | 30.7 | 53.8 | 0.0 | 100.0 | 662 | 803 |
| 25-29 | 32.2 | 2,297 | 2,274 | 18.0 | 24.2 | 57.8 | 0.0 | 100.0 | 740 | 931 |
| 30-34 | 34.5 | 1,483 | 1,682 | 17.7 | 26.9 | 55.3 | 0.1 | 100.0 | 511 | 728 |
| 35-39 | 30.4 | 1,648 | 1,579 | 18.4 | 25.3 | 56.3 | 0.0 | 100.0 | 501 | 620 |
| 40-44 | 34.5 | 1,121 | 1,210 | 18.3 | 23.4 | 57.6 | 0.6 | 100.0 | 387 | 511 |
| 45-49 | 31.0 | 952 | 961 | 21.7 | 19.7 | 58.4 | 0.2 | 100.0 | 295 | 361 |
| Residence | | | | | | | | | | |
| Urban | 28.9 | 2,882 | 3,915 | 31.2 | 30.2 | 38.5 | 0.1 | 100.0 | 833 | 1,782 |
| Rural | 27.2 | 9,952 | 8,953 | 12.9 | 24.8 | 62.2 | 0.1 | 100.0 | 2,711 | 2,678 |
| Region | | | | | | | | | | |
| Tigray | 3.7 | 770 | 1,235 | (40.4) | (41.9) | (17.7) | 0.0 | 100.0 | 29 | 46 |
| Affar | 33.8 | 101 | 910 | ` 3.9 | `32.3 | `63.9 [′] | 0.0 | 100.0 | 34 | 310 |
| Amhara | 12.6 | 3,481 | 1,739 | 21.2 | 54.0 | 24.8 | 0.0 | 100.0 | 440 | 230 |
| Oromiya | 40.6 | 4,957 | 1,889 | 9.3 | 20.3 | 70.3 | 0.1 | 100.0 | 2,014 | 776 |
| Somali | 54.1 | 245 | 653 | 7.4 | 18.6 | 73.6 | 0.3 | 100.0 | 132 | 376 |
| Benishangul-Gumuz | 18.7 | 138 | 1,047 | 26.5 | 55.1 | 18.0 | 0.4 | 100.0 | 26 | 200 |
| SNNP | 20.2 | 2,307 | 1,550 | 28.9 | 22.2 | 48.9 | 0.0 | 100.0 | 466 | 311 |
| Gambela | 32.7 | 59 | 865 | 27.9 | 30.8 | 41.3 | 0.0 | 100.0 | 19 | 223 |
| Harari | 81.9 | 40 | 898 | 8.8 | 11.2 | 79.9 | 0.0 | 100.0 | 33 | 742 |
| Addis Ababa | 45.2 | 682 | 1,237 | 49.2 | 31.1 | 19.6 | 0.2 | 100.0 | 308 | 559 |
| Dire Dawa | 79.1 | 53 | 845 | 15.1 | 15.5 | 69.2 | 0.3 | 100.0 | 42 | 687 |
| Education | | | | | | | | | | |
| No education | 27.2 | 3,785 | 3,659 | 10.3 | 21.9 | 67.8 | 0.0 | 100.0 | 1,028 | 1,192 |
| Primary | 27.4 | 6,813 | 6,334 | 16.7 | 26.9 | 56.2 | 0.1 | 100.0 | 1,870 | 2,054 |
| Secondary | 26.4 | 1,296 | 1,565 | 27.6 | 26.3 | 46.1 | 0.0 | 100.0 | 342 | 639 |
| More than | | | | | | | | | | |
| secondary | 32.3 | 940 | 1,310 | 32.2 | 34.4 | 33.0 | 0.3 | 100.0 | 304 | 575 |
| Wealth quintile | | | | | | | | | | |
| Lowest | 23.9 | 2,141 | 2,563 | 12.4 | 23.5 | 63.6 | 0.5 | 100.0 | 511 | 635 |
| Second | 26.2 | 2,362 | 1,891 | 14.0 | 24.3 | 61.7 | 0.0 | 100.0 | 618 | 512 |
| Middle | 27.1 | 2,454 | 1,935 | 13.1 | 24.6 | 62.3 | 0.0 | 100.0 | 666 | 567 |
| Fourth | 28.7 | 2,683 | 2,203 | 12.9 | 24.7 | 62.4 | 0.0 | 100.0 | 770 | 754 |
| Highest | 30.7 | 3,194 | 4,276 | 27.9 | 30.6 | 41.4 | 0.1 | 100.0 | 979 | 1,992 |
| Total 15-49 | 27.6 | 12,834 | 12,868 | 17.2 | 26.1 | 56.6 | 0.1 | 100.0 | 3,544 | 4,460 |
| 50-59 | 27.3 | 1,276 | 1,242 | 25.0 | 25.0 | 49.9 | 0.1 | 100.0 | 348 | 424 |
| Total 15-59 | 27.6 | 14,110 | 14,110 | 17.9 | 26.0 | 56.0 | 0.1 | 100.0 | 3,892 | 4,884 |

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

3.8.4 **Knowledge and Attitudes Concerning Tuberculosis**

The 2011 EDHS collected data on women's and men's knowledge and attitudes concerning tuberculosis (TB). Tables 3.11.1 and 3.11.2 show the percentage of women and men who have heard of TB, and, among those who have heard of TB, the percentage who know that TB is spread through the air by coughing, the percentage who believe that TB can be cured, and the percentage who would want a family member's TB to be kept a secret.

Table 3.11.1 Knowledge and attitude concerning tuberculosis: Women

Percentage of women age 15-49 who have heard of tuberculosis (TB), and, among women who have heard of TB, the percentage who know that TB is spread through the air by coughing, the percentage who believe that TB can be cured, and the percentage who would want to keep secret that a family member has TB, by background characteristics, Ethiopia 2011

| | | | | Among wom | en who have h | neard of TB: | | |
|---|--|--|---|--|--|--|--|---|
| Background characteristic | Percentage of all women who have heard of TB | Weighted number of women | Unweighted number of women | Percentage who report that TB is spread through the air by coughing | Percentage who believe that TB can be cured | Percentage who would want a family member's TB kept secret | Weighted number of women who ever heard of TB | Unweighted number of women who ever heard of TB |
| Age | | | | | | | | |
| 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 88.4 89.9 90.0 89.3 91.5 91.1 91.6 | 4,009 2,931 3,147 2,054 1,916 1,261 1,196 | 3,835 3,022 3,185 2,100 1,958 1,314 1,101 | 55.3 57.2 53.9 57.1 56.9 55.9 51.8 | 74.7 82.6 80.2 82.1 81.6 78.1 80.6 | 29.7 26.6 24.5 24.2 23.2 24.2 22.6 | 3,544 2,635 2,833 1,835 1,754 1,149 1,096 | 3,444 2,768 2,901 1,885 1,811 1,215 1,021 |
| Residence | | | | | | | | |
| Urban Rural | 97.4 87.5 | 3,947 12,568 | 5,329 11,186 | 69.3 50.8 | 88.5 76.5 | 21.5 27.3 | 3,846 11,000 | 5,192 9,853 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa Education No education Primary Secondary More than secondary | 97.7 94.4 89.4 86.3 84.4 84.5 92.5 88.5 96.6 98.8 96.1 | 1,104 145 4,433 6,011 329 174 3,236 69 49 896 69 8,394 6,276 1,117 728 | 1,728 1,291 2,087 2,135 914 1,259 2,034 1,130 1,101 1,741 1,095 8,278 5,858 1,395 984 | 51.5 58.7 49.6 56.8 48.4 60.0 58.9 47.6 72.1 68.6 67.4 47.5 58.7 73.0 83.4 | 93.5 91.5 81.0 80.7 89.6 85.3 65.6 83.0 90.4 89.4 88.2 76.3 78.9 93.5 96.4 | 13.6 28.1 25.7 17.9 28.0 31.2 45.6 42.3 10.4 18.0 24.3 24.8 29.6 20.4 | 1,078 137 3,964 5,189 278 147 2,993 61 47 885 66 7,202 5,814 1,107 723 | 1,687 1,206 1,849 1,849 751 1,040 1,873 961 1,062 1,719 1,048 7,203 5,480 1,382 980 |
| Wealth quintile Lowest Second Middle Fourth Highest | 84.6 87.5 86.2 90.8 97.3 | 2,986 3,041 3,031 3,215 4,242 | 3,711 2,402 2,268 2,505 5,629 | 47.6 50.7 51.2 53.2 67.9 | 72.5 76.5 76.1 78.5 88.9 | 25.2 26.1 29.3 28.5 21.7 | 2,525 2,660 2,612 2,921 4,129 | 3,165 2,116 1,992 2,290 5,482 |
| Total | 89.9 | 16,515 | 16,515 | 55.6 | 79.6 | 25.8 | 14,846 | 15,045 |

Table 3.11.2 Knowledge and attitude concerning tuberculosis: Men

Percentage of men age 15-49 who have heard of tuberculosis (TB), and among men who have heard of TB, the percentage who know that TB is spread through the air by coughing, the percentage who believe that TB can be cured, and the percentage who would want to keep secret that a family member has TB, by background characteristics, Ethiopia 2011

| | Among men who have heard of TB: | | | | | | | | |
|---------------------------|---------------------------------------|------------------------------|--------------------------------|---|--|--|---|---|--|
| Background characteristic | Percentage who have heard of TB | Weighted number of men | Unweighted number of men | Percentage who report that TB is spread through the air by coughing | Percentage who believe that TB can be cured | Percentage who would want a family member's TB kept secret | Weighted number of men who ever heard of TB | Unweighted number of men who ever heard of TB | |
| Age | | | | | | | | | |
| 15-19 | 89.3 | 3,013 | 2,832 | 59.8 | 82.8 | 23.7 | 2,692 | 2,571 | |
| 20-24 | 95.4 | 2,319 | 2,330 | 63.9 | 89.3 | 20.3 | 2,212 | 2,251 | |
| 25-29 | 95.6 | 2,297 | 2,274 | 68.6 | 91.1 | 16.6 | 2,196 | 2,186 | |
| 30-34 | 97.9 | 1,483 | 1,682 | 67.8 | 92.2 | 18.0 | 1,452 | 1,644 | |
| 35-39 | 96.1 | 1,648 | 1,579 | 67.9 | 91.5 | 13.1 | 1,585 | 1,529 | |
| 40-44 | 97.6 | 1,121 | 1,210 | 65.6 | 93.6 | 15.5 | 1,095 | 1,180 | |
| 45-49 | 98.0 | 952 | 961 | 68.2 | 89.2 | 14.7 | 934 | 943 | |
| Residence | | | | | | | | | |
| Urban | 98.9 | 2,882 | 3,915 | 74.7 | 93.6 | 12.3 | 2,849 | 3,882 | |
| Rural | 93.6 | 9,952 | 8,953 | 62.4 | 87.8 | 20.2 | 9,316 | 8,422 | |
| Region | | | | | | | | | |
| Tigray | 97.6 | 770 | 1,235 | 56.7 | 94.7 | 13.0 | 752 | 1,204 | |
| Affar | 97.5 | 101 | 910 | 72.8 | 93.7 | 20.6 | 99 | 884 | |
| Amhara | 93.2 | 3,481 | 1,739 | 54.0 | 88.8 | 19.0 | 3,243 | 1,611 | |
| Oromiya | 94.7 | 4,957 | 1,889 | 71.6 | 91.2 | 11.8 | 4,694 | 1,786 | |
| Somali | 90.8 | 245 | 653 | 49.6 | 95.1 | 14.9 | 222 | 588 | |
| Benishangul-Gumuz | 92.6 | 138 | 1,047 | 68.1 | 89.9 | 27.1 | 128 | 953 | |
| SNNP | 95.3 | 2,307 | 1,550 | 67.5 | 81.3 | 36.6 | 2,198 | 1,472 | |
| Gambela | 98.1 | 59 | 865 | 59.6 | 91.9 | 15.6 | 58 | 843 | |
| Harari | 99.1 | 40 | 898 | 83.8 | 94.7 | 9.1 | 40 | 890 | |
| Addis Ababa | 99.6 | 682 | 1,237 | 79.5 | 93.0 | 7.7 | 680 | 1,233 | |
| Dire Dawa | 99.6 | 53 | 845 | 85.3 | 97.5 | 9.2 | 53 | 840 | |
| Education | | | | | | | | | |
| No education | 90.8 | 3,785 | 3,659 | 54.0 | 87.6 | 17.8 | 3,436 | 3,365 | |
| Primary | 95.5 | 6,813 | 6,334 | 66.4 | 87.5 | 20.5 | 6,504 | 6,076 | |
| Secondary | 99.3 | 1,296 | 1,565 | 75.5 | 95.4 | 15.3 | 1,287 | 1,558 | |
| More than secondary | 99.8 | 940 | 1,310 | 85.1 | 98.0 | 9.1 | 938 | 1,305 | |
| Wealth quintile | 00.4 | 0.444 | 0.500 | 50.7 | 05.5 | 04.4 | 4.000 | 0.054 | |
| Lowest | 90.4 | 2,141 | 2,563 | 56.7 | 85.5 | 21.4 | 1,936 | 2,351 | |
| Second | 93.4 | 2,362 | 1,891 | 61.9 | 87.8 | 21.4 | 2,205 | 1,771 | |
| Middle | 93.8 | 2,454 | 1,935 | 60.8 | 86.9 | 19.6 | 2,303 | 1,821 | |
| Fourth | 95.6 | 2,683 | 2,203 | 66.7 | 89.1 | 19.9 | 2,565 | 2,121 | |
| Highest | 98.8 | 3,194 | 4,276 | 75.2 | 94.2 | 12.0 | 3,157 | 4,240 | |
| Total 15-49 | 94.8 | 12,834 | 12,868 | 65.3 | 89.2 | 18.3 | 12,166 | 12,304 | |
| 50-59 | 97.8 | 1,276 | 1,242 | 62.1 | 90.8 | 13.2 | 1,247 | 1,214 | |
| Total 15-59 | 95.1 | 14,110 | 14,110 | 65.0 | 89.3 | 17.8 | 13,413 | 13,518 | |

Awareness of TB is almost universal in Ethiopia; 90 percent of women and 95 percent of men age 15-49 have heard about TB. Knowledge of other aspects of TB is also widespread. Fifty-six percent of women and 65 percent of men age 15-49 who have heard of TB know that it is spread through the air by coughing, and 80 percent of women and 89 percent of men know that TB can be cured. Finally, there appears to be little stigma attached to TB in Ethiopia. Only 26 percent of women and 18 percent of men say that if a family member had TB they would want to keep it a secret.

Rural women and men are less likely than urban residents to know that TB is spread through the air by coughing and to believe that TB can be cured. Among women who have heard about TB, women in Gambela are the least likely to know that TB is spread through the air by coughing (48 percent), and women in the SNNP region are the least likely to know that TB can be cured (66 percent). Among men, those in the Somali region are the least likely to know that TB is spread through the air by coughing (50 percent), and men in the SNNP region are the least likely to know that TB can be cured (81 percent).

Among both women and men who have heard about TB, the percentages who know that TB is spread through the air by coughing and that it can be cured increases steadily as levels of education and wealth increase.

Rural women and men who have heard of TB are more likely than those in urban areas to want to keep secret a family member's TB infection. Women in SNNP and Gambela and men in SNNP are most likely to report that they would want to keep a family member's TB infection a secret. This proportion decreases with respondent's education and also tends to decrease with wealth, especially among men.

Key Findings

- The median age at first marriage among women age 25-49 is 16.5 years in 2011. For men age 25-59, the median age at first marriage is 23.1 years.
- There has been a small increase in the age at first marriage among women in the last six years. In contrast, men are marrying slightly earlier now than six years ago.
- The percentage never-married has increased slightly in the last six years, from 25 to 27 percent among women age 15-49 and remained unchanged among men age 15-59.
- The percentage of women who were first married by exact age 15 has declined from 39 percent among women currently age 45-49 to 8 percent among women age 15-19. A similar pattern is seen among men.
- Ethiopian men marry about seven years later than women.
- Ethiopian women generally begin sexual intercourse at the time of their first marriage. In contrast, men initiate sexual intercourse two years before their first marriage.

his chapter addresses the principal factors, other than contraception, that affect a woman's risk of becoming pregnant. These factors are marriage, polygyny, and sexual activity.

4.1 CURRENT MARITAL STATUS

For most women marriage marks the onset of regular exposure to the risk of pregnancy. Therefore, information on age at marriage is important for understanding fertility. Populations in which age at first marriage is low tend to have early childbearing and high fertility.

Table 4.1 presents the percent distribution of women by marital status, according to age group. The term 'married' refers to legal or formal marriage, while the term 'living together' designates an informal union in which a man and a woman live together but a formal civil or religious ceremony has not taken place. In later tables that do not list 'living together' as a separate category, these women are included in the 'currently married' group. Respondents who are currently married, widowed, divorced, or separated are referred to as 'ever married'.

Twenty-seven percent of women age 15-49 have never married, 58 percent are currently married, 4 percent are living together with a man, and 11 percent are divorced, separated, or widowed. The low proportion (less than 1 percent) of women age 45-49 who have never been married indicates that marriage is nearly universal in Ethiopia.

Table 4.1 Current marital status

Percent distribution of women and men age 15-49 by current marital status, according to age, Ethiopia 2011

| | | | Marit | tal status | | | | Percentage of | | | | | |
|----------------|---------|---------|----------|------------|-----------|---------|-------|--------------------------|--------------------|----------------------|--|--|--|
| | Never | | Living | | | | | respondents currently in | Weighted number of | Unweighted number of | | | |
| Age | married | Married | together | Divorced | Separated | Widowed | Total | union | respondents | respondents | | | |
| | | | | | WOMEN | | | | | | | | |
| Age | | | | | | | | | | | | | |
| 15-19 | 77.0 | 17.6 | 1.5 | 3.2 | 0.7 | 0.1 | 100.0 | 19.1 | 4,009 | 3,835 | | | |
| 20-24 | 31.9 | 55.0 | 5.1 | 5.4 | 2.4 | 0.2 | 100.0 | 60.1 | 2,931 | 3,022 | | | |
| 25-29 | 9.7 | 74.5 | 5.3 | 6.3 | 2.3 | 2.0 | 100.0 | 79.8 | 3,147 | 3,185 | | | |
| 30-34 | 4.1 | 78.7 | 5.0 | 5.1 | 3.4 | 3.7 | 100.0 | 83.7 | 2,054 | 2,100 | | | |
| 35-39 | 1.8 | 77.6 | 5.4 | 7.1 | 2.9 | 5.1 | 100.0 | 83.0 | 1,916 | 1,958 | | | |
| 40-44 | 1.4 | 76.2 | 5.8 | 6.1 | 1.6 | 8.9 | 100.0 | 81.9 | 1,261 | 1,314 | | | |
| 45-49 | 0.6 | 72.3 | 3.4 | 6.7 | 2.1 | 15.0 | 100.0 | 75.7 | 1,196 | 1,101 | | | |
| Total 15-49 | 27.1 | 58.1 | 4.2 | 5.3 | 2.1 | 3.2 | 100.0 | 62.3 | 16,515 | 16,515 | | | |
| | | | | | MEN | | | | | | | | |
| Age | | | | | | | | | | | | | |
| 15-19 | 97.6 | 1.9 | 0.3 | 0.2 | 0.1 | 0.0 | 100.0 | 2.1 | 3,013 | 2,832 | | | |
| 20-24 | 72.5 | 23.5 | 1.7 | 1.8 | 0.5 | 0.0 | 100.0 | 25.2 | 2,319 | 2,330 | | | |
| 25-29 | 31.5 | 61.1 | 3.3 | 2.9 | 1.2 | 0.0 | 100.0 | 64.5 | 2,297 | 2,274 | | | |
| 30-34 | 10.1 | 82.7 | 3.2 | 1.9 | 1.7 | 0.4 | 100.0 | 85.9 | 1,483 | 1,682 | | | |
| 35-39 | 4.3 | 89.6 | 2.4 | 2.5 | 0.6 | 0.6 | 100.0 | 92.0 | 1,648 | 1,579 | | | |
| 40-44 45-49 | 1.8 | 91.3 | 3.4 | 1.8 | 0.6 | 1.1 | 100.0 | 94.7 | 1,121 | 1,210 961 | | | |
| 45-49 | 1.4 | 92.2 | 1.5 | 2.2 | 1.4 | 1.3 | 100.0 | 93.7 | 952 | 961 | | | |
| Total 15-49 | 43.6 | 51.5 | 2.0 | 1.8 | 0.8 | 0.3 | 100.0 | 53.5 | 12,834 | 12,868 | | | |
| 50-59 | 0.4 | 92.5 | 2.9 | 2.6 | 0.2 | 1.3 | 100.0 | 95.4 | 1,276 | 1,242 | | | |
| Total 15-59 | 39.7 | 55.2 | 2.1 | 1.8 | 0.7 | 0.4 | 100.0 | 57.3 | 14,110 | 14,110 | | | |

The proportion age 15-49 who have never been married is notably higher among men than among women (44 percent versus 27 percent). About half the men (52 percent) are currently married, 2 percent are living together with a woman, and 3 percent are either divorced, separated, or widowed. A significant proportion of men marry when they are age 25 or older, in contrast to women, who tend to marry before the age of 25. For example, 60 percent of women age 20-24 are in union, compared with only 25 percent of men in the same age group. Like women, however, virtually all men have married by the time they reach age 50.

Over the past six years the proportion of Ethiopian women who have never married has increased slightly, from 25 percent in 2005 to 27 percent in 2011, and the proportion of women currently married or living together has decreased slightly, from 65 percent in 2005 to 62 percent in 2011. There has been little change in the marital status of men over the same period.

4.2 POLYGYNY

Polygyny, the practice of having more than one wife, has implications for coital frequency and, therefore, fertility. The extent of polygyny is ascertained by asking currently married women whether their husband or partner has other wives and, if so, how many. Similarly, interviewers ask currently married men how many wives or partners they have.

Tables 4.2.1 and 4.2.2 show the proportion of currently married women and men, respectively, who are in polygynous unions, by background characteristics. Eleven percent of married women in Ethiopia are in polygynous unions, with 9 percent having only one co-wife and 2 percent having two or more co-wives. The percentage of women in polygynous unions tends to increase with age, from 3 percent among women age 15-19 to 17 percent among women age 40-49.

The extent of polygyny has declined only slightly over the past six years, from 12 percent in the 2005 EDHS to 11 percent in the 2011 EDHS.

Rural women are more likely to be in polygynous unions (12 percent) than urban women (5 percent). The regional distribution also shows substantial variation. The prevalence of polygyny is lowest in Tigray (1 percent) and highest in Somali (27 percent). Polygyny also is relatively common in Affar (22 percent), Gambela (20 percent), and Benishangul-Gumuz and SNNP (both 18 percent).

There is an inverse relationship between education and polygyny. The proportion of currently married women in a polygynous union decreases from 13 percent among women with no education to less than 1 percent among women with more than secondary education. There also are substantial differences in the prevalence of polygyny among women in different wealth quintiles. Women in the lowest wealth quintile are the most likely to be in a polygynous union (16 percent), compared with just 6 percent of women in the highest wealth quintile.

<u>Table 4.2.1 Number of women's co-wives</u>

Percent distribution of currently married women age 15-49 by number of co-wives, according to background characteristics, Ethiopia 2011

| | | Number of | co-wives | | | Weighted | Unweighted |
|---------------------|------|-----------|----------|-------|-------|-----------|------------|
| Background | 0 | 1 | 2. | Don't | Total | number of | number of |
| characteristic | U | ı | 2+ | know | Total | women | women |
| Age | | | | | | | |
| 15-19 | 95.9 | 2.9 | 0.3 | 1.0 | 100.0 | 765 | 784 |
| 20-24 | 93.5 | 4.9 | 0.5 | 1.2 | 100.0 | 1,762 | 1,788 |
| 25-29 | 92.3 | 6.5 | 0.8 | 0.5 | 100.0 | 2,511 | 2,480 |
| 30-34 | 88.7 | 9.0 | 1.7 | 0.6 | 100.0 | 1,720 | 1,722 |
| 35-39 | 83.4 | 13.0 | 3.0 | 0.6 | 100.0 | 1,591 | 1,600 |
| 40-44 | 82.0 | 15.0 | 2.4 | 0.6 | 100.0 | 1,033 | 1,047 |
| 45-49 | 82.8 | 12.7 | 4.4 | 0.1 | 100.0 | 905 | 783 |
| Residence | | | | | | | |
| Urban | 92.9 | 4.5 | 0.8 | 1.9 | 100.0 | 1,843 | 2,422 |
| Rural | 88.1 | 9.7 | 1.9 | 0.4 | 100.0 | 8,444 | 7,782 |
| Region | | | | | | | |
| Tigray | 98.1 | 0.7 | 0.1 | 1.1 | 100.0 | 620 | 984 |
| Affar | 77.9 | 19.1 | 2.7 | 0.2 | 100.0 | 104 | 960 |
| Amhara | 96.5 | 2.1 | 0.4 | 0.9 | 100.0 | 2,776 | 1,331 |
| Oromiya | 86.6 | 11.0 | 1.8 | 0.6 | 100.0 | 3,961 | 1,403 |
| Somali | 72.6 | 21.9 | 5.1 | 0.4 | 100.0 | 232 | 664 |
| Benishangul-Gumuz | 81.2 | 14.6 | 3.7 | 0.6 | 100.0 | 124 | 904 |
| SNNP | 81.7 | 14.8 | 3.3 | 0.2 | 100.0 | 2,022 | 1,295 |
| Gambela | 78.8 | 13.7 | 5.8 | 1.7 | 100.0 | 41 | 768 |
| Harari | 94.1 | 4.8 | 0.7 | 0.4 | 100.0 | 28 | 635 |
| Addis Ababa | 96.5 | 1.7 | 0.2 | 1.7 | 100.0 | 342 | 634 |
| Dire Dawa | 95.9 | 3.3 | 0.3 | 0.5 | 100.0 | 38 | 626 |
| Education | | | | | | | |
| No education | 86.8 | 10.7 | 2.0 | 0.5 | 100.0 | 6,735 | 6,569 |
| Primary | 91.8 | 6.0 | 1.3 | 8.0 | 100.0 | 2,862 | 2,739 |
| Secondary | 95.2 | 2.5 | 0.2 | 2.1 | 100.0 | 378 | 528 |
| More than secondary | 99.1 | 0.1 | 0.1 | 0.7 | 100.0 | 313 | 368 |
| Wealth guintile | | | | | | | |
| Lowest | 84.4 | 13.5 | 2.1 | 0.1 | 100.0 | 2,077 | 2,724 |
| Second | 89.5 | 8.7 | 1.2 | 0.6 | 100.0 | 2,117 | 1,676 |
| Middle | 89.9 | 7.2 | 2.6 | 0.4 | 100.0 | 2,083 | 1,585 |
| Fourth | 88.1 | 9.7 | 1.7 | 0.5 | 100.0 | 1,923 | 1,590 |
| Highest | 92.6 | 4.9 | 8.0 | 1.7 | 100.0 | 2,087 | 2,629 |
| Total | 88.9 | 8.8 | 1.7 | 0.7 | 100.0 | 10,287 | 10,204 |

Data on polygynous unions among currently married men are shown in Table 4.2.2. Five percent of men age 15-49 report having two or more wives. Like women, older men, men living in rural areas, those with little or no education, and men in the lowest wealth quintile are more likely to be in polygynous unions than other men. Men in the Somali and Benishangul-Gumuz regions are the most likely to be in polygynous unions (both 14 percent), compared with less than 1 percent of men in Addis Ababa, Tigray, and Amhara regions.

The level of polygyny reported by men age 15-59 has declined only slightly over the past six years, from 7 percent in the 2005 EDHS to 6 percent in the 2011 EDHS.

| Age 1 2+ Missing Total men men 15-19 100.0 0.0 0.0 100.0 64 66 20-24 99.5 0.1 0.4 100.0 583 575 25-29 98.5 1.3 0.2 100.0 1,481 1,378 30-34 95.6 3.8 0.5 100.0 1,274 1,385 35-39 93.1 6.5 0.4 100.0 1,516 1,377 40-44 91.3 8.3 0.4 100.0 1,661 1,108 45-49 89.8 10.2 0.0 100.0 892 886 Residence Urban 97.8 1.8 0.3 100.0 1,235 1,580 Rural 93.9 5.8 0.3 100.0 377 613 Affar 90.0 9.7 0.3 100.0 377 613 Affar 90.0 9.7 0.3 100.0 | D | Nu | ımber of w | ives | | Weighted | Unweighted |
|--|---------------------|-------|------------|---------|-------|----------|------------------|
| 15-19 | | 1 | 2+ | Missing | Total | | number of men |
| 20-24 99.5 0.1 0.4 100.0 583 575 25-29 98.5 1.3 0.2 100.0 1,481 1,378 30-34 95.6 3.8 0.5 100.0 1,274 1,385 35-39 93.1 6.5 0.4 100.0 1,516 1,377 40-44 91.3 8.3 0.4 100.0 1,061 1,108 45-49 89.8 10.2 0.0 100.0 892 886 Residence Urban 97.8 1.8 0.3 100.0 1,235 1,580 Rural 93.9 5.8 0.3 100.0 5,637 5,195 Region Tigray 99.6 0.4 0.0 100.0 377 613 Affar 90.0 9.7 0.3 100.0 52 492 Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 1,2738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 25 442 Dire Dawa 97.5 1.5 0.9 100.0 25 429 Education No education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3213 2,997 Secondary 96.9 3.1 0.0 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | Age | | | | | | |
| 25-29 98.5 1.3 0.2 100.0 1,481 1,378 30-34 95.6 3.8 0.5 100.0 1,274 1,385 35-39 93.1 6.5 0.4 100.0 1,516 1,377 40-44 91.3 8.3 0.4 100.0 1,061 1,108 45-49 89.8 10.2 0.0 100.0 892 886 Residence Urban 97.8 1.8 0.3 100.0 1,235 1,580 Rural 93.9 5.8 0.3 100.0 5,637 5,195 Region Tigray 99.6 0.4 0.0 100.0 377 613 Affar 90.0 9.7 0.3 100.0 5,637 5,195 Affar 90.0 9.7 0.3 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 1,867 936 Oromiya 93.0 6.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 94 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 385 525 More than secondary 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | 15-19 | 100.0 | 0.0 | 0.0 | 100.0 | 64 | 66 |
| 30-34 95.6 3.8 0.5 100.0 1,274 1,385 35-39 93.1 6.5 0.4 100.0 1,516 1,377 40-44 91.3 8.3 0.4 100.0 1,516 1,108 45-49 89.8 10.2 0.0 100.0 892 886 886 89.8 10.2 0.0 100.0 892 886 886 89.8 10.2 0.0 100.0 892 886 886 80.3 10.2 0.0 100.0 892 886 886 80.3 10.2 0.0 100.0 892 886 886 80.3 10.0 5,637 5,195 80.3 100.0 1,238 1,040 80.0 1,040 1, | 20-24 | 99.5 | 0.1 | 0.4 | 100.0 | 583 | 575 |
| 35-39 93.1 6.5 0.4 100.0 1,516 1,377 40-44 91.3 8.3 0.4 100.0 1,061 1,108 45-49 89.8 10.2 0.0 100.0 892 886 Residence Urban 97.8 1.8 0.3 100.0 1,235 1,580 Rural 93.9 5.8 0.3 100.0 5,637 5,195 Region Tigray 99.6 0.4 0.0 100.0 377 613 Affar 90.0 9.7 0.3 100.0 52 492 Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,334 1,631 Second 95.4 4.5 0.1 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,339 1,152 | 25-29 | 98.5 | 1.3 | 0.2 | 100.0 | 1,481 | 1,378 |
| ## 40-44 ## 491.3 | 30-34 | 95.6 | 3.8 | 0.5 | 100.0 | 1,274 | 1,385 |
| 45-49 89.8 10.2 0.0 100.0 892 886 Residence Urban 97.8 1.8 0.3 100.0 1,235 1,580 Rural 93.9 5.8 0.3 100.0 5,637 5,195 Region Tigray 99.6 0.4 0.0 100.0 377 613 Affar 90.0 9.7 0.3 100.0 52 492 Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 25 429 <tr< td=""><td>35-39</td><td></td><td>6.5</td><td>0.4</td><td>100.0</td><td>1,516</td><td>1,377</td></tr<> | 35-39 | | 6.5 | 0.4 | 100.0 | 1,516 | 1,377 |
| Residence Urban 97.8 1.8 0.3 100.0 1,235 1,580 Rural 93.9 5.8 0.3 100.0 5,637 5,195 Region Tigray 99.6 0.4 0.0 100.0 377 613 Affar 90.0 9.7 0.3 100.0 52 492 Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 1,45 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 259 442 Dire Dawa 97.5 | 40-44 | 91.3 | 8.3 | 0.4 | 100.0 | 1,061 | 1,108 |
| Urban 97.8 1.8 0.3 100.0 1,235 1,580 Rural 93.9 5.8 0.3 100.0 5,637 5,195 Region Tigray 99.6 0.4 0.0 100.0 377 613 Affar 90.0 9.7 0.3 100.0 52 492 Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 25 429 Education 94.8 4.8 0.4 | 45-49 | 89.8 | 10.2 | 0.0 | 100.0 | 892 | 886 |
| Region 7 5,895 5,807 5,195 Region Tigray 99.6 0.4 0.0 100.0 377 613 Affar 90.0 9.7 0.3 100.0 52 492 Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 25 429 Education 94.8 4.8 0.4 100.0 2,906 | | | | | | | |
| Region Tigray 99.6 0.4 0.0 100.0 377 613 Affar 90.0 9.7 0.3 100.0 52 492 Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 29 480 Addis Ababa 99.8 0.0 0.2 100.0 25 429 Education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 | | | | | | | |
| Tigray 99.6 0.4 0.0 100.0 377 613 Affar 90.0 9.7 0.3 100.0 52 492 Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 25 429 Education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 | Rural | 93.9 | 5.8 | 0.3 | 100.0 | 5,637 | 5,195 |
| Affar 90.0 9.7 0.3 100.0 52 492 Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 25 429 Education 97.5 1.5 0.9 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.40</td> | | | | | | | 0.40 |
| Amhara 99.3 0.3 0.4 100.0 1,867 936 Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 25 429 Education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100 | | | | | | | |
| Oromiya 93.0 6.6 0.3 100.0 2,738 1,040 Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 259 442 Beducation 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 368 496 Wealth quintile Lowest 91. | | | | | | | |
| Somali 85.6 13.8 0.6 100.0 145 391 Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 25 429 Education No education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 368 496 Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,344 1,631 Second 95.4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| Benishangul-Gumuz 86.6 13.3 0.2 100.0 81 614 SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 25 429 Education No education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 368 496 Wealth quintile 1.5 0.9 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,344 1,631 Second 95.4 4.5 0.1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| SNNP 90.3 9.4 0.3 100.0 1,279 870 Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 25 429 Education No education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile Lowest 8.7 0.0 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 | | | | | | | |
| Gambela 92.6 7.4 0.0 100.0 29 488 Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 25 429 Education No education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile Lowest 8.7 0.0 100.0 1,344 1,631 362 362 362 362 362 362 362 362 362 362 362 362 362 362 362 362 362 362 362 | | | | | | | |
| Harari 97.6 2.2 0.2 100.0 20 460 Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 25 429 Education 84.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile 2 8.7 0.0 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 | | | | | | | |
| Addis Ababa 99.8 0.0 0.2 100.0 259 442 Dire Dawa 97.5 1.5 0.9 100.0 25 429 Education No education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 | | | | | | | |
| Dire Dawa 97.5 1.5 0.9 100.0 25 429 Education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | | | | | | | |
| Education No education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | | | | | | | |
| No education 94.8 4.8 0.4 100.0 2,906 2,757 Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | | | | | | | |
| Primary 93.8 5.9 0.3 100.0 3,213 2,997 Secondary 96.9 3.1 0.0 100.0 385 525 More than secondary 97.6 1.5 0.9 100.0 368 496 Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | | 94.8 | 4.8 | 0.4 | 100.0 | 2.906 | 2.757 |
| Secondary 96.9 yr.6 3.1 yr.6 0.0 yr.6 1.5 yr.6 0.0 yr.6 1.5 yr.6 525 yr.6 496 yr.6 Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,344 1,631 yr.6 1,631 yr.6 1,631 yr.6 1,404 1,138 yr.6 1,404 1 | Primary | 93.8 | | | | | |
| Wealth quintile Lowest 91.2 8.7 0.0 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | | | | 0.0 | | | |
| Lowest 91.2 8.7 0.0 100.0 1,344 1,631 Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | More than secondary | 97.6 | 1.5 | 0.9 | 100.0 | 368 | 496 |
| Second 95.4 4.5 0.1 100.0 1,404 1,138 Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | Wealth quintile | | | | | | |
| Middle 94.0 5.5 0.5 100.0 1,393 1,104 Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | Lowest | 91.2 | 8.7 | 0.0 | 100.0 | 1,344 | 1,631 |
| Fourth 94.5 5.2 0.3 100.0 1,339 1,152 Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | Second | 95.4 | 4.5 | 0.1 | 100.0 | 1,404 | 1,138 |
| Highest 97.8 1.6 0.6 100.0 1,391 1,750 Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | Middle | 94.0 | 5.5 | 0.5 | 100.0 | 1,393 | 1,104 |
| Total 15-49 94.6 5.1 0.3 100.0 6,872 6,775 | Fourth | 94.5 | | 0.3 | 100.0 | | 1,152 |
| | Highest | 97.8 | 1.6 | 0.6 | 100.0 | 1,391 | 1,750 |
| | Total 15-49 | 94.6 | 5.1 | 0.3 | 100.0 | 6,872 | 6,775 |
| 50-59 92.0 7.8 0.3 100.0 1,217 1,155 | 50-59 | 92.0 | 7.8 | 0.3 | 100.0 | 1.217 | 1.155 |

4.3 AGE AT FIRST MARRIAGE

Total 15-59

In Ethiopia marriage marks the point in a woman's life when childbearing becomes socially acceptable. Age at first marriage has a major effect on childbearing because women who marry early have on average a longer period of exposure to the risk of pregnancy and give birth to a greater number of children over their lifetimes. Interviewers obtained information on age at first marriage by asking respondents the month and year or the age at which they started living with their first partner.

5.5

0.3

100.0

8.089

7.930

94.2

Table 4.3 shows the percentage of women and men who have married by specific exact ages, according to current age. For women, marriage takes place relatively early in Ethiopia. Among

women age 25-49, 63 percent married by age 18, and 77 percent married by age 20. The median age at first marriage among women age 25-49 is 16.5 years, a slight increase from the 16.1 years reported in the 2005 EDHS. The proportion of women married by age 15 has declined over time, from 39 percent among women currently age 45-49 to 8 percent among women currently age 15-19.

Men tend to marry at much older ages than women. Among men age 25-59, only 13 percent were married by age 18, and 27 percent, by age 20. The median age at marriage for men age 25-49 is 23.2 years, almost seven years older than for women in the same age range, at 16.5 years.

The median age at marriage for men age 25-59 has decreased somewhat, from 23.8 years in 2005 to 23.1 years in 2011.

| Table 4.3 Age at first marriage |
|---|
| Percentage of women and men age 15-49 who were first married by specific exact ages and median age at first marriage, according to current age. Ethiopia 2011 |

| | Pe | ercentage fi | rst married | by exact a | ge: | Percentage | Weighted | Unweighted | Median age |
|-------------|------|--------------|-------------|------------|------|------------------|--------------------------|--------------------------|----------------------|
| Current age | 15 | 18 | 20 | 22 | 25 | never married | number of respondents | number of respondents | at first marriage |
| | | | | W | OMEN | | · | · | |
| Age | | | | | | | | | |
| 15-19 | 8.0 | na | na | na | na | 77.0 | 4,009 | 3,835 | а |
| 20-24 | 16.3 | 41.0 | 58.3 | na | na | 31.9 | 2,931 | 3,022 | 18.9 |
| 25-29 | 22.7 | 56.2 | 71.6 | 81.8 | 88.7 | 9.7 | 3,147 | 3,185 | 17.4 |
| 30-34 | 28.6 | 62.0 | 75.8 | 83.5 | 90.5 | 4.1 | 2,054 | 2,100 | 16.6 |
| 35-39 | 31.1 | 63.9 | 77.4 | 86.2 | 92.4 | 1.8 | 1,916 | 1,958 | 16.4 |
| 40-44 | 37.1 | 69.0 | 82.4 | 89.2 | 93.8 | 1.4 | 1,261 | 1,314 | 15.8 |
| 45-49 | 39.4 | 73.0 | 84.5 | 92.6 | 96.3 | 0.6 | 1,196 | 1,101 | 15.6 |
| 20-49 | 26.5 | 57.7 | 72.4 | na | na | 11.1 | 12,506 | 12,680 | 17.1 |
| 25-49 | 29.6 | 62.8 | 76.7 | 85.4 | 91.4 | 4.7 | 9,575 | 9,658 | 16.5 |
| | | | | | MEN | | | | |
| Age | | | | | | | | | |
| 15-19 | 0.4 | na | na | na | na | 97.6 | 3,013 | 2,832 | а |
| 20-24 | 0.7 | 7.3 | 13.9 | na | na | 72.5 | 2,319 | 2,330 | а |
| 25-29 | 2.9 | 12.0 | 22.6 | 37.4 | 58.4 | 31.5 | 2,297 | 2,274 | 23.9 |
| 30-34 | 4.3 | 13.8 | 26.5 | 42.0 | 63.7 | 10.1 | 1,483 | 1,682 | 23.0 |
| 35-39 | 3.0 | 14.4 | 31.4 | 45.3 | 64.6 | 4.3 | 1,648 | 1,579 | 22.6 |
| 40-44 | 3.7 | 14.6 | 27.3 | 43.7 | 63.7 | 1.8 | 1,121 | 1,210 | 22.8 |
| 45-49 | 3.1 | 13.7 | 29.5 | 44.2 | 64.6 | 1.4 | 952 | 961 | 22.9 |
| 20-49 | 2.7 | 12.0 | 23.8 | na | na | 27.1 | 9,821 | 10,036 | а |
| 25-49 | 3.3 | 13.5 | 26.9 | 41.8 | 62.4 | 13.0 | 7,502 | 7,706 | 23.2 |
| 20-59 | 2.6 | 11.9 | 23.9 | na | na | 24.0 | 11,097 | 11,278 | а |
| 25-59 | 3.1 | 13.1 | 26.5 | 42.2 | 62.8 | 11.2 | 8,778 | 8,948 | 23.1 |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner. na = Not applicable due to censoring

Table 4.4 shows the median age at first marriage for women age 20-49 and age 25-49, and for men age 25-59, by background characteristics. Data for women age 15-19 and for men age 15-24 have been omitted because of the small number of married respondents interviewed in these age groups.

Women age 25-49 living in urban areas marry about two years later than rural women (18.1 years compared with 16.3 years). Median age at first marriage is highest in Addis Ababa (21.4 years) and lowest in Amhara (14.7 years). The median age at first marriage for women age 25-49 is higher among the better educated and the wealthier. Variations by background characteristics among men age 25-59 display a pattern like that among women but are not as pronounced.

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

Table 4.4 Median age at first marriage by background characteristics

Median age at first marriage among women age 20-49 and age 25-49, and median age at first marriage among men age 25-59, according to background characteristics, Ethiopia 2011

| Background | Wome | en age | Men age ¹ |
|-----------------------------|--------------|--------------|----------------------|
| characteristic | 20-49 | 25-49 | 25-59 |
| Residence | | | |
| Urban | 19.3 | 18.1 | а |
| Rural | 16.6 | 16.3 | 22.6 |
| Region | | | |
| Tigray | 17.1 | 16.6 | 24.4 |
| Affar | 16.8 | 16.5 | 24.6 |
| Amhara | 15.1 | 14.7 | 20.9 |
| Oromiya | 17.4 | 16.9 | 23.5 |
| Somali Benishangul-Gumuz | 17.6 15.9 | 17.6 15.7 | 24.2 21.9 |
| SNNP | 18.3 | 17.9 | 23.7 |
| Gambela | 17.4 | 17.5 | 23.7 |
| Harari | 18.1 | 17.7 | 25.0 |
| Addis Ababa | a | 21.4 | a |
| Dire Dawa | 19.4 | 18.9 | а |
| Education | | | |
| No education | 16.0 | 15.9 | 21.9 |
| Primary | 18.1 | 17.5 | 23.1 |
| Secondary | а | 22.8 | а |
| More than secondary | а | 23.8 | а |
| Wealth quintile | | | |
| Lowest | 16.4 | 16.3 | 22.7 |
| Second | 16.3 | 16.0 | 22.3 |
| Middle | 16.7 | 16.3 | 22.4 |
| Fourth | 16.9 | 16.4 | 23.2 |
| Highest | 19.1 | 17.9 | а |
| Total | 17.1 | 16.5 | 23.1 |

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

a = Omitted because less than 50 percent of the respondents began living with their spouses/partners for the first time before reaching the beginning of the age group

¹ Median age at first marriage for men age 20-59 is not shown because less than 50 percent of men in most sub-groups began living with their spouses/partners for the first time before reaching the beginning of the age group.

4.4 Age at First Sexual Intercourse

Although age at first marriage is often used as a proxy for first exposure to sexual intercourse, the two events do not necessarily coincide. In the 2011 EDHS interviewers asked women and men how old they were when they first had sexual intercourse.

Table 4.5 shows the percentage of women and men who first had sexual intercourse by specific exact ages. Among women age 25-49, 29 percent first had sexual intercourse before age 15, 62 percent before age 18, and by age 25 the majority of Ethiopian women (88 percent) had had sexual intercourse. The median age at first sexual intercourse for women age 25-49 years is 16.6 years, which is very close to the median age at first marriage of 16.5 years. This suggests that Ethiopian women generally begin sexual intercourse at the time of their first marriage. The median age at first sexual intercourse has increased over the past two decades, from 15.6 years for women currently age 45-49 to 18.8 years for women currently age 20-24.

As is the case with age at first marriage, men tend to initiate sexual activity later in life than women. The median age at first sex for men age 25-49 is 21.2 years, about six years later than for women. The median ages at first intercourse among the different age cohorts suggest no significant change in age at first sexual intercourse for men over the past 20 years. The median age at first sexual intercourse for men age 25-49 years, at 21.2 years, is about two years lower than the median age at first marriage, at 23.2 years.

Table 4.5 Age at first sexual intercourse

Percentage of women and men age 15-49 who had first sexual intercourse by specific exact ages, percentage who never had sexual intercourse, and median age at first sexual intercourse, according to current age, Ethiopia 2011

| | Perce | | had first se y exact age | exual interc e: | ourse | Percentage who never | | | |
|-------------|-------|------|-----------------------------|--------------------|-------|-------------------------|--------|-------------|--------------------|
| Current age | 15 | 18 | 20 | 22 | 25 | intercourse | | respondents | sexual intercourse |
| | | | | WOI | MEN | | | | |
| Age | | | | | | | | | |
| 15-19 | | na | na | na | na | 75.8 | 4,009 | 3,835 | а |
| 20-24 | 16.0 | 42.2 | 60.8 | na | na | 27.4 | 2,931 | 3,022 | 18.8 |
| 25-29 | 21.8 | 55.5 | 70.7 | 80.7 | 86.8 | 7.2 | 3,147 | 3,185 | 17.4 |
| 30-34 | 27.5 | 60.5 | 73.8 | 81.1 | 86.6 | 3.3 | 2,054 | 2,100 | 16.7 |
| 35-39 | 31.4 | 62.9 | 75.5 | 84.1 | 89.2 | 1.0 | 1,916 | 1,958 | 16.4 |
| 40-44 | 35.7 | 67.5 | 79.8 | 85.6 | 89.7 | 0.9 | 1,261 | 1,314 | 15.9 |
| 45-49 | 38.9 | 71.8 | 82.2 | 89.0 | 91.9 | 0.2 | 1,196 | 1,101 | 15.6 |
| 20-49 | 25.9 | 57.1 | 71.6 | na | na | 9.0 | 12,506 | 12,680 | 17.1 |
| 25-49 | 28.9 | 61.7 | 75.0 | 83.2 | 88.2 | 3.4 | 9,575 | 9,658 | 16.6 |
| 15-24 | 10.9 | na | na | na | na | 55.4 | 6,940 | 6,857 | а |
| | | | | MI | EN | | | | |
| Age | | | | | | | | | |
| 15-19 | 1.2 | na | na | na | na | 92.2 | 3,013 | 2,832 | а |
| 20-24 | 1.3 | 14.0 | 27.5 | na | na | 55.6 | 2,319 | 2,330 | а |
| 25-29 | 3.5 | 16.9 | 32.4 | 51.6 | 70.5 | 18.9 | 2,297 | 2,274 | 21.8 |
| 30-34 | 3.8 | 18.5 | 36.4 | 55.6 | 75.3 | 4.3 | 1,483 | 1,682 | 21.0 |
| 35-39 | 3.1 | 18.8 | 39.2 | 55.9 | 72.2 | 1.5 | 1,648 | 1,579 | 20.9 |
| 40-44 | 2.4 | 18.7 | 38.8 | 57.8 | 72.4 | 0.6 | 1,121 | 1,210 | 21.0 |
| 45-49 | 2.9 | 18.2 | 39.5 | 56.9 | 73.5 | 0.2 | 952 | 961 | 20.9 |
| 20-49 | 2.8 | 17.1 | 34.4 | na | na | 18.5 | 9,821 | 10,036 | а |
| 25-49 | 3.3 | 18.1 | 36.5 | 54.9 | 72.5 | 7.1 | 7,502 | 7,706 | 21.2 |
| 15-24 | 1.2 | na | na | na | na | 76.3 | 5,332 | 5,162 | а |
| 20-59 | 2.7 | 17.3 | 35.0 | na | na | 16.4 | 11,097 | 11,278 | а |
| 25-59 | 3.1 | 18.2 | 36.9 | 55.6 | 72.6 | 6.1 | 8,778 | 8,948 | 21.1 |

na = Not applicable due to censoring

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

Differentials in age at first sex are shown in Table 4.6. Urban women have their first sexual experience at somewhat older ages than rural women. For example, the median age at first intercourse among urban women age 25-49 was 17.8 years, compared with 16.4 years among rural women. Among the regions median age at first intercourse for women age 25-49 is highest in Addis Ababa (19.5 years) and lowest in Amhara (15.1 years). Women's median age at first sexual intercourse rises with levels of education and wealth. Women with more than secondary education initiate sex almost six years later than women with no education (21.8 years versus 16.0 years). Similarly, the median age at first sex is more than one year later among women in the highest wealth quintile than among women in the lowest. In contrast, among men there are no substantial variations in the median age at first sexual intercourse by various background characteristics.

Table 4.6 Median age at first sexual intercourse by background characteristics

Median age at first sexual intercourse among women age 20-49 and age 25-49, and median age at first sexual intercourse among men age 20-59 and age 25-59 according to background characteristics, Ethiopia 2011

| Background | Wom | en age | Men age ¹ |
|--------------------------|-----------|--------------|----------------------|
| characteristic | 20-49 | 25-49 | 25-59 |
| Residence | | | |
| Urban | 18.7 | 17.8 | 20.9 |
| Rural | 16.7 | 16.4 | 21.2 |
| Region | | | |
| Tigray | 16.1 | 15.7 | 22.0 |
| Affar | 17.1 | 16.9 | 20.5 |
| Amhara | 15.3 | 15.1 | 20.4 |
| Oromiya | 17.5 | 17.0 | 21.8 |
| Somali | 18.0 | 17.9 | 23.0 |
| Benishangul-Gumuz | 16.3 | 16.0 | 20.5 |
| SNNP | 18.3 | 17.9 | 21.6 |
| Gambela | 16.8 | 16.9 | 19.6 |
| Harari | 18.2 | 17.9 | 21.9 |
| Addis Ababa Dire Dawa | a 19.5 | 19.5 19.3 | 20.8 20.9 |
| | 19.5 | 19.3 | 20.9 |
| Education | | | |
| No education | 16.1 | 16.0 | 21.0 |
| Primary | 18.0 | 17.4 | 21.1 |
| Secondary | а | 20.6 | 21.9 |
| More than secondary | а | 21.8 | 21.3 |
| Wealth quintile | | | |
| Lowest | 16.5 | 16.4 | 21.6 |
| Second | 16.4 | 16.1 | 21.3 |
| Middle | 16.9 | 16.4 | 20.9 |
| Fourth | 17.1 | 16.6 | 21.3 |
| Highest | 18.6 | 17.6 | 20.9 |
| Total | 17.1 | 16.6 | 21.1 |

a = Omitted because less than 50 percent of the respondents had sexual intercourse for the first time before reaching the beginning of the age group 1 Median age at first sexual intercourse for men age 20-59 is not shown because less than 50 percent of men in most sub-groups had sexual intercourse for the first time before reaching the beginning of the age group.

4.5 RECENT SEXUAL ACTIVITY

In the absence of contraception, the probability of pregnancy is entirely related to coital frequency. Therefore, information on sexual activity can be used to refine measures of exposure to pregnancy. Interviewers asked women and men how long ago their last sexual activity occurred, recording whether they had had a sexual encounter in the preceding four weeks.

Tables 4.7.1 and 4.7.2 show the percent distributions of women and men by recent sexual activity. Fifty-one percent of all women age 15-49 were sexually active in the four weeks before the survey, 14 percent had been sexually active in the year before the survey but not in the four weeks prior to the interview, and 10 percent had been sexually active at some time in their lives but not for the past one or more years. One in every four women had never had sexual intercourse.

The proportion of women who were sexually active during the four weeks before the survey at first increases with age, from 16 percent among those age 15-19 to 70 percent among those age 30-34, and then it decreases to 55 percent among those age 45-49. As expected, women who are currently in union are much more likely to have been sexually active in the four weeks preceding the survey (80 percent) than women who were formerly married (6 percent) or who have never been married (2 percent). Women married for 25 years or more are less likely to have been sexually active in the recent past than women married for shorter durations.

Rural women were more likely to be recently sexually active (55 percent) than urban women (38 percent). Women residing in Benishangul-Gumuz (56 percent), Oromiya (55 percent), and SNNP (53 percent) were more likely than women in other regions to have been sexually active in the past four weeks, while women in Addis Ababa (32 percent) were least likely. Women with no education (65 percent) were substantially more sexually active in the recent past than women with some education (28 to 39 percent). Among wealth quintiles the richest women were the least likely to report being sexually active in the past four weeks (41 percent).

Table 4.7.1 Recent sexual activity: Women

Percent distribution of women age 15-49 by timing of last sexual intercourse, according to background characteristics, Ethiopia 2011

| | Tin | ning of last s | sexual intercour | se | | | | | |
|-------------------------------|-------------------------|-------------------------------|--------------------------------|------------|------------------------------|----------------|--------------------------------|----------------------------------|--|
| Background characteristic | Within the past 4 weeks | Within 1 year ¹ | One or more years ² | Missing | Never had sexual intercourse | Total | Weighted number of women | Unweighted number of women | |
| Age | | | | | | | | | |
| 15-19 | 15.8 | 5.8 | 2.6 | 0.0 | 75.8 | 100.0 | 4,009 | 3,835 | |
| 20-24 | 51.1 | 14.2 | 7.0 | 0.2 | 27.4 | 100.0 | 2,931 | 3,022 | |
| 25-29 | 67.1 | 16.8 | 8.8 | 0.0 | 7.2 | 100.0 | 3,147 | 3,185 | |
| 30-34 | 70.1 | 16.3 | 10.1 | 0.2 | 3.3 | 100.0 | 2,054 | 2,100 | |
| 35-39 | 65.8 | 17.5 | 15.7 | 0.2 | 1.0 | 100.0 | 1,916 | 1,958 | |
| 40-44 | 64.4 | 16.1 | 18.4 | 0.2 | 0.9 | 100.0 | 1,261 | 1,314 | |
| 45-49 | 55.4 | 14.4 | 30.1 | 0.0 | 0.2 | 100.0 | 1,196 | 1,101 | |
| Marital status | | | | | | | | | |
| Never married | 2.1 | 2.4 | 3.3 | 0.0 | 92.1 | 100.0 | 4,469 | 4,413 | |
| Married or living together | 79.9 | 16.7 | 3.1 | 0.1 | 0.2 | 100.0 | 10,287 | 10,204 | |
| Divorced/separated/widowed | 5.9 | 22.7 | 69.3 | 0.1 | 2.0 | 100.0 | 1,758 | 1,898 | |
| Marital duration ³ | | | | | | | | | |
| 0-4 years | 80.7 | 17.0 | 1.4 | 0.2 | 0.8 | 100.0 | 1,792 | 1,931 | |
| 5-9 years | 81.4 | 16.1 | 1.8 | 0.4 | 0.3 | 100.0 | 1,689 | 1,790 | |
| 10-14 years | 80.1 | 17.5 | 2.4 | 0.0 | 0.0 | 100.0 | 1,594 | 1,605 | |
| 15-19 years | 81.1 | 16.6 | 2.1 | 0.3 | 0.0 | 100.0 | 1,088 | 1,135 | |
| 20-24 years | 79.8 | 16.4 | 3.8 | 0.0 | 0.0 | 100.0 | 853 | 869 | |
| 25+ years | 73.4 | 18.5 | 8.1 | 0.0 | 0.0 | 100.0 | 963 | 865 | |
| Married more than once | 80.3 | 15.6 | 4.0 | 0.1 | 0.0 | 100.0 | 2,308 | 2,009 | |
| Residence | 00.4 | 40.0 | 40.0 | 0.4 | 04.0 | 400.0 | 0.047 | 5.000 | |
| Urban | 38.4 | 12.9 | 13.8 | 0.1 | 34.8 | 100.0 | 3,947 | 5,329 | |
| Rural | 54.9 | 13.6 | 9.1 | 0.1 | 22.2 | 100.0 | 12,568 | 11,186 | |
| Region | | 400 | | | a | | | . =00 | |
| Tigray | 44.6 | 16.8 | 14.0 | 0.1 | 24.5 | 100.0 | 1,104 | 1,728 | |
| Affar | 45.7 | 22.6 | 15.4 | 0.0 | 16.2 | 100.0 | 145 | 1,291 | |
| Amhara | 50.2 | 15.4 | 12.1 | 0.2 | 22.1 | 100.0 | 4,433 | 2,087 | |
| Oromiya | 54.8 | 12.1 | 8.3 | 0.0 | 24.7 | 100.0 | 6,011 | 2,135 | |
| Somali | 44.9 | 24.0 | 11.1 | 0.5 | 19.5 | 100.0 | 329 | 914 | |
| Benishangul-Gumuz SNNP | 56.1 | 15.3 | 10.6 7.5 | 0.2 0.1 | 17.8 28.6 | 100.0 | 174 | 1,259 | |
| Gambela | 53.2 49.3 | 10.6 17.6 | 7.5 21.0 | 0.1 | 26.6 12.0 | 100.0 100.0 | 3,236 69 | 2,034 | |
| Harari | 43.5 | 16.5 | 13.5 | 0.1 | 26.3 | 100.0 | 49 | 1,130 1,101 | |
| Addis Ababa | 32.0 | 12.7 | 16.2 | 0.2 | 39.0 | 100.0 | 896 | 1,741 | |
| Dire Dawa | 41.6 | 16.6 | 13.5 | 0.0 | 28.4 | 100.0 | 69 | 1,095 | |
| Education | | | | | | | | | |
| No education | 64.5 | 16.7 | 12.5 | 0.2 | 6.2 | 100.0 | 8,394 | 8,278 | |
| Primary | 38.7 | 9.7 | 7.1 | 0.1 | 44.4 | 100.0 | 6,276 | 5,858 | |
| Secondary | 27.9 | 8.9 | 10.4 | 0.0 | 52.7 | 100.0 | 1,117 | 1,395 | |
| More than secondary | 36.2 | 15.9 | 10.7 | 0.0 | 37.3 | 100.0 | 728 | 984 | |
| Wealth quintile | | | | | | | | | |
| Lowest | 53.3 | 17.1 | 11.4 | 0.1 | 18.1 | 100.0 | 2,986 | 3,711 | |
| Second | 57.1 | 13.6 | 9.0 | 0.1 | 20.2 | 100.0 | 3,041 | 2,402 | |
| Middle | 56.7 | 13.1 | 8.5 | 0.2 | 21.5 | 100.0 | 3,031 | 2,268 | |
| Fourth | 50.5 | 11.1 | 8.7 | 0.1 | 29.5 | 100.0 | 3,215 | 2,505 | |
| Highest | 41.2 | 12.8 | 12.6 | 0.1 | 33.3 | 100.0 | 4,242 | 5,629 | |
| Total | 51.0 | 13.5 | 10.2 | 0.1 | 25.2 | 100.0 | 16,515 | 16,515 | |
| | 01.0 | 10.0 | 10.2 | 0.1 | 20.2 | .00.0 | 10,010 | 10,010 | |

Excludes women who had sexual intercourse within the past 4 weeks

³ Excludes women who are not currently married

Among men age 15-49, 47 percent were sexually active in the four weeks preceding the survey, 12 percent had had sexual intercourse in the year before the survey but not in the four weeks prior to the survey, and 5 percent had not been sexually active for one year or more. Thirty-six percent of men said that they had never had sex. As with women, men's recent sexual activity at first increases with age, peaks in the late thirties at 81 percent, and then declines. Men currently in union

Excludes women who had sexual intercourse within the past 4 weeks or within 1 year

are much more likely to have been recently sexually active (84 percent) than those not in union (3 percent among those never married and 9 percent among those divorced, separated, or widowed).

Like women, men in rural areas are more likely to have been sexually active in the recent past than those in urban areas (49 percent versus 39 percent). Regional variation shows patterns similar to those for women. The rate of recent sexual activity is highest among men living in SNNP (51 percent) and Benishangul-Gumuz (50 percent) and lowest in Addis Ababa (32 percent). Men's recent sexual activity, like women's, is inversely related to their level of education. It decreases from 65 percent among men with no education to 42 percent among men with some primary education and to 28 percent among those with some secondary education. Recent sexual activity is least common among the wealthiest men (39 percent).

Table 4.7.2 Recent sexual activity: Men Percent distribution of men age 15-49 by timing of last sexual intercourse, according to background characteristics, Ethiopia 2011

| - ordern distribution of morn age | Timing of last sexual intercourse | | | | | | | | | |
|--|--|---|---|---|--|--|--|---|--|--|
| Background characteristic | Within the past 4weeks | Within 1year ¹ | One or more years ² | Missing | Never had sexual intercourse | Total | Weighted number of men | Unweighted number of men | | |
| Age 15-19 20-24 25-29 30-34 35-39 40-44 | 2.5 23.9 59.1 73.2 81.0 77.0 | 2.8 12.6 14.2 16.4 12.8 19.0 | 2.5 7.8 7.5 5.7 4.5 3.5 | 0.1 0.1 0.3 0.3 0.1 0.0 | 92.2 55.6 18.9 4.3 1.5 0.6 | 100.0 100.0 100.0 100.0 100.0 100.0 | 3,013 2,319 2,297 1,483 1,648 1,121 | 2,832 2,330 2,274 1,682 1,579 1,210 | | |
| 45-49 Marital status Never married | 77.1 3.4 | 17.4 7.4 | 4.4 7.8 | 0.9 0.1 | 0.2 81.3 | 100.0 | 952 5,600 | 961 5,641 | | |
| Married or living together Divorced/separated/widowed | 84.2 9.1 | 14.3 39.0 | 0.8 47.3 | 0.3 1.0 | 0.4 3.6 | 100.0 100.0 | 6,872 363 | 6,775 452 | | |
| Marital duration ³ 0-4 years 5-9 years 10-14 years 15-19 years 20-24 years 25+ years Married more than once | 83.0 83.4 84.5 81.9 80.6 85.8 86.8 | 14.8 14.5 13.6 16.8 19.0 12.2 12.4 | 0.4 1.4 1.2 0.9 0.5 1.3 0.5 | 0.3 0.3 0.2 0.4 0.0 0.8 0.3 | 1.5 0.3 0.5 0.0 0.0 0.0 0.0 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 1,334 1,282 978 733 405 228 1,912 | 1,357 1,245 966 683 388 205 1,931 | | |
| Residence Urban Rural | 38.7 49.1 | 15.4 11.0 | 10.3 3.7 | 0.2 0.2 | 35.4 36.0 | 100.0 100.0 | 2,882 9,952 | 3,915 8,953 | | |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 41.5 45.5 45.2 49.3 44.0 50.4 50.5 40.9 41.8 31.6 40.6 | 16.6 20.1 11.6 10.7 16.9 12.4 8.9 22.2 17.2 23.6 18.3 | 5.4 6.6 4.3 4.3 6.4 4.7 4.9 13.1 11.2 14.6 12.5 | 0.1 0.3 0.2 0.1 1.0 0.1 0.3 0.0 0.2 | 36.4 27.5 38.6 35.5 31.7 32.4 35.3 23.8 29.5 30.3 28.6 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 | | |
| Education No education Primary Secondary More than secondary | 65.1 41.6 27.7 37.2 | 13.0 9.9 12.9 21.9 | 3.9 4.1 8.8 13.9 | 0.4 0.1 0.0 0.3 | 17.6 44.4 50.5 26.7 | 100.0 100.0 100.0 100.0 | 3,785 6,813 1,296 940 | 3,659 6,334 1,565 1,310 | | |
| Wealth quintile Lowest Second Middle Fourth Highest Total 15-49 | 54.1 50.8 49.3 44.5 38.8 46.8 | 11.4 11.1 10.7 9.6 16.0 12.0 | 2.7 2.7 3.7 5.3 9.9 5.2 | 0.4 0.3 0.1 0.1 0.2 | 31.5 35.1 36.2 40.5 35.1 35.8 | 100.0 100.0 100.0 100.0 100.0 | 2,141 2,362 2,454 2,683 3,194 12,834 | 2,563 1,891 1,935 2,203 4,276 12,868 | | |
| 50-59 Total 15-59 | 73.9 49.2 | 17.9 12.5 | 7.9 5.4 | 0.2 0.0 0.2 | 0.2 32.6 | 100.0 100.0 100.0 | 1,276 14,110 | 1,242 14,110 | | |

Excludes men who had sexual intercourse within the last 4 weeks

Excludes women who had sexual intercourse within the past 4 weeks or within 1 year Excludes men who are not currently married

Key Findings

- The total fertility rate for the three years preceding the survey is 4.8 children per women. Rural women are having about twice as many children as urban women.
- Fertility declined only slightly between 2000 and 2005, from 5.5 children per woman to 5.4, and then decreased further to 4.8 children in 2011.
- Childbearing begins early in Ethiopia. More than one-third (34 percent) of women age 20-49 gave birth by age 18, and more than half (54 percent), by age 20.
- More than half (56 percent) of births occur within three years of a previous birth; 20 percent occur within 24 months.
- Twelve percent of adolescent women, age 15-19, are already mothers or pregnant with their first child.

ertility is one of the three principal components of population dynamics that determine the size and structure of the population of a country. Chapter 5 looks at a number of fertility indicators, including levels, patterns, and trends in both current and cumulative fertility; the length of birth intervals; the age at which women initiate childbearing; and postpartum insusceptibility. Information on current and cumulative fertility is essential for monitoring population growth. Birth intervals are important because short intervals are strongly associated with childhood mortality. The age at which childbearing begins can also have a major impact on the health and well-being of both the mother and the child.

Data on fertility were collected in several ways. First, each woman was asked the number of sons and daughters who live with her, the number who live elsewhere, and the number born alive and later died. Next, a complete history of all the woman's births was obtained, including the name, sex, month and year of birth, age, and survival status for each of the births. For living children, a question was asked about whether the child was living in the household or away. For dead children, the age at death was recorded. Finally, information was collected on whether a woman was pregnant at the time of the survey.

5.1 CURRENT FERTILITY

The level of current fertility is one of the most important topics in this report because of its direct relevance to population policies and programmes. Current fertility can be measured using the age-specific fertility rate (ASFR), the total fertility rate (TFR), the general fertility rate (GFR), and the crude birth rate (CBR). The ASFR provides the age pattern of fertility, while the TFR refers to the number of live births that a woman would have had if she were subject to the current ASFRs throughout her reproductive years (15-49 years). The GFR is expressed as the number of live births per 1,000 women of reproductive age, and the CBR is expressed as the number of live births per 1,000 persons in the population. The measures of fertility presented in this chapter refer to the three-year period preceding the survey. This time period generates a sufficient number of births to provide reliable, current estimates.

As Table 5.1 shows, the TFR for Ethiopia for the three-year period preceding the survey is 4.8 children per woman. This means that an Ethiopian woman who is at the beginning of her childbearing years would give birth to just under five children by the end of her reproductive period if fertility levels remained constant over the childbearing years. The TFR in rural areas exceeds the TFR in urban areas by almost three children per woman (5.5 and 2.6 children per woman, respectively).

Table 5.1 Current fertility

Age-specific and total fertility rates, the general fertility rate, and the crude birth rate for the three years preceding the survey, by residence, Ethiopia 2011

| | Resid | lence | _ |
|-------------|-------|-------|-------|
| Age group | Urban | Rural | Total |
| 15-19 | 27 | 99 | 79 |
| 20-24 | 123 | 236 | 207 |
| 25-29 | 158 | 262 | 237 |
| 30-34 | 101 | 218 | 192 |
| 35-39 | 75 | 171 | 150 |
| 40-44 | 21 | 77 | 68 |
| 45-49 | 22 | 29 | 28 |
| TFR (15-49) | 2.6 | 5.5 | 4.8 |
| GFR | 89 | 184 | 161 |
| CBR | 26.4 | 36.2 | 34.5 |

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

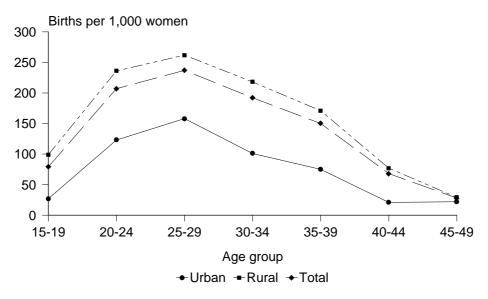
age 15-44

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

The crude birth rate in Ethiopia is 34.5 births per 1,000 population. As is the case with other fertility measures, there is a substantial differential in the CBR by urban-rural residence. The CBR is 37 percent higher in rural areas (36 per 1,000 population) than in urban areas (26 per 1,000 population). The GFR in Ethiopia is 161 live births per 1,000 women of reproductive age. The rate is considerably higher in rural areas (184) than in urban areas (89).

Figure 5.1 presents the age-specific fertility rates for urban and rural areas. The fertility among adolescents age 15-19 in Ethiopia is 79 births per 1,000 women. Fertility peaks at age 25-29 in both rural and urban areas. For the country as a whole, the age-specific fertility rates rise from 79 births per 1,000 women age 15-19 to 207 births among women age 20-24, reach a peak of 237 births for women age 25-29, and then fall steadily to 28 births among women age 45-49.

Figure 5.1 Age-Specific Fertility Rates by Urban-Rural Residence



EDHS 2011

5.2 FERTILITY DIFFERENTIALS BY BACKGROUND CHARACTERISTICS

Table 5.2 presents differentials in the total fertility rates, the percentage of women who are currently pregnant, and the mean number of children ever born (CEB) to women age 40-49, by residence, region, education, and wealth quintiles.

There are substantial differentials in the TFR among the regions, ranging from 1.5 children per woman in Addis Ababa (below the replacement level of fertility) to 7.1 children per woman in Somali. Fertility levels are higher than the national average in Somali, Oromiya, Benishangul-Gumuz, Affar, and SNNP and lower than the national average in the other six regions. The level of fertility is inversely related to women's educational attainment, decreasing sharply from 5.8 children among women with no education to 1.3 children among women who have more than secondary education. Fertility is also strongly associated with wealth

Table 5.2 Fertility by background characteristics

Total fertility rate for the three years preceding the survey, percentage of women age 15-49 currently pregnant, and mean number of children ever born to women age 40-49, by background characteristics, Ethiopia 2011

| Background characteristic | Total fertility rate | Percentage of women age 15-49 currently pregnant | number of children ever born to women age 40-49 |
|---|---|---|---|
| Residence Urban Rural | 2.6 5.5 | 3.8 8.4 | 5.0 7.3 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 4.6 5.0 4.2 5.6 7.1 5.2 4.9 4.0 3.8 1.5 3.4 | 7.2 9.9 4.7 8.3 12.4 10.2 9.3 5.7 6.7 3.6 7.2 | 6.4 7.3 6.9 7.1 7.9 6.6 7.3 5.6 5.5 3.3 4.8 |
| Education No education Primary Secondary More than secondary | 5.8 4.6 1.9 1.3 | 8.8 6.5 3.0 3.4 | 7.2 6.3 2.4 2.8 |
| Wealth quintile Lowest Second Middle Fourth Highest Total | 6.0 5.7 5.3 5.0 2.8 4.8 | 9.8 8.5 7.5 7.3 4.5 | 7.2 7.2 7.3 7.3 5.3 6.9 |
| Note: Total famility rates are for | the period 1 | 26 months r | rocoding the |

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

quintiles. Women in the lowest wealth quintile have a TFR of 6.0, more than twice as high as women in the highest wealth quintile, at 2.8.

Table 5.2 also presents a crude assessment of trends in the various subgroups by comparing current fertility with a measure of completed fertility—the mean number of children ever born to women age 40-49. The mean number of children ever born to older women, who are nearing the end of their reproductive period, is an indicator of average completed fertility of women who began childbearing over the three decades preceding the survey. If fertility remained constant over time and the reported data on both children ever born and births during the three years preceding the survey are reasonably accurate, the TFR and the mean number of children ever born for women age 40-49 would be expected to be similar. When fertility levels have been falling, the TFR will be substantially lower than the mean number of children ever born to women age 40-49. The comparison of current fertility at the country level with completed fertility suggests that fertility has fallen by over two children per woman during the past few decades, from 6.9 children to 4.8. The table also reveals that substantial declines in fertility have taken place in both rural areas (from 7.3 to 5.5) and urban areas (from 5.0 to 2.6). The differences between the levels of current and completed fertility are highest in Amhara (2.7 children), in urban areas (2.4 children), and among women in the highest wealth quintile (2.5 children).

The percentage of women currently pregnant is a useful measure of current fertility, although not all women who are pregnant are likely to be included because they may not be aware that they are pregnant or may be reluctant to disclose a pregnancy in the early stages. Seven percent of women reported that they were pregnant at the time of the survey. Rural women were much more likely to be pregnant (8 percent) than urban women (4 percent). The highest proportion of women who were pregnant is in Somali (12 percent), while the lowest proportion was in Addis Ababa (4 percent). The percentage of women currently pregnant decreases with increasing level of education, from 9 percent among women with no education to 3 percent among those with secondary or higher education. Similarly, there are more currently pregnant women in the two lowest wealth quintiles (9-10 percent) than in the highest wealth quintile (5 percent).

5.3 FERTILITY TRENDS

Table 5.3.1 uses information from the retrospective birth histories obtained from the 2011 EDHS respondents to examine trends in age-specific fertility rates for successive five-year periods before the survey. To calculate these rates, births were classified according to the period of time in which the birth occurred and the mother's age at the time of birth. Because birth histories have not been collected for women age 50 and over, the rates for older age groups become progressively more truncated for periods more distant from the survey date. For example, rates cannot be calculated for women age 45-49 for the periods 5-9 years or more prior to the survey because women in those age

<u>Table 5.3.1 Trends in age-specific fertility rates</u>

Age-specific fertility rates for five-year periods preceding the survey, by mother's age at the time of the birth, Ethiopia 2011

| Mother's | Number of years preceding survey | | | | | | | | |
|---|--|--|-----------------------------------|----------------------------|--|--|--|--|--|
| age at birth | 0-4 | 5-9 | 10-14 | 15-19 | | | | | |
| 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 87 227 248 206 157 72 [31] | 143 266 293 257 205 [145] | 169 296 298 288 [271] | 174 278 304 [302] | | | | | |

Note: Age-specific fertility rates are per 1,000 women. Estimates in brackets are truncated. Rates exclude the month of interview.

groups would have been 50 years or older at the time of the survey.

Table 5.3.1 shows that there was no consistent change in fertility from 15-19 years preceding the survey to 10-14 years preceding the survey. However, there has been a fertility decline in every age group in the subsequent two periods. The decline has been particularly rapid between the periods 5-9 years and 0-4 years preceding the survey.

Another way to examine fertility trends is to compare current estimates with estimates from earlier surveys. Estimates of the TFR and ASFR are available from the two previous EDHS surveys (2000 and 2005). These estimates (shown in Table 5.3.2) offer an opportunity to assess fertility trends over the last decade. These data show that the TFR decreased only slightly from 5.5 children in 2000 to 5.4 children in 2005, and then decreased further to 4.8 children in 2011. Although the level of fertility decreased over time, the age pattern of fertility was similar in all four surveys, with fertility increasing from age 15-19 to age 25-29 and decreasing thereafter.

<u>Table 5.3.2 Trends in age-specific and total fertility</u> rates

Trends in age-specific and total fertility rates, Ethiopia 2011

| Age group | EDHS | EDHS | EDHS |
|-----------|-------------------|-------------------|------|
| | 2000 ¹ | 2005 ² | 2011 |
| 15-19 | 100 | 104 | 79 |
| 20-24 | 235 | 228 | 207 |
| 25-29 | 251 | 241 | 237 |
| 30-34 | 243 | 231 | 192 |
| 35-39 | 168 | 160 | 150 |
| 40-44 | 89 | 84 | 68 |
| 45-49 | 19 | 34 | 28 |
| TFR | 5.5 | 5.4 | 4.8 |

Note: Age-specific fertility rates are per 1,000 women; rate for 2000 EDHS is for the three years preceding the survey.

5.4 CHILDREN EVER BORN AND LIVING

Table 5.4 presents the distribution of all women and currently married women by the number of children ever born, according to five-year age groups. The table also shows the mean number of children ever born and the mean number of living children. Data on the number of children ever born reflect the accumulation of births to women over their entire reproductive lifespan and therefore have limited reference to current fertility levels, particularly when a country has experienced a decline in fertility. However, the information on children ever born is useful for observing how average family size varies across age groups and also for observing the level of primary infertility.

The results show that 90 percent of women age 15-19 have never given birth. This proportion declines rapidly to 14 percent for women age 25-29 and to 7 percent or lower for women age 30 and older. On average, Ethiopian women attain a parity of 7.3 children per woman by the end of their childbearing years. This number is higher than the TFR of 4.8 per woman, a difference that is attributable to the decrease in fertility.

Women age 40 or older have much higher parities, with substantial proportions having 10 or more births each by the end of their childbearing years. For example, 54 percent of women age 45-49 have given birth to eight or more children.

A similar pattern is observed for currently married women, except that the mean number of children ever born is higher for currently married women (4.1 children) than for all women (2.9 children).

As expected, the mean number of children ever born and mean number of children surviving rise monotonically with increasing age of women. A comparison of the mean number of living children with the mean number of children ever born shows that, by the end of their childbearing years, women have lost an average of 1.7 children.

¹ CSA and ORC Macro, 2001 ² CSA and ORC Macro, 2006

Table 5.4 Children ever born and living

Percent distribution of all women and currently married women age 15-49 by number of children ever born, mean number of children ever born and mean number of living children, according to age group, Ethiopia 2011

| | | | | ١ | Number o | f children | ever bor | n | | | | _ | Weighted | Unweighted | Mean number of | Mean number of |
|----------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|--------------|--------------|------------|-------------|----------------|--------------------|--------------------|-----------------------|--------------------|
| Age | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | Total | number of women | number of women | children ever born | living children |
| | ALL WOMEN | | | | | | | | | | | | | | | |
| 15-19 | 89.9 | 7.9 | 1.9 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 4,009 | 3,835 | 0.13 | 0.11 |
| 20-24 25-29 | 43.2 13.6 | 25.4 14.7 | 20.4 20.5 | 7.6 21.3 | 2.6 16.1 | 0.5 8.6 | 0.1 3.5 | 0.2 1.1 | 0.0 0.4 | 0.0 0.1 | 0.0 | 100.0 100.0 | 2,931 3,147 | 3,022 3,185 | 1.04 2.60 | 0.95 2.34 |
| 30-34 | 6.7 | 6.9 | 10.4 | 12.4 | 18.5 | 18.0 | 13.5 | 8.4 | 3.5 | 1.3 | 0.4 | 100.0 | 2,054 | 2,100 | 4.12 | 3.56 |
| 35-39 40-44 | 4.1 2.8 | 3.9 3.3 | 6.2 5.1 | 8.4 5.7 | 11.3 8.0 | 12.6 9.3 | 17.4 11.1 | 15.7 15.8 | 10.1 13.5 | 6.0 8.7 | 4.3 16.4 | 100.0 100.0 | 1,916 1,261 | 1,958 1,314 | 5.43 6.50 | 4.54 5.26 |
| 45-49 | 1.9 | 2.5 | 4.1 | 3.4 | 5.3 | 6.8 | 10.5 | 12.0 | 13.9 | 16.2 | 23.4 | 100.0 | 1,196 | 1,101 | 7.34 | 5.65 |
| Total | 33.7 | 11.0 | 10.7 | 8.7 | 8.2 | 6.6 | 6.0 | 5.2 | 3.7 | 2.7 | 3.5 | 100.0 | 16,515 | 16,515 | 2.88 | 2.42 |
| | | | | | | | CURF | RENTLY I | //ARRIED | MOME! | N | | | | | |
| 15-19 | 53.1 | 36.3 | 9.5 | 0.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 765 | 784 | 0.59 | 0.53 |
| 20-24 | 15.2 | 35.0 | 31.8 | 12.3 | 4.3 | 0.8 | 0.2 | 0.3 | 0.0 | 0.0 | 0.0 | 100.0 | 1,762 | 1,788 | 1.60 | 1.46 |
| 25-29 | 4.7 2.9 | 12.6 4.9 | 22.0 | 24.4 | 19.1 | 10.8 | 4.3 | 1.4 9.8 | 0.5 3.9 | 0.1 1.5 | 0.0 | 100.0 | 2,511 | 2,480 | 3.01 | 2.71 |
| 30-34 35-39 | 2.9 | 2.4 | 9.4 5.2 | 11.8 7.7 | 20.3 | 20.0 | 15.0 18.3 | 9.6 17.1 | 3.9 11.5 | 6.5 | 0.4 5.0 | 100.0 100.0 | 1,720 | 1,722 | 4.49 5.75 | 3.88 4.83 |
| 40-44 | 1.7 | 2.4 | 3.8 | 7.7 5.2 | 10.3 7.3 | 13.3 8.3 | 10.3 | 16.7 | 14.9 | 9.8 | 19.3 | 100.0 | 1,591 1,033 | 1,600 1,047 | 6.91 | 5.62 |
| 45-49 | 1.7 | 1.4 | 2.9 | 2.2 | 4.2 | 5.2 | 9.1 | 11.7 | 15.6 | 18.8 | 27.4 | 100.0 | 905 | 783 | 7.84 | 6.07 |
| | 1.0 | | | | | J. <u>L</u> | J.1 | | . 5.0 | . 5.0 | | | | . 00 | | |
| Total | 8.9 | 13.4 | 14.5 | 12.0 | 11.5 | 9.5 | 8.3 | 7.4 | 5.4 | 3.9 | 5.2 | 100.0 | 10,287 | 10,204 | 4.08 | 3.44 |

5.5 BIRTH INTERVALS

A birth interval is defined as the length of time between two successive live births. The study of birth intervals is important in understanding the health status of young children. Research has shown that short birth intervals are closely associated with poor health of children, especially during infancy. Children born too soon after a previous birth, especially if the interval between the births is less than two years, are at increased risk for health problems and death at a young age. Longer birth intervals improve the health status of both mother and child.

Table 5.5 presents the distribution of second and higher-order births in the five years preceding the survey by the number of months since the previous birth, according to background characteristics. The table also presents the median number of months since the preceding birth.

The median birth interval is 34 months, implying that half of non-first births to women in Ethiopia occur less than three years after a previous birth. Twenty percent have an interval of less than two years, and 9 percent of births are less than 18 months apart. Thirty-six percent of births occur 24-35 months after the previous birth and 44 percent are at least three years apart.

Table 5.5 Birth intervals

Percent distribution of non-first births in the five years preceding the survey by number of months since preceding birth, and median number of months since preceding birth, according to background characteristics, Ethiopia 2011

| | | M | onths since | preceding bir | rth | | | | | Median number of |
|-----------------------------|------------|-------|-------------|---------------|---|------|-------|--|--|---------------------------------------|
| Background characteristic | 7-17 | 18-23 | 24-35 | 36-47 | 48-59 | 60+ | Total | Weighted number of non-first births | Unweighted number of non-first births | months since preceding birth |
| Age | | | | | | | 400.0 | | 400 | |
| 15-19 | 7.0 | 13.4 | 51.1 | 26.9 | 1.1 | 0.5 | 100.0 | 98 | 109 | 28.5 |
| 20-29 | 10.2 | 14.0 | 38.0 | 21.3 | 8.7 | 7.7 | 100.0 | 4,401 | 4,229 | 32.0 |
| 30-39 | 7.5 | 10.6 | 34.4 | 23.9 | 10.7 | 13.0 | 100.0 | 4,052 | 4,001 | 35.1 |
| 40-49 | 5.4 | 8.4 | 27.9 | 26.7 | 12.6 | 18.9 | 100.0 | 1,048 | 992 | 38.7 |
| Sex of preceding birth | | | | | | | | | | |
| Male | 8.7 | 11.9 | 35.4 | 23.9 | 9.7 | 10.5 | 100.0 | 4,920 | 4,757 | 33.8 |
| Female | 8.3 | 12.0 | 35.7 | 22.2 | 10.1 | 11.7 | 100.0 | 4,679 | 4,574 | 33.9 |
| Survival of preceding birth | | | | | | | | | | |
| Living | 6.8 | 11.5 | 36.7 | 23.8 | 10.2 | 11.1 | 100.0 | 8,649 | 8,361 | 34.3 |
| Dead | 24.5 | 16.0 | 25.2 | 16.2 | 7.1 | 11.0 | 100.0 | 950 | 970 | 28.1 |
| Birth order | | | 20.2 | | • | | .00.0 | 000 | 0.0 | 20 |
| 2-3 | 9.5 | 12.5 | 34.3 | 21.6 | 9.6 | 12.4 | 100.0 | 3,682 | 3,697 | 33.8 |
| 4-6 | 7.5 | 11.3 | 36.3 | 23.7 | 10.0 | 11.2 | 100.0 | 3,791 | 3,663 | 34.0 |
| 7+ | 7.5 8.6 | 12.0 | 36.2 | 24.3 | 10.0 | 8.7 | 100.0 | 2,125 | 1,971 | 33.7 |
| | 0.0 | 12.0 | 30.2 | 24.3 | 10.2 | 0.7 | 100.0 | 2,123 | 1,971 | 33.1 |
| Residence | | | | | | | | | | |
| Urban | 7.0 | 9.8 | 24.1 | 16.2 | 12.1 | 30.7 | 100.0 | 1,058 | 1,332 | 41.5 |
| Rural | 8.7 | 12.2 | 36.9 | 23.9 | 9.6 | 8.7 | 100.0 | 8,541 | 7,999 | 33.4 |
| Region | | | | | | | | | | |
| Tigray | 3.7 | 8.4 | 37.6 | 26.4 | 10.5 | 13.4 | 100.0 | 599 | 962 | 36.1 |
| Affar | 14.5 | 16.0 | 31.9 | 17.7 | 9.5 | 10.5 | 100.0 | 98 | 915 | 30.2 |
| Amhara | 4.4 | 8.5 | 28.6 | 24.6 | 14.7 | 19.2 | 100.0 | 2,110 | 1,038 | 39.1 |
| Oromiya | 10.5 | 13.7 | 39.4 | 21.9 | 6.7 | 7.8 | 100.0 | 4,093 | 1,439 | 31.5 |
| Somali | 20.5 | 19.6 | 32.1 | 18.6 | 5.4 | 3.7 | 100.0 | 319 | 899 | 26.7 |
| Benishangul-Gumuz | 10.6 | 14.8 | 33.3 | 19.2 | 11.2 | 11.0 | 100.0 | 112 | 825 | 33.0 |
| SNNP | 8.2 | 11.9 | 36.5 | 24.2 | 11.5 | 7.8 | 100.0 | 2,070 | 1,352 | 34.0 |
| Gambela | 6.0 | 9.7 | 28.3 | 24.4 | 13.5 | 18.2 | 100.0 | 29 | 665 | 39.2 |
| Harari | 12.1 | 16.4 | 34.9 | 16.6 | 7.2 | 12.8 | 100.0 | 22 | 495 | 30.9 |
| Addis Ababa | 5.8 | 3.4 | 16.1 | 15.3 | 14.3 | 45.1 | 100.0 | 117 | 208 | 53.0 |
| Dire Dawa | 7.5 | 17.8 | 31.9 | 19.2 | 9.1 | 14.5 | 100.0 | 29 | 533 | 33.3 |
| Education | | | | | | | | | | |
| No education | 8.7 | 12.6 | 36.5 | 23.1 | 9.6 | 9.4 | 100.0 | 7,100 | 7,041 | 33.3 |
| Primary | 8.2 | 9.9 | 33.8 | 23.4 | 10.7 | 13.9 | 100.0 | 2,310 | 2,024 | 35.3 |
| Secondary | 3.6 | 5.2 | 20.9 | 11.9 | 11.6 | 46.8 | 100.0 | 117 | 187 | 53.8 |
| More than secondary | 5.3 | 19.1 | 12.3 | 17.9 | 10.0 | 35.4 | 100.0 | 72 | 79 | 44.3 |
| Wealth quintile | | | | | | | | | | |
| Lowest | 8.6 | 13.3 | 35.8 | 25.4 | 9.0 | 7.9 | 100.0 | 2,263 | 3,051 | 33.4 |
| Second | 7.9 | 12.5 | 38.5 | 24.1 | 9.6 | 7.5 | 100.0 | 2,179 | 1,750 | 33.2 |
| Middle | 8.8 | 11.4 | 34.0 | 25.1 | 11.3 | 9.3 | 100.0 | 2,028 | 1,553 | 34.5 |
| Fourth | 9.3 | 10.8 | 40.0 | 20.4 | 8.8 | 10.7 | 100.0 | 1,860 | 1,506 | 33.0 |
| Highest | 7.7 | 11.1 | 25.7 | 17.5 | 11.4 | 26.6 | 100.0 | 1,269 | 1,471 | 38.9 |
| - | 8.5 | 11.9 | 35.5 | 23.0 | 9.9 | 11.1 | 100.0 | 9,599 | 9,331 | 33.9 |
| Total | 0.5 | 11.9 | 35.5 | 23.0 | 9.9 | 11.1 | 100.0 | 9,599 | <i>५,</i> ১১। | 33.9 |

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

The median birth interval increases with age, ranging from 28.5 months for births to women age 15-19 to 38.7 months for births to women age 40-49. The longer birth interval among older women may be attributed in part to a decrease in fecundity as women grow older. There are no substantial differences in the median birth interval by the child's sex or birth order. However, the median birth interval is 6 months shorter if the previous child died than if the previous child is still alive. The median interval for births to urban women is 8 months longer than for rural women (41.5 and 33.4 months, respectively). The median birth interval ranges from 26.7 months in Somali to 53.0 months in Addis Ababa. The median number of months since the preceding birth among nonfirst births is longest for births to women who have gone to secondary school but do not have more than a secondary education (53.8 months). The shortest median birth interval is for births to women with no education (33.3 months). There is no substantial difference in the median birth interval by wealth quintiles, although births to women in the highest wealth quintile have the longest median birth interval (38.9 months).

5.6 POSTPARTUM AMENORRHOEA, ABSTINENCE, AND INSUSCEPTIBILITY

Postpartum amenorrhoea refers to the interval between childbirth and the return of menstruation. The length and intensity of breastfeeding influence the duration of amenorrhoea, which offers protection from conception. Postpartum abstinence refers to the period between childbirth and the time when a woman resumes sexual activity. Delaying the resumption of sexual relations can also prolong protection from conception. Women are considered to be insusceptible to pregnancy if they are not exposed to the risk of conception, either because their menstrual period has not resumed since giving birth or because they are abstaining from intercourse after childbirth.

Table 5.6 shows, the median duration of amenorrhoea among women who gave birth in the three years preceding the survey is 15.6 months. The median duration of postpartum abstinence is much shorter, at just over 2 months. Taken together, these two factors show that the median duration of postpartum insusceptibility to pregnancy is 16.6 months. During the first two months after childbirth, almost all women (99.6 percent) are insusceptible to pregnancy. Amenorrhoea and abstinence both important roles in insusceptibility. During the second and third months after giving birth, 88 percent of women are still insusceptible to pregnancy, but the percentage of women receiving protection from postpartum abstinence drops to 40 percent, whereas 85 percent

Table 5.6 Postpartum amenorrhoea, abstinence, and insusceptibility

Percentage of births in the three years preceding the survey for which mothers are postpartum amenorrhoeic, abstaining, and insusceptible, by number of months since birth, and median and mean durations, Ethiopia 2011

| Months | Percentage of b | oirths for which | ch the mother is: | Weighted number | Unweighted number |
|-------------|-----------------|------------------|----------------------------|-----------------|-------------------|
| since birth | Amenorrhoeic | Abstaining | Insusceptible ¹ | of births | of births |
| < 2 | 98.8 | 88.1 | 99.6 | 387 | 351 |
| 2-3 | 84.7 | 39.7 | 87.9 | 514 | 483 |
| 4-5 | 80.0 | 16.1 | 81.5 | 432 | 421 |
| 6-7 | 76.4 | 11.4 | 78.5 | 430 | 422 |
| 8-9 | 70.4 | 10.5 | 72.1 | 389 | 372 |
| 10-11 | 67.2 | 10.4 | 69.2 | 357 | 310 |
| 12-13 | 60.4 | 3.7 | 61.4 | 416 | 383 |
| 14-15 | 53.7 | 10.4 | 57.7 | 317 | 350 |
| 16-17 | 45.9 | 9.8 | 49.9 | 358 | 407 |
| 18-19 | 42.6 | 4.1 | 45.4 | 356 | 333 |
| 20-21 | 24.6 | 3.1 | 25.8 | 321 | 290 |
| 22-23 | 30.3 | 3.4 | 31.3 | 286 | 264 |
| 24-25 | 17.6 | 2.8 | 19.7 | 393 | 424 |
| 26-27 | 12.3 | 4.7 | 15.1 | 337 | 397 |
| 28-29 | 14.9 | 3.1 | 16.8 | 314 | 386 |
| 30-31 | 13.0 | 2.4 | 13.8 | 372 | 344 |
| 32-33 | 9.0 | 3.3 | 12.3 | 346 | 326 |
| 34-35 | 4.7 | 2.4 | 6.5 | 419 | 341 |
| Total | 46.9 | 13.7 | 49.0 | 6,743 | 6,604 |
| Median | 15.6 | 2.3 | 16.6 | na | na |
| Mean | 16.4 | 4.9 | 17.1 | na | na |

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

na = Not applicable

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

are amenorrhoeic. By 12-13 months after childbirth, 61 percent of women are insusceptible to pregnancy and 60 percent remain amenorrhoeic, but only 4 percent are abstaining from sexual relations.

A comparison of data from the 2000 and 2005 EDHS surveys indicates that there was no change in the median duration of postpartum abstinence, but the median duration of amenorrhoea and insusceptibility decreased by three months from 2000 to 2005. Between the 2005 EDHS and the 2011 EDHS, there was almost no change in the median durations of postpartum amenorrhoea, abstinence and insusceptibility.

Table 5.7 shows that the median duration of postpartum amenorrhoea is longer among women age 30-49 (16.8 months) than among women age 15-29 (14.1 months). The duration of postpartum insusceptibility is also longer among older women (17.3 months) than younger women (15.2 months). However, the median length of postpartum abstinence is about the same for younger and older women.

Rural women have a much longer period of postpartum amenorrhoea than urban women (16.6 and 10.9 months, respectively) and a longer median period of postpartum insusceptibility than urban women (17.1 and 11.8 months, respectively). However, the median length of postpartum abstinence is almost the same.

There are considerable regional variations in postpartum amenorrhoea and insusceptibility. The median duration of postpartum amenorrhoea ranges from 8.2 months in Somali to 19.0 months in Tigray, and the median duration of

<u>Table 5.7 Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility</u>

Median number of months of postpartum amenorrhoea, postpartum abstinence, and postpartum insusceptibility following births in the three years preceding the survey, by background characteristics, Ethiopia 2011

| Background characteristic | Postpartum amenorrhoea | Postpartum abstinence | Postpartum insusceptibility ¹ |
|---------------------------|---------------------------|--------------------------|--|
| Mother's age | | | |
| 15-29 | 14.1 | 2.4 | 15.2 |
| 30-49 | 16.8 | 2.3 | 17.3 |
| Residence | | | |
| Urban | 10.9 | 2.5 | 11.8 |
| Rural | 16.6 | 2.3 | 17.1 |
| Region | | | |
| Tigray | 19.0 | 2.2 | 19.8 |
| Affar | 11.3 | 2.7 | 13.6 |
| Amhara | 18.4 | 2.7 | 19.0 |
| Oromiya | 14.4 | 2.2 | 14.9 |
| Somali | 8.2 | 2.0 | 8.6 |
| Benishangul-Gumuz | 12.5 | 2.3 | 13.7 |
| SNNP | 15.9 | 2.2 | 16.9 |
| Gambela | 16.1 | 12.7 | 23.0 |
| Harari Addis Ababa | 8.4 | 2.7 | 8.9 |
| Dire Dawa | (3.7) 12.9 | (3.0) 3.5 | (5.1) 13.3 |
| | 12.9 | 3.3 | 13.3 |
| Education | | | |
| No education | 17.2 | 2.5 | 17.6 |
| Primary | 12.0 | 2.0 | 12.8 |
| Secondary | 3.8 | 2.9 | 5.3 |
| More than secondary | * | * | 8.3 |
| Wealth quintile | | | |
| Lowest | 18.1 | 2.8 | 18.9 |
| Second | 16.6 | 2.3 | 16.8 |
| Middle | 17.2 | 2.4 | 17.6 |
| Fourth | 12.5 | 2.2 | 14.7 |
| Highest | 10.2 | 2.2 | 10.4 |
| Total | 15.6 | 2.3 | 16.6 |

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

¹ Includes births for which mothers are either still amenorrhoeic or still abstaining (or both) following birth.

postpartum abstinence ranges from 2.0 months in Somali to 12.7 months in Gambela. The median duration of insusceptibility ranges from 8.6 months in Somali to 23.0 months in Gambela.

The median durations of amenorrhoea, abstinence and insusceptibility decline as household wealth increases. This pattern is similar for women with little or no education but less obvious among women with secondary and higher education because of the small numbers of women in these two categories.

5.7 MENOPAUSE

Another factor influencing the risk of pregnancy is menopause. In the context of available survey data, women are considered menopausal if they are neither pregnant nor postpartum amenorrhoeic and they have not had a menstrual period in the six months preceding the survey (Table 5.8). As expected, the proportion of women who are menopausal increases with age, ranging from 9 percent of women age 30-34 to 62 percent of women age 48-49. Less than 10 percent of both women age 30-34 and women age 35-39 and only 18-21 percent of women age 40-43 are menopausal.

Table 5.8 Menopause

Percentage of women age 30-49 who are menopausal, by age, Ethiopia 2011

| Age | Percentage menopausal ¹ | Weighted number of women | Unweighted number of women |
|-------|---------------------------------------|--------------------------------|----------------------------------|
| Age | | | |
| 30-34 | 8.6 | 2,054 | 2,100 |
| 35-39 | 9.4 | 1,916 | 1,958 |
| 40-41 | 17.6 | 692 | 776 |
| 42-43 | 20.8 | 412 | 394 |
| 44-45 | 38.7 | 586 | 579 |
| 46-47 | 41.7 | 360 | 319 |
| 48-49 | 62.0 | 408 | 347 |
| Total | 18.6 | 6,428 | 6,473 |

¹ Percentage of all women who are not pregnant and not postpartum amenorrhoeic whose last menstrual period occurred six or more months preceding the survey

A large increase is observed among women at age 44-45, 39 percent of whom are menopausal. By age 48-49, 62 percent of women are menopausal. Overall, 19 percent of women age 30-49 in Ethiopia are menopausal, an increase of three percentage points since the 2005 EDHS.

5.8 **AGE AT FIRST BIRTH**

The age at which childbearing commences is an important determinant of the overall level of fertility as well as of the health and welfare of the mother and the child. In some societies, postponement of first births due to an increase in age at marriage has contributed to overall fertility decline. Table 5.9 shows the percentage of women in Ethiopia who have given birth by specific ages, according to age at the time of the survey.

Overall, 9 percent of women age 25-49 have given birth by exact age 15, and 38 percent have given birth by exact age 18. More than half (58 percent) of women have become mothers by exact age 20. Whereas only 1 percent of women currently age 15-19 gave birth by exact age 15, the corresponding proportion for women currently age 45-49 is 12 percent. The percentage of women who gave birth by exact age 18 is almost half as high for women age 20-24 as for women age 40-49.

| Table | 5 O | ۸۵٥ | ٦t | firet | hirth |
|-------|-----|-----|----|-------|-------|
| rable | 5.9 | Age | aı | IIISt | ווווו |

Percentage of women age 15-49 who gave birth by specific exact ages, percentage who have never given birth, and median age at first birth, according to current age, Ethiopia 2011

| | Pe | ercentage w | ho gave birtl | h by exact a | Percentage who have | Weighted | Unweighted | Madiana | |
|--|--|--|--|--|--|--|---|---|---|
| Current age | 15 | 18 | 20 | 22 | 25 | never given birth | number of women | number of women | Median age at first birth |
| Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 1.0 3.0 6.1 9.5 10.2 12.6 12.3 | na 22.2 32.8 40.0 38.2 43.0 42.9 | na 40.3 54.5 58.7 57.4 60.4 62.6 | na na 69.3 73.3 72.4 77.4 77.4 | na na 82.6 85.4 86.0 87.2 88.0 | 89.9 43.2 13.6 6.7 4.1 2.8 1.9 | 4,009 2,931 3,147 2,054 1,916 1,261 1,196 | 3,835 3,022 3,185 2,100 1,958 1,314 1,101 | a 19.6 19.0 19.2 18.7 18.8 |
| 20-49 25-49 | 7.8 9.3 | 34.3 38.0 | 53.7 57.8 | na 72.9 | na 85.1 | 15.7 7.3 | 12,506 9,575 | 12,680 9,658 | 19.6 19.2 |

na = Not applicable due to censoring a = Omitted because less than 50 percent of women had a birth before reaching the beginning of the age group

Table 5.10 presents the median age at first birth across age cohorts for key subgroups of women. The summary measures are presented for women age 25-49 to ensure that half of the women in every group have already had a birth. The summary measure is also presented for women age 20-49 for groups of women in which at least half of women have had a birth by age 20.

In Ethiopia the median age at first birth for women age 25-49 is 19.2 years. The median age at first birth for women age 25-49 in urban areas (20.5) is 1.5 months longer than the median age at first birth in rural areas (19.0 months). The median age at first birth ranges from 18.1 years in Amhara to 23.0 years in the Addis Ababa.

Table 5.10 Median age at first birth

Median age at first birth among women age 20-49 and 25-49 years, according to background characteristics, Ethiopia 2011

| Background | Women age | | | | | |
|---|---|--|--|--|--|--|
| characteristic | 20-49 | 25-49 | | | | |
| Residence Urban Rural | a 19.2 | 20.5 19.0 | | | | |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 19.3 19.2 18.7 19.5 a 18.7 a 19.7 a | 19.0 19.0 18.1 19.2 20.2 18.5 19.9 19.4 20.3 23.0 21.6 | | | | |
| Education No education Primary Secondary or higher | 18.9 a a | 18.8 19.6 24.1 | | | | |
| Wealth quintile Lowest Second Middle Fourth Highest | 19.2 19.1 19.3 19.3 a | 19.2 18.9 19.0 18.8 20.2 | | | | |
| Total | 19.6 | 19.2 | | | | |

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

The level of education for women age 25-49 is positively related to the median age at first birth, ranging from a median age of 18.8 years for women with no education to 24.1 years for women with secondary or higher education. Similarly, women in the highest wealth quintile delay the onset of their childbearing by about one year relative to women in the lowest wealth quintile.

5.9 TEENAGE PREGNANCY AND MOTHERHOOD

Teenage pregnancy is a major health concern because of its association with higher morbidity and mortality for both mother and child. Childbearing during the teenage years frequently has adverse social consequences as well, particularly on educational attainment, because women who become mothers in their teens are more likely to curtail their education.

Table 5.11 Teenage pregnancy and motherhood

Percentage of women age 15-19 who have had a live birth or who are pregnant with their first child, and percentage who have begun childbearing, by background characteristics, Ethiopia 2011

| | Percentage age 15-1 | | | | |
|---|---|--|---|---|---|
| Background characteristic | Have had a live birth | Are pregnant with first child | Percentage who have begun childbearing | Weighted number of women | Unweighted number of women |
| Age 15 16 17 18 | 0.4 3.8 7.1 15.6 29.7 | 0.5 1.1 2.1 4.3 3.9 | 1.0 4.9 9.2 19.9 33.6 | 1,006 821 627 977 578 | 902 773 666 925 569 |
| Residence Urban Rural | 3.6 12.4 | 0.6 2.9 | 4.1 15.3 | 1,042 2,968 | 1,297 2,538 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 11.0 11.5 10.2 12.7 14.8 16.9 5.7 17.0 12.7 1.1 6.9 | 1.0 3.6 1.4 3.1 4.4 2.5 3.5 1.8 1.5 0.8 | 12.0 15.1 11.6 15.8 19.2 19.3 8.2 20.5 14.5 2.6 7.6 | 294 30 1,123 1,489 70 39 710 18 11 210 | 458 268 528 531 193 286 440 245 243 406 237 |
| Education No education Primary Secondary More than secondary | 28.7 6.7 3.9 0.0 | 4.1 2.1 1.3 0.0 | 32.8 8.8 5.2 0.0 | 695 2,813 406 95 | 783 2,497 429 126 |
| Wealth quintile Lowest Second Middle Fourth Highest | 16.2 12.2 14.4 6.6 4.8 | 4.4 1.8 2.7 2.6 0.7 | 20.6 14.0 17.2 9.2 5.5 | 686 696 687 889 1,051 4,009 | 777 540 523 640 1,355 3,835 |

Table 5.11 shows that 12 percent of women age 15-19 have already started childbearing; 10 percent have had a live birth, and 2 percent are pregnant with their first child. While only 1 percent of women age 15 have started childbearing, 34 percent of women are either mothers or are pregnant with their first child by age 19.

Teenagers in rural areas are much more likely to have started childbearing than their urban counterparts (15 and 4 percent, respectively), due mainly to the high prevalence of early marriage in rural Ethiopia. Among regions the percentage of women age 15-19 who have begun childbearing ranges from 3 percent in Addis Ababa to 21 percent in Gambela.

There is a strong inverse relationship between early childbearing and women's education; teenagers with less education are much more likely to have started childbearing than those who are better educated. Thirty-three percent of teenagers with no education have begun childbearing, but no teenagers with more than a secondary education in the 2011 EDHS sample have begun childbearing. Teenagers in the lowest wealth quintile are almost four times as likely to start childbearing early as women in the highest wealth quintile (21 percent and 6 percent, respectively).

Key Findings

- Thirty-seven percent of currently married women age 15-49 and 29 percent of men want no more children or are sterilized.
- The desire to stop childbearing increased from 32 percent in 2000 to 42 percent in 2005 and then declined to 37 percent in 2011.
- Women prefer a family size of 4.3 children, and men prefer 4.8 children. Women's ideal family size has declined in the last ten years, from 5.3 children in 2000 to 4.5 children in 2005 and 4.3 children in 2011.
- Overall, the total wanted fertility rate (TWFR) in Ethiopia is 3.0 children per woman, 1.8 fewer than the total fertility rate (TFR) of 4.8. This suggests that the TFR is 60 percent higher than it would be if unwanted births were avoided.

Information on fertility preferences provides family planning programmes with an understanding of the potential demand for family planning in a given population. The 2011 EDHS asked women and men a series of questions to ascertain their fertility preferences, including the desire to have another child, the length of time they would like to wait before having another child, and what they would consider to be the ideal number of children. Interpretation of responses to these questions is subject to some degree of error because in most cases respondents' reported preferences are hypothetical and thus subject to change and rationalisation. Nonetheless, these data are useful in assessing future fertility trends. In combination with data on contraceptive use, they also allow estimation of the need for family planning, both for spacing and limiting births.

6.1 DESIRE FOR MORE CHILDREN

Table 6.1 and Figure 6.1 present data concerning future reproductive preferences among currently married women and men. The inclusion of women who are currently pregnant complicates the measurement of views on future childbearing. For a pregnant woman the question about desiring more children is rephrased to refer to wanting another child after the one that she is currently expecting. To take into account the way in which the preference variable is defined for pregnant women, the results are classified by number of living children, with the current pregnancy categorised as equivalent to a living child.

Table 6.1 Fertility preferences by number of living children

Percent distribution of currently married women and currently married men age 15-49 by desire for children, according to number of living children, Ethiopia 2011

| | Number of living children | | | | | | | Total | Total |
|---------------------------------|---------------------------|-------|-------|-----------------|-------|-------|-------|--------|-------|
| Desire for children | 0 | 1 | 2 | 3 | 4 | 5 | 6+ | 15-49 | 15-59 |
| | | | WOM | EN ¹ | | | | | |
| Have another soon ² | 55.4 | 23.9 | 17.1 | 14.9 | 12.1 | 8.2 | 6.7 | 16.9 | na |
| Have another later ³ | 34.1 | 61.2 | 53.8 | 44.6 | 37.9 | 27.5 | 13.7 | 38.2 | na |
| Have another, undecided when | 4.0 | 2.4 | 3.0 | 2.1 | 2.2 | 1.7 | 1.7 | 2.3 | na |
| Undecided | 1.0 | 2.9 | 3.1 | 3.9 | 3.7 | 4.8 | 4.3 | 3.5 | na |
| Want no more | 3.4 | 9.1 | 21.4 | 31.9 | 41.4 | 55.8 | 68.6 | 36.5 | na |
| Sterilised ⁴ | 0.0 | 0.0 | 0.5 | 0.4 | 0.7 | 0.5 | 0.7 | 0.5 | na |
| Declared infecund | 2.1 | 0.4 | 0.9 | 2.1 | 1.5 | 1.5 | 4.0 | 1.9 | na |
| Missing | 0.0 | 0.0 | 0.3 | 0.0 | 0.4 | 0.0 | 0.2 | 0.2 | na |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | na |
| Weighted number | 806 | 1,490 | 1,746 | 1,529 | 1,302 | 1,164 | 2,251 | 10,287 | na |
| Unweighted number | 878 | 1,658 | 1,772 | 1,462 | 1,287 | 1,137 | 2,010 | 10,204 | na |
| | | | MEI | N ⁵ | | | | | |
| Have another soon ² | 55.6 | 21.0 | 15.9 | 14.3 | 15.6 | 7.5 | 10.8 | 17.7 | 17.4 |
| Have another later ³ | 35.8 | 69.9 | 63.3 | 52.2 | 42.7 | 40.5 | 31.8 | 48.9 | 43.3 |
| Have another, undecided when | 3.2 | 1.6 | 1.5 | 2.7 | 1.8 | 2.5 | 1.7 | 2.0 | 2.0 |
| Undecided | 0.8 | 2.1 | 2.5 | 2.1 | 2.3 | 2.1 | 1.1 | 1.9 | 1.9 |
| Want no more | 3.2 | 5.2 | 15.7 | 27.7 | 36.6 | 46.0 | 53.1 | 28.4 | 32.8 |
| Sterilised ⁴ | 0.0 | 0.0 | 0.4 | 0.3 | 0.1 | 1.0 | 1.0 | 0.4 | 1.0 |
| Declared infecund | 0.5 | 0.3 | 0.7 | 0.4 | 0.7 | 0.4 | 0.5 | 0.5 | 1.6 |
| Missing | 1.0 | 0.1 | 0.0 | 0.2 | 0.2 | 0.1 | 0.0 | 0.2 | 0.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Weighted number | 554 | 1,024 | 1,219 | 1,051 | 934 | 714 | 1,375 | 6,872 | 8,089 |
| Unweighted number | 567 | 1,117 | 1,180 | 1,019 | 855 | 688 | 1,349 | 6,775 | 7,930 |

na = Not applicable

Although more than half of currently married women age 15-49 (57 percent) say that they want more children, 38 percent say that they want to wait for two years or more before having their next child. These women can be considered potential contraceptive users for spacing births. Seventeen percent of women say they want another child soon (within the next two years), while 2 percent want another child but are undecided about the timing of the next birth. Four percent are unsure whether they want another child. Overall, 37 percent of married women want no more children, including 1 percent who have been sterilised. Two percent of women consider themselves to be infecund.

The desire for more children is related to the number of living children women already have. More than nine in every ten currently married women with no children want to have a child, with 55 percent expressing the desire to have a child soon and 34 percent wanting to delay having a child for at least two years. For women with one or more living children, the desire to stop childbearing altogether increases with the number of children. For example, 9 percent of currently married women with one child report that they want no more children compared with 69 percent of women with six or more children. Nevertheless, significant percentages of women with five children (37 percent), or six or more children (22 percent), want to have another child.

Among currently married women of reproductive age, the desire to space births has not changed considerably over time. According to the 2000 EDHS, 36 percent of women age 15-49 wanted to wait at least two years before having another child compared with 35 percent of women in 2005 and 38 percent in 2011. Conversely, the proportion of women who want no more births increased from 32 percent in 2000 to 42 percent in 2005 and then declined to 37 percent in 2011.

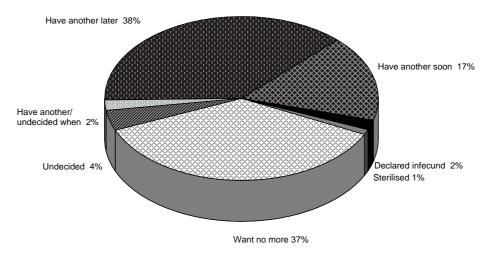
The number of living children includes current pregnancy for women

Wants next birth within two years

Wants to delay next birth for two or more years Includes both female and male sterilisation

⁵ The number of living children includes one additional child if respondent's wife is pregnant (or if any wife is pregnant, for men with more than one current wife)

Figure 6.1 Desire for More Children Among Currently Married Women



Note: Percentages add to more than 100 due to rounding.

EDHS 2011

Overall, the percentage of men age 15-49 who want no more children or are sterilised (29 percent) is lower than among women age 15-49 (37 percent). Conversely, a higher percentage of men than women want to have another child (69 versus 57 percent). Men's reported desire to have another child decreases as their number of living children increases, as in the case among women.

6.2 Desire to Limit Childbearing by Background Characteristics

Tables 6.2.1 and 6.2.2 present the percentages of currently married women and men who want no more children (or are sterilised), by number of living children. The data provide information about variations in the potential demand for family planning among women and men.

Table 6.2.1 shows that overall the proportion of currently married women who desire to limit childbearing is the same in urban areas as in rural areas (37 percent). However, when the number of children is held constant, urban women are more likely than rural women to want to limit childbearing, with the largest difference among women with two living children (41 percent among urban women and 15 percent among rural women).

There is significant regional variation in the desire to limit childbearing, ranging from 11 percent in the Somali region to 41 percent in the SNNP region. As women's education increases, their reported desire to have no more children decreases. For example, 41 percent of women with no education desire to limit childbearing compared with 32 percent of women with primary education. Currently married women in the middle wealth quintile are most likely to want to limit childbearing (40 percent).

Table 6.2.1 Desire to limit childbearing: Women

Percentage of currently married women age 15-49 who want no more children, by number of living children, according to background characteristics, Ethiopia 2011

| Background | Number of living children ¹ | | | | | | | |
|-------------------------|--|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| characteristic | 0 | 1 | 2 | 3 | 4 | 5 | 6+ | Total |
| Residence | | | | | | | | |
| Urban | 7.5 | 9.2 | 41.2 | 45.1 | 60.9 | 61.9 | 70.7 | 37.1 |
| Rural | 1.9 | 9.1 | 15.0 | 29.2 | 39.1 | 55.7 | 69.2 | 36.9 |
| Region | | | | | | | = | |
| Tigray | 0.9 2.6 | 2.3 6.1 | 11.8 15.4 | 17.1 13.0 | 26.7 16.5 | 42.4 21.1 | 59.6 24.9 | 26.3 15.1 |
| Affar Amhara | 5.0 | 13.4 | 29.6 | 33.4 | 42.4 | 61.1 | 74.9 | 39.6 |
| Oromiya | 2.2 | 7.6 | 18.8 | 33.4 | 42.4 | 62.2 | 67.5 | 37.1 |
| Somali | (3.6) | 3.2 | 8.6 | 7.5 | 5.0 | 11.6 | 18.5 | 10.7 |
| Benishangul-Gumuz | 10.9 | 10.2 | 22.8 | 29.5 | 49.6 | 50.4 | 64.5 | 34.4 |
| SNNP | 2.6 | 6.1 | 15.7 | 33.8 | 47.0 | 51.2 | 77.9 | 41.3 |
| Gambela | 2.9 | 21.8 | 32.9 | 34.3 | 43.5 | 50.8 | 52.5 | 30.0 |
| Harari | 0.0 | 10.9 | 35.0 | 39.2 | 42.0 | 54.0 | 78.2 | 35.9 |
| Addis Ababa | 2.7 | 15.2 | 35.3 | 51.2 | 79.0 | | (81.7) | 34.4 |
| Dire Dawa | 0.0 | 11.2 | 41.7 | 41.5 | 43.5 | 64.3 | 73.9 | 37.2 |
| Education | 1.0 | 11.1 | 10.0 | 24.0 | 40.0 | FF 0 | 60.0 | 40.6 |
| No education Primary | 1.3 5.5 | 11.1 9.0 | 19.2 23.2 | 31.8 31.0 | 40.9 43.9 | 55.0 61.4 | 68.2 73.8 | 40.6 32.2 |
| Secondary | 7.9 | 4.7 | 32.2 | 35.9 | (77.3) | * | 13.0 | 21.8 |
| More than secondary | 0.0 | 2.8 | 31.3 | (54.8) | (11.5) | * | * | 20.5 |
| Wealth quintile | | | | , | | | | |
| Lowest | 3.6 | 8.3 | 19.2 | 31.0 | 35.4 | 50.9 | 64.2 | 35.9 |
| Second | 2.1 | 8.3 | 13.1 | 28.5 | 43.0 | 55.1 | 71.5 | 36.4 |
| Middle | 0.1 | 13.1 | 19.8 | 32.9 | 42.2 | 53.9 | 73.6 | 40.2 |
| Fourth | 9.2 | 9.2 | 13.0 | 28.7 | 36.4 | 66.8 | 67.0 | 37.9 |
| Highest | 2.8 | 8.0 | 37.4 | 39.4 | 57.5 | 56.6 | 71.4 | 34.6 |
| Total | 3.4 | 9.2 | 21.9 | 32.3 | 42.1 | 56.3 | 69.3 | 37.0 |

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

¹ The number of living children includes the current pregnancy.

Table 6.2.2 shows that urban, educated, and wealthy men are more likely to want to limit childbearing than men in rural areas and those with less education or wealth. Among men the desire to limit childbearing is greatest in Amhara region and least in Somali.

Table 6.2.2 Desire to limit childbearing: Men Percentage of currently married men age 15-49 who want no more children, by number of living children, according to background characteristics, Ethiopia 2011

| Background | Number of living children ¹ | | | | | | | |
|---------------------------|--|------------|--------------|--------------|--------------|--------------|--------------|--------------|
| characteristic | 0 | 1 | 2 | 3 | 4 | 5 | 6+ | Total |
| Residence | | | | | | | | |
| Urban | 3.7 | 11.6 | 29.4 | 44.4 | 53.7 | 68.2 | 58.4 | 32.7 |
| Rural | 3.0 | 3.1 | 11.2 | 24.4 | 34.4 | 44.0 | 53.7 | 28.0 |
| Region | | | | | | | | |
| Tigray | 3.4 | 2.6 | 7.8 | 16.5 | 21.0 | 36.4 | 56.2 | 22.4 |
| Affar | 3.5 | 3.9 | 5.4 | 8.4 | 11.7 | (3.3) | 14.6 | 8.0 |
| Amhara | 4.9 | 9.1 | 19.5 | 40.7 | 50.2 | 58.9 | 65.5 | 34.8 |
| Oromiya | 0.0 | 3.4 | 11.9 | 26.0 | 33.9 | (41.0) | 50.0 | 26.3 |
| Somali | (0.0) | (6.4) | (1.7) | 6.0 | 1.0 | 0.0 | 6.5 | 4.0 |
| Benishangul-Gumuz SNNP | 9.3 | 4.0 1.6 | 20.6 14.8 | 19.0 20.1 | 39.8 28.2 | 46.2 53.6 | 45.3 57.8 | 26.5 31.4 |
| Gambela | (6.1) 8.4 | 3.0 | 30.1 | 16.5 | 18.5 | (30.9) | 36.3 | 17.8 |
| Harari | (3.5) | 8.1 | 17.1 | 28.0 | (34.8) | (47.4) | 67.9 | 28.0 |
| Addis Ababa | 1.8 | 11.8 | 35.7 | 45.9 | (75.0) | * | * | 31.4 |
| Dire Dawa | (6.3) | 3.1 | 24.4 | 37.7 | 31.9 | 37.8 | 48.5 | 25.5 |
| Education | , , | | | | | | | |
| No education | 2.7 | 3.9 | 12.7 | 24.4 | 31.5 | 38.1 | 48.4 | 26.7 |
| Primary | 3.2 | 5.9 | 13.2 | 26.9 | 40.7 | 51.9 | 59.2 | 30.3 |
| Secondary | 3.6 | 3.9 | 42.3 | 48.8 | (54.1) | (58.4) | (74.5) | 36.4 |
| More than secondary | 4.4 | 6.7 | 26.1 | 48.9 | (57.3) | (90.5) | (29.2) | 25.7 |
| Wealth quintile | | | | | | | | |
| Lowest | 5.3 | 2.5 | 11.9 | 19.9 | 23.0 | 35.4 | 46.4 | 24.1 |
| Second | 2.0 | 3.3 | 11.4 | 22.3 | 33.9 | 44.8 | 58.1 | 27.5 |
| Middle | 1.7 | 3.1 | 11.8 | 28.9 | 41.4 | 43.8 | 54.8 | 30.9 |
| Fourth | 3.9 3.6 | 3.0 | 14.2 25.4 | 27.4 41.2 | 36.6 60.6 | 54.7 62.8 | 54.6 | 30.4 31.4 |
| Highest | | 10.4 | | | | | 60.8 | |
| Total 15-49 | 3.2 | 5.2 | 16.1 | 28.0 | 36.7 | 46.9 | 54.1 | 28.9 |
| 50-59 | * | * | 40.0 | 61.5 | 64.3 | 49.2 | 65.8 | 61.2 |
| Total 15-59 | 4.5 | 5.4 | 17.0 | 30.0 | 39.7 | 47.4 | 58.4 | 33.8 |

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

The number of living children includes one additional child if respondent's wife is pregnant (or if any wife is pregnant, for men with more than one current wife).

6.3 IDEAL NUMBER OF CHILDREN

This section discusses survey responses of women and men concerning their ideal number of children. Respondents who had no children were asked how many children they would like to have if they could choose the number of children to have over their entire lifetime. Those who had living children were asked the number of children they would choose if they could start their childbearing again. Responses to both questions provide an indication of future fertility, while responses to the latter question also contribute to a measure of unwanted fertility.

Table 6.3 shows the distribution of respondents by ideal number of children and the mean ideal number of children. In general, a large proportion of Ethiopians, regardless of their number of living children, consider four or more children to be ideal. The mean ideal number of children is 4.3 for all women and 4.9 for currently married women. Among all women, the mean ideal number of children increases with their number of living children, from 3.3 for women with no children to 6.2 for women with six or more children.

Ethiopian men, on average, prefer to have larger families than women consider ideal. Among all men, ideal family size is 4.8 children, and among married men, 5.9 children. Similarly, currently married men with six or more children want more children (8.6 children) than the number that married women want (6.2 children).

There has been a steady decline in women's ideal family size in Ethiopia in the last eleven years, from 5.3 children in 2000 to 4.5 children in 2005 and 4.3 children in 2011 (Figure 6.2). Similarly, ideal family size among men declined from 6.4 children in 2000 to 5.2 children in 2005 and 4.8 children in 2011.

Table 6.3 Ideal number of children

Percent distribution of women and men 15-49 by ideal number of children and mean ideal number of children for all respondents and for currently married respondents, according to the number of living children, Ethiopia 2011

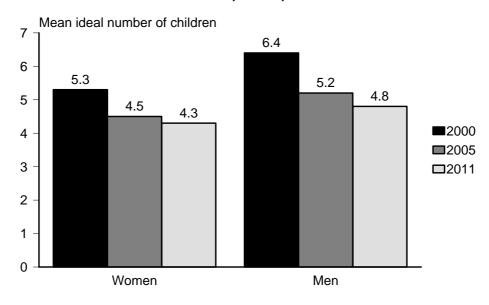
| | | | Numb | er of living o | children | | | |
|---|--|--|--|--|---|--|--|--|
| Ideal number of children | 0 | 1 | 2 | 3 | 4 | 5 | 6+ | Total |
| | | WOME | N ¹ | | | | | |
| 0 1 2 3 4 5 6+ Non-numeric responses | 7.6 1.7 25.8 13.1 33.4 6.6 7.6 4.2 | 3.7 1.8 13.6 15.2 38.3 8.6 12.5 6.4 | 6.7 0.4 8.2 5.1 43.2 9.1 18.3 9.0 | 8.5 0.4 3.2 5.2 31.1 13.1 26.4 12.2 | 8.8 0.4 3.3 2.2 26.4 7.5 36.7 14.7 | 9.2 0.1 2.4 2.4 19.4 9.4 42.0 | 10.8 0.2 1.2 2.2 14.3 5.2 42.2 24.0 | 7.8 0.9 12.2 8.1 30.4 7.9 22.0 10.6 |
| Total Weighted number of women Unweighted number of women | 100.0 5,488 5,532 | 100.0 1,959 2,191 | 100.0 2,074 2,120 | 100.0 1,750 1,702 | 100.0 1,494 1,486 | 100.0 1,301 1,281 | 100.0 2,449 2,203 | 100.0 16,515 16,515 |
| Mean ideal number of children for: ² All women Weighted number of women Unweighted number of women | 3.3 5,258 5,233 | 3.9 1,834 2,034 | 4.2 1,886 1,943 | 4.6 1,537 1,514 | 5.1 1,275 1,277 | 5.6 1,105 1,082 | 6.2 1,862 1,712 | 4.3 14,757 14,795 |
| Currently married women Weighted number of currently married women Unweighted number of currently married women | 3.9 760 816 | 3.9 1,390 1,532 | 4.3 1,591 1,618 | 4.7 1,342 1,299 | 5.2 1,115 1,110 | 5.5 982 954 | 6.2 1,714 1,563 | 4.9 8,894 8,892 |
| | | MEN ³ | | | | | | |
| 0 1 2 3 4 5 6+ Non-numeric responses | 2.4 1.0 26.0 19.6 30.1 7.0 10.1 3.8 | 1.4 0.7 13.0 16.5 39.8 8.4 16.1 4.1 | 2.3 0.6 6.3 9.7 37.0 10.4 25.9 | 1.6 0.4 3.4 9.2 26.5 16.5 35.8 6.5 | 1.1 0.2 4.2 3.1 24.2 10.4 48.5 8.2 | 1.8 0.0 3.0 2.7 16.2 11.7 54.0 | 2.5 0.0 2.2 2.4 13.8 5.0 62.9 | 2.1 0.7 15.5 13.4 28.3 8.5 25.4 6.0 |
| Total men Weighted number of men Unweighted number of men | 100.0 6,284 6,357 | 100.0 1,115 1,246 | 100.0 1,271 1,255 | 100.0 1,082 1,055 | 100.0 970 886 | 100.0 727 704 | 100.0 1,385 1,365 | 100.0 12,834 12,868 |
| Mean ideal number of children for: ² All men Weighted number of men Unweighted number of men Currently married men Weighted number of currently married men Unweighted number of currently married men | 3.6 6,047 6,047 3.8 535 538 | 4.1 1,069 1,183 4.2 984 1,063 | 4.8 1,171 1,166 4.8 1,127 1,095 | 5.5 1,012 970 5.6 987 937 | 6.3 890 793 6.3 857 767 | 7.1 650 608 7.1 639 594 | 8.6 1,230 1,173 8.6 1,220 1,158 | 4.8 12,068 11,940 5.9 6,350 6,152 |

¹ The number of living children includes current pregnancy for women.

² Means are calculated excluding respondents who gave non-numeric responses.

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

Figure 6.2 Trends in Mean Ideal Family Size Among All Women and Men, EDHS 2000, 2005, and 2011



6.4 Mean Ideal Number of Children by Women's Background Characteristics

There are significant variations in the mean ideal number of children by background characteristics among all women age 15-49 (Table 6.4). The older the respondent, the more children that she considers ideal; women age 15-19 respond that the ideal family size is 3.3 children, while women age 45-49 say it is 5.7. The ideal number of children among rural women is almost one child more than among urban women (4.5 versus 3.7 children). Among regions the range is from 3.3 children in Addis Ababa to 9.7 children in the Somali region.

The ideal number of children declines as women's level of education and wealth quintile increase. For example, the mean ideal number of children among women who have completed primary school is 3.8 children, compared with 5.0 children among women with no education. Similarly, women in the lowest wealth quintile consider 5.0 children to be ideal, compared with 3.7 children among women in the highest wealth quintile. These patterns are similar to those in the 2000 and 2005 EDHS.

Table 6.4 Mean ideal number of children by background characteristics

Mean ideal number of children for all women age 15-49 by background characteristics, Ethiopia 2011

| Background characteristic | Mean | Weighted number of women ¹ | Unweighted number of women ¹ |
|---------------------------|------|---|---|
| Age | | | |
| 15-19 | 3.3 | 3,829 | 3,615 |
| 20-24 | 3.9 | 2,716 | 2,806 |
| 25-29 | 4.3 | 2,852 | 2,896 |
| 30-34 | 5.0 | 1,811 | 1,834 |
| 35-39 | 5.3 | 1,588 | 1,643 |
| 40-44 | 5.5 | 1,012 | 1,093 |
| 45-49 | 5.7 | 948 | 908 |
| Residence | | | |
| Urban | 3.7 | 3,708 | 4,985 |
| Rural | 4.5 | 11,049 | 9,810 |
| Region | | | |
| Tigray | 4.8 | 973 | 1,519 |
| Affar | 7.4 | 127 | 1,118 |
| Amhara | 4.0 | 3,968 | 1,860 |
| Oromiya | 4.3 | 5,342 | 1,893 |
| Somali | 9.7 | 217 | 619 |
| Benishangul-Gumuz | 4.9 | 160 | 1,146 |
| SNNP | 4.4 | 2,932 | 1,834 |
| Gambela | 4.4 | 67 | 1,090 |
| Harari | 4.7 | 47 | 1,070 |
| Addis Ababa | 3.3 | 861 | 1,673 |
| Dire Dawa | 4.6 | 62 | 973 |
| Education | | | |
| No education | 5.0 | 7,067 | 6,960 |
| Primary | 3.8 | 5,866 | 5,507 |
| Secondary | 3.4 | 1,102 | 1,365 |
| More than secondary | 3.3 | 721 | 963 |
| Wealth quintile | | | |
| Lowest | 5.0 | 2,519 | 3,110 |
| Second | 4.6 | 2,622 | 2,089 |
| Middle | 4.5 | 2,704 | 2,023 |
| Fourth | 4.2 | 2,948 | 2,288 |
| Highest | 3.7 | 3,965 | 5,285 |
| Total | 4.3 | 14,757 | 14,795 |

¹ Number of women who gave a numeric response

6.5 FERTILITY PLANNING STATUS

The level of unwanted fertility among women age 15-49 can be assessed through a series of survey questions asked about each of the children born to them in the preceding five years (including current pregnancy). If the birth or pregnancy was wanted then, it is considered to be planned. It is considered to be mistimed if it was wanted but at a later time, and considered to be unwanted if it was not wanted at the time of conception. In the interpretation of these results, it is important to consider that a woman may declare a birth (or pregnancy) as wanted once the child is born even if that was not her feeling during pregnancy, and this rationalisation would result in an underestimation of the true extent of unwanted births. Nevertheless, these results provide some insight into the degree to which couples are able to control their fertility.

Table 6.5 shows the percent distribution of births (including current pregnancy), by fertility planning status, in the five years preceding the survey, according to birth order and mother's age at birth. Nearly three births of every four (72 percent) were wanted at the time, 20 percent were wanted but later, and 9 percent were unwanted. The proportion of births wanted at the time of conception generally declines with both increasing birth order and mother's age.

Table 6.5 Fertility planning status

Percent distribution of births to women age 15-49 in the five years preceding the survey (including current pregnancies), by planning status of the birth, according to birth order and mother's age at birth, Ethiopia 2011

| | | Planning st | atus of birth | 1 | | Weighted | Unweighted |
|---------------------------------------|-------------|--------------|----------------|---------|-------|------------------|------------------|
| Birth order and mother's age at birth | Wanted then | Wanted later | Wanted no more | Missing | Total | number of births | number of births |
| Birth order | | | | | | | |
| 1 | 77.5 | 18.6 | 3.5 | 0.3 | 100.0 | 2,462 | 2,516 |
| 2 | 73.5 | 23.6 | 2.8 | 0.1 | 100.0 | 2,230 | 2,266 |
| 3 | 73.2 | 22.2 | 4.6 | 0.0 | 100.0 | 1,844 | 1,858 |
| 4+ | 68.1 | 17.7 | 13.9 | 0.2 | 100.0 | 6,542 | 6,291 |
| Mother's age at birth | | | | | | | |
| <20 | 71.8 | 24.2 | 3.6 | 0.4 | 100.0 | 1,654 | 1,767 |
| 20-24 | 75.4 | 21.4 | 3.0 | 0.2 | 100.0 | 3,774 | 3,639 |
| 25-29 | 71.5 | 21.7 | 6.7 | 0.0 | 100.0 | 3,481 | 3,443 |
| 30-34 | 71.4 | 15.4 | 13.0 | 0.2 | 100.0 | 2,282 | 2,267 |
| 35-39 | 67.5 | 12.7 | 19.7 | 0.1 | 100.0 | 1,328 | 1,302 |
| 40-44 | 53.7 | 12.6 | 33.2 | 0.4 | 100.0 | 474 | 450 |
| 45-49 | 58.6 | 12.2 | 29.1 | 0.0 | 100.0 | 85 | 63 |
| Total | 71.5 | 19.5 | 8.8 | 0.2 | 100.0 | 13,078 | 12,931 |

Some changes in women's fertility planning status have occurred over the past decade. The percentage of births that were wanted at the time of conception increased from 63 percent in the 2000 EDHS to 65 percent in 2005 and to 72 percent in 2011. The percentage of births that were wanted later stayed more or less the same, at 19-20 percent, while the percentage of unwanted births decreased from 17 percent in 2000 to 16 percent in 2005 and 9 percent in the 2011 EDHS.

6.6 WANTED FERTILITY RATES

Table 6.6 compares wanted fertility with actual fertility for the three years preceding the survey, by selected background characteristics of women. The total wanted fertility rate (TWFR) is calculated in the same manner as the total fertility rate (TFR) but excludes unwanted births from the numerator. For this purpose unwanted births are defined as those that exceed the number considered ideal by the respondent. Women who do not report a numeric ideal family size are assumed to want all their births. The TWFR represents the level of fertility that would have prevailed in the three years preceding the survey if all unwanted births were prevented. A comparison of the TWFR with the TFR suggests the potential impact on fertility rates of avoiding unwanted births.

As measured in the 2011 EDHS, the TWFR is 3.0 children per woman, 1.8 fewer than the TFR of 4.8 children per woman, suggesting that Ethiopian women have not been very successful in achieving their reproductive intentions. The total wanted fertility rate has decreased by one child since the 2005 EDHS (4.0).

Urban women are relatively closer to achieving their wanted fertility than rural women. The difference between wanted and actual fertility is 0.8 children in urban areas and 2.1 children in rural areas. Among regions the gap between wanted fertility and actual fertility is highest in Somali (2.9) and lowest in Addis Ababa (0.2). The TWFR varies inversely with education and wealth, as does the TFR, declining as education and wealth increase. Also, the gap between wanted and actual fertility narrows as women's education and wealth increase.

Table 6.6 Wanted fertility rates

Total wanted fertility rates and total fertility rates for the three years preceding the survey, by background characteristics, Ethiopia 2011

| Deeleased | T-4-141 | T-4-1 f686. |
|---------------------------|--------------------------------|----------------------|
| Background characteristic | Total wanted fertility rate | Total fertility rate |
| Characteristic | lerully rate | Tale |
| Residence | | |
| Urban | 1.8 | 2.6 |
| Rural | 3.4 | 5.5 |
| Region | | |
| Tigray | 3.3 | 4.6 |
| Affar | 3.7 | 5.0 |
| Amhara | 2.7 | 4.2 |
| Oromiya | 3.3 | 5.6 |
| Somali | 4.2 | 7.1 |
| Benishangul-Gumuz | 3.8 | 5.2 |
| SNNP Gambela | 3.0 3.2 | 4.9 4.0 |
| Harari | 3.2 3.2 | 4.0 3.8 |
| Addis Ababa | 1.3 | 3.6 1.5 |
| Dire Dawa | 2.4 | 3.4 |
| | 2 | 0.1 |
| Education | | |
| No education | 3.7 | 5.8 |
| Primary | 2.8 1.8 | 4.6 |
| Secondary | 1.8 | 1.9 1.3 |
| More than secondary | 1.2 | 1.3 |
| Wealth quintile | | |
| Lowest | 3.7 | 6.0 |
| Second | 3.6 | 5.7 |
| Middle | 3.3 | 5.3 |
| Fourth | 3.1 | 5.0 |
| Highest | 1.9 | 2.8 |
| Total | 3.0 | 4.8 |

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

Key Findings

- Knowledge of contraception is nearly universal in Ethiopia.
- Three in every ten currently married women (29 percent) are using a method of contraception, mostly modern methods (27 percent).
- By far the most popular modern method, used by 21 percent of currently married women, is injectables.
- Use of modern methods among currently married women has increased from 6 percent in the 2000 EDHS to 27 percent in the 2011 EDHS—largely due to the sharp increase in the use of injectables, from 3 percent in 2000 to 21 percent in 2011.
- The government sector is the major provider of contraceptive methods, catering to more than eight in every ten users of modern contraceptive methods (82 percent).
- Twenty-five percent of currently married women have an unmet need for family planning services; 16 percent have a need for spacing, and 9 percent have a need for limiting.
- The 12-month contraceptive discontinuation rate for all methods is 37 percent. The highest discontinuation rate is for the pill (70 percent), followed by the male condom (62 percent).

ne of targets of the Ministry of Health, with respect to improving maternal and child health, is to increase the contraceptive prevalence rate (CPR) to 66 percent by 2015. In order to achieve this target, the Ministry has given priority to the provision of safe motherhood services such as family planning in the community (MOH, 2010).

This chapter presents information from the 2011 EDHS on contraceptive knowledge, attitudes, and behaviour. Information on women's and men's knowledge of family planning methods provides a measure of the level of awareness of contraception in the population and indicates the success of information, education, and communication programmes. In addition, knowledge of at least one family planning method and a positive attitude toward contraception are prerequisites for the use of contraception.

Although the focus here is on women, some results from the male survey are also presented because men play an important role in the realisation of reproductive goals. Comparisons are made, where feasible, with findings from previous EDHS surveys to evaluate trends in Ethiopia over the last decade.

7.1 KNOWLEDGE OF CONTRACEPTIVE METHODS

Knowledge of family planning is a prerequisite to obtaining access to and using a suitable contraceptive method in a timely and effective manner. Interviewers collected information regarding knowledge of contraceptive methods by describing each method and asking female and male respondents if she/he had heard of it. Using this approach, interviewers collected information about 11 modern family planning methods: female and male sterilisation, the pill, the IUD, injectables, implants, male and female condoms, lactational amenorrhea method, emergency contraception, and the standard days method. Two traditional methods were also included in the survey: periodic abstinence (or rhythm) and withdrawal. Interviewers recorded any other traditional methods that respondents mentioned spontaneously.

Table 7.1 shows the percentage of all respondents, currently married respondents, and sexually active unmarried respondents, age 15-49, who know any contraceptive method, by specific type. Knowledge of at least one method of contraception is nearly universal among both women and men in Ethiopia, regardless of marital status and sexual experience. Men and women are almost equally likely to have heard of a modern method (98 and 97 percent, respectively). Both women and men are more familiar with modern methods of contraceptive than with traditional methods. A higher proportion of men than women have heard of a traditional contraceptive method (64 and 50 percent, respectively). Unmarried sexually active women and men know of more methods than their married counterparts.

More than nine women in every ten have heard about the pill and injectables. More than nine men in every ten know about the male condom as well as about the pill and injectables. LAM is the least known modern method. Only 3 percent of all women and of all men interviewed have heard of this method.

Table 7.1 Knowledge of contraceptive methods

Percentage of all respondents, currently married respondents, and sexually active unmarried respondents age 15-49 who have heard of any contraceptive method, by specific method, Ethiopia 2011

| | | Women | | | Men | |
|---|---|---|---|---|---|---|
| Method | All women | Currently married women | Sexually active unmarried women ¹ | All men | Currently married men | Sexually active unmarried men ¹ |
| Any method | 97.2 | 97.6 | 99.8 | 98.4 | 99.2 | 99.9 |
| Any modern method | 97.1 | 97.4 | 99.7 | 98.4 | 99.1 | 99.9 |
| Female sterilisation Male sterilisation Pill IUD Injectables Implants Male condom Female condom Lactational amenorrhea (LAM) Emergency contraception Standard days method | 38.7 11.2 91.3 26.3 94.9 67.8 80.4 31.9 2.9 19.0 11.6 | 39.8 10.8 92.6 26.4 96.1 69.2 78.1 27.3 2.6 16.0 10.8 | 50.8 21.4 96.4 36.7 98.3 81.9 92.3 54.9 3.5 41.0 14.3 | 42.5 18.0 91.1 27.8 91.8 59.2 95.8 39.8 2.8 27.4 19.8 | 46.8 17.6 94.1 27.5 95.2 63.5 96.8 36.4 2.5 26.2 20.5 | 51.9 37.7 96.2 45.4 97.3 69.7 99.9 73.4 8.3 53.6 30.1 |
| Any traditional method Rhythm Withdrawal Other | 49.6 43.3 26.8 0.9 | 47.4 41.0 24.5 0.9 | 77.3 70.3 47.5 1.6 | 64.0 57.4 42.4 1.1 | 67.1 60.6 42.0 1.1 | 84.8 76.5 69.4 2.9 |
| Mean number of methods known by respondents age 15-49 Weighted number of respondents Unweighted number of respondents | 5.5 16,515 16,515 | 5.4 10,287 10,204 | 7.1 197 268 | 6.2 12,834 12,868 | 6.3 6,872 6,775 | 8.1 222 366 |
| Mean number of methods known by respondents 15-59 Weighted number of respondents Unweighted number of respondents | na na na | na na na | na na na | 6.1 14,110 14,110 | 6.2 8,089 7,930 | 8.1 224 373 |

na = Not applicable

¹ Had last sexual intercourse within the 30 days preceding the survey

7.2 CURRENT USE OF CONTRACEPTIVE METHODS

Current use of contraceptive methods is one of the indicators most frequently used to assess the success of family planning programmes. This section focuses on the levels, trends, and differentials in current use of family planning.

7.2.1 Current Use of Contraceptive Methods By Age

Table 7.2 presents current use of contraceptive methods among all women, currently married women, and sexually active unmarried women, by age group. The contraceptive prevalence rate for all Ethiopian women age 15-49 is 20 percent. The contraceptive prevalence rate is 29 percent for currently married women, and 57 percent for sexually active unmarried women.

Modern methods of contraception are more commonly used by the interviewed women. Table 7.2 shows that 29 percent of currently married women report use of a contraceptive method, with 27 percent using a modern method. The same pattern is observed among all women and unmarried sexually active women. The most common modern method used by each group of women is injectables, currently used by 14 percent of all women, 21 percent of currently married women, and 32 percent of unmarried sexually active women.

Current contraceptive use is lower among young women and among older women (some of whom are no longer fecund) than among those at the intermediate age groups. For example, 5 percent of all women age 15-19 report current use of any contraceptive method. This proportion increases until it peaks at 29 percent in the 30-34 age group, after which it decreases steadily to 11 percent among women age 45-49. A similar pattern is observed among currently married women.

Table 7.2 Current use of contraception by age

Percent distribution of all women, currently married women, and sexually active unmarried women age 15-49 by contraceptive method currently used, according to age, Ethiopia 2011

| | | Anv | | | M | lodern method | 77 | | | Anv | Trac | Traditional method | pc | †oN | | Weighted | Unweighted |
|----------------|---------------|------------------|-------------------------|----------|------|---------------|------------|-------------------------|----------|--|------------|--------------------|-------|-----------------|-------|--------------------|--------------------|
| Age | Any method | modern method | Female sterilisation | ≣ | an a | Injectables | Implants | Male condom | Other | traditional method | Rhythm \ | Withdrawal | Other | currently using | Total | number of women | number of women |
| | | | | | | | | ALL | WOMEN | | | | | | | | |
| 15-19 | 5.3 | 5.2 | 0.0 | 9.0 | 0.0 | 4.1 | 0.4 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 94.7 | 100.0 | 4,009 | 3,835 |
| 20-24 | 23.3 | 22.2 | 0.1 | 4.1 | 0.1 | 18.5 | 8. | 0.3 | 0.0 | | 6.0 | 0.2 | 0.0 | 7.97 | 100.0 | 2,931 | 3,022 |
| 25-29 | 26.5 | 25.6 | 0.2 | 2.1 | 0.4 | 18.9 | 3.5 | 0.5 | 0.0 | 6.0 | 0.7 | 0.2 | 0.0 | 73.5 | 100.0 | 3,147 | 3,185 |
| 30-34 | 29.3 | 27.7 | 0.1 | 2.3 | 0.2 | 21.2 | 3.4 | 0.5 | 0.0 | 1.7 | 1.3 | 0.1 | 0.2 | 7.07 | 100.0 | 2,054 | 2,100 |
| 35-39 | 26.7 | 25.8 | 1.0 | 6.1 | 0.7 | 18.3 | 3.7 | 0.2 | 0.0 | 1.0 | 0.8 | 0.1 | 0.1 | 73.3 | 100.0 | 1,916 | 1,958 |
| 40-44 45-49 | 20.3 | 8. 0 8. 4 | د. ر د. 0 | 0.50 | 4.0 | 11.2 | 8. t | 0.3 | 0.0 | 7.5 5.5 | 9.0 | 8. C | 0.0 | 79.7 | 100.0 | 1,261 | 1,314 |
| Total | 19.6 | 18.7 | 0.4 | 1.5 | 0.2 | 14.0 | 2.3 | 0.3 | 0.0 | 6.0 | 0.7 | 0.2 | 0.0 | 80.4 | 100.0 | 16,515 | 16,515 |
| | | | | | | | COL | CURRENTLY MARRIED WOMEN | MARRIED | WOMEN | | | | | | | |
| 15-19 | 23.8 | 23.0 | 0.0 | 2.5 | 0.0 | 18.9 | 1.6 | 0.0 | 0.0 | 0.8 | 0.8 | 0.0 | 0.0 | 76.2 | 100.0 | 765 | 784 |
| 20-24 | 34.8 | 33.4 | 0.0 | 1.9 | 0.1 | 28.5 | 2.9 | 0.0 | 0.0 | 4.1 | 1. | 0.3 | 0.0 | 65.2 | 100.0 | 1,762 | 1,788 |
| 25-29 | 29.9 | 28.9 | 0.1 | 2.2 | 0.5 | 21.7 | 4.2 | 0.2 | 0.0 | 1.1 | 8.0 | 0.3 | 0.0 | 70.1 | 100.0 | 2,511 | 2,480 |
| 30-34 | 33.1 | 31.2 | 0.1 | 2.7 | 0.5 | 23.9 | 8.8 | 0.5 | 0.0 | e: . | 7.5 5.6 | 0.5 | 0.3 | 6.99 | 100.0 | 1,720 | 1,722 |
| 35-39 | 29.1 | 28.0 | . : | 2.2 | 0.8 | 19.7 | 4.1 | 0.1 | 0.0 | - . | 0.0 | 0.1 | 0.0 | 70.9 | 100.0 | 1,591 | 1,600 |
| 40-44 | 23.9 | 22.1 12.5 | 9. 6 | 2.3 | 0.5 | 13.5 | 9.6 9.0 | 4.0 | 0.0 | <u>د</u> و من ه | ی ۳ د | 0.0 | 0.0 | 76.1 | 100.0 | 1,033 905 | 1,047 |
|) | - 1 | 5.7 | <u>:</u> ; | 5 (| - 1 | 3:5 | 5.4 | 9 (| 2 (| 9 (| 5 (| 2.0 |) · | 9 1 | 0. 1 | | |
| Total | 28.6 | 27.3 | 0.5 | 2.1 | 0.3 | 20.8 | 3.4 | 0.2 | 0.0 | . . | 6.0 | 0.3 | 0.1 | 71.4 | 100.0 | 10,287 | 10,204 |
| | | | | | | | SEXUAL | LY ACTIVE | : UNMARR | SEXUALLY ACTIVE UNMARRIED WOMEN ¹ | <u>_</u> | | | | | | |
| 15-19 | 52.0 | 52.0 | 0.0 | 1.0 | 0.0 | 32.5 | 6.7 | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 48.0 | 100.0 | 34 | 62 |
| 20-24 | 64.9 | 55.7 | 3.7 | 6.7 | 9.0 | 32.1 | 6.0 | 11.0 | 8.0 | 9.3 | 9.3 | 0.0 | 0.0 | 35.1 | 100.0 | 67 | 87 |
| 25-29 30-34 | 57.5 | 57.4 | 0.0 | 7.3 * | 0.0 | 31.2 * | 1.7 | 17.0 | 0.5 | 0.1 | 0.1 | 0.0 | 0.0 | 42.5 | 100.0 | ξ ξ | 62 |
| 35-39 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 100.0 | 52 52 | 24 |
| 40-44 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 100.0 | 7 | 2 |
| 45-49 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 100.0 | 7 | 7 |
| Total | 26.7 | 52.3 | 1.3 | 5.4 | 0.2 | 32.0 | 2.4 | 10.8 | 0.3 | 4.4 | 3.7 | 0.5 | 0.2 | 43.3 | 100.0 | 197 | 268 |

Note: If more than one method is used, only the most effective method is considered in this tabulation. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Women who have had sexual intercourse within the 30 days preceding the survey

7.2.2 Trends in Contraceptive Use

Figure 7.1 shows trends in contraceptive use since the 2000 Ethiopia DHS. Use of any contraceptive methods among currently married women has increased nearly six fold in the last 20 years, from 5 percent in the 1990 NFFS to 29 percent in the 2011 EDHS. The increase is especially pronounced for the use of modern methods between 2000 and 2011. The increase in modern method use is attributed primarily to the sharp increase in the use of injectables, from 3 percent in 2000 to 21 percent in 2011.

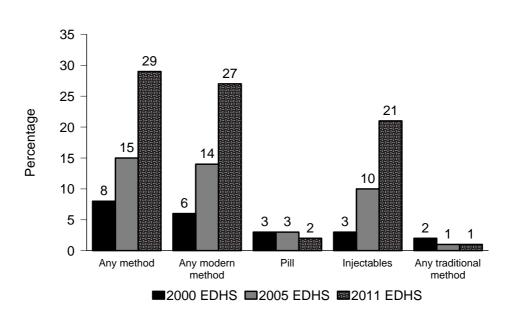


Figure 7.1 Trends in Current Use of Contraceptives Among Currently Married Women, 2000-2011

7.3 CURRENT USE OF CONTRACEPTION BY BACKGROUND CHARACTERISTICS

Table 7.3 shows a substantial variation according to background characteristics in the current use of contraceptive methods among currently married women. Currently married women in urban areas are twice as likely as their rural counterparts to use any contraceptive method (53 and 23 percent, respectively), to use any modern method (50 and 23 percent, respectively), and to use any traditional method (3 and 1 percent, respectively).

Use of any contraceptive method varies notably by region, ranging from 63 percent in Addis Ababa to 4 percent in the Somali region. Use of any modern contraceptive methods is highest in Addis Ababa (56 percent) and lowest in the Somali and Affar regions (4 and 9 percent, respectively).

Current contraceptive use increases with women's education. Twenty-two percent of women with no education report current use of any method, compared with 68 percent of women with more than secondary education. Similarly, current use of any contraceptive method increases with wealth, from 13 percent of women in the lowest quintile to 52 percent of women in the highest quintile.

Percent distribution of currently married women age 15-49 by contraceptive method currently used, according to background characteristics, Ethiopia 2011 Table 7.3 Current use of contraception by background characteristics

| | | Anv | | | Modern | Modern method | | | Anv | Trac | Traditional method | pc | Not | | Weighted | Unweighted |
|--|--|--|---|---|---|--|--------------------------------------|---|--|---|--|---|--|--|---|---|
| Background characteristic | Any method | modern method | Female sterilisation | Pill | IUD | Injectables | Implants | Male condom | traditional method | Rhythm | Withdrawal | Other | currently using | Total | number of women | number of women |
| Number of living children 0 1-2 3-4 5-4 | 23.4 35.3 29.7 | 21.1 33.9 28.4 | 0.0 0.3 7 | 3.0 2.2 2.2 | 0.00 4.00 6.00 | 16.9 27.2 20.8 15.6 | 0.6.4.4 0.0.1.4 | 0 6.6.0 6.6.0 | 2, c 4 & 4 & | 2.0 0.0 8.0 8.0 | 0.000 1.440 | 0.000 | 76.6 64.7 70.3 | 100.0 100.0 100.0 | 1,018 3,193 2,809 | 1,104 3,381 2,718 |
| Residence Urban Rural | 52.5 23.4 | 49.5 22.5 | 1.5 0.2 | 6.7 | 0.0 | 35.4 | . 8.8 3.3 | 0.0 | 3.0 0.0 0.0 | 2. 2. 0.6 0.6 | 0.6 0.2 | 0.0 | 47.5 | 100.0 | 1,843 8,444 | 2,422 |
| Region Tigray Affar Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela | 22.2 9.55.2 26.2 27.0 27.0 33.8 33.8 34.8 | 21.2 33.0 24.9 33.0 33.8 24.3 34.7 25.3 | 000000000 0000000000000000000000000000 | 2.1.1.2.0.2.1.4.2.6.2.2.4.4.7.4.4.7.4.7.4.7.4.7.4.7.4.7.4.7 | 0.0000000000000000000000000000000000000 | 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5 | 0.04 0.0 + 0.0 0 0.0 4 0 0 0 4 0 | 000000000 0000000000000000000000000000 | -00-00-00 -00-00-00 -00-00-00-00 | 0.000 1.000 0.000 | 00000000000000000000000000000000000000 | 0.0000000000000000000000000000000000000 | 77.8 90.5 66.1 73.0 74.2 66.2 | 0000 0000 0000 0000 0000 0000 0000 | 2,776 3,961 2,32 2,32 2,022 2,022 2,022 | 984 1,331 1,403 664 1,295 768 635 |
| Addis Ababa Dire Dawa | 62.5 33.9 | 56.3 31.7 | 0.23 | 10.9 | 1.1 | 35.8 15.3 | 8.28 | 2.0 | 2.2 | 2.0 | 0.0 | 0.0 | 37.5 66.1 | 100.0 | 342 38 | 634 626 |
| Education No education Primary Secondary More than secondary | 22.2 35.7 57.6 67.8 | 21.8 33.7 53.4 57.2 | 0.0 4.0 6.0 6.0 | 0.9 2.8 9.1 12.7 | 0.1 0.6 0.7 1.9 | 16.9 26.5 36.0 34.2 | 6.6.7.4. 4.5.1.4. | 0.0 0.1 2.0 | 0.2 4.0 10.6 | 0.4.6.8 0.3 4.0.0 | 0.0 0.0 0.0 | 0.0 0.0 0.2 | 77.8 64.3 42.4 32.2 | 100.0 100.0 100.0 | 6,735 2,862 378 313 | 6,569 2,739 528 368 |
| Wealth quintile Lowest Second Middle Fourth Highest | 13.3 22.2 24.4 31.7 51.8 | 13.0 21.5 24.0 30.3 48.2 | 0.0000 1.00000 | 0.6 0.6 4.1 7.5 7.6 | 0.2 0.3 0.0 0.0 | 10.6 16.3 18.8 34.9 | <u>-</u> დ დ დ 4 ფ ფ 라 ფ <i>ძ</i> | 0.0000 | 0.0 7.0 3.6 3.6 | 0.3 0.2 1.0 2.6 | 0.00 0.00 0.00 0.00 | 0.0 0.0 0.0 | 86.7 77.8 75.6 68.3 48.2 | 100.0 100.0 100.0 100.0 | 2,077 2,117 2,083 1,923 2,087 | 2,724 1,676 1,585 1,590 2,629 |
| Total | 28.6 | 27.3 | 0.5 | 2.1 | 0.3 | 20.8 | 3.4 | 0.2 | 1.3 | 6.0 | 0.3 | 0.1 | 71.4 | 100.0 | 10,287 | 10,204 |

7.4 Source of Modern Contraceptive Methods

Information on where women obtain their contraceptive methods is important for family planning programme managers and implementers. Interviewers asked women who reported using a modern method of contraception at the time of the survey where they had obtained the method. The results are shown in Table 7.4.

Table 7.4 Source of modern contraception methods

Percent distribution of users of modern contraceptive methods age 15-49 by most recent source of method, according to method, Ethiopia 2011

| Carriera | Dill | la: a stable a | lanala ata | Male | Tatal |
|------------------------------------|-------|----------------|------------|--------|-------|
| Source | Pill | Injectables | Implants | condom | Total |
| Public sector | 67.2 | 85.6 | 92.3 | 11.7 | 82.0 |
| Government hospital | 4.6 | 1.8 | 3.7 | 1.8 | 2.3 |
| Government health centre | 39.4 | 48.0 | 59.4 | 7.9 | 47.3 |
| Government health station/clinic | 4.3 | 5.1 | 4.3 | 0.6 | 4.7 |
| Government health post/HEW | 18.9 | 30.5 | 22.4 | 1.4 | 27.3 |
| Other public | 0.0 | 0.1 | 2.6 | 0.0 | 0.4 |
| Private medical sector | 30.2 | 13.1 | 3.5 | 29.6 | 13.4 |
| Private hospital | 0.2 | 0.5 | 1.0 | 0.0 | 0.6 |
| Private clinic | 11.8 | 10.7 | 0.8 | 2.3 | 9.2 |
| Pharmacy | 13.9 | 0.4 | 0.0 | 27.3 | 1.8 |
| NGO health facility | 4.2 | 1.2 | 1.7 | 0.0 | 1.6 |
| Voluntary community health workers | 0.0 | 0.3 | 0.0 | 0.0 | 0.2 |
| Other source | 2.4 | 0.3 | 0.1 | 57.8 | 1.3 |
| Drug vendor/store | 1.8 | 0.2 | 0.0 | 5.7 | 0.3 |
| Shop | 0.6 | 0.1 | 0.0 | 51.4 | 0.9 |
| Friend/relative | 0.1 | 0.0 | 0.1 | 0.7 | 0.0 |
| Other | 0.0 | 0.2 | 0.0 | 0.9 | 0.1 |
| Missing | 0.2 | 8.0 | 4.0 | 0.0 | 3.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Weighted number of women | 245 | 2,317 | 381 | 48 | 3,086 |
| Unweighted number of women | 301 | 1,962 | 326 | 107 | 2,794 |

Note: Total includes other modern methods but excludes lactational amenorrhea method (LAM) and standard days method.

HEW = Health Extension Worker

Table 7.4 shows that the public sector is the major source of modern contraceptive methods in Ethiopia, serving 82 percent of users. By comparison, 13 percent of current users reported that their modern method of contraceptive was obtained from the private sector. Forty-seven percent of users obtained contraceptive methods from a government health centre, and 27 percent, from a government health post or Health Extension Worker (HEW).

7.5 INFORMED CHOICE

Informed choice is an important principle in the delivery of family planning services. As an aspect of informed choice, it is required that all family planning providers inform users about potential side effects of the method and what they should do if they encounter such side effects. This information assists the user in coping with side effects and thus decreases discontinuation of temporary methods. Contraceptive users should also be informed of the other methods available to them. Table 7.5 shows the percentage of current users of modern methods who reported that they were informed about side effects or problems of the method used and who reported that they were informed of other methods. These are broken down by method type, initial source, and background characteristics.

Overall, 28 percent of current users of the pill, IUD, injectables, or implants were informed about potential side effects of their method, 24 percent were told what to do if they experienced side effects, and 37 percent were given information about other methods.

Table 7.5 Informed choice

Among current users of selected modern methods age 15-49 who started the last episode of use within the five years preceding the survey, the percentage who were informed about possible side effects or problems of that method, the percentage who were informed about what to do if they experienced side effects, and the percentage who were informed about other methods they could use, by method and initial source, Ethiopia 2011

| | modern contra | nen who started la aceptive method w receding the surve | rithin five years | | |
|----------------------------------|---|---|--|--------------------------------|----------------------------------|
| Method/source | Percentage who were informed about side effects or problems of method used | Percentage who were informed about what to do if side effects occur | Percentage who were informed by a health or family planning worker of other methods that could be used | Weighted number of women | Unweighted number of women |
| Method | | | | | _ |
| Pill | 35.3 | 28.9 | 48.4 | 223 | 276 |
| IUD | (65.7) | (56.8) | (46.0) | 31 | 42 |
| Injectables | 23.9 | 19.8 | 34.1 | 2,127 | 1,786 |
| Implants | 44.4 | 44.6 | 48.1 | 365 | 315 |
| Initial source of method1 | | | | | |
| Public sector | 27.6 | 24.1 | 37.4 | 2,397 | 1,957 |
| Government hospital | 41.6 | 47.7 | 49.5 | 73 | 164 |
| Government health centre | 29.2 | 24.5 | 38.8 | 1,438 | 1,194 |
| Government health station/clinic | 33.4 | 28.0 | 30.8 | 154 | 120 |
| Government health post/hew | 22.2 | 20.3 | 35.4 | 722 | 477 |
| Private medical sector | 32.6 | 26.8 | 36.6 | 321 | 436 |
| Private clinic | 28.4 | 22.8 | 29.7 | 214 | 245 |
| Pharmacy | 14.8 | 22.2 | 20.6 | 38 | 62 |
| NGO health facility | 57.6 | 44.0 | 70.0 | 43 | 100 |
| Total | 28.1 | 24.4 | 37.1 | 2,769 | 2,438 |

Note: Table includes users of only the methods listed individually. Figures in parentheses are based on 25-49 unweighted cases.

¹ Source at start of current episode of use

7.6 Knowledge of the Fertile Period

A basic knowledge of the physiology of reproduction is especially useful for the successful practice of coitus-related method such as periodic abstinence. The successful use of such methods depends in a large part on understanding when during the ovulatory cycle a woman is most likely to conceive. All women in the survey were asked about their knowledge of women's fertile period. Specifically, they were asked whether there are certain days between two menstrual periods when a woman is more likely to become pregnant if she has sexual intercourse. Those who answered in the affirmative were further asked if this time is just before the period begins, during the period, right after the period ends, or half way between the two periods.

Results are shown in Table 7.6. Overall, only 18 percent of all women interviewed reported the correct timing of the fertile period, that is, halfway between the two menstrual periods. The percentage of women with knowledge of the correct timing of the fertile period has increased from 11 percent in the 2005 EDHS to 18 percent in 2011. To use the rhythm method

<u>Table 7.6 Knowledge of fertile period</u>

Percent distribution of women age 15-49 by knowledge of the fertile period during the ovulatory cycle, according to current use of the rhythm method, Ethiopia 2011

| Perceived fertile period | Users of rhythm method | Nonusers of rhythm method | All women |
|--|------------------------------|---------------------------------|-----------|
| Just before her menstrual period begins | 4.3 | 4.2 | 4.2 |
| During her menstrual period | 1.3 | 3.6 | 3.6 |
| Right after her menstrual period has ended | 25.6 | 27.0 | 27.0 |
| Halfway between two menstrual periods | 65.1 | 17.5 | 17.8 |
| Other | 0.0 | 0.1 | 0.1 |
| No specific time | 0.7 | 20.9 | 20.7 |
| Don't know | 3.0 | 26.6 | 26.5 |
| Total | 100.0 | 100.0 | 100.0 |
| Weighted number of women | 107 | 16,408 | 16,515 |
| Unweighted number of women | 129 | 16,386 | 16,515 |

effectively, correct knowledge of the fertile period is critical. Of those who use the rhythm method, 65 percent reported the correct timing of the fertile period. This proportion is only slightly higher than that reported in the 2005 EDHS (62 percent).

7.7 NEED AND DEMAND FOR FAMILY PLANNING

Women who say they are not using contraception and who say either that they do not want any more children or that they want to wait two or more years before having another child are considered to have an unmet need for family planning. Conversely, women using a family planning method are said to have a met need for family planning. Both unmet need and met need can be categorized as such based on whether the need is for spacing or limiting births. The combination of women with unmet need and women with met need for family planning constitutes the total demand for family planning.

Table 7.7 presents estimates for unmet need, met need, and total demand for family planning among currently married Ethiopian women, by background characteristics. Twenty-five percent of currently married women have an unmet need for family planning—16 percent for spacing and 9 percent for limiting. Almost one in every three Ethiopian women (29 percent) has a met need for family planning—16 percent for spacing and 12 percent for limiting. The total demand for family planning among currently married women is 54 percent, A little more than half (53 percent) of this demand is satisfied. Of the total demand for family planning, the demand for spacing is one and a half times as great as the demand for limiting (33 and 21 percent, respectively).

Table 7.7 Need and demand for family planning among currently married women

Percentage of currently married women age 15-49 with unmet need for family planning, percentage with met need for family planning, the total demand for family planning, and the percentage of the demand for contraception that is satisfied, by background characteristics, Ethiopia 2011

| | | need for planning | family | Met r planning | need for fa (currently | mily using) ² | | emand for planning | r family | Percentage | Percentage of demand satisfied by | Weighted | Un- weighted |
|---------------------------|-------------|----------------------|--------|-------------------|---------------------------|-----------------------------|-------------|-----------------------|----------|------------------------|---|----------|--------------------|
| Background characteristic | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total | of demand satisfied | modern methods | | number of women |
| Age | | | | | | | | | | | | | |
| 15-19 | 30.3 | 2.4 | 32.8 | 22.5 | 1.2 | 23.8 | 52.9 | 3.6 | 56.5 | 42.0 | 40.6 | 765 | 784 |
| 20-24 | 20.3 | 1.5 | 21.8 | 29.6 | 5.3 | 34.8 | 49.8 | 6.8 | 56.6 | 61.6 | 59.0 | 1,762 | 1,788 |
| 25-29 | 21.5 | 5.1 | 26.6 | 20.6 | 9.3 | 29.9 | 42.1 | 14.4 | 56.5 | 53.0 | 51.1 | 2,511 | 2,480 |
| 30-34 | 15.8 | 9.8 | 25.6 | 16.1 | 16.9 | 33.1 | 31.9 | 26.8 | 58.7 | 56.4 | 53.1 | 1,720 | 1,722 |
| 35-39 | 11.6 | 15.8 | 27.4 | 9.3 | 19.8 | 29.1 | 20.9 | 35.6 | 56.4 | 51.5 | 49.6 | 1,591 | 1,600 |
| 40-44 | 7.8 | 19.9 | 27.7 | 3.5 | 20.5 | 23.9 | 11.2 | 40.4 | 51.6 | 46.4 | 42.9 | 1,033 | 1,047 |
| 45-49 | 1.5 | 13.7 | 15.2 | 1.4 | 11.7 | 13.1 | 3.0 | 25.3 | 28.3 | 46.3 | 44.3 | 905 | 783 |
| Residence | | | | | | | | | | | | | |
| Urban | 8.1 | 6.9 | 15.0 | 31.3 | 21.2 | 52.5 | 39.4 | 28.1 | 67.5 | 77.8 | 73.3 | 1,843 | 2,422 |
| Rural | 18.1 | 9.4 | 27.5 | 13.1 | 10.3 | 23.4 | 31.2 | 19.7 | 50.9 | 46.0 | 44.2 | 8,444 | 7,782 |
| Region | | | | | | | | | | | | | |
| Tigray | 15.0 | 7.0 | 22.0 | 15.1 | 7.1 | 22.2 | 30.1 | 14.1 | 44.2 | 50.3 | 48.0 | 620 | 984 |
| Affar | 12.4 | 3.7 | 16.0 | 6.9 | 2.6 | 9.5 | 19.2 | 6.3 | 25.5 | 37.2 | 35.5 | 104 | 960 |
| Amhara | 12.4 | 9.7 | 22.1 | 19.4 | 14.5 | 33.9 | 31.8 | 24.2 | 56.0 | 60.6 | 58.9 | 2,776 | 1,331 |
| Oromiya | 20.7 | 9.2 | 29.9 | 15.2 | 11.0 | 26.2 | 35.9 | 20.2 | 56.1 | 46.7 | 44.4 | 3,961 | 1,403 |
| Somali | 20.9 | 3.1 | 24.0 | 3.3 | 1.0 | 4.3 | 24.2 | 4.1 | 28.3 | 15.3 | 13.5 | 232 | 664 |
| Benishangul- | | | | | | | | | | | | | |
| Gumuz | 15.3 | 9.2 | 24.5 | 16.3 | 10.7 | 27.0 | 31.6 | 19.9 | 51.5 | 52.5 | 51.1 | 124 | 904 |
| SNNP | 15.2 | 9.8 | 25.0 | 12.7 | 13.1 | 25.8 | 27.9 | 22.9 | 50.8 | 50.9 | 48.6 | 2,022 | 1,295 |
| Gambela | 12.9 | 5.8 | 18.8 | 21.4 | 12.3 | 33.8 | 34.4 | 18.2 | 52.6 | 64.3 | 63.1 | 41 | 768 |
| Harari | 14.8 | 9.3 | 24.1 | 20.4 | 14.3 | 34.7 | 35.2 | 23.6 | 58.8 | 59.0 | 53.5 | 28 | 635 |
| Addis Ababa | 5.3 | 5.3 | 10.6 | 39.8 | 22.7 | 62.5 | 45.1 | 28.0 | 73.1 | 85.5 | 77.1 | 342 | 634 |
| Dire Dawa | 16.4 | 5.0 | 21.3 | 21.0 | 12.9 | 33.9 | 37.3 | 17.9 | 55.2 | 61.4 | 57.4 | 38 | 626 |
| Education | 400 | | | | | | | | | 4= 0 | 4= 0 | | |
| No education | 16.3 | 10.0 | 26.3 | 10.8 | 11.4 | 22.2 | 27.1 | 21.4 | 48.4 | 45.8 | 45.0 | 6,735 | 6,569 |
| Primary | 18.5 | 8.2 | 26.7 | 22.3 | 13.4 | 35.7 | 40.8 | 21.5 | 62.3 | 57.2 | 54.1 | 2,862 | 2,739 |
| Secondary More than | 9.7 | 3.0 | 12.7 | 42.0 | 15.6 | 57.6 | 51.7 | 18.5 | 70.2 | 82.0 | 76.1 | 378 | 528 |
| secondary | 5.5 | 1.5 | 7.0 | 51.0 | 16.8 | 67.8 | 56.5 | 18.3 | 74.8 | 90.6 | 76.5 | 313 | 368 |
| Wealth guintile | | | | | | | | | | | | | |
| Lowest | 19.6 | 10.9 | 30.5 | 7.2 | 6.1 | 13.3 | 26.8 | 17.0 | 43.8 | 30.4 | 29.6 | 2,077 | 2,724 |
| Second | 17.6 | 8.9 | 26.5 | 10.9 | 11.2 | 22.2 | 28.5 | 20.2 | 48.7 | 45.5 | 44.2 | 2,117 | 1,676 |
| Middle | 17.8 | 10.3 | 28.1 | 13.0 | 11.3 | 24.4 | 30.8 | 21.6 | 52.4 | 46.4 | 45.8 | 2.083 | 1,585 |
| Fourth | 18.5 | 8.3 | 26.8 | 18.3 | 13.5 | 31.7 | 36.8 | 21.7 | 58.5 | 54.2 | 51.7 | 1,923 | 1.590 |
| Highest | 8.3 | 6.4 | 14.7 | 32.5 | 19.2 | 51.8 | 40.9 | 25.6 | 66.5 | 77.9 | 72.5 | 2,087 | 2,629 |
| Total | 16.3 | 9.0 | 25.3 | 16.4 | 12.2 | 28.6 | 32.7 | 21.2 | 53.9 | 53.1 | 50.7 | 10,287 | 10,204 |

¹ Unmet need for spacing: Includes women who are fecund and not using family planning and who say they want to wait two or more years for their next birth, or who say they are unsure whether they want another child, or who want another child but are unsure when to have the child. In addition, unmet need for spacing includes pregnant women whose current pregnancy was mistimed, or whose last pregnancy was unwanted but who now say they want more children. Unmet need for spacing also includes amenorrheic women whose last birth was mistimed, or whose last birth was unwanted but who now say they want more children.

Unmet need for limiting: Includes women who are fecund and not using family planning and who say they do not want another child. In addition,

Unmet need for limiting: Includes women who are fecund and not using family planning and who say they do not want another child. In addition, unmet need for limiting includes pregnant women whose current pregnancy was unwanted but who now say they do not want more children or who are undecided whether they want another child. Unmet need for limiting also includes amenorrheic women whose last birth was unwanted but who now say they do not want more children or who are undecided whether they want another child.

now say they do not want more children or who are undecided whether they want another child.

2 Using for spacing is defined as women who are using some method of family planning and say they want to have another child or are undecided whether to have another. Using for limiting is defined as women who are using and who want no more children. Note that the specific methods used are not taken into account here.

The total unmet need for family planning does not vary much by women's 5-year age groups from ages 15 to 44. However, the proportion of women with unmet need is lowest (15 percent) for those in the oldest age group. When unmet need is categorized by unmet need for spacing or limiting, an interesting age pattern is presented. Women younger than 35 years have a higher unmet need for spacing, while older women age 35 or older have a higher unmet need for limiting. Unmet need is almost twice as high among rural women as among urban women (28 percent versus 15 percent). Women with no education (16 percent) or primary education (19 percent) are much more likely to have an unmet need for spacing than those with secondary or higher education (10 and 6 percent, respectively). Unmet need is lowest among women in the wealthiest households.

The share of unmet need for spacing is much higher than the one for limiting in all regions except in Addis Ababa, where they are the same. The unmet need for contraception is highest in the Oromiya region (30 percent) and lowest in Addis Ababa (11 percent).

7.8 FUTURE USE OF CONTRACEPTION

Future demand for specific methods of family planning can be assessed by asking nonusers who intend to use contraception in the future which methods they prefer to use. Table 7.8 presents the results.

More than half (56 percent) of currently married female nonusers intend to use family planning in the future, while 41 percent do not. The proportion of women intending to use contraception increases from 52 percent for those with no child to peak at 65 percent for those with one child and declines subsequently to 50 percent for those with four or more children. The data reflect a gradual increase in the percentage of currently married female nonusers who intend to use family planning in the future, from 46 percent in 2000 to 52 percent in 2005 and now to 56 percent in 2011.

| Percent distribution of currently mintention to use in the future, acco | | | | | ontraceptive | method |
|---|-------|-------|-----------------|----------------------|--------------|--------|
| | | Numbe | er of living ch | nildren ¹ | | |
| Intention to use in the future | 0 | 1 | 2 | 3 | 4+ | Total |
| Intends to use | 51.8 | 65.2 | 62.6 | 60.2 | 50.2 | 55.7 |
| Unsure | 2.8 | 1.9 | 4.4 | 3.0 | 2.8 | 3.0 |
| Does not intend to use | 45.3 | 32.8 | 32.5 | 36.5 | 46.8 | 41.1 |
| Missing | 0.0 | 0.2 | 0.4 | 0.3 | 0.3 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Weighted number of women | 568 | 978 | 1,131 | 1,066 | 3,601 | 7,344 |
| Unweighted number of women | 641 | 1,092 | 1,191 | 1,078 | 3,587 | 7,589 |

7.9 EXPOSURE TO FAMILY PLANNING MESSAGES

The mass media and interpersonal communication can be major sources of family planning messages. Information about public exposure to messages through a particular medium allows policymakers to ensure the use of the most effective means of communication for various target groups in the population. To assess the effectiveness of the dissemination of family planning information through different media, interviewers asked respondents in the 2011 EDHS whether they had been exposed to any family planning messages in the past few months preceding the survey. Interviewers asked about family planning messages on the radio or television; in a newspaper,

magazine, pamphlet, poster, or leaflet; at a community event, and from a doctor, nurse, or other health worker. Table 7.9 presents the findings.

Among women age 15-49 community events are the most common source of family planning messages, at 37 percent. Radio is the second most common at 34 percent. Another common source is television, with 18 percent of women reporting exposure to family planning messages via television. Ethiopian women do not have high exposure to written sources of family planning messages. Only 8 percent of women report seeing family planning messages in a newspaper or magazine or in a pamphlet, poster, or leaflet.

In general, a higher proportion of Ethiopian men are exposed to family planning messages than women. As for women the most common sources of family planning messages for men age 15-49 are the radio or community events (51 and 44 percent, respectively). Twenty-five percent of men report exposure to family planning messages on television, while 18 percent report exposure to messages from a pamphlet, poster, or leaflet. The least common source of family planning messages for men is a newspaper or magazine, at 15 percent.

Among women, there is a slight variation in exposure to printed family planning messages by their background characteristics. Women in the two lowest age categories, age 15-24, have higher levels of exposure to family planning messages in a newspaper or magazine or in pamphlets, posters, or leaflets than women in upper categories. A higher proportion of urban women than rural women are exposed to messages from each source. Especially pronounced gaps between urban and rural women are observed in their exposure to family planning messages on television (55 and 7 percent, respectively), in a newspaper or magazine (21 and 4 percent, respectively), and in a pamphlet, poster, or leaflet (23 and 3 percent, respectively). Similar urban-rural variations in exposure to printed family planning messages are observed among men. Urban women are more exposed to family planning messages at community events than rural women (40 and 36 percent, respectively), whereas rural men are more exposed than urban men (45 and 42 percent, respectively) to these messages. Regional differentials also suggest that women and men in relatively urbanized areas, namely Addis Ababa, Dire Dawa, and Harari, are more likely than other respondents to be exposed to family planning messages from all specified media sources. Exposure to family planning messages at community events is the exception to this pattern. Women in Tigray and Amhara are more likely to be exposed to family planning messages at community events (65 percent and 46 percent, respectively) than women from other regions including the more urbanized areas.

There is a marked difference by women's level of education in exposure to family planning messages from all media sources; 72 percent of women with more than secondary education are exposed to family planning messages through the television, whereas only 6 percent of women with no education are. Similar patterns are true for men. Both female and male respondents in the lowest wealth quintile are the least likely to be exposed to family planning messages through any of the specified sources when compared with respondents in higher quintiles.

Table 7.9 Exposure to family planning messages

Percentage of women and men age 15-49 who heard or saw a family planning message on radio; on television; in a newspaper; in a pamphlet, poster, or leaflet; or at a community event in the past few months, according to background characteristics, Ethiopia 2011

| Background characteristic Ra Age 34 | | | | | | | | | | | | | | | |
|---|------------------------|--------------------------|---------------------------------|----------------------|---|--------------------------------|----------------------------------|--------------|--------------|------------------------|---------------------------------|------------------------|---|------------------------------|--------------------------------|
| | Radio Television | Newspaper/ n magazine | Pamphlet/ poster/ leaflet | Community event | None of these five media sources | Weighted number of women | Unweighted number of women | Radio | Television | Newspaper/ magazine | Pamphlet/ poster/ leaflet | Community event | None of these five media sources | Weighted number of men | Unweighted number of men |
| | | 7 01 | 40.3 | 2. 8 | 40.6 | 0007 | 3 835 | 703 | 21.1 | 12.6 | 4 4 3 | CBC | 30.7 | 2 0 1 2 | 2 832 |
| | | 1.7 | 2.65 | 33.7 | 40.7 | 2,931 | 3,033 | 53.7 | 27.0 | 17.2 | 22.2 | 42.6 | 28.7 | 2,013 | 2,832 |
| | | 6.2 | 6.2 | 37.7 | 42.9 | 3,147 | 3,185 | 54.1 | 25.5 | 19.6 | 21.2 | 46.4 | 26.7 | 2,297 | 2,274 |
| | | 2.7 | 5.4 | 40.9 | 44.3 | 2,054 | 2,100 | 55.8 | 29.6 | 14.9 | 19.8 | 51.2 | 23.4 | 1,483 | 1,682 |
| 35-39 | 37.9 15.5 | 7.4 7.7 | 5.0 8 | 42.1 | 42.8 42.8 | 1,916 | 1,958 | 52.3 | 25.2 25.9 | 4 4 4. 4 | 17.7 | 51.9 51.9 | 25.3 | 1,648 | 1,579 |
| | | 2.0 | . ω . ω | 37.1 | 50.2 | 1,196 | 1,101 | 51.2 | 22.7 | 10.7 | 13.1 | 57.7 | 25.4 | 952 | 961 |
| R esidence Urban 57 Rural 26 | 57.3 55.1 26.3 6.5 | 21.2 3.8 | 22.7 3.3 | 39.8 35.7 | 20.1 50.4 | 3,947 12,568 | 5,329 11,186 | 65.8 46.1 | 62.6 14.1 | 29.2 11.0 | 40.0 | 41.5 45.0 | 13.0 33.8 | 2,882 9,952 | 3,915 8,953 |
| | | | | | | | | | | | | | | | |
| Tigray 34 | 34.2 22.6 | 11.9 | 12.4 | 64.9 | 23.2 | 1,104 | 1,728 | 42.1 | 29.7 | 19.6 | 20.3 | 40.9 | 32.5 | 770 | 1,235 |
| | | ກ. | 0 G | 10.7 | 40.7 | 4 433 | 1,291 | 24.9 40.7 | 4.04 | 13.5 | 18.0 | 513 | 30.7 30.0 | 3 481 | 910 |
| | | 9.9 | 5.6 | 27.2 | 48.9 | 6,011 | 2,135 | 59.4 | 22.5 | 14.0 | 1.8 | 42.4 | 27.9 | 4,957 | 1,889 |
| | | 4.2 | 2.9 | 31.6 | 55.6 | 329 | 914 | 41.8 | 18.9 | 11.3 | 14.5 | 16.9 | 48.6 | 245 | 653 |
| Benishangul-Gumuz 25 | | 0 1 0 | 2.5 1.5 | 33.6 | 52.1 | 174 | 1,259 | 53.1 | 26.8 | <u></u> | 17.2 | 40.6 | 33.4 | 138 | 1,047 |
| | | 7.0 | 11.7 | 20.0 20.0 20.0 | 52.1 | 3,230 69 | 1,034 | - 6 | 46.4 46.4 | 97.0 | 2.14 5.15 | 38.0 | 2.1.5 9.00 | 2,307 | 965 |
| | | 18.2 | 19.5 | 25.4 | 30.4 | 49 | 1,101 | 75.0 | 67.6 | 32.9 | 31.9 | 45.9 | 11.3 | 40 | 868 |
| oa Oa | | 25.5 | 29.7 | 25.5 | 11.8 | 968 | 1,741 | 80.0 | 74.5 | 34.6 | 44.6 | 23.3 | 6.4 | 682 | 1,237 |
| Dire Dawa 50 | | 23.3 | 25.9 | 40.2 | 28.5 | 69 | 1,095 | 72.8 | 64.9 | 37.0 | 52.7 | 57.2 | 9.2 | 53 | 845 |
| | | (| i (| | C L | | 0 | 1 | · | i (| Ó | | | 1 | 0 |
| No education 22 Primary 38 | 22.0 6.1 38.2 2.1.1 | 5.0 5.0 | ე დ ი ი | 6.45 6.75 | 38.6 4.0 | 8,394 6,276 | 8,278 | 36.7 51.3 | . 6 . 0 | 2.5 5.5 | 5. 5. 6. 6. | 44.9 5.75 | 290.1 1.000 | 3,785 6,813 | 3,659 6,334 |
| | 5.7 56.7 | 31.5 | 32.8 | 46.2 | 14.6 | 1,117 | 1,395 | 70.0 | 56.8 | 35.4 | 41.8 | 45.1 | 12.3 | 1,296 | 1,565 |
| secondary | | 44.8 | 48.0 | 47.7 | 6.3 | 728 | 984 | 73.5 | 68.0 | 49.9 | 60.3 | 52.7 | 6.7 | 940 | 1,310 |
| luintile | | | | | | | | | | | | | | | |
| Lowest 15 | 15.1 3.5 | 2.2 | 1. 2 | 35.3 | 56.6 | 2,986 | 3,711 | 34.5 | 4.0 | | 9.9 | 4 7 7 | 43.3 | 2,141 | 2,563 |
| | | 3.7. | 9 K | 34.5 | 51.8 | 3,031 | 2,402 | 48.3 | 12.2 | 10.3 | 10.8 | 4 1 4 4 6.0 | 32.7 | 2,302 2,454 | 1.935 |
| | | 6.1 | 4.3 | 34.7 | 45.1 | 3,215 | 2,505 | 54.8 | 19.9 | 17.9 | 14.9 | 45.9 | 26.5 | 2,683 | 2,203 |
| Highest 58 | | 20.6 | 23.1 | 40.2 | 19.8 | 4,242 | 5,629 | 9.99 | 8.09 | 29.5 | 41.1 | 43.1 | 12.7 | 3,194 | 4,276 |
| Total 15-49 33 | 33.7 18.1 | 7.9 | 8.0 | 36.7 | 43.1 | 16,515 | 16,515 | 50.5 | 25.0 | 15.1 | 18.0 | 44.2 | 29.2 | 12,834 | 12,868 |
| | na na | na | na | na | na | na | na | 45.7 | 21.1 | 6.6 | 10.7 | 53.5 | 29.3 | 1,276 | 1,242 |
| Total 15-59 | | na | na | na | na | na | na | 20.1 | 24.7 | 14.6 | 17.3 | 45.1 | 29.2 | 14,110 | 14,110 |

7.10 EXPOSURE TO SPECIFIC TYPE OF FAMILY PLANNING MESSAGES

Respondents in the 2011 EDHS were asked if they had heard or seen specific family planning or health messages in the past few months. Table 7.10 shows the percent distribution of women and men age 15-49 who heard or saw specific messages, by background characteristics.

The most common message reported by women is 'Birth spacing makes for a loving, caring, and healthy family', with 44 percent women reporting having seen or heard this specific message. Thirty-two percent of women reported having heard or seen 'It is wise to have a balanced family life' or 'Your family's happiness is in your hand'. 'Children by choice, not by chance' was the message least seen or heard by women, at 26 percent. In general, Ethiopian men have higher exposure levels to each specific message than women.

Women age 45-49 and men age 15-19 have the lowest levels of exposure to all of the specified messages, while women age 20-24 and men age 30-34 have the highest exposure levels. Urban respondents, those with higher education, and those in the richest wealth quintiles are the more likely to have been exposed to specific family planning messages than those in rural areas, respondents with little or no education, and poorer respondents, respectively.

The regional differentials also show that women and men in more urbanized regions such as Addis Ababa, Dire Dawa, and Harari are more likely than respondents in more rural regions to be exposed to specific family planning messages.

Table 7.10 Exposure to specific family planning messages

Percentage of all women and all men who have heard or seen specific media messages about family planning and health, in the past few months, according to background characteristics, Ethiopia 2011

| | | | W | omen | | | | | | Men | | |
|--|--|--|--|--|--|---|--|--|--|--|--|---|
| Background characteristic | It's wise to have a balanced family life | Your family's happiness is in your hands | Birth spacing makes for a loving, caring, and healthy family | Children by choice, not by chance | Weighted number of women | Unweighted number of women | It's wise to have a balanced family life | Your family's happiness is in your hands | Birth spacing makes for a loving, caring and healthy family | Children by choice, not by chance | Weighted number of men | Unweighted number of men |
| Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 33.6 37.5 32.3 30.8 31.6 27.2 20.9 | 33.6 38.2 32.9 31.7 31.3 28.6 19.6 | 45.9 50.8 44.8 41.8 42.2 37.3 31.9 | 26.4 31.3 25.9 26.1 25.7 20.4 15.6 | 4,009 2,931 3,147 2,054 1,916 1,261 1,196 | 3,835 3,022 3,185 2,100 1,958 1,314 1,101 | 40.0 53.9 52.9 56.0 55.4 52.7 50.6 | 37.9 52.8 55.3 56.7 52.3 53.7 51.6 | 51.1 65.2 67.8 71.3 67.0 67.9 63.8 | 29.6 42.9 47.5 48.6 43.7 44.3 40.0 | 3,013 2,319 2,297 1,483 1,648 1,121 952 | 2,832 2,330 2,274 1,682 1,579 1,210 961 |
| Residence Urban Rural | 64.2 21.9 | 66.0 21.8 | 70.9 35.5 | 53.0 17.3 | 3,947 12,568 | 5,329 11,186 | 76.6 43.0 | 76.4 42.5 | 82.1 58.0 | 59.2 36.1 | 2,882 9,952 | 3,915 8,953 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul- Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 36.9 23.3 31.2 28.3 21.6 27.4 24.6 28.3 59.1 84.2 67.8 | 35.9 23.0 26.0 30.7 22.0 29.6 29.3 36.0 66.6 83.8 66.5 | 46.0 27.6 45.0 46.8 22.2 39.8 28.4 35.8 60.3 82.7 70.4 | 32.4 17.9 20.2 27.2 12.0 19.3 18.3 24.3 51.7 67.5 58.3 | 1,104 145 4,433 6,011 329 174 3,236 69 49 896 69 | 1,728 1,291 2,087 2,135 914 1,259 2,034 1,130 1,101 1,741 1,095 | 48.0 46.9 46.6 50.1 41.3 55.1 47.2 55.5 77.1 86.9 79.9 | 47.8 52.8 36.4 56.2 42.8 57.3 46.5 66.2 89.4 85.1 83.3 | 61.0 45.6 57.3 66.9 44.8 64.7 62.2 68.3 91.9 80.2 89.1 | 52.9 36.0 27.7 51.4 23.4 39.0 31.9 50.7 72.8 57.6 74.6 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 |
| Education No education Primary Secondary More than secondary | 18.3 36.8 73.1 86.8 | 17.4 38.8 72.5 | 30.0 51.2 78.9 88.9 | 13.5 29.9 60.6 79.2 | 8,394 6,276 1,117 | 8,278 5,858 1,395 | 36.0 49.3 76.0 83.3 | 32.0 49.6 78.0 88.5 | 50.1 63.5 83.5 | 25.0 40.7 63.0 80.9 | 3,785 6,813 1,296 940 | 3,659 6,334 1,565 1,310 |
| Wealth quintile Lowest Second Middle Fourth Highest | | 13.5 19.1 20.3 28.5 66.8 | 26.7 31.9 37.0 42.1 71.2 | 10.5 14.2 16.5 22.6 54.0 | 2,986 3,041 3,031 3,215 4,242 | 3,711 2,402 2,268 2,505 5,629 | 36.2 38.4 41.7 50.9 75.7 | 31.5 36.5 41.9 52.6 77.0 | 48.7 54.4 59.2 65.3 81.6 | 25.7 31.5 37.3 43.4 60.3 | 2,141 2,362 2,454 2,683 3,194 | 2,563 1,891 1,935 2,203 4,276 |
| Total 15-49 50-59 Total 15-59 | 32.0 na na | 32.4 na na | 44.0 na na | 25.8 na na | 16,515 na na | 16,515 na na | 50.5 47.3 50.2 | 50.1 43.4 49.5 | 63.4 58.3 62.9 | 41.3 34.5 40.7 | 12,834 1,276 14,110 | 12,868 1,242 14,110 |

7.11 CONTACT OF NONUSERS WITH FAMILY PLANNING PROVIDERS

Interviewers asked women who were not using any contraception at the time of the survey whether a family planning worker had visited and talked to them in the past 12 months. Interviewers also asked whether they had attended a health facility during the past year and, if so, whether a staff person at that facility spoke to them about family planning methods. This information, presented in Table 7.11, is important for determining whether family planning initiatives in Ethiopia are reaching nonusers of family planning.

Only 15 percent of nonusers reported being visited by a health services provider at home who engaged them in a discussion of family planning. Among female nonusers 22 percent had visited a health facility in the past 12 months but did not discuss family planning with a provider, while 7 percent did discuss family planning. The majority of women who are nonusers (81 percent) neither discussed family planning with a fieldworker nor discussed family planning at a health facility.

An interesting age pattern is observed for women who were visited by a fieldworker who discussed family planning, as well as for those women who visited a health facility in the past 12 months and discussed family planning. For both groups of women, the percentage that discussed family planning is lowest in the youngest age cohort, age 15-19, but steadily increases and peaks in the 35-39 age cohort before declining in the oldest age groups. For example, only 10 percent of women age 15-19 reported being visited by a fieldworker who discussed family planning, compared with 22 percent of those age 35-39.

The percentage of nonusers who were visited by a fieldworker and who discussed family planning varies notably by region. The highest percentage is in Tigray (28 percent) and the lowest percentages are observed in Somali (7 percent), Affar (8 percent), and Gambela (9 percent).

Table 7.11 Contact of nonusers with family planning providers

Among women age 15-49 who are not using contraception, the percentage who during the past 12 months were visited by a fieldworker who discussed family planning, the percentage who visited a health facility and discussed family planning, the percentage who visited a health facility but did not discuss family planning, and the percentage who did not discuss family planning either with a fieldworker or at a health facility, by background characteristics, Ethiopia 2011

| | | visited a health f | | | | |
|---------------------------|----------------------------------|--------------------|-----------------|-------------------------------|-------------|--------------|
| | women who | 12 months | s and who: | not discuss | | |
| | were visited by a fieldworker | | | family planning either with a | Weighted | Unweighted |
| Background | who discussed | Discussed | Did not discuss | fieldworker or at | number of | number of |
| characteristic | family planning | family planning | family planning | a health facility | women | women |
| Age | | | | | | |
| 15-19 | 9.6 | 2.6 | 13.1 | 88.6 | 3,795 | 3,611 |
| 20-24 | 14.0 | 6.6 | 26.0 | 82.2 | 2,247 | 2,380 |
| 25-29 | 16.8 | 9.3 | 26.7 | 78.2 | 2,312 | 2,398 |
| 30-34 | 16.7 | 8.0 | 24.9 | 79.7 | 1,451 | 1,576 |
| 35-39 | 22.3 | 13.0 | 25.9 | 72.7 | 1,404 | 1,485 |
| 40-44 | 21.1 | 9.0 | 22.3 | 74.7 | 1,005 | 1,095 |
| 45-49 | 16.5 | 5.4 | 19.6 | 81.0 | 1,066 | 1,009 |
| Residence | | | | | | |
| Urban | 14.3 | 9.3 | 28.6 | 80.4 | 2,877 | 3,956 |
| Rural | 15.4 | 6.2 | 19.6 | 81.7 | 10,404 | 9,598 |
| Region | | | | | | |
| Tigray | 28.1 | 20.6 | 23.6 | 64.4 | 925 | 1,450 |
| Affar | 7.8 | 2.3 | 23.3 | 91.2 | 133 | 1,217 |
| Amhara | 18.8 | 7.3 | 17.8 | 77.5 | 3,404 | 1,615 |
| Oromiya | 12.7 6.9 | 5.4 2.1 | 22.1 17.0 | 84.4 92.0 | 4,895 | 1,738 |
| Somali | 16.1 | 4.9 | 27.8 | | 318 138 | 883 1,026 |
| Benishangul-Gumuz SNNP | 12.8 | 4.9 4.5 | 20.9 | 81.8 84.6 | 2,679 | 1,026 |
| Gambela | 9.1 | 6.0 | 32.8 | 87.8 | 2,679 46 | 897 |
| Harari | 13.4 | 5.6 | 26.5 | 82.7 | 38 | 856 |
| Addis Ababa | 11.1 | 9.0 | 35.0 | 82.8 | 650 | 1,285 |
| Dire Dawa | 19.3 | 8.7 | 29.3 | 76.9 | 54 | 885 |
| Education | | | | | | |
| No education | 15.8 | 7.0 | 21.1 | 80.8 | 6,789 | 7,050 |
| Primary | 13.9 | 5.7 | 20.3 | 83.2 | 5,132 | 4,734 |
| Secondary | 16.3 | 8.3 | 30.1 | 79.5 | 875 | 1,059 |
| More than secondary | 16.7 | 14.9 | 23.6 | 73.5 | 485 | 711 |
| Wealth quintile | | | | | | |
| Lowest | 13.3 | 5.1 | 17.4 | 83.9 | 2.674 | 3,463 |
| Second | 15.4 | 5.8 | 19.2 | 82.0 | 2,530 | 2,065 |
| Middle | 14.7 | 5.5 | 19.3 | 82.6 | 2,482 | 1,899 |
| Fourth | 17.8 | 6.6 | 22.6 | 79.2 | 2,542 | 1,998 |
| Highest | 14.7 | 10.6 | 27.9 | 79.5 | 3,054 | 4,129 |
| Total | 15.2 | 6.9 | 21.5 | 81.4 | 13,281 | 13,554 |

7.12 CONTRACEPTIVE DISCONTINUATION RATE

Table 7.12 shows, among women age 15-49 who started an episode of contraceptive use within the five-year period preceding the survey, the percentage of episodes discontinued within 12 months, by specific method.

The 12-month contraceptive discontinuation rate for all methods is 37 percent. Among the major methods, the highest discontinuation rate is for the pill (70 percent), followed by the male condom (62 percent). In contrast, implants have a discontinuation rate of just 5 percent.

Table 7.12 Contraceptive discontinuation rates

Among women age 15-49 who started an episode of contraceptive use within the five years preceding the survey, the percentage of episodes discontinued within 12 months, by specific method, Ethiopia, 2011

| Method | Percentage who discontinued within 12 months |
|--|--|
| Pill Injectables Implants Male condom Rhythm | 69.9 34.2 4.5 62.4 23.6 |
| All methods ¹ | 37.1 |
| Number of episodes of use | 1,790 |

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

¹ All methods are included in the discontinuation rate shown for all methods, but only selected methods are shown separately.

Key Findings

- One in every 17 Ethiopian children dies before the first birthday, and one in every 11 children dies before the fifth birthday.
- Infant mortality declined by 39 percent over the 15-year period between the 2000 EDHS and the 2011 EDHS, from 97 deaths per 1,000 live births to 59 deaths per 1,000 live births.
- Under-five mortality declined by 47 percent over the same period, from 166 deaths per 1,000 live births to 88 deaths per 1,000 live births.
- Childhood mortality is higher in rural areas than in urban areas. These rates were highest in Benishangul-Gumuz and lowest in Addis Ababa.
- The neonatal mortality rate was 37 deaths per 1,000 live births, the post-neonatal mortality rate was 22 deaths per 1,000 live births, and the perinatal mortality rate was 46 per 1,000 pregnancies.

his chapter presents levels, trends, and differentials in perinatal, neonatal, postneonatal, infant, child, and under-five mortality in Ethiopia. The information enhances understanding of population dynamics and will assist in the planning and evaluation of health policies and programmes. Estimates of infant and child mortality rates can be used to develop population projections. Information on childhood mortality also serves the need of the health sector to identify population groups that are at high risk.

One of the targets of the Millennium Development Goals (MDGs) is to reduce the under-five mortality rate by two-thirds between 1990 and 2015. Programmes to increase the proportion of births attended by skilled health personnel, to increase immunisations against the vaccine-preventable diseases, to provide early care and treatment to sick children, and to upgrade the status of women through education and enhanced participation in the labour force can all help to improve the probability of survival of young children. Results from the 2011 EDHS are timely in evaluating the impact on the achievement of this MDG goal of some major national policies, such as the National Population Policy, the National Policy on Ethiopian Women, and the National Health Policy.

The data used for mortality estimation were collected in the birth history section of the Woman's Questionnaire. The birth history section begins with questions about the respondent's experience with childbearing (i.e., the number of sons and daughters living with the mother, the number who live elsewhere, and the number who have died). These questions are followed by a retrospective birth history, in which each respondent is asked to list each of her births, starting with the first birth. For each birth, data were obtained on sex, month and year of birth, survivorship status, and current age, or, if the child is dead, age at death. This information is used to directly estimate mortality rates. In this report age-specific mortality rates are categorised and defined as follows:

- Neonatal mortality (NN): the probability of dying within the first month of life
- Postneonatal mortality (PNN): the probability of dying after the first month of life but before the first birthday (the difference between infant and neonatal mortality)
- Infant mortality $(_1q_0)$: the probability of dying before the first birthday
- Child mortality $(_4q_1)$: the probability of dying between the first and the fifth birthdays

• Under-five mortality ($_{5}q_{0}$): 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 12 months of age.

8.1 DATA QUALITY

Estimates of infant and child mortality that are based on retrospective birth histories are subject to possible reporting errors that may adversely affect the quality of the data. The estimates may be affected by the completeness with which births and deaths are reported and recorded, as well as the accuracy of information on current age and the age at death for children who died. A lack of accurate information on the age at death may distort the age pattern of mortality. If age at death is misreported and the net effect of this age misreporting results in transference from one age bracket to another, it will bias the estimates. For example, a net transfer of deaths from an age of under 1 month to a higher age will affect the estimates of neonatal and postneonatal mortality. To minimise errors in reporting age at death, interviewers were instructed to record age at death in days if the death took place in the month following the birth, in months if the child died before 2 years of age, and in years if the child died at age 2 years or above. Interviewers were also asked to probe for deaths reported at 1 year of age to determine a more precise age at death in terms of months. Despite the emphasis during interviewer training and fieldwork monitoring on probing for accurate age at death, Appendix Table C.6 shows that, for the five years preceding the survey, there is considerable heaping of deaths at 6 and 12 months of age. However, only the heaping at 12 months of age can potentially bias the mortality rates reported in the tables in this chapter. Age heaping at 12 months to the extent shown in Appendix Table C.6 is likely to have only a negligible effect on the estimates of infant mortality, but it is likely to lead to some overestimation of child mortality, especially for the earlier five-year periods.

Another potential data quality problem is the selective omission from the birth histories of births that did not survive, which can lead to underestimation of mortality rates. When selective omission of childhood deaths occurs, it is usually most severe for deaths occurring early in infancy. One way that such omissions can be detected is by examining the proportion of infant deaths that are neonatal deaths. Generally, if there is substantial underreporting of deaths, the result is an abnormally low ratio of neonatal deaths to infant deaths. In the 2011 EDHS the proportion of infant deaths occurring in the first month of life is 65 percent in the period 0-4 years preceding the survey (Appendix Table C.6), which is within the normal range. Furthermore, it appears that early neonatal deaths among births that occurred in the first month of life have not been underreported, since 79 percent of neonatal deaths were early neonatal deaths (Appendix Table C.5). The proportion is slightly lower for deaths occurring 15-19 years before the survey, which is not surprising given the greater likelihood of recall errors for deaths occurring further in the past.

Displacement of birth dates may cause a distortion of mortality trends. This can occur if an interviewer knowingly records a death as occurring in an earlier year, which would happen if an interviewer is trying to cut down on the overall workload, because a lengthy set of additional questions is asked about live births occurring during the five years preceding the interview. Appendix Table C.4 shows considerable year-of-birth transference for deceased children from 1998 to 1997, but relatively little transference for living children. This suggests that under-five mortality is likely to be underestimated to some extent for the five-year period before the survey.

8.2 LEVELS AND TRENDS IN INFANT AND CHILD MORTALITY

8.2.1 Early Childhood Mortality Rates

Table 8.1 shows neonatal, postneonatal, infant, child, and under-five mortality rates for successive five-year periods before the survey. For the five years preceding the survey, the infant mortality rate was 59 per 1,000 live births, the child mortality rate was 31 per 1,000 children surviving to age 1 year, and the under-five mortality rate was 88 per 1,000 live births. This implies that one in 17 Ethiopian children dies before the first birthday and one in 11 Ethiopian children dies before the fifth birthday. During the same five-year period, neonatal mortality was 37 deaths per 1,000 live births, and postneonatal mortality was 22 deaths per 1,000 live births.

| Table 8.1 Early childhood mor | tality rates | | | | |
|--|-----------------------|-----------------------|-------------------|------------------|------------------|
| Neonatal, postneonatal, infant, Ethiopia 2011 | , child, and ur | nder-five mortality r | ates for five-yea | r periods preced | ding the survey, |
| Vdia-ada- | Neonatal mortality | Postneonatal | Infant | Child | Under-five |

| Years preceding the survey | mortality (NN) | Postneonatal mortality (PNN) ¹ | Infant mortality (1q0) | Child mortality (₄ q ₁) | Under-five mortality (5q0) |
|----------------------------|-------------------|---|---------------------------|--|----------------------------|
| 0-4 | 37 | 22 | 59 | 31 | 88 |
| 5-9 | 48 | 40 | 88 | 49 | 133 |
| 10-14 | 54 | 47 | 101 | 72 | 166 |

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

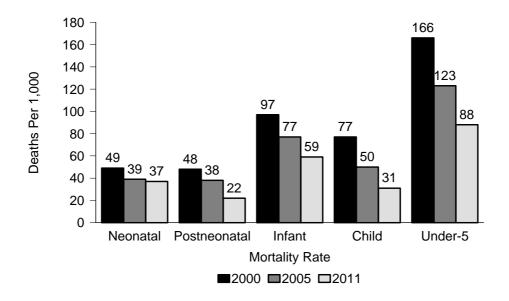
8.2.2 Trends in Early Childhood Mortality

Mortality trends can be examined in two ways: by comparing mortality rates for the three five-year periods preceding a single survey or by comparing mortality estimates obtained from several surveys over time. It should be noted that sampling errors associated with mortality estimates are large and should be taken into account when examining trends between surveys.

Results from the 2011 EDHS data show a remarkable decline in all levels of childhood mortality. Infant mortality has declined by 42 percent over the 15-year period preceding the survey from 101 deaths per 1,000 live births to 59 deaths per 1,000 live births. Furthermore, under-five mortality has declined by 47 percent over the same period from 166 deaths per 1,000 live births to 88 deaths per 1,000 live births. Even though not to the same extent, the neonatal mortality has also decreased over the 15-year period preceding the survey by 31 percent from 54 deaths per 1,000 live births to 37 deaths per 1,000 live births.

Mortality trends can also be examined by comparing data from DHS surveys conducted in 2000, 2005, and 2011. Infant and under-five mortality rates obtained by these surveys evidence a continuous declining trend in mortality. Under-five mortality decreased from 166 deaths per 1,000 live births in the 2000 survey to 88 in 2011, while infant mortality decreased from 97 deaths per 1,000 live births in the 2000 survey to 59 in the 2011 survey. On the other hand, even though neonatal mortality rate decreased from 49 deaths per 1,000 live births in 2000 to 39 deaths per 1,000 live births in 2005, it has since remained stable at 37 deaths per 1,000, as reported in the 2011 EDHS (Figure 8.1).

Figure 8.1 Trends in Early Childhood Mortality, EDHS 2000, 2005, and 2011



8.3 EARLY CHILDHOOD MORTALITY RATES BY SOCIOECONOMIC CHARACTERISTICS

Mortality differences by place of residence, region, education of the mother, and household wealth are presented in Table 8.2. To have a sufficient number of births to study mortality differentials across population subgroups, mortality rates are presented for the 10-year period preceding the survey. The table shows that infant and child survival are strongly influenced by these socioeconomic characteristics. Mortality rates in urban areas are consistently lower than in rural areas, although the difference is quite small for neonatal mortality. Infant mortality is 29 percent higher in rural areas (76 deaths per 1,000 live births) than in urban areas (59 deaths per 1,000 live births). The urban-rural difference is even more pronounced in the case of under-five mortality. Wide regional differences in infant and under-five mortality are observed, as well. Under-five mortality rates range from a low of 53 per 1,000 live births in Addis Ababa to a high of 169 per 1,000 live births in Benishangul-Gumuz. Under-five mortality is also relatively high in Affar, Gambela, and Somali (Table 8.2 and Figure 8.2).

Table 8.2 Early childhood mortality rates by socioeconomic characteristics

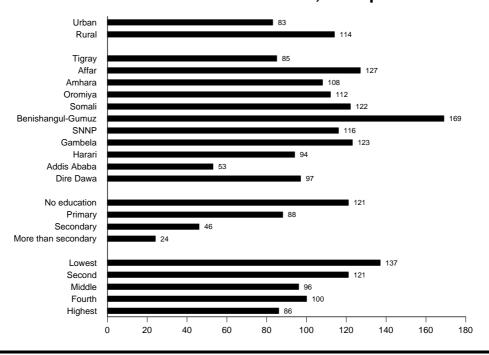
Neonatal, postneonatal, infant, child, and under-five mortality rates for the 10-year period preceding the survey, by background characteristics, Ethiopia 2011

| | | Postneonatal | | | |
|---------------------|----------------|--------------------|-----------------|-----------------|-----------------|
| Background | Neonatal | mortality | Infant | Child | Under-five |
| characteristic | mortality (NN) | (PNN) ¹ | mortality (1q0) | mortality (4q1) | mortality (5q0) |
| Residence | | | | | |
| Urban | 41 | 19 | 59 | 25 | 83 |
| Rural | 43 | 33 | 76 | 42 | 114 |
| Region | | | | | |
| Tigray | 44 | 20 | 64 | 23 | 85 |
| Affar | 33 | 30 | 64 | 67 | 127 |
| Amhara | 54 | 23 | 76 | 34 | 108 |
| Oromiya | 40 | 32 | 73 | 42 | 112 |
| Somali | 34 | 36 | 71 | 56 | 122 |
| Benishangul-Gumuz | 62 | 39 | 101 | 76 | 169 |
| SNNP | 38 | 41 | 78 | 41 | 116 |
| Gambela | 39 | 36 | 76 | 51 | 123 |
| Harari | 35 | 29 | 64 | 32 | 94 |
| Addis Ababa | 21 | 19 | 40 | 14 | 53 |
| Dire Dawa | 30 | 30 | 60 | 39 | 97 |
| Mother's education | | | | | |
| No education | 46 | 35 | 81 | 43 | 121 |
| Primary | 35 | 23 | 58 | 32 | 88 |
| Secondary | 31 | 12 | 42 | 4 | 46 |
| More than secondary | 8 | 14 | 22 | 2 | 24 |
| Wealth quintile | | | | | |
| Lowest | 50 | 41 | 91 | 51 | 137 |
| Second | 48 | 36 | 84 | 41 | 121 |
| Middle | 35 | 25 | 60 | 38 | 96 |
| Fourth | 39 | 27 | 66 | 36 | 100 |
| Highest | 37 | 23 | 60 | 27 | 86 |

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

As expected, mother's education is inversely related to a child's risk of dying. Under-five mortality among children born to mothers with no education (121 per 1,000 live births) is 2.6 times as high as that of children born to mothers with secondary education (46 per 1,000 live births) and more than five times as high as that of mothers with more than a secondary education (24 per 1,000 live births). The beneficial effect of educating mothers is evident for all childhood mortality rates. Also, childhood mortality generally decreases as wealth increases, although the differences are relatively small in the three highest wealth quintiles.

Figure 8.2 Under-Five Mortality by Socioeconomic Characteristics, Ethiopia 2011



8.4 **DEMOGRAPHIC DIFFERENTIALS IN INFANT AND CHILD MORTALITY**

The demographic characteristics of both mothers and children have been found to play an important role in the survival of children. Table 8.3 presents childhood mortality rates by demographic characteristics (sex of the child, mother's age at birth, birth order, previous birth interval, and the infant's size at birth).

| Table 8.3 Early childhood mortality rates, by demographic characteristics |
|--|
| Neonatal, postneonatal, infant, child, and under-five mortality rates for the 10-year period preceding the survey, by demographic characteristics, Ethiopia 2011 |

| | | Postneonatal | | | |
|--------------------------------------|----------------------------|--------------------|---------------------------|--------------------------|----------------------------------|
| Demographic characteristic | Neonatal mortality (NN) | mortality (PNN) | Infant mortality (1q0) | Child mortality (4q1) | Under-five mortality ($_5q_0$) |
| Child's sex | | | | | |
| Male | 51 | 34 | 84 | 41 | 122 |
| Female | 34 | 29 | 63 | 38 | 98 |
| Mother's age at birth | | | | | |
| <20 | 61 | 35 | 96 | 33 | 126 |
| 20-29 | 37 | 32 | 69 | 38 | 105 |
| 30-39 | 43 | 27 | 70 | 46 | 113 |
| 40-49 | 42 | 25 | 67 | 33 | 97 |
| Birth order | | | | | |
| 1 | 54 | 24 | 79 | 30 | 106 |
| 2-3 | 36 | 33 | 70 | 34 | 102 |
| 4-6 | 40 | 30 | 70 | 45 | 112 |
| 7+ | 46 | 37 | 82 | 49 | 128 |
| Previous birth interval ² | | | | | |
| <2 years | 58 | 64 | 122 | 64 | 179 |
| 2 years | 39 | 26 | 65 | 45 | 106 |
| 3 years | 30 | 19 | 49 | 24 | 72 |
| 4+ years | 24 | 13 | 37 | 17 | 53 |
| Birth size ³ | | | | | |
| Small/very small | 33 | 17 | 50 | na | na |
| Average or larger | 37 | 23 | 61 | na | na |

na = Not applicable

Computed as the difference between the infant and neonatal mortality rates

Excludes first-order births

Rates for the five-year period before the survey

As noted in earlier DHS surveys, male children in general experience a higher mortality than female children. This is true for all mortality rates. Infant mortality is higher for births to mothers under age 20 than for mothers in the older age groups. Infant mortality is also higher for first births and 7th and higher-order births than for births of orders 2-6. Short birth intervals substantially reduce children's chances of survival, especially intervals of less than two years. For example, children born less than two years after the preceding birth are 2.5 times as likely to die within the first year of life and within the first five years of life as children born three years after the preceding birth (Figure 8.3).

Since most births in Ethiopia occur at home, where children often are not weighed at birth, data on birth weight is available for only a few children. However, in the Ethiopia DHS survey, mothers were asked whether their children born in the past five years were very large, larger than average, average, smaller than average, or very small at birth, since this has been found to be a good proxy for the child's weight. The data show little variation in mortality by size of child at birth.

Child's sex Male Female Mother's age at birth 126 20-29 105 30-39 **113** 40-49 97 Birth order 106 2-3 102 4-6 112 Previous birth interval <2 years 179 **106** 2 years 3 years **7**2 4+ years **5**3 50 0 100 150 200

Figure 8.3 Under-Five Mortality Rate by Selected Demographic Characteristics, Ethiopia 2011

8.5 PERINATAL MORTALITY

The 2011 EDHS asked women to report any pregnancy loss that occurred in the five years preceding the survey. For each pregnancy that did not end in a live birth, the duration of the pregnancy was recorded. Pregnancy losses occurring after seven completed months of gestation (stillbirths) plus deaths to live births within the first seven days of life (early neonatal deaths) are defined as perinatal deaths. The distinction between a stillbirth and an early neonatal death may be a fine one, often depending on observing and sometimes remembering faint signs of life after delivery. The causes of stillbirths and early neonatal deaths are closely linked, and examining just one or the other can understate the true level of mortality around the time of delivery. The perinatal mortality rate is the sum of stillbirths and early neonatal deaths divided by the sum of stillbirths and live births, expressed per 1,000 pregnancies that lasted seven or more months.

Table 8.4 presents the number of stillbirths and early neonatal deaths and the perinatal mortality rate for the five-year period preceding the survey, by background characteristics. Since the rates are subject to a high degree of sampling variation, differences by background characteristics should be interpreted with caution. The perinatal mortality rate is 46 per 1,000 pregnancies of seven or more months of gestation. The perinatal mortality rate is higher among births to young mothers (less than 20 years of age) as well as among births that occur less than 15 months after the previous birth. Perinatal mortality generally decreases with an increase in the levels of education and of household wealth.

Table 8.4 Perinatal mortality Number of stillbirths and early neonatal deaths and the perinatal mortality rate for the five-year period preceding the survey, by background characteristics, Ethiopia 2011

| Background characteristic | Number of stillbirths ¹ | Number of early neonatal deaths ² | Perinatal mortality rate ³ | Weighted number of pregnancies of 7+ months duration | Unweighted number of pregnancies of 7+ months duration |
|--|------------------------------------|--|---------------------------------------|---|---|
| Mother's age at birth | | | | | |
| <20 | 30 | 66 | 61 | 1,568 | 1,673 |
| 20-29 | 96 | 155 | 37 | 6,712 | 6,485 |
| 30-39 | 54 | 111 | 50 (35) | 3,278 | 3,201 |
| 40-49 | (24) | (15) | (75) | 518 | 460 |
| Previous pregnancy interval in months ⁴ | | | | | |
| First pregnancy | 47 | 81 | 58 | 2,219 | 2,270 |
| <15 15-26 | 19 47 | 29 70 | 71 44 | 674 2,637 | 756 2,686 |
| 27-38 | 33 | 70 76 | 34 | 2,637 3,235 | 2,928 |
| 39+ | 58 | 91 | 45 | 3,311 | 3,179 |
| Residence | | | | -, | 2, |
| Urban | 14 | 57 | 46 | 1,543 | 2,012 |
| Rural | 190 | 290 | 46 | 10,534 | 9,807 |
| Region | | | | -, | -, |
| Tigray | 13 | 26 | 51 | 766 | 1,223 |
| Affar | 1 | 2 | 20 | 122 | 1,135 |
| Amhara | 62 | 87 | 55 | 2,718 | 1,325 |
| Oromiya | 86 | 142 | 45 | 5,100 | 1,791 |
| Somali | 7 3 | 8 5 | 42 | 372 143 | 1,045 |
| Benishangul-Gumuz SNNP | 3 29 | 70 | 58 39 | 2,523 | 1,039 1,633 |
| Gambela | 1 | 1 | 40 | 41 | 861 |
| Harari | 0 | 1 | 40 | 29 | 661 |
| Addis Ababa | (2) | (5) | (30) | 223 | 404 |
| Dire Dawa | 0 | 1 | 23 | 39 | 702 |
| Mother's education | | | | | |
| No education | 150 | 237 | 46 | 8,377 | 8,265 |
| Primary | 47 | 97 | 44 | 3,258 | 2,963 |
| Secondary More than secondary | (3) | (13) | (61) | 269 172 | 392 199 |
| • | | | | 172 | 199 |
| Wealth quintile | 40 | 0.4 | F0 | 0.750 | 2.672 |
| Lowest Second | 49 49 | 94 89 | 52 51 | 2,759 2,708 | 3,673 2,142 |
| Middle | 62 | 53 | 46 | 2,499 | 1,910 |
| Fourth | 29 | 45 | 32 | 2,301 | 1,894 |
| Highest | 15 | 66 | 45 | 1,810 | 2,200 |
| Total | 204 | 347 | 46 | 12,076 | 11,819 |

¹ Stillbirths are foetal deaths in pregnancies lasting seven or more months. Figures in parentheses are based on 250-499 unweighted cases. An asterisk indicates that a figure is based on fewer than 250 unweighted cases and has been suppressed.

Early neonatal deaths are deaths at age 0-6 days among live-born children

The sum of the number of stillbirths and early neonatal deaths divided by the number of pregnancies of

seven or more months' duration, expressed per 1,000 ⁴ Categories correspond to birth intervals of <24 months, 24-35 months, 36-47 months, and 48+ months.

8.6 **HIGH-RISK FERTILITY BEHAVIOUR**

Findings from scientific studies have confirmed a strong relationship between a child's chance of dying and specific fertility behaviours. Typically, the probability of dying in early childhood is much greater for children born to mothers who are young or old, born after a short birth interval, or born to women who have had more than three births. Very young mothers may experience difficult pregnancies and deliveries because of their physical immaturity. Older women may experience age-related problems during pregnancy and delivery. In this analysis a mother is considered to be 'too young' if she is less than age 18 and 'too old' if she is more than age 34 at the time of delivery. A 'short birth interval' characterises a birth occurring within 24 months of a previous birth.

The first column in Table 8.5 shows the percentage of children born in the five years preceding the survey that fall into different categories: 62 percent of births have high mortality risks that are avoidable; 41 percent fall into a single high-risk category, and 22 percent are in a multiple high-risk category. Only 23 percent of births are not in any high-risk category.

Table 8.5 High-risk fertility behaviour

Percent distribution of children born in the five years preceding the survey by category of elevated risk of mortality and the risk ratio, and percent distribution of currently married women by category of risk if they were to conceive a child at the time of the survey, Ethiopia 2011

| | Births in the 5 y the su | | Percentage of currently |
|---|----------------------------------|-----------------------------------|-----------------------------------|
| Risk category | Percentage of births | Risk ratio | married women ¹ |
| Not in any high-risk category | 23.3 | 1.00 | 16.3 ^a |
| Unavoidable risk category First-order births between ages 18 and 34 years | 14.4 | 0.98 | 6.8 |
| Single high-risk category Mother's age <18 Mother's age >34 Birth interval <24 months Birth order >3 | 5.1 0.6 6.4 28.5 | 1.47 1.12 1.34 0.94 | 1.4 3.0 9.1 17.5 |
| Subtotal | 40.6 | 1.07 | 31.0 |
| Multiple high-risk category Age <18 and birth interval <24 months ² Age >34 and birth interval <24 months Age >34 and birth order >3 Age >34 and birth interval <24 months and birth order >3 Birth interval <24 months and birth order >3 | 0.4 0.0 11.7 1.7 8.0 | 3.31 * 1.13 1.66 2.25 | 0.3 0.2 26.8 5.7 12.8 |
| Subtotal | 21.8 | 1.62 | 45.8 |
| In any avoidable high-risk category | 62.4 | 1.26 | 76.8 |
| Total Weighted number of births/women Unweighted number of births/women | 100.0 11,872 11,654 | na na na | 100.0 10,287 10,204 |

Note: The risk ratio is the ratio of the proportion dead among births in a specific high-risk category to the proportion dead among births not in any high-risk category. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = Not applicable

1 Women are assigned to risk categories according to the status they would have at the birth of a child if they were to conceive at the time of the survey: current age less than 17 years and 3 months or older than 34 years and 2 months, latest birth less than 15 months ago, or latest birth being of order 3 or higher.

2 Includes the category age <18 and birth order >3

a Includes sterilised women

The risk ratios displayed in the second column of Table 8.5 denote the relationship between risk factors and mortality. In general, risk ratios are higher for children in a multiple high-risk category than in a single high-risk category. The most vulnerable births are those to women age less than 18 years with a birth interval less than 24 months. These children are more than three times as likely to die as children not in any high-risk category. Fortunately, less than 1 percent of births fall into this category.

The last column of Table 8.5 shows the distribution of currently married women by the risk category into which a birth would fall if conceived at the time of the survey. This column is purely hypothetical and does not take into consideration the protection provided by postpartum insusceptibility, prolonged abstinence, or family planning methods other than sterilisation. However, it provides an insight into the potential magnitude of high-risk births. Overall, 77 percent of currently married women have the potential for having a high-risk birth, with 31 percent falling into a single high-risk category and 46 percent falling into a multiple high-risk category.

Key Findings

- Thirty-four percent of women who gave birth in the five years preceding the survey received antenatal care from a skilled provider, that is, from a doctor, nurse, or midwife, for their most recent birth. This is a marked improvement from 28 percent in 2005.
- One woman in every five (19 percent) made four or more antenatal care visits during the course of her pregnancy, up from 12 percent in 2005. The median duration of pregnancy at the time of the first antenatal visit is 5.2 months.
- About half of mothers (48 percent) had their last live birth protected against neonatal tetanus
- Only 10 percent of births in the past five years were delivered by a skilled provider.
- More than six women in every ten (61 percent) stated that a health facility delivery was not necessary, and three in every ten (30 percent) stated that it was not customary.
- Just 7 percent of women received postnatal care in the first two days after their last delivery in the two years before the survey.
- The most important barrier to access to health services that women mention is taking transport to a facility (71 percent), followed by lack of money (68 percent) and distance to a health facility (66 percent).

he Government of Ethiopia is committed to achieving Millennium Development Goal 5 (MDG5), to improve maternal health, with a target of reducing the maternal mortality ratio (MMR) by three-quarters over the period 1990 to 2015. Accordingly, the Federal Ministry of Health (FMOH) has applied multi-pronged approaches to reducing maternal and newborn morbidity and mortality. Improving access to and strengthening facility-based maternal and newborn services is one such approach, and is also a Health Sector Development Plan (HSDP) strategic objective.

This chapter presents findings from several areas of importance to maternal health, including antenatal, delivery, and postnatal care. The data presented in this chapter provide an opportunity to identify critical issues affecting the health status of Ethiopian women. This information will assist policymakers, planners, and other collaborators in the health sector to formulate appropriate strategies and interventions to provide quality reproductive health services and a series of well-timed interventions to improve maternal health.

9.1 ANTENATAL CARE

The quality of antenatal care (ANC) can be measured by the qualifications of the provider and the number and frequency of ANC visits. Antenatal care quality can also be monitored through the content of services received and the kinds of information given to women during their visits. These services raise awareness of the danger signs during pregnancy, delivery, and the postnatal period. They also improve the health-seeking behaviour of the client, orient the client to birth preparedness issues, and provide basic preventive and therapeutic care. The 2011 EDHS obtained information on ANC coverage from responses of women who had a birth in the five years preceding the survey. For women with two or more live births during the five-year period, the EDHS data refer to the most recent birth only.

9.1.1 Coverage of Antenatal Care

Table 9.1 shows the percent distribution of mothers in the five years preceding the survey by source of antenatal care received during pregnancy, according to selected characteristics of the women. For women who reported receiving antenatal care from more than one provider, only the provider with the highest qualification is considered.

Thirty-four percent of pregnant mothers who gave birth in the five years preceding the survey received antenatal care from a skilled provider, that is, from a doctor, nurse, or midwife, for their most recent birth—28 percent from a nurse or midwife and 5 percent from a doctor. Another 9 percent of women received ANC from a health extension worker (HEW). By comparison, in 2005 28 percent received antenatal care from a skilled provider. This improvement in the last five years is impressive, particularly since between 2000 and 2005 there was hardly any improvement in antenatal coverage.

About six in every ten Ethiopian women (57 percent) did not receive any antenatal care for their last birth in the five years preceding the survey. While this percentage is still substantial, it represents a marked decrease from 2005, when 72 percent did not receive any antenatal care.

Table 9.1 Antenatal care

Percent distribution of women age 15-49 who had a live birth in the five years preceding the survey by antenatal care (ANC) provider during pregnancy for the most recent birth and the percentage receiving antenatal care from a skilled provider for the most recent birth, according to background characteristics, Ethiopia 2011

| Background characteristic | Antenatal care provider | | | | | | | | | Percentage | | |
|---------------------------|-------------------------|-------------------|---------------------------|------|-----------------------------------|--|---------|--------------|---|--------------------------------|---------------------------------------|-------------|
| | Doctor | Nurse/ midwife | Other health worker | HEW | Traditional birth attendant | Voluntary community health worker (VCHW) | Missing | No ANC Total | receiving antenatal care from a skilled provider ¹ | Weighted number of women | Un- weighted number of women | |
| Mother's age | | | | | | | | | | | | |
| at birth | | | | | | | | | | | | |
| <20 | 4.4 | 29.1 | 0.1 | 9.4 | 0.0 | 0.0 | 0.2 | 56.8 | 100.0 | 33.5 | 954 | 1,028 |
| 20-34 | 6.1 | 29.4 | 0.1 | 8.3 | 0.2 | 0.0 | 0.3 | 55.7 | 100.0 | 35.5 | 5,630 | 5,484 |
| 35-49 | 3.2 | 23.8 | 0.0 | 10.2 | 0.0 | 0.2 | 0.2 | 62.4 | 100.0 | 27.0 | 1,324 | 1,252 |
| Birth order | | | | | | | | | | | | |
| 1 | 9.6 | 36.2 | 0.1 | 7.9 | 0.2 | 0.0 | 0.3 | 45.7 | 100.0 | 45.9 | 1,399 | 1,477 |
| 2-3 | 6.5 | 30.6 | 0.0 | 7.0 | 0.1 | 0.0 | 0.4 | 55.4 | 100.0 | 37.0 | 2,462 | 2,419 |
| 4-5 | 4.1 | 29.3 | 0.0 | 9.8 | 0.2 | 0.1 | 0.1 | 56.4 | 100.0 | 33.4 | 1,814 | 1,778 |
| 6+ | 2.6 | 20.4 | 0.2 | 10.3 | 0.0 | 0.1 | 0.2 | 66.3 | 100.0 | 23.2 | 2,233 | 2,090 |
| Residence | | | | | | | | | | | | |
| Urban | 21.1 | 54.9 | 0.0 | 0.8 | 0.1 | 0.0 | 0.1 | 23.0 | 100.0 | 76.0 | 1,188 | 1,513 |
| Rural | 2.6 | 23.7 | 0.1 | 10.1 | 0.1 | 0.1 | 0.3 | 63.0 | 100.0 | 26.4 | 6,720 | 6,251 |
| Region | | | | | | | | | | | -, - | -, - |
| Tigray | 4.3 | 45.6 | 0.1 | 14.4 | 0.0 | 0.0 | 0.5 | 35.0 | 100.0 | 50.1 | 530 | 847 |
| Affar | 11.2 | 21.1 | 0.0 | 2.5 | 0.2 | 0.0 | 0.3 | 64.7 | 100.0 | 32.3 | 78 | 714 |
| Amhara | 2.9 | 30.7 | 0.0 | 7.0 | 0.0 | 0.0 | 0.4 | 59.1 | 100.0 | 33.6 | 1,991 | 965 |
| Oromiya | 5.4 | 25.9 | 0.1 | 7.7 | 0.3 | 0.2 | 0.1 | 60.5 | 100.0 | 31.3 | 3,116 | 1,100 |
| Somali | 7.3 | 14.1 | 0.1 | 3.8 | 0.0 | 0.0 | 0.0 | 74.7 | 100.0 | 21.5 | 198 | 559 |
| Benishangul- | | | | | | | | | | | | |
| Gumuz | 4.6 | 30.0 | 0.4 | 4.3 | 1.1 | 0.2 | 0.4 | 59.0 | 100.0 | 35.1 | 92 | 674 |
| SNNP | 2.1 | 25.2 | 0.0 | 13.3 | 0.0 | 0.0 | 0.2 | 59.2 | 100.0 | 27.3 | 1,634 | 1,053 |
| Gambela | 11.2 | 43.3 | 0.0 | 1.4 | 0.0 | 0.7 | 0.2 | 42.3 | 100.0 | 54.5 | 31 | 608 |
| Harari | 22.6 | 33.0 | 0.3 | 3.6 | 0.0 | 0.0 | 0.0 | 40.5 | 100.0 | 55.9 | 19 | 440 |
| Addis Ababa | 55.1 | 38.6 | 0.0 | 0.7 | 0.0 | 0.0 | 0.2 | 5.4 | 100.0 | 93.6 | 193 | 348 |
| Dire Dawa | 20.7 | 36.5 | 0.0 | 3.7 | 0.0 | 0.0 | 0.4 | 38.7 | 100.0 | 57.2 | 26 | 456 |
| Education | | | | | | | | | | | | |
| No education | 2.4 | 22.6 | 0.1 | 8.8 | 0.1 | 0.1 | 0.3 | 65.7 | 100.0 | 25.1 | 5,270 | 5.184 |
| Primary | 7.6 | 37.9 | 0.0 | 9.5 | 0.1 | 0.0 | 0.1 | 44.6 | 100.0 | 45.5 | 2,270 | 2,095 |
| Secondary | 31.3 | 54.2 | 0.0 | 3.0 | 1.1 | 0.0 | 0.0 | 10.5 | 100.0 | 85.5 | 226 | 312 |
| More than | 00 | J | 0.0 | 0.0 | | 0.0 | 0.0 | | | 00.0 | | ~· - |
| secondary | 38.4 | 52.4 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 6.2 | 100.0 | 90.9 | 142 | 173 |
| Wealth | | | | | | | | | | | | |
| quintile | | | | | | | | | | | | |
| Lowest | 1.0 | 15.9 | 0.0 | 8.1 | 0.0 | 0.0 | 0.4 | 74.4 | 100.0 | 17.0 | 1.739 | 2,279 |
| Second | 1.5 | 22.3 | 0.0 | 10.7 | 0.0 | 0.3 | 0.4 | 64.9 | 100.0 | 23.7 | 1,696 | 1,354 |
| Middle | 2.3 | 24.5 | 0.2 | 10.7 | 0.0 | 0.0 | 0.0 | 62.0 | 100.0 | 27.0 | 1,628 | 1,241 |
| Fourth | 5.1 | 30.2 | 0.0 | 10.9 | 0.4 | 0.0 | 0.5 | 52.8 | 100.0 | 35.4 | 1,493 | 1,229 |
| Highest | 20.0 | 54.9 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 23.2 | 100.0 | 74.9 | 1,351 | 1,661 |
| • | 5.4 | 28.4 | 0.0 | 8.7 | 0.0 | 0.0 | 0.2 | 57.0 | 100.0 | 33.9 | , | , |
| Total | 5.4 | Z8.4 | 0.1 | 8.7 | 0.1 | 0.1 | 0.2 | 57.0 | 100.0 | 33.9 | 7,908 | 7,764 |

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

HEW = Health Extension Worker

Skilled provider includes doctor, nurse, or midwife

Antenatal care from a skilled provider is more common among women age 34 and younger (34-36 percent) than among women age 35-49 (27 percent). Women are almost twice as likely to receive antenatal care from a skilled provider for first births (46 percent) than for birth orders six and higher (23 percent). The relationship is the opposite for women who received antenatal care from a HEW: 10 percent of women with birth orders six or higher received antenatal care from a HEW compared with 8 percent of women pregnant with their first child. The proportion of women who did not receive any antenatal care increases with the child's birth order.

Urban women are almost three times more likely than rural women to receive ANC from a skilled provider. Seventy-six percent of women residing in urban areas received ANC services from a skilled provider for their last birth compared with 26 percent of women in rural areas. Urban women are seven times more likely, at 21 percent, than rural women, at 3 percent, to receive antenatal care from a doctor. Similarly, a higher proportion of urban women (55 percent) received ANC from a nurse or midwife compared with rural women (24 percent). Conversely, 10 percent of rural women received antenatal care from a HEW compared with less than 1 percent of urban woman. There is a direct relationship between a woman's education level and whether she is likely to receive ANC from a skilled provider. For example, 91 percent of women with more than secondary education received ANC from a skilled provider compared with 25 percent of women with no education. Similarly, the proportion of women who received ANC is greatest among those in the highest wealth quintile (75 percent), and decreases with each wealth quintile to a low of 17 percent among women in the lowest wealth quintile.

9.1.2 Number of ANC Visits, Timing of First Visit, and Source Where ANC Was Received

Antenatal care is more beneficial in preventing adverse pregnancy outcomes when received early in the pregnancy and continued through delivery. Early detection of problems in pregnancy leads to more timely referrals for women in high-risk categories or with complications; this is particularly true in Ethiopia, where three-quarters of the population live in rural areas and where physical barriers pose a challenge to providing health care. Under normal circumstances, the World Health Organization (WHO) recommends that a woman without complications should have at least four antenatal care visits, the first of which should take place during the first trimester. Table 9.2 presents information on the number of visits and the timing of the first visit.

Table 9.2 Number of antenatal care visits and timing of first visit

Percent distribution of women age 15-49 who had a live birth in the five years preceding the survey by number of antenatal care (ANC) visits for the most recent live birth, and by the timing of the first visit, and among women with ANC, median months pregnant at first visit, according to residence, Ethiopia 2011

| | Resid | | |
|--|-------|-------|-------|
| Number and timing of ANC visits | Urban | Rural | Total |
| Number of ANC visits | | | |
| None | 23.1 | 63.1 | 57.1 |
| 1 | 2.8 | 4.8 | 4.5 |
| 2-3 | 26.9 | 17.6 | 19.0 |
| 4+ | 45.5 | 14.4 | 19.1 |
| Don't know/missing | 1.8 | 0.1 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of months pregnant at time of first ANC visit | | | |
| No antenatal care | 23.1 | 63.1 | 57.1 |
| <4 | 31.0 | 7.7 | 11.2 |
| 4-5 | 31.5 | 13.8 | 16.5 |
| 6-7 | 11.6 | 12.2 | 12.1 |
| 8+ | 2.3 | 2.9 | 2.8 |
| Don't know/missing | 0.6 | 0.2 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 |
| Weighted number of women | 1,188 | 6,720 | 7,908 |
| Unweighted number of women | 1,513 | 6,251 | 7,764 |
| Median months pregnant at first visit (for those with ANC) | 4.4 | 5.5 | 5.2 |
| Weighted number of women with ANC | 914 | 2,477 | 3,391 |
| Unweighted number of women with ANC | 1,203 | 2,295 | 3,498 |

Nineteen percent of women with a live birth in the five years before the survey made four or more ANC visits during the length of their pregnancy, a marked improvement from 12 percent reported in the 2005 EDHS. Urban women are more likely than rural women to have made four or more visits (46 percent versus 14 percent).

Eleven percent of women made their first ANC visit before the fourth month of pregnancy, an almost two-fold increase from 6 percent in the 2005 EDHS. The median duration of pregnancy at the first visit is 5.2 months, while urban women made the first ANC visit earlier (4.4 months) than rural women (5.5 months).

9.1.3 Components of Antenatal Care

Measuring the components of antenatal care is essential for assessing the quality of ANC services. Pregnancy complications are a primary source of maternal and child morbidity and mortality. Therefore, pregnant women should routinely receive information on the signs of complications and be tested for them at all antenatal care visits. To help assess the quality of antenatal services, respondents were asked whether they had been advised of complications or received certain screening tests during at least one of their antenatal care visits. Table 9.3 shows the percentage of women who took iron tablets or syrup, who took medicine for intestinal parasites, who were informed of the signs of pregnancy complications, and who received selected services during ANC visits for their most recent birth in the last five years.

Among women with a live birth in the five years preceding the survey, 17 percent took iron tablets during their last pregnancy. There are substantial variations by women's background characteristics. Twelve percent of women under age 20 took iron tablets or syrup compared with 18 percent among women age 25-34 and 17 percent among women age 35-49. The usage of iron tablets is much higher among urban women, at 27 percent, than among rural women, at 15 percent. Also, the use of iron tablets increases with levels of education and household wealth. The percentage of women who took iron tablets ranges from 12 percent in Oromiya region to 39 percent in Addis Ababa.

About 6 percent of women took intestinal parasite drugs during their last pregnancy. Use of drugs to control intestinal parasites during pregnancy is least common among women under age 20, rural women, women with no education, and women in households in the lowest and middle wealth quintile. Deworming is part of the ANC in only a few regions. This explains the wide variation in the percentage of women who took intestinal parasite drugs during their last pregnancy from 3 percent in Somali, Dire Dawa, and Affar regions to 12 percent in Gambela.

One in every five women who received ANC reported that they were informed of signs of pregnancy complications during their ANC visit. Women are more likely to be informed of signs of pregnancy complications while pregnant with their first birth compared with pregnancies of birth orders six or higher. A notably higher proportion of urban women (34 percent) than rural women (15 percent) reported that they were informed of signs of pregnancy complications. The proportion ranges from 16 percent of women in Amhara to 49 percent in Addis Ababa. Women with at least a secondary education and those in the highest wealth quintile were more likely to be informed of the signs of pregnancy complications than other women.

Among the various ANC components, 72 percent of women had their blood pressure measured, 54 percent had a blood sample taken, and 41 percent had a urine sample taken. For all three services, women age 20-34, women having their first birth, urban residents, highly educated women, and women in the highest wealth quintiles were more likely than other women to have received each of the specified services.

Table 9.3 Components of antenatal care

Among women age 15-49 with a live birth in the five years preceding the survey, the percentage who took iron tablets and drugs for intestinal parasites during the pregnancy of the most recent birth, and among women receiving antenatal care (ANC) for the most recent live birth in the five years preceding the survey, the percentage receiving specific antenatal services, according to background characteristics, Ethiopia 2011

Among women with a live

| | birth in the years, the p who during th of their la | past five percentage e pregnancy | Weighted number of | Unweighted number of | | n who received int birth in the intage with sel | past five yea | ırs, the | Weighted number of | Unweighted number of |
|---------------------------|--|---|---|---|---|---|--------------------------|--------------------------|---|---|
| Background characteristic | Took iron tablets | Took intestinal parasite drugs | women with a live birth in the past five years | women with a live birth in the past five years | Informed of signs of pregnancy complications | Blood pressure measured | Urine sample taken | Blood sample taken | women with ANC for their most recent birth | women with ANC for their most recent birth |
| Mother's age at birth | | | | | | | | | | |
| <20 20-34 35-49 | 12.0 17.8 17.2 | 4.5 5.5 6.1 | 954 5,630 1,324 | 1,028 5,484 1,252 | 23.4 19.7 19.0 | 64.2 72.8 71.4 | 39.0 43.0 34.2 | 47.6 56.0 49.4 | 412 2,484 495 | 470 2,555 473 |
| Birth order | | 0 | .,02. | .,202 | | | 02 | | .00 | |
| 1 | 18.0 | 5.6 | 1.399 | 1.477 | 28.2 | 76.9 | 54.6 | 64.7 | 759 | 874 |
| 2-3 | 16.7 | 4.6 | 2,462 | 2,419 | 19.4 | 71.3 | 44.5 | 55.8 | 1,093 | 1,181 |
| 4-5 | 17.6 | 6.1 | 1,814 | 1,778 | 17.2 | 71.1 | 37.1 | 49.2 | 790 | 739 |
| 6+ | 16.3 | 5.9 | 2,233 | 2,090 | 15.8 | 67.1 | 27.4 | 45.6 | 749 | 704 |
| Residence | | | | | | | | | | |
| Urban | 27.2 | 8.5 | 1,188 | 1,513 | 33.7 | 83.1 | 74.0 | 79.9 | 914 | 1,203 |
| Rural | 15.2 | 5.0 | 6,720 | 6,251 | 15.0 | 67.3 | 29.2 | 44.5 | 2,477 | 2,295 |
| Region Tigray | 33.6 | 3.9 | 530 | 847 | 27.5 | 86.3 | 48.0 | 66.9 | 342 | 546 |
| Affar | 23.3 | 3.4 | 78 | 714 | 26.5 | 62.4 | 58.2 | 68.2 | 27 | 205 |
| Amhara | 19.0 | 5.6 | 1,991 | 965 | 16.4 | 61.1 | 37.4 | 49.1 | 813 | 371 |
| Oromiya | 11.8 | 5.1 | 3,116 | 1,100 | 16.6 | 70.2 | 37.1 | 48.4 | 1,232 | 438 |
| Somali | 19.9 | 2.9 | 198 | 559 | 31.0 | 68.8 | 56.9 | 62.3 | 50 | 143 |
| Benishangul-Gumuz | 23.3 | 8.9 | 92 | 674 | 26.0 | 65.8 | 37.9 | 51.5 | 38 | 257 |
| SNNP | 15.0 | 6.9 | 1,634 | 1,053 | 17.3 | 72.5 | 31.1 | 48.6 | 663 | 421 |
| Gambela | 27.5 | 12.4 | 31 | 608 | 20.1 | 78.5 | 53.1 | 66.3 | 18 | 267 |
| Harari Addis Ababa | 32.9 38.7 | 4.1 4.3 | 19 193 | 440 348 | 28.5 49.1 | 95.8 96.6 | 82.1 97.8 | 87.3 99.5 | 11 182 | 259 327 |
| Dire Dawa | 36.7 27.8 | 4.3 3.3 | 26 | 456 | 27.4 | 96.6 87.7 | 97.6 79.0 | 99.5 86.2 | 16 | 327 264 |
| | 21.0 | 5.5 | 20 | 430 | 21.4 | 01.1 | 75.0 | 00.2 | 10 | 204 |
| Education No education | 14.8 | 4.2 | 5,270 | 5,184 | 11.6 | 65.5 | 29.3 | 42.7 | 1,800 | 1,791 |
| Primary | 19.1 | 8.1 | 2,270 | 2,095 | 23.9 | 76.0 | 47.9 | 61.4 | 1,256 | 1,256 |
| Secondary | 31.1 | 6.0 | 226 | 312 | 50.4 | 83.7 | 81.2 | 86.1 | 202 | 286 |
| More than secondary | 42.8 | 10.8 | 142 | 173 | 51.5 | 94.1 | 80.3 | 88.2 | 133 | 165 |
| Wealth quintile | | | | | | | | | | |
| Lowest | 13.2 | 3.4 | 1,739 | 2,279 | 10.6 | 63.8 | 19.3 | 36.6 | 438 | 579 |
| Second | 12.6 | 5.1 | 1,696 | 1,354 | 13.9 | 64.2 | 24.3 | 39.8 | 595 | 491 |
| Middle | 15.2 | 3.3 | 1,628 | 1,241 | 11.5 | 63.3 | 28.6 | 40.2 | 618 | 512 |
| Fourth | 17.9 | 7.5 | 1,493 | 1,229 | 17.7 | 70.1 | 36.5 | 52.2 | 704 | 595 |
| Highest | 28.7 | 9.2 | 1,351 | 1,661 | 34.2 | 85.0 | 71.0 | 78.9 | 1,037 | 1,321 |
| Total | 17.0 | 5.5 | 7,908 | 7,764 | 20.0 | 71.6 | 41.3 | 54.0 | 3,391 | 3,498 |

9.1.4 Informed of signs of pregnancy complications during pregnancy

Pregnancy complications are a major health problem among women in developing countries. Table 9.4 presents the specific pregnancy complications that women were informed of during ANC visits.

Among women who were informed of signs of pregnancy complications at an ANC visit for their last live birth, almost half (48 percent) were informed of abdominal pain as a sign of pregnancy complications. More than one-third (36 percent) were informed of severe headache, one-fourth (25 percent) were informed of vaginal bleeding, and about one-fifth (22 percent) were informed of vaginal gush or fluid as signs of pregnancy complications. Fourteen percent of women were informed of fever, and 7 percent were informed of blurred vision as possible signs of pregnancy complications.

Table 9.4 Informed of signs of pregnancy complications

Among women age 15-49 with a live birth in the five years preceding the survey who were informed of signs of pregnancy complications at an antenatal care visit for their last birth, the percentage who were informed of specific pregnancy complications, according to background characteristics, Ethiopia 2011

| Background characteristic | Vaginal bleeding | Vaginal gush or fluid | Severe headache | Blurred vision | Fever | Abdominal pain | Other | Weighted number of women | Unweighted number of women |
|---------------------------|---------------------|-----------------------------|--------------------|-------------------|--------------|----------------|--------------|--------------------------------|----------------------------------|
| Age | | | | | | | | | |
| 15-19 | (18.1) | (11.7) | (45.9) | (3.8) | (18.8) | (51.8) | (30.8) | 46 | 44 |
| 20-34 | 27.4 | 23.8 | 32.4 | 7.0 | 12.7 | 49.1 | 15.0 | 476 | 635 |
| 35-49 | 21.6 | 19.9 | 43.5 | 5.7 | 15.9 | 44.8 | 16.5 | 157 | 168 |
| Residence | 00.4 | 07.0 | 00.4 | | 0.0 | 44.0 | 47.5 | 000 | 450 |
| Urban Rural | 30.4 21.2 | 27.0 | 36.1 | 7.7 5.4 | 8.9 18.0 | 44.0 | 17.5 | 308 | 456 |
| | 21.2 | 18.0 | 35.7 | 5.4 | 16.0 | 51.8 | 15.5 | 371 | 391 |
| Region | 45.7 | 07.0 | 40.7 | 0.0 | 4.0 | 54.0 | 40.0 | 0.4 | 444 |
| Tigray Affar | 45.7 27.3 | 27.9 24.0 | 16.7 49.6 | 8.3 14.5 | 4.2 32.7 | 51.6 45.2 | 16.0 9.5 | 94 7 | 144 51 |
| Amhara | 15.8 | 29.3 | 34.0 | 4.4 | 13.9 | 62.7 | 9.5 16.7 | 133 | 60 |
| Oromiya | 12.2 | 9.2 | 46.7 | 2.8 | 23.5 | 46.7 | 19.6 | 205 | 72 |
| Somali | (36.7) | (16.1) | (62.9) | (23.6) | (19.1) | (34.1) | (10.3) | 15 | 42 |
| Benishangul-Gumuz | 28.3 | 41.4 | 22.3 | 5.1 | 18.1 | 41.3 | 16.7 | 10 | 65 |
| SNNP | 34.8 | 23.1 | 34.8 | 11.7 | 5.7 | 49.8 | 13.9 | 115 | 67 |
| Gambela | (21.3) | (14.4) | (16.4) | (4.7) | (16.9) | (32.5) | (29.9) | 4 | 44 |
| Harari | 20.3 | 21.0 | 33.0 | 3.7 | 19.2 | 24.0 | 34.2 | 3 | 73 |
| Addis Ababa | 34.5 | 32.9 | 31.4 | 6.2 | 8.1 | 29.8 | 13.1 | 89 | 160 |
| Dire Dawa | 24.4 | 9.6 | 42.9 | 1.6 | 31.3 | 54.1 | 11.0 | 4 | 69 |
| Education | 40.0 | 00.0 | 05.0 | 0.4 | 45.4 | F7.4 | 440 | 000 | 000 |
| No education | 19.2 24.1 | 22.6 | 35.9 36.7 | 6.4 | 15.1 17.7 | 57.1 47.0 | 14.0 | 209 | 290 |
| Primary Secondary | 32.8 | 19.3 18.1 | 36.7 43.5 | 5.9 8.6 | 4.4 | 47.0 41.3 | 13.9 22.7 | 300 102 | 332 140 |
| More than secondary | 38.6 | 38.4 | 21.0 | 5.8 | 7.3 | 37.6 | 25.6 | 69 | 85 |
| Wealth quintile | 00.0 | 00.1 | 21.0 | 0.0 | 7.0 | 07.0 | 20.0 | 00 | 00 |
| Lowest | 24.3 | 23.7 | 37.6 | 7.6 | 13.9 | 65.4 | 9.8 | 46 | 82 |
| Second | 14.9 | 15.6 | 34.5 | 7.7 | 20.0 | 54.2 | 12.5 | 82 | 76 |
| Middle | 18.4 | 16.5 | 26.7 | 4.0 | 14.1 | 62.3 | 21.4 | 71 | 70 |
| Fourth | 23.0 | 23.2 | 35.6 | 3.6 | 21.1 | 42.9 | 15.5 | 125 | 131 |
| Highest | 30.3 | 24.1 | 37.9 | 7.5 | 9.8 | 43.7 | 17.5 | 355 | 488 |
| Total | 25.4 | 22.1 | 35.9 | 6.5 | 13.9 | 48.3 | 16.4 | 679 | 847 |

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

9.2 TETANUS TOXOID INJECTIONS

Neonatal tetanus is a leading cause of neonatal deaths in Ethiopia and other developing countries where a high proportion of deliveries are conducted at home or in other places where hygienic conditions do not exist. Tetanus toxoid (TT) immunisation is given to pregnant women to prevent neonatal tetanus. If a woman has received no previous TT injections, she needs two doses of TT during pregnancy for full protection. However, if a woman was immunised before she became pregnant, she may require one injection or not require any TT injections during pregnancy, depending on the number of injections she has already received and the timing of the last injection. For a woman to have lifetime protection, a total of five doses are required.

To assess the status of tetanus vaccination coverage, women who gave birth during the five years before the survey were asked if they had received tetanus toxoid injections during the pregnancy for their most recent birth, and if so, how many. Women who did not receive two or more tetanus

toxoid vaccinations during this pregnancy were then asked about tetanus toxoid vaccinations they may have received prior to this pregnancy. Table 9.5 presents the results.

Thirty-four percent of women with a birth in the five years preceding the survey received two or more tetanus toxoid injections during their last pregnancy, and 48 percent of mothers were protected for their last birth. In the 2011 EDHS mothers age 20-34 were more likely (35 percent) to have received two or more tetanus injections during their last pregnancy than mothers under age 20 or 35-49 (both 30 percent). Mothers in Addis Ababa were most likely to have received two or more tetanus toxoid injections (72 percent) and to have had their last birth protected against neonatal tetanus (82 percent), while mothers in Affar were least likely (22 and 27 percent, respectively).

Education and wealth have a positive effect on whether women receive tetanus toxoid injections. For example, 62 percent of mothers with more than secondary education received at least two injections during their last pregnancy compared with 29 percent of mothers with no education. Also, 52 percent of mothers in the highest wealth quintile received at least two doses of tetanus toxoid injection compared with 24 percent of mothers in the lowest wealth quintile. The pattern is similar for protection against neonatal tetanus.

Table 9.5 Tetanus toxoid injections

Among mothers age 15-49 with a live birth in the five years preceding the survey, the percentage receiving two or more tetanus toxoid injections (TTI) during the pregnancy for the last live birth and the percentage whose last live birth was protected against neonatal tetanus, according to background characteristics, Ethiopia 2011

| Background characteristic | Percentage receiving two or more injections during last pregnancy | Percentage whose last birth was protected against neonatal tetanus ¹ | Weighted number of mothers | Unweighted number of mothers |
|---------------------------|---|---|----------------------------------|------------------------------|
| Mother's age at birth | | | | |
| <20 | 29.7 | 43.0 | 954 | 1,028 |
| 20-34 | 35.4 | 49.8 | 5,630 | 5,484 |
| 35-49 | 29.6 | 45.7 | 1,324 | 1,252 |
| Birth order | | | | |
| 1 | 35.5 | 49.5 | 1,399 | 1,477 |
| 2-3 | 35.3 | 49.2 | 2,462 | 2,419 |
| 4-5 | 34.1 | 49.7 | 1,814 | 1,778 |
| _6+ | 30.8 | 45.4 | 2,233 | 2,090 |
| Residence | 50.0 | 07.5 | 4.400 | 4.540 |
| Urban | 52.0 | 67.5 | 1,188 | 1,513 |
| Rural | 30.5 | 44.9 | 6,720 | 6,251 |
| R <u>eg</u> ion | 24.2 | 00.0 | 500 | 0.47 |
| Tigray | 31.8 | 68.0 | 530 | 847 |
| Affar | 22.1 29.1 | 26.7 43.2 | 78 4 004 | 714 |
| Amhara Oromiya | 32.9 | 45.2 45.9 | 1,991 3,116 | 965 1,100 |
| Somali | 32.9 28.1 | 33.7 | 198 | 559 |
| Benishangul-Gumuz | 33.8 | 48.1 | 92 | 674 |
| SNNP | 37.7 | 50.8 | 1,634 | 1,053 |
| Gambela | 49.0 | 58.4 | 31 | 608 |
| Harari | 56.6 | 69.5 | 19 | 440 |
| Addis Ababa | 72.3 | 82.3 | 193 | 348 |
| Dire Dawa | 51.1 | 58.7 | 26 | 456 |
| Education | | | | |
| No education | 28.7 | 40.8 | 5,270 | 5,184 |
| Primary | 41.8 | 60.5 | 2,270 | 2,095 |
| Secondary | 54.8 | 78.1 | 226 | 312 |
| More than secondary | 61.7 | 82.5 | 142 | 173 |
| Wealth quintile | | | | |
| Lowest | 23.9 | 36.6 | 1,739 | 2,279 |
| Second | 29.6 | 43.2 | 1,696 | 1,354 |
| Middle | 30.8 | 45.7 | 1,628 | 1,241 |
| Fourth | 36.6 | 51.9 | 1,493 | 1,229 |
| Highest | 52.3 | 68.8 | 1,351 | 1,661 |
| Total | 33.8 | 48.3 | 7,908 | 7,764 |

Includes mothers with two injections during the pregnancy of her last birth, or two or more injections (the last within 3 years of the last live birth), or three or more injections (the last within 5 years of the last birth), or four or more injections (the last within 10 years of the last live birth), or five or more injections at any time prior to the last birth.

9.3 PLACE OF DELIVERY

Proper medical attention and hygienic conditions during delivery can reduce the risk of complications and infections that can cause the death or serious illness of the mother and/or the newborn baby. An important component of efforts to reduce health risks to mothers and children is increasing the proportion of babies that are delivered in health facilities. Table 9.6 presents the percent distribution of all live births in the five years preceding the survey by place of delivery.

Ten percent of births in Ethiopia are delivered at a health facility—9 percent in a public facility and 1 percent in a private facility. Nine women in every ten deliver at home. The percentage of deliveries in a health facility doubled from 5 percent the 2005 EDHS, while home deliveries decreased slightly from 94 percent to the current level of 90 percent. First births are much more likely than births orders six or higher to be delivered in a health facility (21 percent versus 4 percent). Delivery in a health facility is more common among births to mothers age 20-34, births to mothers who had at least four ANC visits, and births to highly educated mothers and mothers in the highest wealth quintiles. Urban births are notably more likely than rural births to be delivered in a health facility (50 percent versus 4 percent). The percentage of births delivered in health facility ranges from less than 10 percent in SNNP, Affar, Oromiya, Somalia, and Benishangul-Gumuz regions to 82 percent in Addis Ababa.

| Table 9.6 Place of delivery | | | | |
|---|---|--------------------|---------------|-----------------------|
| Percent distribution of live births in the five years preceding | | lace of delivery a | nd percentage | delivered in a health |
| facility according to background characteristics. Ethiopia 201 | 1 | | | |

| | Health | facility | | | | | Percentage | Mojabtod | Llowoightad |
|---|--|--|--|--|---|--|---|--|---|
| Background characteristic | Public sector | Private sector | Home | Other | Missing | Total | delivered in a health facility | Weighted number of births | Unweighted number of births |
| Mother's age at birth <20 20-34 | 8.9 9.2 | 0.7 1.5 | 89.1 88.9 | 0.8 0.4 | 0.4 0.0 | 100.0 100.0 | 9.6 10.7 | 1,538 8,663 | 1,647 8,425 |
| 35-49 Birth order | 6.1 | 0.3 | 93.3 | 0.1 | 0.2 | 100.0 | 6.4 | 1,672 | 1,582 |
| 1 2-3 4-5 6+ | 18.6 9.4 5.7 3.5 | 2.4 1.7 0.3 0.5 | 77.9 88.4 93.6 95.5 | 0.8 0.4 0.3 0.2 | 0.3 0.0 0.0 0.2 | 100.0 100.0 100.0 100.0 | 21.0 11.1 6.1 4.1 | 2,262 3,694 2,728 3,188 | 2,303 3,717 2,678 2,956 |
| Antenatal care visits ¹ None 1-3 4+ | 2.8 13.1 29.2 | 0.2 1.3 5.1 | 96.6 85.3 65.1 | 0.3 0.3 0.5 | 0.1 0.0 0.0 | 100.0 100.0 100.0 | 3.0 14.4 34.4 | 4,517 1,856 1,508 | 4,266 1,766 1,705 |
| Residence Urban Rural | 43.1 3.7 | 6.7 0.4 | 49.9 95.4 | 0.2 0.5 | 0.1 0.1 | 100.0 100.0 | 49.8 4.1 | 1,528 10,344 | 1,986 9,668 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 10.8 6.6 9.6 7.0 6.5 7.9 5.6 23.4 27.5 62.3 34.4 | 0.8 0.3 0.6 1.0 1.1 1.2 0.7 4.1 4.9 20.1 5.3 | 87.8 92.8 89.3 91.5 92.4 81.9 93.5 71.6 67.3 17.2 60.0 | 0.5 0.2 0.4 0.4 0.0 8.7 0.1 0.4 0.3 0.0 | 0.0 0.1 0.1 0.0 0.3 0.2 0.4 0.0 0.5 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 11.6 6.8 10.2 8.0 7.6 9.1 6.2 27.5 32.4 82.3 39.7 | 753 121 2,656 5,014 364 140 2,494 40 29 222 39 | 1,202 1,130 1,294 1,761 1,027 1,020 1,614 851 659 400 696 |
| Mother's education No education Primary Secondary More than secondary | 4.4 13.4 54.3 58.2 | 0.3 1.5 15.3 17.3 | 94.7 84.6 29.4 23.0 | 0.4 0.3 0.8 1.5 | 0.1 0.1 0.2 0.0 | 100.0 100.0 100.0 100.0 | 4.7 14.9 69.6 75.5 | 8,227 3,211 266 168 | 8,142 2,930 386 196 |
| Wealth quintile Lowest Second Middle Fourth Highest Total | 2.0 3.1 2.9 6.0 38.5 8.7 | 0.0 0.1 0.2 0.8 6.5 | 97.3 96.2 96.2 92.7 54.7 89.5 | 0.5 0.3 0.6 0.3 0.3 | 0.1 0.3 0.1 0.1 0.1 | 100.0 100.0 100.0 100.0 100.0 100.0 | 2.0 3.2 3.1 6.9 45.0 9.9 | 2,710 2,658 2,437 2,272 1,795 11,872 | 3,625 2,114 1,872 1,870 2,173 11,654 |

Note: Total includes 27 cases with missing information on ANC visits.

¹ Includes only the most recent birth in the 5 years preceding the survey

9.4 Assistance During Delivery

The type of assistance a woman receives during childbirth has important health consequences for both mother and child. In addition, the proportion of births attended by skilled providers is a measure of the health system's effectiveness, accessibility, and quality of care. Delivery assisted by skilled providers is the most important proven intervention in reducing maternal mortality and one of the MDG indicators to track national effort towards safe motherhood.

Table 9.7 shows the percent distribution of births in the five years preceding the survey by type of assistance during delivery, according to women's background characteristics. Ten percent of births were assisted by a skilled provider—4 percent by a doctor and 7 percent by a nurse or midwife. Less than 1 percent of births were assisted by a HEW, and 57 percent of births were assisted by a relative, or some other person. Twenty-eight percent of births were assisted by a traditional birth attendant, while 4 percent of births were unattended. Skilled assistance at delivery increased from 6 percent to 10 percent in the last six years.

Skilled providers were most likely to attend births to mothers age 20-34 (11 percent) and first-order births (21 percent). Not surprisingly, skilled providers attended an overwhelming majority of births delivered in a health facility compared with births delivered elsewhere. Also, skilled providers attended 51 percent of births in urban areas compared with 4 percent of births in rural areas. Conversely, in rural areas the most common birth attendant was a relative or other person. Regional differences in delivery assistance are large. The proportion of births assisted by a skilled provider ranged from 6 percent in the SNNP region to 84 percent in Addis Ababa. Highly educated mothers were most likely to have their births assisted by a skilled provider (74 percent), as were mothers in the highest wealth quintile (46 percent).

Less than 2 percent of births were delivered by caesarean section. C-sections were most likely to take place in a health facility, in urban areas, among highly educated mothers, and in the wealthiest quintiles.

Table 9.7 Assistance during delivery

Percent distribution of live births in the five years preceding the survey by person providing assistance during delivery, percentage of birth assisted by a skilled provider and percentage delivered by caesarean section, according to background characteristics, Ethiopia 2011

| · | | | Person | providing assis | stance durin | g delivery | | | | | | | |
|------------------------------|-------------|-------------------|------------|-----------------------------------|--|--------------------|------------|------------|----------------|---|---|-----------------|--|
| Background characteristic | Doctor | Nurse/ midwife | HEW | Traditional birth attendant | Voluntary community health worker (VCHW) | Relative/ Other | No one | Missing | Total | Per- centage delivered by a skilled provider ¹ | Per- centage delivered by C-section | | Un- weighted number of births |
| | Doctor | mawne | 11000 | atteriuarit | (۷011۷۷) | Other | OHE | Wilsonig | Total | provider | 0-36011011 | Dirtiis | Dirtiis |
| Mother's age at birth | | | | | | | | | | | | | |
| <20 | 2.6 | 7.0 | 1.1 | 30.7 | 0.1 | 54.7 | 3.4 | 0.4 | 100.0 | 9.6 | 1.3 | 1,538 | 1,647 |
| 20-34 | 4.0 | 6.9 | 0.7 | 28.0 | 0.2 | 56.5 | 3.5 | 0.1 | 100.0 | 10.9 | 1.6 | 8,663 | 8,425 |
| 35-49 | 1.6 | 4.3 | 0.7 | 28.4 | 0.4 | 58.8 | 5.6 | 0.2 | 100.0 | 5.9 | 1.3 | 1,672 | 1,582 |
| Birth order | 8.6 | 10.1 | 1.3 | 27.4 | 0.2 | 47.6 | 2.5 | 0.3 | 100.0 | 20.0 | 4.2 | 2 262 | 2 202 |
| 1 2-3 | 3.7 | 12.1 7.9 | 0.7 | 27.4 27.4 | 0.2 0.3 | 47.6 56.9 | 3.0 | 0.3 | 100.0 | 20.8 11.7 | 1.3 | 2,262 3,694 | 2,303 3,717 |
| 4-5 | 1.8 | 4.3 | 0.9 | 28.1 | 0.4 | 61.0 | 3.3 | 0.1 | 100.0 | 6.1 | 0.9 | 2,728 | 2,678 |
| 6+ | 1.0 | 2.8 | 0.4 | 30.6 | 0.1 | 58.9 | 5.9 | 0.2 | 100.0 | 3.9 | 0.3 | 3,188 | 2,956 |
| Place of | | | | | | | | | | | | | |
| delivery | | | | | | | | | | | | | |
| Health facility Elsewhere | 34.6 0.0 | 62.2 0.4 | 2.2 0.6 | 0.6 31.5 | 0.1 0.3 | 0.4 62.9 | 0.0 4.2 | 0.0 0.0 | 100.0 100.0 | 96.7 0.4 | 14.9 0.0 | 1,181 10,678 | 1,571 10,063 |
| | 0.0 | 0.4 | 0.0 | 31.3 | 0.3 | 02.9 | 4.2 | 0.0 | 100.0 | 0.4 | 0.0 | 10,070 | 10,003 |
| Residence Urban | 19.8 | 30.9 | 0.8 | 21.9 | 0.4 | 25.0 | 1.1 | 0.0 | 100.0 | 50.8 | 8.1 | 1,528 | 1,986 |
| Rural | 1.1 | 2.9 | 0.8 | 29.4 | 0.4 | 61.3 | 4.2 | 0.0 | 100.0 | 4.0 | 0.5 | 10,344 | 9,668 |
| Region | | | • • • | | | | | | | | | , | -, |
| Tigray | 2.6 | 9.0 | 0.9 | 12.5 | 0.3 | 74.1 | 0.6 | 0.0 | 100.0 | 11.6 | 2.9 | 753 | 1,202 |
| Affar | 2.8 | 4.2 | 0.0 | 75.9 | 0.1 | 16.5 | 0.2 | 0.1 | 100.0 | 7.2 | 2.0 | 121 | 1,130 |
| Amhara | 2.5 | 7.6 | 0.4 | 28.5 | 0.1 | 59.5 | 1.2 | 0.2 | 100.0 | 10.1 | 1.3 | 2,656 | 1,294 |
| Oromiya Somali | 2.2 3.5 | 6.0 4.7 | 0.8 0.0 | 33.7 81.2 | 0.1 0.0 | 52.3 9.9 | 4.9 0.5 | 0.1 0.0 | 100.0 100.0 | 8.1 8.4 | 0.5 0.7 | 5,014 364 | 1,761 1,027 |
| Benishangul- | 3.3 | 4.7 | 0.0 | 01.2 | 0.0 | 3.3 | 0.5 | 0.0 | 100.0 | 0.4 | 0.7 | 304 | 1,021 |
| Gumuz | 1.9 | 7.0 | 1.3 | 27.9 | 0.0 | 39.5 | 22.0 | 0.5 | 100.0 | 8.9 | 1.3 | 140 | 1,020 |
| SNNP | 1.9 | 4.1 | 1.2 | 14.2 | 0.8 | 72.5 | 5.1 | 0.1 | 100.0 | 6.1 | 1.2 | 2,494 | 1,614 |
| Gambela Harari | 8.1 16.4 | 18.9 16.2 | 0.5 0.2 | 12.1 63.0 | 0.3 0.0 | 53.0 1.7 | 6.4 2.6 | 0.4 0.0 | 100.0 100.0 | 27.4 32.5 | 8.7 7.0 | 40 29 | 851 659 |
| Addis Ababa | 60.4 | 23.5 | 0.2 | 5.9 | 0.0 | 8.4 | 1.5 | 0.0 | 100.0 | 83.9 | 21.8 | 222 | 400 |
| Dire Dawa | 17.7 | 22.6 | 0.2 | 49.7 | 0.2 | 7.0 | 2.1 | 0.5 | 100.0 | 40.3 | 6.2 | 39 | 696 |
| Mother's | | | | | | | | | | | | | |
| education | 4.0 | 0.4 | 0.7 | 00.5 | 0.0 | 00.0 | 4.4 | 0.0 | 400.0 | 4.0 | 0.4 | 0.007 | 0.440 |
| No education Primary | 1.2 5.6 | 3.4 9.7 | 0.7 1.0 | 29.5 27.9 | 0.2 0.2 | 60.8 52.0 | 4.1 3.5 | 0.2 0.1 | 100.0 100.0 | 4.6 15.4 | 0.4 2.4 | 8,227 3,211 | 8,142 2,930 |
| Secondary | 30.6 | 41.5 | 0.1 | 13.8 | 0.2 | 13.3 | 0.5 | 0.0 | 100.0 | 72.4 | 14.6 | 266 | 386 |
| More than | | | | | | | | | | | | | |
| secondary | 29.6 | 44.4 | 3.4 | 11.0 | 1.5 | 8.5 | 1.5 | 0.0 | 100.0 | 74.1 | 13.7 | 168 | 196 |
| Wealth quintile | | | | | | | | | | | | | |
| Lowest | 0.5 | 1.2 | 0.4 | 27.9 | 0.3 | 65.7 | 3.9 | 0.1 | 100.0 | 1.7 | 0.1 | 2,710 | 3,625 |
| Second Middle | 0.7 0.8 | 2.2 2.4 | 0.9 0.9 | 29.2 30.4 | 0.3 0.2 | 62.1 61.8 | 4.2 3.3 | 0.3 0.2 | 100.0 100.0 | 2.9 3.2 | 0.6 0.6 | 2,658 2,437 | 2,114 1,872 |
| Fourth | 1.8 | 5.6 | 1.1 | 32.0 | 0.1 | 55.2 | 4.2 | 0.0 | 100.0 | 7.4 | 0.5 | 2,272 | 1,870 |
| Highest | 17.7 | 27.9 | 0.6 | 20.6 | 0.4 | 29.6 | 3.0 | 0.0 | 100.0 | 45.6 | 7.2 | 1,795 | 2,173 |
| Total | 3.5 | 6.5 | 8.0 | 28.4 | 0.2 | 56.6 | 3.8 | 0.1 | 100.0 | 10.0 | 1.5 | 11,872 | 11,654 |

Note: If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this tabulation. Total includes 14 cases with missing information on place of delivery. HEW = Health Extension Worker

9.5 REASONS FOR NOT DELIVERING IN A HEALTH FACILITY

Women who did not deliver at a health facility were asked the reasons they did not deliver in a health facility. Table 9.8 shows that more than six women in ten (61 percent) stated that a health facility delivery was not necessary, and three in every ten (30 percent) stated that it was not customary. Fourteen percent of women said that the health facility was either too far or that they did not have transportation. Rural woman were more likely than urban women to report that health facility deliveries are not customary, at 31 percent versus 17 percent, or that health facilities were too far or they had no transportation, at 15 percent versus 8 percent.

Skilled provider includes doctor, nurse, and midwife.

Table 9.8 Reasons for not delivering in a health facility

Percent distribution of last live births in the two years preceding the survey by reason for not delivering in a health facility, according to background characteristics, Ethiopia 2011

| Background characteristic | Cost too much | Facility not open | Too far/no transportation | Poor quality service | No female provider | Husband/ family did not allow | Not necessary | Not customary | Other | Weighted number of women | Unweighted number of women |
|---------------------------|---------------|-------------------|---------------------------|----------------------|--------------------|-------------------------------------|---------------|---------------|--------|--------------------------------|----------------------------|
| Age | | | | | | | | | | | |
| < 20 | 1.7 | 1.8 | 12.4 | 0.3 | 0.1 | 1.8 | 56.3 | 37.6 | 3.7 | 361 | 359 |
| 20-34 | 2.0 | 1.0 | 14.7 | 0.4 | 0.3 | 1.1 | 61.7 | 28.7 | 4.9 | 4,736 | 4,380 |
| 35-49 | 2.6 | 0.3 | 14.2 | 0.9 | 0.4 | 1.6 | 60.8 | 30.1 | 3.8 | 1,883 | 1,759 |
| Residence | | | | | | | | | | | |
| Urban | 4.7 | 1.4 | 7.7 | 1.0 | 0.2 | 2.9 | 65.7 | 16.5 | 7.8 | 560 | 569 |
| Rural | 1.9 | 0.8 | 15.0 | 0.5 | 0.4 | 1.1 | 60.8 | 30.7 | 4.2 | 6,420 | 5,929 |
| Region | | | | | | | | | | | |
| Tigray | 0.9 | 8.0 | 9.0 | 1.1 | 0.1 | 0.2 | 77.0 | 16.4 | 2.9 | 457 | 744 |
| Affar | 13.2 | 3.4 | 41.3 | 0.4 | 1.1 | 5.0 | 45.6 | 41.2 | 1.2 | 72 | 673 |
| Amhara | 2.1 | 0.5 | 10.4 | 0.5 | 0.5 | 1.0 | 56.3 | 35.9 | 5.9 | 1,774 | 880 |
| Oromiya | 2.3 | 1.2 | 18.2 | 0.6 | 0.1 | 1.6 | 63.6 | 28.9 | 4.0 | 2,830 | 996 |
| Somali | 9.0 | 1.4 | 35.9 | 1.5 | 2.7 | 2.0 | 23.1 | 35.6 | 5.0 | 179 | 509 |
| Benishangul-Gumuz | 2.6 | 2.9 | 22.1 | 0.5 | 0.3 | 7.9 | 31.3 | 41.4 | 5.6 | 82 | 620 |
| SNNP | 1.0 | 0.3 | 9.2 | 0.3 | 0.4 | 0.5 | 64.8 | 26.0 | 4.0 | 1,504 | 984 |
| Gambela | 2.8 | 3.6 | 26.8 | 0.2 | 0.3 | 2.7 | 42.4 | 14.5 | 14.4 | 22 | 495 |
| Harari | 2.0 | 0.0 | 3.8 | 8.0 | 0.0 | 0.3 | 83.1 | 20.6 | 3.7 | 12 | 275 |
| Addis Ababa | 3.3 | 0.0 | 17.6 | 1.0 | 0.0 | 0.0 | 60.2 | 8.3 | 12.8 | 35 | 60 |
| Dire Dawa | 8.1 | 1.1 | 16.9 | 0.8 | 0.8 | 0.6 | 51.6 | 27.4 | 9.1 | 14 | 262 |
| Education | | | | | | | | | | | |
| No education | 2.4 | 0.7 | 15.3 | 0.5 | 0.4 | 1.1 | 58.4 | 31.8 | 4.3 | 5,015 | 4,824 |
| Primary | 1.5 | 1.2 | 12.4 | 0.7 | 0.2 | 1.4 | 67.5 | 24.1 | 5.0 | 1,865 | 1,572 |
| Secondary | 0.3 | 0.3 | 4.6 | 0.0 | 0.0 | 4.8 | 80.5 | 21.9 | 3.6 | 66 | 77 |
| More than secondary | (0.4) | (0.0) | (8.3) | (0.0) | (0.0) | (0.0) | (83.9) | (9.6) | (10.4) | 35 | 25 |
| Wealth quintile | | | | | | | | | | | |
| Lowest | 2.8 | 0.2 | 17.0 | 0.4 | 0.2 | 8.0 | 55.3 | 34.4 | 4.3 | 1,696 | 2,194 |
| Second | 1.2 | 1.1 | 13.7 | 0.8 | 0.6 | 1.3 | 62.6 | 30.0 | 3.0 | 1,640 | 1,299 |
| Middle | 2.2 | 0.9 | 16.0 | 0.4 | 0.5 | 0.7 | 60.2 | 30.1 | 6.0 | 1,574 | 1,192 |
| Fourth | 2.1 | 1.1 | 13.0 | 0.2 | 0.3 | 1.7 | 63.4 | 28.0 | 3.9 | 1,382 | 1,118 |
| Highest | 2.6 | 1.2 | 9.2 | 1.1 | 0.2 | 2.2 | 69.9 | 17.8 | 6.5 | 689 | 695 |
| Total | 2.2 | 0.8 | 14.4 | 0.5 | 0.3 | 1.2 | 61.2 | 29.5 | 4.5 | 6,980 | 6,498 |

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

9.6 Postnatal Care

A large proportion of maternal and neonatal deaths occur during the 48 hours after delivery, and these first two days following delivery are critical for monitoring complications arising from the delivery. Thus, postnatal care is important for both the mother and the child not only to treat complications arising from the delivery, but also to provide the mother with important information on how to care for herself and her child. Safe motherhood programmes have recently increased emphasis on the importance of postnatal care, recommending that all women receive a health checkup within two days of delivery. To assess the extent of postnatal care utilization, the 2011 EDHS asked respondents whether they had received a health checkup after the delivery, the timing of the first check, and the type of health provider for their last birth in the two years preceding the survey. Table 9.9 presents this information by women's background characteristics.

The level of postnatal care coverage is extremely low in Ethiopia. The great majority of women (92 percent) with a live birth in the preceding five years did not receive a postnatal checkup. Among women who received a postnatal checkup, 4 percent were examined within 4 hours of delivery, 2 percent within 4-23 hours, 1 percent within 1-2 days, and 2 percent within 3-41 days of delivery. In total, 7 percent of women received postnatal care within two days, as recommended.

Table 9.9 Timing of first postnatal checkup for the mother

Among women age 15-49 giving birth in the two years preceding the survey, the percent distribution of the mother's first postnatal check-up for the last live birth by time after delivery, and the percentage of women with a live birth in the two years preceding the survey who received a postnatal checkup in the first two days after giving birth, according to background characteristics, Ethiopia 2011

| | Time | e after deli | very of moth | er's first po | stnatal chec | kup | | | Percentage | | |
|---|----------------------|---------------------|-------------------|-------------------|-------------------|---------------------------|---|-------------------------|---|--------------------------------|----------------------------------|
| Background characteristic | Less than 4 hours | 4-23 hours | 1-2 days | 3-6 days | 7-41 days | Don't know/ missing | No postnatal checkup ¹ | Total | of women with a postnatal checkup in the first two days after birth | Weighted number of women | Unweighted number of women |
| Mother's age at birth | 4.2 | 0.5 | 0.9 | 0.1 | 1.7 | 0.1 | 92.4 | 100.0 | 5.6 | 557 | 574 |
| 20-34 35-49 | 4.3 1.9 | 2.4 2.0 | 0.7 0.5 | 0.2 0.0 | 1.4 1.2 | 0.2 0.1 | 90.8 94.3 | 100.0 100.0 | 7.4 4.3 | 3,198 697 | 3,092 618 |
| Birth order | | | | | | | | | | | |
| 1 2-3 4-5 | 9.5 4.0 2.5 | 4.1 2.2 0.9 | 1.3 0.7 0.4 | 0.3 0.2 0.2 | 1.4 1.0 1.4 | 0.3 0.3 0.0 | 83.1 91.5 94.6 | 100.0 100.0 100.0 | 14.9 6.9 3.8 | 800 1,449 1,008 | 809 1,390 992 |
| 6+ | 1.3 | 1.6 | 0.5 | 0.0 | 1.9 | 0.0 | 94.6 | 100.0 | 3.4 | 1,195 | 1,093 |
| Place of delivery Health facility Elsewhere | 31.6 0.3 | 14.5 0.5 | 4.3 0.2 | 0.9 0.1 | 1.6 1.4 | 1.3 0.0 | 45.8 97.5 | 100.0 100.0 | 50.4 0.9 | 517 3,936 | 653 3,631 |
| Residence Urban Rural | 21.7 1.1 | 9.0 1.0 | 1.4 0.6 | 0.5 0.1 | 1.9 1.3 | 0.6 0.1 | 64.9 95.7 | 100.0 100.0 | 32.1 2.7 | 607 3,846 | 751 3,533 |
| Region | | | | | | | | | | | |
| Tigray Affar | 8.0 2.2 | 4.4 1.0 | 0.7 2.8 | 0.4 0.8 | 2.8 3.0 | 0.4 1.1 | 83.3 89.2 | 100.0 100.0 | 13.1 6.0 | 273 40 | 434 378 |
| Amhara Oromiya Somali | 3.5 2.9 1.8 | 1.2 1.6 2.3 | 0.4 0.5 1.3 | 0.2 0.0 0.6 | 1.7 1.1 1.4 | 0.0 0.2 0.0 | 93.0 93.8 92.6 | 100.0 100.0 100.0 | 5.1 5.0 5.4 | 983 1,917 128 | 476 681 358 |
| Benishangul-Gumuz SNNP | 5.3 3.2 | 0.8 1.4 | 0.5 0.8 | 0.5 0.2 | 2.8 1.1 | 0.9 0.0 | 89.3 93.2 | 100.0 100.0 100.0 | 6.5 5.5 | 51 926 | 373 600 |
| Gambela Harari Addis Ababa | 14.7 19.2 22.7 | 0.8 6.3 21.3 | 3.3 2.9 3.7 | 1.3 2.6 1.6 | 1.2 2.8 2.2 | 0.0 0.3 2.2 | 78.7 65.9 46.3 | 100.0 100.0 100.0 | 18.8 28.4 47.7 | 15 11 95 | 317 246 167 |
| Dire Dawa | 12.2 | 3.9 | 2.5 | 0.0 | 2.3 | 0.9 | 78.1 | 100.0 | 18.7 | 14 | 254 |
| Education No education | 1.5 | 1.0 | 0.5 | 0.2 | 1.2 | 0.0 | 95.6 | 100.0 | 3.0 | 2,956 | 2,845 |
| Primary Secondary More than secondary | 5.6 22.9 39.6 | 2.6 16.4 13.2 | 0.7 3.2 1.8 | 0.2 0.7 0.6 | 2.0 1.0 0.0 | 0.4 0.9 1.9 | 88.6 54.8 42.9 | 100.0 100.0 100.0 | 8.8 42.6 54.6 | 1,296 136 65 | 1,184 173 82 |
| Wealth quintile | | | | | | | | | | | *- |
| Lowest Second | 0.9 1.0 | 1.5 0.6 | 0.5 0.3 | 0.2 0.0 | 1.0 1.7 | 0.0 0.0 | 95.9 96.4 | 100.0 100.0 | 2.8 1.9 | 1,047 988 | 1,311 782 |
| Middle Fourth Highest | 1.0 1.9 18.4 | 0.0 1.1 8.8 | 0.2 1.7 1.0 | 0.1 0.3 0.4 | 1.6 0.7 2.4 | 0.0 0.4 0.5 | 97.2 93.9 68.7 | 100.0 100.0 100.0 | 1.2 4.7 28.1 | 917 784 717 | 704 656 831 |
| Total | 3.9 | 2.1 | 0.7 | 0.2 | 1.4 | 0.2 | 91.5 | 100.0 | 6.7 | 4,453 | 4,284 |

Includes women who received a checkup after 41 days.

Differences by women's background characteristics are pronounced. Women under age 35, women who delivered their first live birth, urban mothers, those residing in Addis Ababa, and mothers with higher levels of education, and those in the highest wealth quintiles were most likely to have received a postnatal checkup in the first two days after childbirth.

Table 9.10 shows the type of health care provider of the first postnatal checkup according to women's background characteristics. Six percent of women received postnatal care from a doctor, nurse, or midwife. Less than 1 percent of women received care from a HEW. Differentials by background characteristics of the mother are similar to the differences for postnatal care coverage in general. Women having their first baby were more likely than women with a higher birth order to receive postnatal care from a doctor, nurse, or midwife. Thirty-two percent of women in urban areas received a postnatal checkup from a health professional compared with 2 percent of rural women. A higher proportion of women living in Addis Ababa (48 percent), women with more than secondary education (52 percent), and women in the highest wealth quintile (28 percent) received their first postnatal check-up from a doctor, nurse, or midwife compared with their counterparts.

Table 9.10 Type of provider of first postnatal checkup for the mother

Among women age 15-49 giving birth in the two years preceding the survey, the percent distribution by type of provider of the mother's first postnatal health check in the two days after the last live birth, according to background characteristics, Ethiopia 2011

| | Type of provider of first postnata | mother's | No postnatal checkup in | | | |
|-----------------------------|------------------------------------|------------|---|----------------|--------------------------------|----------------------------------|
| Background characteristic | Doctor/ nurse/ midwife | HEW | the first two days after birth ¹ | Total | Weighted number of women | Unweighted number of women |
| Mother's age at birth | | | | | | |
| <20 | 4.7 | 0.9 | 94.4 | 100.0 | 557 | 574 |
| 20-34 | 7.1 | 0.3 | 92.6 | 100.0 | 3,198 | 3,092 |
| 35-49 | 3.7 | 0.6 | 95.7 | 100.0 | 697 | 618 |
| Birth order | | | | | | |
| 1 | 13.9 | 1.0 | 85.1 | 100.0 | 800 | 809 |
| 2-3 | 6.6 | 0.3 | 93.1 | 100.0 | 1,449 | 1,390 |
| 4-5 | 3.7 | 0.1 0.4 | 96.2 | 100.0 | 1,008 | 992 1,093 |
| 6+ | 3.0 | 0.4 | 96.6 | 100.0 | 1,195 | 1,093 |
| Place of delivery | 40.0 | | 40.0 | 4000 | | 0.50 |
| Health facility | 49.9 | 0.5 | 49.6 | 100.0 | 517 | 653 |
| Elsewhere Residence | 0.5 | 0.4 | 99.1 | 100.0 | 3,936 | 3,631 |
| Urban | 32.0 | 0.0 | 67.9 | 100.0 | 607 | 751 |
| Rural | 2.2 | 0.5 | 97.3 | 100.0 | 3,846 | 3,533 |
| Region | | | | | -,- :- | -, |
| Tigray | 12.3 | 0.8 | 86.9 | 100.0 | 273 | 434 |
| Affar | 5.9 | 0.1 | 94.0 | 100.0 | 40 | 378 |
| Amhara | 5.1 | 0.0 | 94.9 | 100.0 | 983 | 476 |
| Oromiya | 4.4 | 0.6 | 95.0 | 100.0 | 1,917 | 681 |
| Somali Benishangul-Gumuz | 5.1 6.5 | 0.0 0.0 | 94.6 93.5 | 100.0 100.0 | 128 51 | 358 373 |
| SNNP | 5.0 | 0.5 | 94.5 | 100.0 | 926 | 600 |
| Gambela | 18.8 | 0.0 | 81.2 | 100.0 | 15 | 317 |
| Harari | 24.2 | 0.0 | 71.6 | 100.0 | 11 | 246 |
| Addis Ababa | 47.7 | 0.0 | 52.3 | 100.0 | 95 | 167 |
| Dire Dawa | 18.7 | 0.0 | 81.3 | 100.0 | 14 | 254 |
| Education | | | | | | |
| No education | 2.8 | 0.3 | 97.0 | 100.0 | 2,956 | 2,845 |
| Primary | 8.2 | 0.6 | 91.2 | 100.0 | 1,296 | 1,184 |
| Secondary | 42.6 | 0.0 | 57.4 | 100.0 | 136 | 173 |
| More than secondary | 52.3 | 2.3 | 45.4 | 100.0 | 65 | 82 |
| Wealth quintile | | | | | | |
| Lowest | 2.8 | 0.1 | 97.2 | 100.0 | 1,047 | 1,311 |
| Second | 1.3 | 0.7 | 98.1 | 100.0 | 988 | 782 |
| Middle | 1.1 3.7 | 0.1 | 98.8 95.3 | 100.0 | 917 | 704 656 |
| Fourth Highest | 3.7 27.7 | 1.0 0.3 | 95.3 71.9 | 100.0 100.0 | 784 717 | 831 |
| 9 | | | | | | |
| Total | 6.3 | 0.4 | 93.3 | 100.0 | 4,453 | 4,284 |

HEW = Health Extension Worker

9.6 PROBLEMS IN ACCESSING HEALTH CARE

Many factors can prevent women from getting medical advice or treatment for themselves when they are sick. Information on such factors is particularly important in understanding and addressing the barriers women may face in seeking care during pregnancy and at the time of delivery.

Where health services are present, there are many factors—social, cultural, and economic—that cause women not to use the services, particularly when the health concern is related to sexual or reproductive matters. The 2011 EDHS asked women whether each of the following factors would be a big problem or not a big problem in seeking health care for themselves: getting permission to go for treatment, getting money for treatment, distance to health facility, not wanting to go alone, having to take transport, concern there may not be a female provider or any health provider, concern that drugs may not be available, and workload inside and outside the house. Table 9.11 shows the results by women's characteristics.

¹ Includes women who received a checkup after 41 days.

Ninety-four percent of women reported that they have at least one of the specified problems when accessing health care for themselves. The most important barrier to women's access to health services is taking transport to a facility (71 percent), followed by lack of money (68 percent), and distance to a health facility (66 percent). More than six women in every ten (61 percent) were concerned about their workload inside and outside the home. Also, about six in every ten (58 percent) were concerned that drugs may not be available at the facility or said that they did not want to go alone to a health facility. More than half of women were concerned that there may not be a health provider at the health facility (56 percent) or that there may not be a female health provider (53 percent). Twenty-nine percent expressed concern about getting permission to go for treatment.

Rural women reported the most problems with access to health care. Among regions, women in Somali (98 percent) and Gambela (97 percent) were most likely to report at least one problem when accessing health care for themselves, while women in Addis Ababa were the least likely (74 percent). Women with more than secondary education (72 percent) and women in the highest wealth quintile (84 percent) were least likely to report at least one problem when accessing health care for themselves.

Table 9.11 Problems in accessing health care

Percentage of women age 15-49 who reported that they have serious problems in accessing health care for themselves when they are sick, by type of problem, according to background characteristics, Ethiopia 2011

| | | | | Probl | ems in acce | essing health | n care | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|---|
| Background characteristic | Getting permission to go for treatment | Getting money for treatment | Distance to health facility | Not wanting to go alone | Having to take transport | Concern there may not be a female health provider | Concern there may not be a health provider | Concern there may not be drugs | Work- load inside/ outside home | At least one problem accessing health care | Weighted number of women | Un- weighted number of women |
| Age < 20 20-34 35-49 | 29.7 28.7 28.7 | 60.5 67.2 75.4 | 61.7 65.7 71.2 | 54.0 60.0 59.2 | 65.9 70.9 76.1 | 50.2 53.8 54.9 | 52.4 55.7 58.0 | 56.0 58.3 59.7 | 53.2 62.3 66.3 | 91.8 93.6 95.4 | 4,009 8,132 4,374 | 3,835 8,307 4,373 |
| Number of living children 0 1-2 3-4 5+ | 27.5 28.0 29.3 31.7 | 59.6 66.4 73.9 76.6 | 58.5 63.9 70.5 77.1 | 52.6 60.0 63.8 60.7 | 62.7 70.2 75.9 81.0 | 49.2 52.0 57.2 57.4 | 51.3 56.4 57.2 59.6 | 54.4 58.7 60.8 60.8 | 52.0 62.0 67.8 68.8 | 90.4 93.0 96.4 97.0 | 5,708 3,987 3,219 3,601 | 5,771 4,257 3,151 3,336 |
| Marital status Never married Married or living together Divorced/ separated/ widowed | 27.8 30.8 20.4 | 59.6 69.8 76.1 | 56.9 71.6 58.3 | 52.2 60.7 59.8 | 61.6 76.0 66.5 | 48.3 55.9 50.1 | 51.2 57.8 53.2 | 54.4 60.2 55.2 | 51.4 65.5 60.7 | 90.1 95.0 94.9 | 4,469 10,287 1,758 | 4,413 10,204 1,898 |
| Employed last 12 months Not employed Employed for cash Employed not for cash | 31.8 26.2 27.6 | 68.4 67.0 67.4 | 67.5 61.9 70.8 | 56.4 58.2 62.3 | 71.8 67.7 75.5 | 55.9 50.9 51.8 | 57.0 54.2 54.7 | 59.8 56.9 56.6 | 60.4 63.3 58.9 | 93.1 92.8 96.2 | 6,980 6,015 3,508 | 7,982 6,054 2,469 |
| Residence Urban Rural | 17.0 32.6 | 51.6 72.8 | 31.4 77.1 | 40.5 63.9 | 38.4 81.3 | 37.9 58.1 | 42.3 59.6 | 44.5 62.4 | 46.1 65.9 | 83.4 96.9 | 3,947 12,568 | 5,329 11,186 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul- Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 5.8 38.6 20.0 37.1 50.8 32.0 36.0 29.8 16.8 11.1 28.0 | 46.6 61.8 65.8 71.9 74.8 61.2 76.6 63.7 48.8 44.8 53.1 | 52.1 75.0 58.9 75.2 71.6 74.5 74.7 70.4 45.2 25.6 49.1 | 48.9 62.0 51.3 68.1 63.0 66.2 60.1 61.5 42.4 29.4 55.0 | 52.4 77.7 66.4 79.7 77.9 75.0 77.6 76.3 49.9 33.3 55.6 | 31.9 74.5 48.8 56.1 78.8 73.0 61.2 67.1 57.0 35.5 54.4 | 47.3 76.6 42.7 61.5 76.7 75.0 65.1 73.3 60.6 36.2 68.1 | 51.1 77.1 45.9 64.4 78.2 76.6 66.9 77.3 64.0 36.0 69.5 | 37.1 67.8 57.9 67.6 72.0 67.4 68.3 58.6 54.0 32.6 57.2 | 85.0 90.7 95.7 95.7 97.6 96.1 95.1 97.3 82.9 74.3 87.9 | 1,104 145 4,433 6,011 329 174 3,236 69 49 896 69 | 1,728 1,291 2,087 2,135 914 1,259 2,034 1,130 1,101 1,741 1,095 |
| Education No education Primary Secondary More than secondary | 32.7 28.2 14.7 | 77.3 63.0 46.8 30.7 | 75.7 62.8 38.7 27.4 | 63.0 58.4 41.8 28.7 | 80.8 67.2 44.6 32.8 | 58.3 51.5 39.2 32.0 | 59.3 54.4 46.9 34.7 | 61.3 57.7 49.6 37.7 | 67.0 59.2 45.5 34.2 | 97.2 93.2 83.1 72.2 | 8,394 6,276 1,117 | 8,278 5,858 1,395 |
| Wealth quintile Lowest Second Middle Fourth Highest | 32.7 33.1 35.0 31.6 16.8 | 78.1 76.6 73.5 67.2 50.3 | 80.6 79.0 78.0 71.0 34.8 | 63.6 65.8 63.8 63.6 41.3 | 84.2 83.9 82.6 74.4 41.9 | 60.2 60.7 58.7 53.9 38.7 | 60.8 60.3 62.5 55.2 43.6 | 63.8 62.9 64.1 58.5 46.0 | 67.3 63.9 68.0 66.5 46.0 | 97.5 97.0 96.6 97.1 83.7 | 2,986 3,041 3,031 3,215 4,242 | 3,711 2,402 2,268 2,505 5,629 |
| Total | 28.9 | 67.7 | 66.2 | 58.3 | 71.1 | 53.2 | 55.5 | 58.1 | 61.2 | 93.6 | 16,515 | 16,515 |

Note: Total includes 12 cases with missing information on employment in the last 12 months

CHILD HEALTH 10

Key Findings

- One in every four children age 12-23 months (24 percent) were fully vaccinated at the time
 of the survey, a 19 percent increase from the level reported in the 2005 EDHS.
- Seven percent of children under age five showed symptoms of acute respiratory infection (ARI) in the two weeks before the survey and for 27 percent of them advice or treatment was sought from a health care facility or provider.
- Seventeen percent of children under age 5 had a fever in the two weeks before the survey, and for one-fourth of them advice or treatment was sought from a health care facility or provider.
- Thirteen percent of children under age 5 had diarrhoea, and 3 percent had had diarrhoea with blood, in the two weeks before the survey.
- The proportion of children with diarrhoea for whom advice or treatment was sought from a health care provider increased from 13 percent in 2000 to 22 percent in 2005 and 32 percent in 2011.

his chapter presents findings on several areas of importance relating to child health; characteristics of the neonate (birth weight and size at birth), immunisation, and important childhood illnesses and their treatment. Information on treatment practices and contact with health services for children with three childhood illnesses (acute respiratory infection, fever, and diarrhoea), helps in the assessment of national programmes aimed at reducing mortality. The government of Ethiopia has formulated a number of strategies that provide a framework for improving child health. One of the priorities in the Health Sector Development Plan (HSDP) IV is improving child health, with a goal to reduce the under-five mortality rate to 68 per 1,000 live births and the infant mortality rate to 31 per 1,000 live births by 2015 (MOH, 2010).

10.1 CHILD'S SIZE AT BIRTH

A child's birth weight or size at birth is an important indicator of the child's vulnerability to the risk of childhood illnesses and the child's chances of survival. Children whose birth weight is less than 2.5 kilograms, or children reported to be "very small" or "smaller than average", have a higher than average risk of early childhood death. The 2011 EDHS questionnaire recorded birth weight, if available from written records or mother's recall, for all births in the five years preceding the survey. Because birth weight may not be known for many babies, and particularly for babies delivered at home and not weighed at birth, the mother's estimate of the baby's size at birth was also obtained. Although subjective, mothers' estimates can be a useful proxy for the weight of the child. Table 10.1 presents information on children's weight and size at birth.

Only 5 percent of children in Ethiopia are weighed at birth. This is not surprising because the majority of births do not take place in a health facility, and children are less likely to be weighed at birth in a non-institutional setting. Among children born in the five years before the survey with a reported birth weight, 11 percent weighed less than 2.5 kilograms. Low birth weight is more common among children of the youngest mothers, age less than 20 (13 percent) and older mothers, age 35-49 (17 percent), and children of birth order six and above (16 percent). The birth weight of a child also varies by place of residence. Seventeen percent of births in rural areas, compared with 9 percent in urban areas, have a reported birth weight less than 2.5 kg.

As noted, a mother's subjective assessment of the size of the baby at birth, in the absence of birth weight, may be useful. Mothers reported 21 percent of all live births in the five years preceding the survey to be very small and 9 percent as smaller than average. Children born to very young mothers (<20 years), first-order births, children of mothers with no education, and children born to mothers in the lowest wealth quintile were the most likely to be reported as very small. Nearly three children of every ten born to mothers residing in Affar (30 percent), Amhara (28 percent), Somali (26 percent), and Gambela (27 percent) were reported as very small at birth.

Table 10.1 Child's weight and size at birth

Percentage of live births in the five years preceding the survey with a reported birth weight; among live births in the five years preceding the survey with a reported birth weight; and percent distribution of all live births in the five years preceding the survey by mother's estimate of baby's size at birth, according to background characteristics, Ethiopia 2011

| | Derceptage of | Percent d | istribution o | f births with | distribution of births with a reported birth weight ¹ | birth weight ¹ | Percent d | istribution of child | Percent distribution of all live births by size of child at birth | by size of | | | |
|--|---|--|---|--|--|---|--|---|---|--|--|---|---|
| Background characteristic | all births with a reported birth weight | Less than 2.5 kg | 2.5 kg or more | Total | Weighted number of births | Unweighted number of births | Very small | Smaller than average | Average or larger | Don't know/ missing | Total | Weighted number of births | Unweighted number of births |
| Mother's age at birth <20 20-34 35-49 | 5.8 2.5 5.5 | 12.8 9.9 17.1 | 87.2 90.1 82.9 | 100.0 100.0 100.0 | 89 490 42 | 158 885 75 | 26.4 19.4 21.0 | 0.8 0.0 0.0 | 64.0 71.7 69.2 | 0.6 0.3 0.7 | 100.0 100.0 100.0 | 1,541 8,675 1,657 | 1,650 8,429 1,575 |
| Birth order 1 2-3 4-5 6+ | 1.004 1.004 | 11.3 3.8 7.71 | 88.7 88.3 96.2 84.3 | 100.0 100.0 100.0 | 252 245 80 44 | 469 429 144 76 | 25.5 20.3 18.2 19.3 | 8.7 7.9 9.2 | 65.0 70.7 73.8 70.9 | 0.2 0.2 0.6 | 100.0 100.0 100.0 | 2,262 3,694 2,728 3,188 | 2,303 3,717 2,678 2,956 |
| Mother's smoking status Smokes cigarettes/tobacco Does not smoke | * 2.5 | * 10.7 | * 6.9 | 100.0 | 0 620 | 1,116 | 18.4 20.5 | 1.2 | 80.0 70.3 | 0.3 | 100.0 | 33 11,838 | 95 11,552 |
| Residence Urban Rural | 31.9 1.3 | 9.1 | 90.9 83.0 | 100.0 | 488 133 | 928 190 | 17.6 21.0 | 6.5 9.0 | 75.0 69.7 | 1.0 0.3 | 100.0 | 1,528 10,344 | 1,986 9,668 |
| Region Tigray Affar Affar Arnhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 8 (3.0.3) 1.0.0.3 1.0. | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 | 88 (86.0) (888.0) (988.0) (92.2) (92.8) (94.6) (96.5) (98.6) (98.6) | 0000 0000 0000 0000 0000 0000 0000 0000 0000 | 19 181 123 123 148 148 141 | 85 33 33 67 67 42 42 101 178 278 | 21.1 30.3 27.9 26.2 20.6 27.4 27.4 19.4 10.7 | 001 2022 2022 2024 2025 2026 2026 2026 2026 2026 2026 2026 | 67.7 599.4 73.6 66.5 77.7 70.3 70.3 70.1 70.1 | 4.000000000000000000000000000000000000 | 0000 0000 0000 0000 0000 0000 0000 0000 0000 | 753 753 7676 5,014 364 140 2,494 20 222 39 | 1,202 1,130 1,294 1,761 1,027 1,020 1,614 851 659 400 696 |
| Mother's education No education Primary Secondary More than secondary | 1.3 7.9 49.7 73.0 | 23 8 4 23 25 25 33 35 35 | 86.8 91.8 88.5 86.7 | 100.0 100.0 100.0 | 110 255 132 123 | 270 446 240 162 | 21.7 18.6 14.6 | 9.7 6.2 8.6 5.0 | 68.1 75.0 75.6 82.6 | 0.5 0.2 2.0 | 100.0 100.0 100.0 | 8,227 3,211 266 168 | 8,142 2,930 386 196 |
| Wealth quintile Lowest Second Middle Fourth Highest | (0.5) (0.7) 2.4 28.7 5.2 | (20.7) (11.5) * 16.8 10.2 | (79.3) (88.5) * 83.2 89.8 89.2 | 100.0 100.0 100.0 100.0 100.0 | 13 19 20 54 515 621 | 48 25 22 78 945 1,118 | 24.7 19.9 22.4 17.5 16.4 | 9.9 9.2 9.5 8.1 5.7 | 65.0 70.2 67.9 74.1 77.2 | 0.4 0.7 0.1 0.3 0.7 | 100.0 100.0 100.0 100.0 | 2,710 2,658 2,437 2,272 1,795 | 3,625 2,114 1,872 1,870 2,173 11,654 |

Note: Total includes 2 cases with missing information on mother's smoking status. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Based on either a written record or the mother's recall

10.2 VACCINATION COVERAGE

Immunisation coverage is one of the indicators used to monitor progress towards the achievement of MDG4 and the reduction of child morbidity and mortality, as it is one of the most cost-effective public health interventions for reaching these goals. In order to reduce child morbidity and mortality, the HSDP IV has initiated several activities. The major focus areas are strengthening routine immunisation, expansion of community services and facility-based Integrated Management of Neonatal and Childhood Illnesses (IMNCI), strengthening the Health Extension Program (HEP), and implementing locally relevant and effective child health interventions.

According to guidelines developed by the World Health Organization, children are considered fully vaccinated when they have received a vaccination against tuberculosis (BCG), three doses each of the DPT and polio vaccines, and a measles vaccination by the age of 12 months. The pentavalent vaccine DPT-HepB-Hib, introduced in 2007, has replaced the previous DPT vaccine. This new vaccine protects against diphtheria, pertussis (whooping cough), tetanus, hepatitis B, and Haemophilus influenzae type b. In Ethiopia, the vaccination policy calls for BCG vaccine given at birth or at first clinical contact, three doses of DPT-HepB-Hib vaccine given at approximately 4, 8, and 12 weeks of age, four doses of oral polio vaccine given approximately at 0-2, 4, 8, and 12 weeks of age, and measles vaccine given at or soon after reaching 9 months of age.

The 2011 EDHS collected information on vaccination coverage in two ways: from vaccination cards shown to the interviewer and from mothers' verbal reports. If the cards were available, the interviewer copied the vaccination dates directly onto the questionnaire. When there was no vaccination card for the child or if a vaccine had not been recorded on the card as being given, the respondent was asked to recall the vaccines given to her child. Vaccinations reported on the vaccination card represent vaccines given by routine immunization services, while vaccines based on mother's recall usually include routine and other immunization services such as campaigns. Table 10.2 and Figure 10.1 show the percentage of children age 12-23 months who have received the various vaccinations by source of information, either vaccination card or mother's report. This is the youngest cohort of children who have reached the age by which they should be fully vaccinated. The third row of the table shows the proportion of children 12-23 months who were immunised at any age up to the time of the survey according to either the mother's report or the vaccination card, while the last row shows the proportion who were vaccinated by age 12 months, the age at which vaccination coverage should be complete.

Overall, 24 percent of children age 12-23 months were fully vaccinated at the time of the survey. While this represents a 19 percent increase from the level reported in the 2005 EDHS, the percentage of children who are fully vaccinated remains far below the goal of 66 percent coverage set in the HSDP IV (MOH, 2010). Data from the EDHS generally show vaccination coverage to be lower than data in the service statistics from the Ministry of Health. However, comparisons of data from various sources should consider differences in the sampling frame, design, sample size, representativeness of the sample, and selection methodology, as well as differences in the source of information, phrasing of questions, and reporting of data, all of which could help to explain these differences.

As for coverage for specific vaccines, 66 percent of children had received the BCG vaccine, and 56 percent had received the measles vaccine. A relatively high percentage of children received the first DPT dose (64 percent). However, only 37 percent went on to receive the third dose of DPT, reflecting a dropout rate of 43 percent. More than eight children of every ten (82 percent) received the first dose of polio, but only about four in ten (44 percent) received the third dose, reflecting a dropout rate of 46 percent. Even though DPT and polio vaccines are often routinely administered at the same time, polio coverage is higher than DPT coverage. This is primarily due to the success of the national immunisation day campaigns, during which polio vaccines are administered.

Table 10.2 Vaccinations by source of information

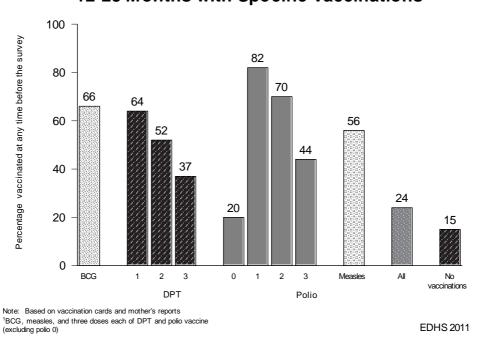
Percentage of children age 12-23 months who received specific vaccines at any time before the survey, by source of information (vaccination card or mother's report), and percentage vaccinated 12 months of age, Ethiopia 2011

| | | | DPT | | | Po | olio ¹ | | | All basic | | Weighted | Unweighted |
|---|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|--------------------------------|----------------------|-----------------------|-----------------------|
| Source of information | BCG | DPT 1 | DPT 2 | DPT 3 | Polio 0 | Polio 1 | Polio 2 | Polio 3 | Measles | vac- cinations ² | No vac- cinations | number of children | number of children |
| Vaccinated at any time before survey Vaccination card Mother's report Either source | 25.5 40.8 66.3 | 28.1 35.5 63.5 | 25.2 27.2 52.4 | 21.9 14.6 36.5 | 10.8 8.9 19.7 | 27.4 54.9 82.3 | 24.2 45.9 70.0 | 20.5 23.8 44.3 | 22.0 33.8 55.7 | 16.3 8.0 24.3 | 0.0 14.5 14.5 | 554 1,376 1,930 | 629 1,298 1,927 |
| Vaccinated by 12 months of age ³ | 65.2 | 62.2 | 50.3 | 34.7 | 19.7 | 80.9 | 67.4 | 43.1 | 49.3 | 21.7 | 16.0 | 1,930 | 1,927 |

Polio 0 is the polio vaccination given at birth

² BCG, measles and three doses each of DPT and polio vaccine excluding polio vaccine given at birth.

Figure 10.1 Percentage of Children Age 12-23 Months with Specific Vaccinations



³ For children whose information was based on the mother's report, the proportion of vaccinations given during the first year of life is assumed to be the same as for children with a written record of vaccination.

10.2.1 Vaccination Coverage by Background Characteristics

Table 10.3 presents vaccination coverage among children age 12-23 months by background characteristics. Female children are slightly more likely to be fully vaccinated (26 percent) than male children (23 percent). First births are more likely to be fully immunised (30 percent) than births of order six and higher (20 percent). Urban children are more than two times as likely as rural children to have all basic vaccinations (48 percent compared with 20 percent). Children whose mothers have secondary education are more likely to be fully immunised than those born to mothers with no education (57 and 20 percent, respectively). Similarly, 51 percent of children in the highest wealth quintile are fully immunised, compared with 17 percent of children in the lowest wealth quintile. There is a wide variation among regions in full vaccination coverage, ranging from 79 percent in Addis Ababa to 9 percent in Affar.

Table 10.3 shows that mothers had vaccination cards for only 29 percent of children age 12-23 months. The actual percentage of children who have a vaccination card may be higher because in some areas the cards are kept at the health centre and not by mothers. Mothers were most likely to show vaccination cards for female children, first births, children living in urban areas, children in Addis Ababa, children of mothers with at least some secondary education, and children of mothers in the highest wealth quintile.

Table 10.3 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 the mother's report), and percentage with a vaccination card, by background characteristics, Ethiopia 2011

| | | | DPT | | | Po | olio ¹ | | | A II I: | | Percentage | \A/=:=b4: 1 | Un- |
|---------------------------|--------------|--------------|--------|--------|--------------|---------|-------------------|--------------|--------------|---|----------------------|------------------------------------|-----------------------------------|-----------------------------------|
| Background characteristic | BCG | DPT 1 | DPT 2 | DPT 3 | Polio 0 | Polio 1 | Polio 2 | Polio 3 | Measles | All basic vac- cinations ² | No vac- cinations | with a vaccination card seen | Weighted number of children | weighted number of children |
| Sex | | | | | | | | | | | | | | |
| Male | 64.3 | 60.4 | 49.6 | 34.3 | 18.7 | 81.9 | 68.6 | 42.3 | 55.7 | 23.1 | 15.0 | 26.0 | 1,010 | 983 |
| Female | 68.5 | 67.0 | 55.4 | 38.8 | 20.9 | 82.8 | 71.6 | 46.5 | 55.7 | 25.7 | 14.1 | 31.6 | 920 | 944 |
| Birth order | | | | | | | | | | | | | | |
| 1 | 71.1 | 68.4 | 57.1 | 40.7 | 29.7 | 82.9 | 71.0 | 46.5 | 61.0 | 29.8 | 13.5 | 35.1 | 358 | 364 |
| 2-3 | 68.6 | 63.5 | 51.3 | 37.5 | 22.8 | 84.1 | 69.6 | 43.7 | 52.6 | 24.2 | 12.3 | 30.2 | 624 | 637 |
| 4-5 | 66.5 | 63.3 | 54.0 | 37.0 | 12.7 | 84.2 | 76.0 | 49.8 | 61.7 | 24.5 | 14.3 | 27.1 | 450 | 444 |
| 6+ | 59.9 | 60.3 | 48.9 | 31.7 | 15.0 | 78.0 | 64.5 | 38.7 | 50.3 | 20.3 | 18.4 | 23.6 | 497 | 482 |
| Residence | | | | | | | | | | | | | | |
| Urban | 81.6 | 79.8 | 73.9 | 60.5 | 53.7 | 89.1 | 82.2 | 65.7 | 79.6 | 48.1 | 6.1 | 54.8 | 274 | 350 |
| Rural | 63.8 | 60.9 | 48.8 | 32.5 | 14.1 | 81.2 | 68.0 | 40.8 | 51.8 | 20.4 | 15.9 | 24.4 | 1,656 | 1,577 |
| Region | | | | | | | | | | | | | | |
| Tigray | 95.9 | 93.8 | 88.6 | 73.4 | 28.8 | 97.4 | 90.8 | 76.4 | 83.7 | 58.9 | 1.8 | 58.3 | 129 | 203 |
| Affar | 38.1 | 30.4 | 16.8 | 10.3 | 10.6 | 51.0 | 33.1 | 18.4 | 30.3 | 8.6 | 47.3 | 13.5 | 18 | 174 |
| Amhara | 67.7 | 68.6 | 53.6 | 38.4 | 18.1 | 86.5 | 76.6 | 47.0 | 62.0 | 26.3 | 9.6 | 31.1 | 446 | 222 |
| Oromiya | 57.4 | 50.4 | 41.0 | 26.8 | 15.5 | 77.0 | 61.5 | 35.8 | 45.9 | 15.6 | 19.4 | 22.9 | 811 | 290 |
| Somali | 45.7 | 41.4 | 34.9 | 25.3 | 18.9 | 59.8 | 48.4 | 27.9 | 39.5 | 16.6 | 35.4 | 23.7 | 51 | 150 |
| Benishangul- | 60.7 | 73.3 | 62.2 | 41.7 | 36.4 | 85.5 | 75.8 | 45.7 | 67.2 | 22.6 | 12.0 | 28.9 | 23 | 170 |
| Gumuz SNNP | 68.7 73.4 | 73.3 74.7 | 60.9 | 38.1 | 36.4 18.8 | 85.6 | 75.6 74.7 | 45.7 46.9 | 57.2 57.8 | 23.6 24.1 | 13.0 11.8 | 23.4 | 23 391 | 253 |
| Gambela | 72.0 | 72.4 | 48.3 | 27.6 | 35.7 | 87.4 | 73.4 | 41.5 | 57.6 51.7 | 15.5 | 7.7 | 23.4 | 8 | 255 151 |
| Harari | 72.9 | 76.4 | 66.7 | 51.8 | 30.4 | 92.0 | 81.6 | 59.6 | 64.7 | 34.1 | 8.0 | 37.1 | 5 | 115 |
| Addis Ababa | 97.5 | 94.5 | 92.1 | 89.2 | 87.3 | 97.5 | 92.8 | 81.7 | 93.5 | 78.7 | 2.5 | 79.9 | 43 | 81 |
| Dire Dawa | 87.5 | 90.2 | 86.4 | 75.3 | 43.8 | 96.3 | 89.9 | 79.3 | 79.9 | 58.6 | 3.0 | 52.1 | 7 | 118 |
| Mother's education | | | | | | | | | | | | | | |
| No education | 60.1 | 56.8 | 45.6 | 31.2 | 14.4 | 78.9 | 64.7 | 40.2 | 49.9 | 20.1 | 18.1 | 24.4 | 1,307 | 1,293 |
| Primary | 75.4 | 75.0 | 62.1 | 42.6 | 23.7 | 87.4 | 77.7 | 49.1 | 63.8 | 28.3 | 8.5 | 34.5 | 522 | 512 |
| Secondary | 99.8 | 99.2 | 95.1 | 79.2 | 68.6 | 99.7 | 99.7 | 73.7 | 82.1 | 57.0 | 0.0 | 50.3 | 59 | 79 |
| More than | | | | | | | | | | | | | | |
| secondary | (99.4) | (81.5) | (81.5) | (63.9) | (66.2) | (99.5) | (99.4) | (73.0) | (99.5) | (57.7) | (0.5) | (58.0) | 43 | 43 |
| Wealth quintile | | | | | | | | | | | | | | |
| Lowest | 58.0 | 55.0 | 42.4 | 26.0 | 11.7 | 79.5 | 65.2 | 37.8 | 45.3 | 16.8 | 16.3 | 17.3 | 441 | 570 |
| Second | 65.8 | 56.5 | 45.2 | 29.4 | 10.5 | 81.3 | 70.3 | 39.9 | 52.0 | 18.2 | 16.3 | 18.8 | 419 | 338 |
| Middle | 61.8 | 60.1 | 47.1 | 31.0 | 12.9 | 78.5 | 65.6 | 41.5 | 52.0 | 18.2 | 17.6 | 26.5 | 394 | 312 |
| Fourth | 68.1 | 67.9 | 56.6 | 42.2 | 20.8 | 82.3 | 67.1 | 41.7 | 56.4 | 24.9 | 16.4 | 33.1 | 369 | 314 |
| Highest | 82.6 | 84.6 | 78.3 | 61.5 | 51.5 | 92.4 | 86.0 | 66.7 | 79.7 | 50.5 | 3.5 | 56.1 | 307 | 393 |
| Total | 66.3 | 63.5 | 52.4 | 36.5 | 19.7 | 82.3 | 70.0 | 44.3 | 55.7 | 24.3 | 14.5 | 28.7 | 1,930 | 1,927 |

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

¹ Polio 0 is the polio vaccination given at birth.
² BCG, measles and three doses each of DPT and polio vaccine (excluding polio vaccine given at birth).

10.3 TRENDS IN VACCINATION COVERAGE

One way of measuring trends in vaccination coverage is to compare coverage among children of different ages in the 2011 EDHS. Table 10.4 shows the percentage of children who have received vaccinations during the first year of life by current age. These data provide information on trends in vaccination coverage over the past five years.

There are notable changes in vaccination coverage over the past five years. The percentage of children who have received no vaccinations at all by 12 months of age has declined over the past four years from 24 percent among children age 48-59 months at the time of the survey to 16 percent among children age 12-23 months. The percentage of children fully immunised by age 12 months has increased only slightly, however, from 20 percent to 22 percent. Mothers showed vaccination cards for 29 percent of children age 12-23 months but for only 13 percent of children age 48-59 months. This may be because vaccination cards for older children have been discarded.

Table 10.4 Vaccinations in first year of life

Percentage of children age 12-59 months at the time of the survey who received specific vaccines by 12 months of age, and percentage with a vaccination card, by current age of child, Ethiopia 2011

| | | | DPT | | | Po | lio ¹ | | | | | Percentage | | Un- |
|---------------|------|-------|-------|-------|---------|---------|------------------|---------|---------|---|----------------------|------------------------------------|-----------------------------------|-----------------------------------|
| Age in months | BCG | DPT 1 | DPT 2 | DPT 3 | Polio 0 | Polio 1 | Polio 2 | Polio 3 | Measles | All basic vac- cinations ² | No vac- cinations | with a vaccination card seen | Weighted number of children | weighted number of children |
| 12-23 | 65.2 | 62.2 | 50.3 | 34.7 | 19.7 | 80.9 | 67.4 | 43.1 | 49.3 | 21.7 | 16.0 | 28.7 | 1,930 | 1,927 |
| 24-35 | 63.2 | 56.0 | 46.5 | 30.9 | 15.0 | 78.6 | 70.7 | 48.6 | 45.0 | 19.6 | 19.0 | 20.9 | 2,063 | 2,099 |
| 36-47 | 61.2 | 54.5 | 44.8 | 31.9 | 17.2 | 78.6 | 73.2 | 52.2 | 43.4 | 19.4 | 19.8 | 15.7 | 2,381 | 2,311 |
| 48-59 | 60.1 | 52.9 | 43.8 | 28.5 | 12.6 | 73.8 | 70.2 | 52.1 | 42.8 | 19.9 | 24.1 | 13.4 | 2,282 | 2,217 |
| Total | 62.8 | 56.6 | 46.5 | 31.8 | 16.0 | 78.7 | 70.9 | 50.1 | 45.7 | 20.2 | 19.1 | 19.2 | 8,657 | 8,554 |

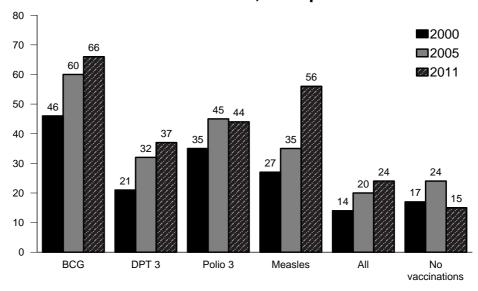
Note: Information was obtained from the vaccination card or if there was no written record, from the mother. For children whose information was based on the mother's report, the proportion of vaccinations given during the first year of life is assumed to be the same as for children with a written record of vaccinations.

1 Polio 0 is the polio vaccination given at birth.

Figure 10.2 shows trends in vaccination coverage by comparing similarly collected data in the 2011 EDHS with data from the 2000 and 2005 EDHS. Vaccination coverage in Ethiopia has increased markedly over the past ten years. The percentage of children age 12-23 months who were fully vaccinated at the time of the survey increased from 14 percent in 2000 to 20 percent in 2005 and 24 percent in 2011—a 70 percent increase over ten years and a 19 percent increase in the five years preceding the 2011 survey. The percentage who had received none of the six basic vaccinations increased from 17 percent to 24 percent between 2000 and 2005 and then decreased to 15 percent in 2011. With the exception of polio 3, the percentage of children who received all the other vaccinations has increased in the five years before the 2011 survey.

BCG, measles and three doses each of DPT and polio vaccine (excluding polio vaccine given at birth).

Figure 10.2 Trends in Vaccination Coverage
During the First Year of Life Among
Children 12-23 Months, Ethiopia 2000-2011



EDHS 2000, 2005, 2011

10.4 Acute Respiratory Infection

Acute respiratory infection (ARI) is among the leading causes of child morbidity and mortality in Ethiopia and throughout the world. Pneumonia is the most serious outcome of ARI in young children. Early diagnosis and treatment with antibiotics can prevent a large proportion of deaths that can result from pneumonia. The prevalence of symptoms of ARI was estimated by asking mothers whether their children under age five had been ill with a cough accompanied by short, rapid breathing in the two weeks preceding the survey. These data are subjective (i.e., based on the mother's perception of illness) and not validated by a medical examination.

Table 10.5 shows the percentage of children under age five who experienced symptoms of ARI in the two weeks preceding the survey. Seven percent of children showed symptoms of ARI in the two weeks before the survey. Symptoms of ARI were the most common among children age 6-23 months (9 percent). Children of mothers who smoke were notably more likely to have symptoms of ARI than children of non-smokers (13 percent versus 7 percent). Symptoms of ARI were also remarkably less common among children in households that use electricity or gas as cooking fuel (2 percent) than among children in households that use other cooking fuels (7 percent, the highest percentage, occurring in households using wood/straw). A lower proportion of children in urban areas, children of mothers have more than secondary education and those in the wealthiest quintile have symptoms of ARI than do children in rural areas, children of mothers with no education, and those in the lowest wealth quintiles. The proportion of children with ARI symptoms ranges from 1 percent of children in Harari to 11 percent of children in Benishangul-Gumuz.

Mothers of 27 percent of children who had symptoms of ARI sought advice or treatment from a health facility or provider. Seven percent of children with ARI symptoms received antibiotics.

Table 10.5 Prevalence and treatment of symptoms of ARI

Among children under age five, the percentage who had symptoms of acute respiratory infection (ARI) in the two weeks preceding the survey and among children with symptoms of ARI, the percentage for whom advice or treatment was sought from a health facility or provider and the percentage who received antibiotics as treatment, according to background characteristics, Ethiopia 2011

| | Among ch | nildren under | age five: | Percentage for whom | | dren under a nptoms of Al | |
|---|--|--|---|--|--|---|--|
| Background characteristic | Percentage with symptoms of ARI ¹ | Weighted number of children | Unweighted number of children | advice or treatment was sought from a health facility or provider ² | Percentage who received antibiotics | Weighted number of children | Unweighted number of children |
| Age in months | | | | | | | |
| <6 6-11 12-23 24-35 36-47 48-59 | 7.1 9.0 8.8 6.7 7.3 4.4 | 1,265 1,120 1,930 2,063 2,381 2,282 | 1,211 1,043 1,927 2,099 2,311 2,217 | 25.9 32.2 36.1 26.8 20.3 19.1 | 3.1 5.1 12.3 8.3 5.1 3.4 | 90 101 171 139 173 100 | 87 93 160 166 148 118 |
| Sex Male Female | 6.9 7.1 | 5,676 5,366 | 5,515 5,293 | 25.4 28.7 | 7.8 5.8 | 393 380 | 386 386 |
| Mother's smoking status Smokes cigarettes/tobacco Does not smoke | 12.8 7.0 | 28 11,012 | 86 10,716 | * 27.1 | * 6.8 | 4 769 | 12 760 |
| Cooking fuel Electricity or gas Kerosene Charcoal Wood/straw³ Animal dung | 1.5 6.1 4.4 7.3 5.2 | 56 56 537 9,612 758 | 87 180 804 9,318 405 | * (80.3) 24.9 (26.6) | (4.8) 7.3 (0.0) | 1 3 24 706 39 | 1 4 26 715 26 |
| Residence Urban Rural | 4.8 7.3 | 1,436 9,606 | 1,865 8,943 | 46.9 25.0 | 0.7 7.4 | 69 703 | 100 672 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 9.4 5.4 6.4 7.0 8.8 10.6 6.8 9.2 1.3 3.4 6.7 | 702 112 2,478 4,665 339 127 2,305 37 27 214 37 | 1,123 1,033 1,203 1,637 951 925 1,491 782 616 386 661 | 18.4 40.6 29.4 23.4 18.7 42.9 31.6 52.5 * | 1.8 0.0 6.0 9.9 2.1 7.6 4.5 10.9 * | 66 6 159 328 30 13 157 3 0 7 | 100 52 80 116 75 97 108 83 8 10 |
| Mother's education No education Primary Secondary More than secondary | 7.2 6.6 7.2 2.4 | 7,611 3,012 252 168 | 7,521 2,727 369 191 | 24.6 27.7 * | 6.4 7.2 * | 551 200 18 4 | 570 184 14 4 |
| Wealth quintile Lowest Second Middle Fourth Highest | 7.6 6.1 8.6 8.0 4.0 | 2,476 2,444 2,277 2,158 1,687 | 3,327 1,950 1,738 1,752 2,041 10,808 | 15.5 25.2 22.1 33.2 61.7 27.0 | 3.0 7.8 5.7 11.7 6.1 6.8 | 188 148 197 173 67 | 256 124 152 146 94 |

Note: Total includes 6 cases with missing information on mother's smoking status. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Symptoms of ARI (cough accompanied by short, rapid breathing which was chest-related and/or by difficult breathing which was chest-related) is considered a proxy for pneumonia.

Excludes pharmacy, rug vendor/store, shop, and traditional healer.

Includes grass, shrubs, and crop residues.

10.5 **FEVER**

Fever is a major manifestation of malaria and other acute infections in children. Malaria and fever contribute to high levels of malnutrition and mortality. While fever can occur year-round, malaria is more prevalent after the end of the rainy season. For this reason, temporal factors must be taken into account when interpreting fever as an indicator of malaria prevalence.

Table 10.6 shows the percentage of children under five with fever during the two weeks preceding the survey and the percentage receiving various treatments, by selected background

characteristics. Mothers reported that 17 percent of children under five had had fever in the two weeks preceding the survey. The prevalence of fever varied by age of child and was highest in children age 6-11 months and 12-23 months (25 and 22 percent, respectively). There is little variation in the prevalence of fever by sex of the child, place of residence, mother's education, or household wealth. Prevalence of fever among children under five years varies from 11 percent in Harari to 28 percent in Gambela. The prevalence of fever is also relatively high among children living in Tigray and Benishangul-Gumuz (both 24 percent), Afar (23 percent), and Somali (21 percent).

Among children with fever, nearly one-fourth sought advice or treatment for the fever at a health facility or health provider. Children age 12-35 months, male children, and children living in urban areas were more likely to have received advice or treatment than other children. Likewise, children of mothers with some secondary education and those in the wealthiest households were more likely to seek advice or treatment at a health facility or provider. Among children under five who had fever, 4 percent received antimalarial drugs and 7 percent received antibiotics to treat their fever.

Table 10.6 Prevalence and treatment of fever

Among children under age five, the percentage who had a fever in the two weeks preceding the survey; and among children with fever, the percentage for whom advice or treatment was sought from a health facility or provider, the percentage who took antimalarial drugs, and the percentage who received antibiotics as treatment, by background characteristics, Ethiopia 2011

| | Among | children under | age five: | | Among child | ren under age f | ive with fever | |
|---------------------------------|--------------------------|-----------------------------------|-------------------------------------|---|---|---|-----------------------------------|-------------------------------------|
| Background characteristic | Percentage with fever | Weighted number of children | Unweighted number of children | Percentage for whom advice or treatment was sought from a health facility or provider ¹ | Percentage who took antimalarial drugs | Percentage who took antibiotic drugs | Weighted number of children | Unweighted number of children |
| Age in months | | | | | | | | |
| <6 | 17.6 | 1,265 | 1,211 | 22.8 | 1.1 | 3.7 | 222 | 207 |
| 6-11 | 24.8 | 1,120 | 1,043 | 23.1 | 2.9 | 7.5 | 278 | 283 |
| 12-23 | 21.8 | 1,930 | 1,927 | 27.7 | 3.8 | 7.3 | 421 | 484 |
| 24-35 | 18.1 | 2,063 | 2,099 | 26.7 | 5.2 | 5.6 | 373 | 433 |
| 36-47 | 14.6 | 2,381 | 2,311 | 21.5 | 3.9 | 6.7 | 348 | 353 |
| 48-59 | 10.6 | 2,282 | 2,217 | 21.1 | 3.6 | 10.3 | 243 | 322 |
| Sex | | | | | | | | |
| Male | 18.3 | 5,676 | 5,515 | 25.3 | 3.4 | 7.4 | 1,038 | 1,086 |
| Female | 15.8 | 5,366 | 5,293 | 23.0 | 3.9 | 6.1 | 847 | 996 |
| Residence | | | | | | | | |
| Urban | 15.7 | 1,436 | 1,865 | 37.8 | 2.5 | 4.9 | 226 | 321 |
| Rural | 17.3 | 9,606 | 8,943 | 22.4 | 3.8 | 7.1 | 1,659 | 1,761 |
| Region | | | | | | | | |
| Tigray | 23.9 | 702 | 1,123 | 20.5 | 4.3 | 1.4 | 168 | 267 |
| Affar | 23.2 | 112 | 1,033 | 28.9 | 5.1 | 0.3 | 26 | 240 |
| Amhara | 16.6 | 2,478 | 1,203 | 18.2 | 0.9 | 4.5 | 412 | 204 |
| Oromiya | 14.9 | 4,665 | 1,637 | 26.6 | 1.4 | 11.2 | 695 | 244 |
| Somali | 20.9 | 339 | 951 | 18.5 | 2.8 | 4.2 | 71 | 195 |
| Benishangul-Gumuz | 23.7 | 127 | 925 | 40.0 | 12.9 | 8.0 | 30 | 214 |
| SNNP | 19.0 | 2,305 | 1,491 | 23.6 | 8.8 | 5.0 | 438 | 294 |
| Gambela | 27.9 | 37 | 782 | 46.5 | 19.3 | 4.7 | 10 | 228 |
| Harari | 11.3 | 27 | 616 | 46.0 | 1.4 | 3.1 | 3 | 69 |
| Addis Ababa Dire Dawa | 12.3 13.5 | 214 37 | 386 661 | (67.3) 50.7 | (0.0) 1.1 | (4.7) 8.1 | 26 5 | 46 81 |
| | 13.3 | 31 | 001 | 30.7 | 1.1 | 0.1 | 3 | 01 |
| Mother's education No education | 16.7 | 7,611 | 7,521 | 21.9 | 2.2 | 6.0 | 1,272 | 1,425 |
| | 18.0 | | 7,521 2,727 | 27.1 | | | | |
| Primary Secondary | 16.8 | 3,012 252 | 369 | 45.1 | 7.3 3.0 | 8.3 10.5 | 543 42 | 557 73 |
| More than secondary | 16.2 | 168 | 191 | (43.6) | (0.0) | (10.9) | 42 27 | 73 27 |
| · · | | | | (10.0) | (0.0) | (10.0) | | |
| Wealth quintile Lowest | 18.5 | 2,476 | 3,327 | 16.0 | 3.0 | 2.0 | 459 | 716 |
| Second | 16.4 | 2,476 | 1,950 | 20.9 | 3.0 1.4 | 2.0 11.5 | 401 | 356 |
| Middle | 18.0 | 2,444 | 1,738 | 23.1 | 2.8 | 6.2 | 410 | 344 |
| Fourth | 16.4 | 2,158 | 1,752 | 28.1 | 6.3 | 7.6 | 353 | 329 |
| Highest | 15.5 | 1,687 | 2,041 | 40.4 | 5.8 | 8.1 | 262 | 337 |
| Total | 17.1 | 11,042 | 10,808 | 24.2 | 3.6 | 6.8 | 1,885 | 2,082 |
| | | , | , | | | | ., | -, |

Note: Figures in parentheses are based on 25-49 unweighted cases. ¹ Excludes pharmacy, drug vendor/store, shop, and traditional healer.

10.6 DIARRHOEAL DISEASE

Dehydration from diarrhoea is a major cause of death in infancy and childhood. This is unfortunate since the condition is easily treated with oral rehydration therapy (ORT). The combination of high cause-specific mortality and the existence of effective treatment make diarrhoea and its treatment a priority concern for health services. Diarrhoea with blood in the stools is indicative of cholera or other specific diseases and needs to be treated somewhat differently than diarrhoea without blood. In the 2011 EDHS mothers were asked whether any of their children under age five had diarrhoea at any time during the two-week period preceding the survey. If the child had had diarrhoea, the mother was asked about feeding practices during the diarrhoeal episode. The validity of this indicator is affected by the mother's perception of diarrhoea as an illness and her capacity to recall the events. Moreover, the prevalence of diarrhoea varies seasonally. Thus, this variable in the 2011 EDHS should be interpreted with caution.

10.6.1 Prevalence of Diarrhoea

Table 10.7 shows that 13 percent of children under age five were reported to have had diarrhoea, and 3 percent had had diarrhoea with blood in the two-week period before the survey. Diarrhoea was most common among children age 6–23 months (23-25 percent). Diarrhoea prevalence is highest among children residing in households that drink from unprotected wells (18 percent), those residing in rural areas (14 percent), and children residing in Benishangul-Gumuz and Gambela (both 23 percent).

Table 10.7 Prevalence of diarrhoea

Percentage of children under age five who had diarrhoea in the two weeks preceding the survey, by background characteristics, Ethiopia 2011

| | Diarrhoea in the preceding | | Weighted | Unweighted |
|---|----------------------------|----------------------|-----------------------|-----------------------|
| Background characteristic | All diarrhoea | Diarrhoea with blood | number of children | number of children |
| Age in months | | | | |
| <6 | 10.4 | 1.8 | 1,265 | 1,211 |
| 6-11 | 24.8 | 4.8 | 1,120 | 1,043 |
| 12-23 | 22.6 | 5.7 | 1,930 | 1,927 |
| 24-35 | 14.0 | 3.2 | 2,063 | 2,099 |
| 36-47 | 8.9 | 2.8 | 2,381 | 2,311 |
| 48-59 | 6.0 | 2.1 | 2,282 | 2,217 |
| Sex | 44.0 | 2.5 | F 070 | E 545 |
| Male Female | 14.3 12.5 | 3.5 3.2 | 5,676 5,366 | 5,515 5,293 |
| Source of drinking water ¹ | .2.0 | 0.2 | 0,000 | 0,200 |
| Improved source | 12.4 | 3.1 | 5,150 | 5,469 |
| Piped into dwelling | 8.4 | 3.9 | 77 | 66 |
| Piped to yard/plot | 9.5 | 0.6 | 440 | 710 |
| Public tap/standpipe | 11.1 | 3.2 | 2,455 | 2,104 |
| Borehole | 16.0 | 5.1 | 369 | 615 |
| Protected well | 12.9 | 2.9 | 781 | 1,118 |
| Protected spring | 15.4 | 3.3 | 1,006 | 756 |
| Rain water | 11.2 | 4.7 | 22 | 98 |
| Bottled water | 0.0 | 0.0 | 1 | 2 |
| Non-improved source | 14.5 | 3.6 | 5,847 | 5,293 |
| Unprotected well | 18.3 | 5.5 | 490 | 642 |
| Unprotected spring Tanker truck/cart with small tank | 14.1 10.9 | 3.6 2.1 | 3,216 110 | 2,179 219 |
| Surface water | 14.3 | 3.2 | 2,031 | 2,253 |
| Other | 0.7 | 0.0 | 39 | 42 |
| Missing | 0.0 | 0.0 | 6 | 4 |
| Toilet facility ² | | | | |
| Improved, not shared | 11.4 | 4.0 | 830 | 916 |
| Shared ³ | 11.7 | 1.3 | 570 | 878 |
| Non-improved | 13.7 | 3.4 | 9,629 | 9,003 |
| Missing | 13.7 | 0.0 | 13 | 11 |
| Residence | | | | |
| Urban | 11.0 | 2.1 | 1,436 | 1,865 |
| Rural | 13.8 | 3.5 | 9,606 | 8,943 |
| Region | | | | |
| Tigray | 13.4 | 4.2 | 702 | 1,123 |
| Affar | 12.7 | 1.7 | 112 | 1,033 |
| Amhara | 13.7 11.3 | 4.5 2.6 | 2,478 | 1,203 |
| Oromiya Somali | 19.5 | 3.7 | 4,665 339 | 1,637 951 |
| Benishangul-Gumuz | 22.7 | 7.8 | 127 | 925 |
| SNNP | 16.4 | 3.3 | 2,305 | 1,491 |
| Gambela | 22.6 | 6.4 | 37 | 782 |
| Harari | 11.8 | 3.4 | 27 | 616 |
| Addis Ababa | 9.4 | 1.1 | 214 | 386 |
| Dire Dawa | 7.8 | 1.1 | 37 | 661 |
| Mother's education | 4 | | | |
| No education | 13.9 | 3.7 | 7,611 | 7,521 |
| Primary | 12.6 | 2.7 | 3,012 | 2,727 |
| Secondary More than secondary | 10.2 | 1.1 | 252 168 | 369 191 |
| More than secondary | 10.9 | 0.0 | 100 | 191 |
| Wealth quintile Lowest | 15.0 | 3.4 | 2,476 | 3,327 |
| Second | 12.3 | 3.7 | 2,476 | 1,950 |
| Middle | 13.1 | 3.6 | 2,277 | 1,738 |
| Fourth | 15.0 | 3.5 | 2,158 | 1,752 |
| Highest | 11.2 | 2.2 | 1,687 | 2,041 |
| Total | 13.4 | 3.3 | 11,042 | 10,808 |
| | | | , | . 0,000 |

Note: Total includes 6 cases with information missing on drinking water and 13 cases with information missing on toilet facilities.

1 See Table 2.1 for definition of categories.
2 See Table 2.2 for definition of categories.
3 Shared facility of an otherwise improved type

10.6.2 Treatment of Diarrhoea

Mothers of children with diarrhoea in the two weeks preceding the survey were asked what was done to manage or treat the illness. Table 10.8 shows the percentage of children with diarrhoea in the two weeks before the survey who were taken to a health facility or provider for treatment, the percentage who received ORT, and the percentage who were given other treatments, by background characteristics.

Overall, 32 percent of the children with diarrhoea were taken for advice or treatment to a health facility or provider. Children age 24-35 months were more likely than children in other age groups to be taken to a health facility or provider for treatment (39 percent). The differences in percentages of children taken for treatment were small between male and female children and by type of diarrhoea. Urban children were considerably more likely to have been taken for advice or treatment for diarrhoea than rural children (54 percent versus 29 percent). Children of highly educated mothers and those in the highest wealth quintile are more likely than other children to be taken to a health facility or provider for treatment when they have diarrhoea. For example, 22 percent of children in the lowest wealth quintile were taken to a health facility or provider for treatment of diarrhoea compared with 53 percent of children in the highest wealth quintile.

During diarrhoea, oral rehydration therapy (ORT) is a simple and effective remedy for dehydration. It involves giving the child a solution prepared by mixing water with a commercially prepared packet of oral rehydration salts (ORS) or recommended home fluids (RHF), usually a homemade sugar-salt-water solution. Twenty-six percent of children with diarrhoea were treated with ORS packets and 8 percent were treated with RHF. Sixteen percent of children with diarrhoea were given increased fluids. Overall, two children in every five with diarrhoea were treated with some form of ORT or increased fluids, while 42 percent of children did not receive any form of treatment.

Comparable data from the 2000 EDHS and 2005 EDHS show an increase in mothers' health-seeking behaviour for children with diarrhoea over the past decade. The percentage of children with diarrhoea who were taken to a health provider increased steadily from 13 percent in 2000 to 22 percent in 2005 and 32 percent in 2011.

Table 10.8 Diarrhoea treatment

Percentage

31.8

26.3

Total

7.5

30.7

Among children under age five who had diarrhoea in the two weeks preceding the survey, the percentage for whom advice or treatment was sought from a health facility or provider, the percentage given oral rehydration therapy (ORT), the percentage given increased fluids, the percentage given ORT or increased fluids, and the percentage given other treatments, by background characteristics, Ethiopia 2011

of children with diarrhoea for Unwhom advice Oral rehydration therapy (ORT) Other treatments Weighted or treatment weighted was sought Recomnumber of number of Fluid from Either ORT or Antifrom a health mended Anti-Home children children Background ORS home fluids ORS or Increased increased biotic motility No facility or remedy with with RHF diarrhoea diarrhoea characteristic fluids fluids drugs drugs other Missing treatment Age in months 22.3 4.2 12.4 15.3 4.5 18.4 7.4 0.0 24.5 1.9 59.4 132 <6 144 6-11 29.1 26.9 6.9 30.1 14.9 37.5 11.4 0.7 20.1 0.1 50.8 278 275 16.2 19.7 12-23 32.0 24.5 5.3 28.0 39.4 13.3 0.4 21.4 0.0 39.5 436 478 24-35 38.5 33.0 8.0 37.9 49.8 18.0 0.1 22.9 0.1 33.6 289 346 29.2 38.2 20.8 226 36-47 32.9 44.9 212 15.6 15.1 0.1 0.1 35.2 13.1 9.2 9.6 0.1 3.9 48-59 29.6 28.4 36.4 46.1 151 Sex Male 31.1 28.3 7.9 32.8 15.5 0.4 19.9 0.7 39.5 814 859 Female 32.6 23.8 6.9 28.1 15.4 36.3 12.0 0.1 23.9 0.4 45.6 670 761 Type of diarrhoea Non-bloody 32.5 24.8 8.1 29.3 15.4 38.1 12.6 0.3 20.7 0.3 45.1 982 1,085 Bloody 33.0 30.1 7 7 35.3 18.0 45.8 144 02 25.00.0 37 1 368 405 Missing 23.0 27.3 2.2 28.0 9.0 35.0 14.5 0.0 20.0 4.3 35.0 133 130 Residence 12.9 17.6 55.4 20.3 25.3 158 Urban 53.5 44.6 51.4 0.2 0.0 27.4 228 Rural 29.2 24.1 6.9 28.2 37.8 12.4 0.3 21.3 0.6 44.0 1,326 1,392 Region Tigray 8.7 30.2 0.0 13.7 9.4 2.1 11.1 44.9 42.3 Affar 399 32 8 38.6 399 12.9 0.0 127 24 14 128 27.6 0.0 13.1 172 25.4 23.1 339 Amhara 33.1 38.3 0.0 Oromiya 35.3 23.8 4.9 26.8 19.8 40.6 13.9 0.0 22.3 1.5 40.9 529 195 Somal 19.7 30.6 8.2 33.9 6.8 36.1 8.1 0.8 15.7 0.4 54.4 66 179 Benishangul-50.1 28.7 17.0 38.6 8.7 43.6 24.2 1.6 26.3 0.4 29.7 29 204 Gumuz SNNP 31.0 25.1 6.7 28.9 11.4 34.9 13.0 0.0 21.3 0.0 45.7 378 255 Gambela 47.7 45.3 7.1 48.7 12.9 53.6 16.9 3.0 27.8 0.0 24.0 8 177 45.0 Harari 38.6 9.5 44.2 5.8 48.1 22.5 2.7 23.4 1.1 30.2 3 73 Addis Ababa (8.0)20 36 (47.2)(56.5)(65.1)(0.0)(27.8)(27.1)(43.4)(32.0)(34.1)(0.0)Dire Dawa (46.4) (42.8)(8.6)(45.6) (10.9)(48.6)(28.6)(0.0)(40.0) 49 Mother's education No education 28.9 23.5 6.2 27.4 12.1 34.8 11.7 0.1 21.5 0.3 46.2 1,060 1,125 Primary 34.6 29.7 44.6 9.4 35.0 23.5 27.0 49.1 15.0 0.4 3.9 21.9 1.4 34.2 23.9 380 433 24.6 Secondary 61.2 29.2 57.5 61.3 17.2 0.0 26 46 More than secondary 18 16 Wealth quintile Lowest 22.4 18.0 6.1 21.8 16.5 34.8 10.5 0.3 17.6 0.7 49.6 372 539 Second 25.4 35.3 22.4 27.0 4.3 8.9 24.6 33.4 14.9 12.3 33.3 39.3 15.9 9.5 0.2 0.6 22.0 19.6 0.2 0.0 46.5 42.9 301 274 273 298 Middle Fourth 32.8 27.7 31.4 16.7 41.2 13.8 0.1 22.1 1.6 41.0 323 304 Highest 53.0 45.3 13.5 52.4 17.3 57.5 19.3 0.2 31.8 0.0 22 1 190 230

Note: ORT includes fluid prepared from oral rehydration salt (ORS) packets or recommended home fluids (RHF). Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

1 Excludes pharmacy, drug vendor/store, shop, and traditional healer

15.5

39.7

0.3

13.2

21.7

0.6

42.2

1.483

1.620

10.6.3 Feeding Practices during Diarrhoea

Mothers are encouraged to continue feeding and increase the amount of liquids given to their children when they suffer from diarrhoeal illnesses. These practices help to reduce dehydration and also minimize the adverse consequences of diarrhoea on the child's nutritional status. Mothers interviewed in the 2011 EDHS were specifically asked whether they gave the child who had diarrhoea in the two weeks preceding the survey more or less fluid and food than usual.

Table 10.9 shows that 16 percent of children with diarrhoea were given more fluids than usual, as recommended. More than one-third of children (35 percent) were given the same amount of fluids as usual. However, almost one child in every two (49 percent) were offered less fluid than usual or were given no fluids at all: 28 percent were offered somewhat less, 13 percent were offered much less, and 7 percent of children were offered no fluids at all. Likewise, almost one child in every two children (48 percent) was offered less food than usual: 25 percent were offered somewhat less, 16 percent were offered much less, and 7 percent of children were offered no food at all. Only 10 percent of children with diarrhoea were given increased liquids and continued feeding as recommended, while 25 percent of children with diarrhoea continued to feed and were given ORT or increased fluids. These findings suggest that a large proportion of mothers still engage in the dangerous practice of curtailing fluids and food intake when their children have diarrhoea.

Table 10.9 Feeding practices during diarrhoea

Percent distribution of children under age five who had diarrhoea in the two weeks preceding the survey by amount of liquids and food offered compared with normal practice, the percentage of children given increased fluids and were given ORT and/or increased fluids during the episode of diarrhoea, by background characteristics, Ethiopia 2011

Percentage

| | | | Amount | Amount of liquids given | iven | | | | | Am | Amount of food given | nd given | | | | Percentage given increased | who continued feeding and | Meidhie | Loweighted | |
|----------------------------------|--------------------|----------------------|----------------------|-------------------------|-------------|---------------------------|----------------|----------------|--------------------|------------------|----------------------|--------------------------|-----------------------|---------------------------|----------------|----------------------------------|-----------------------------|-------------------|---|--|
| Background characteristic | More | Same as usual | Somewhat less | Much | None | Don't know/ missing | Total | More | Same as usual | Somewhat less | Much | None | Never gave food | Don't know/ missing | Total | fluids and continued feeding | ORT and/or increased fluids | - 5 | number of children with diarrhoea | |
| Age in months | 4.5 | 30.0 | 31.9 | 13.6 | 19.8 | 0.1 | 100.0 | 0.1 | 8,5 | 10.1 | 3.8 | 0.0 | 75.8 | 9.1 | 100.0 | 0.1 | 2,4 | 132 | 1 44 44 | |
| 6-11 | 4.0 6.0 | 32.4 | 27.9 | 6.0 | 11.3 | 0.2 | 100.0 | 8.0 | 24.9 | 18.2 | 11.6 | 6.6 | 31.6 | 0.0 | 100.0 | 8.0 | 18.7 | 278 | 275 | |
| 24-35 | 19.7 | 33.7 | 27.6 | 15.3 | 2.8 | 0.0 4.0 | 100.0 | 9.3 9.5 | 31.9 31.9 | 30.1 | 17.8 | 10.1 | 0.2 | 0.7 | 100.0 | 2.4 9.1. | 35.1 | 430 289 | 346 | |
| 36-47 48-59 | 15.6 15.5 | 32.8 47.4 | 32.5 25.5 | 10.0 6.7 | 8.8 0.0 | 0.2 1.1 | 100.0 100.0 | 7.7 5.6 | 37.8 44.2 | 29.2 20.5 | 19.9 23.2 | 5.4 5.5 | 0.0 | 0.0 1.1 | 100.0 100.0 | 11.2 9.3 | 35.2 21.2 | 212 136 | 226 151 | |
| Sex | 1 | | 1 | | ı | • | 0 | | 0 | | ! | 1 | | , | 0 | 0 | į | | i | |
| Male Female | 15.5 15.4 | 34.4 36.4 | 27.9 28.1 | 13.8 12.9 | 6.8 6.8 | 0.1 0.4 | 100.0 | 6.9 9.4 | 30.3 29.4 | 24.0 25.5 | 15.5 17.6 | 5.7 7.9 | 16.5 14.7 | 1.1 0.3 | 100.0 | 9.0 8.0 | 27.4 22.2 | 814 670 | 859 761 | |
| Type of diarrhoea | Ļ | Ċ | 0 | | 1 | ć | 0 | Ļ | ç | Ċ | | Ċ | | • | 0 | | 2 | Ö | 200 | |
| Nort-bloody Bloody Missing | . 8 4. 0. 0 | 33.0 33.0 50.5 | 28.2 28.2 28.3 | 7.4.0 7.1.1 | 6.5 | 0.0 c | 100.0 | 0.7.4 0.2.7 | 27.1 27.1 | 25.7 27.7 | 20.9 20.9 | 6.0 7.0 7.0 7.0 | 0.6.4 0.4.0 | 0.0 r | 966 | 2.8 4.6 7.0 | 26.8 26.8 | 368 368 133 | ,000 405 130 | |
| Residence | 0.0 | C.63 | 20.7 | | 5 | 5 | 0.00 | ř | 7:17 | 1.12 | <u>;</u> | 7:7 | <u>;</u> | 5 | 0.00 | ř | 0. | 3 | 2 | |
| Urban Rural | 17.6 15.2 | 44 24.52 | 15.4 29.5 | 15.0 13.2 | 7.8 | 0.0 | 100.0 100.0 | 8.5 5.6 | 38.3 28.9 | 12.6 26.1 | 19.0 16.1 | 7.2 6.6 | 14.3 15.9 | 0.0 0.9 | 100.0 100.0 | 13.1 9.6 | 29.3 24.6 | 158 1,326 | 228 1,392 | |
| Region | | | ! | | , | , | | | ; | , | , | | | , | | , | | , | | |
| Tigray Affar | 30.2 2.1 | 43.2 14.4 | 17.2 38.9 | 6.8 36.7 | 2.6 7.2 | 0.0 0.7 | 100.0 100.0 | 11.1 | 44.5 20.6 | 23.8 30.2 | 9.6 38.4 | 2.7 | 8.4 7.2 | 0.0 0.7 | 100.0 100.0 | 24.8 0.8 | 43.0 19.9 | 94 4 4 | 152 128 | |
| Amhara | | 46.5 | 22.6 | 10.6 | 8.5 | - - | 100.0 | 9.7 | 36.2 | 21.8 | 11.7 | 4.0 8.0 | 16.3 | 6.6 | 100.0 | 8.2 | 29.3 | 339 | 172 | |
| Somali | | 27.8 | 30.8 | 23.2 | 8.1 | 3.3 | 100.0 | 3.0 | 14.5 | 33.3 | 23.8 | 6.4 8.8 | 19.7 | 50. | 100.0 | 9.4 i.←. | 18.7 | 999 | 179 | |
| Benishangul-Gumuz SNNP | | 36.3 35.2 | 26.8 35.2 | 19.7 10.8 | 8.6 7.4 | 0.0 | 100.0 100.0 | 5.7 6.3 | 86.0 0.0 0.0 | 28.5 26.9 | 18.7 | 4 t 0 2 | 9.7 21.2 | 0.0 | 100.0 100.0 | ထ တ ထ ထ | 27.4 24.1 | 29 378 | 204 255 | |
| Gambela | | 29.1 | 31.1 | 20.9 | 6.1 | 0.0 | 100.0 | 7.1 | 20.7 | 29.3 | 18.8 | 18.2 | 11.2 | 0.0 | 100.0 | 5.6 | 27.0 | ω α | 177 | |
| Addis Ababa | (34.1) | (39.1) | (15.7) | 0.150 0.0j | (0.0) | -000 | 100.0 | (0.5) (0.5) | (35.4) | (27.9) | (19.3) | .6.5 (4.5) | (1.5) | -000 | 100.0 | (21.5) (2.5) | (43.3) | °2° | 283 | |
| Mother's education | (8.01) | (10.1) | (43.8) | (13.7) | (4.1.5) | (7.7) | 0.00 | (0.0) | (1.71) | (34.0) | (20.3) | (4.5) | (21.5) | (2.0) | 0.00 | (2.6) | (4.12) | n | 9 | |
| No education | 12.1 | 37.0 | 29.2 | 13.9 | 4.7 | 4.0 | 100.0 | 5.5 | 29.9 | 24.5 | 17.7 | 6.7 | 16.4 | 4.0 | 100.0 | 7.1 | 21.0 | 1,060 | 1,125 | |
| Primary Secondary | 23.5 27.0 | 30.7 34.4 | 24.3 37.8 | 12.4 0.0 | 0.0 | - O | 100.0 | 13.8 13.8 | 28.4 35.7 | 70.5 18.8 | 17.7 | 6.5 0.6 | 13.7 | . O. | 100.0 | 18.6 0.8 | 33.3 41.6 | 380 26 | 4 46 46 | |
| More than secondary | * | * | * | * | * | * | 100.0 | * | * | * | * | * | * | * | 100.0 | * | * | 18 | 16 | |
| Wealth quintile | | 3 | 1 | (| | 0 | 0 | • | 1 | i | , | | , | , | 0 | , | | 0 | C | |
| Lowest Second | 16.9 7.9 7.9 | 31.9 38.4 | 27.6 29.4 | 17.5 | 10.6 5.3 | 0.9 | 100.0 | 4 4 છે ડાં | 27.1 32.9 | 25.1 23.1 | 13.4 18.0 | 10.5 3.7 | 18.0 18.1 | 0.0 | 100.0 | 10.1 6.6 | 24.0 17.9 | 372 301 | 539 274 | |
| Middle | 12.3 | 33.8 | 33.4 | 12.9 | 7.7 | 0.0 | 100.0 | 5.1 | 27.1 | 29.4 | 18.2 | 4.8 8.4 | 15.3 | 0.0 | 100.0 | 8.7 | 25.3 | 298 | 273 | |
| Highest | 17.3 | 36.4 36.4 | 24:3 24:4 | 15.1 | 6.8 6.8 | 0.0 | 100.0 | 8.2 | 32.4 | 21.6 | 17.8 | 5.8 | 14.2 | 0.0 | 100.0 | 13.3 | 34.0 3.0 | 190 | 230 | |
| Total | 15.5 | 35.3 | 28.0 | 13.4 | 7.1 | 0.8 | 100.0 | 6.5 | 29.9 | 24.7 | 16.4 | 6.7 | 15.7 | 8.0 | 100.0 | 10.0 | 25.1 | 1,483 | 1,620 | |

Note: It is recommended that children should be given more liquids to drink during diarrhoea and that food should not be reduced. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
Continued feeding practices includes children who were given more, same as usual, or somewhat less food during the diarrhoea episode.

10.7 KNOWLEDGE OF ORS PACKETS

A simple and effective response to dehydration caused by diarrhoea is a prompt increase in the child's fluid intake through some form of oral rehydration therapy (ORT). ORT may include the use of a solution prepared from commercially produced packets of oral rehydration salts (ORS); a homemade mixture usually prepared from sugar, salt, and water; any kind of thin, nutritious fluids such as rice water, coconut milk, or watery soup; or simply increased fluids. To ascertain how widespread knowledge of ORS is in Ethiopia, mothers were asked whether they knew about ORS packets.

Table 10.10 shows that 65 percent of mothers with a live birth in the five years preceding the survey had heard about ORS packets. Mothers older than 25 years were more likely to have heard of ORS packets than younger mothers. Knowledge is more widespread in urban areas (87 percent) than in rural areas (61 percent). More than 90 percent of women in Addis Ababa, Dire Dawa, Harari, and Tigray know about ORS packets. Levels of knowledge increase with education and with household wealth.

| Table 10.10 Knowledge of ORS packets |
|---|
| Percentage of women age 15-49 with a live birth in the five years preceding the survey who know about ORS packets for treatment o diarrhoea, by background characteristics, Ethiopia 2011 |

| Background characteristic | Percentage of women who know about ORS | Weighted number of | Unweighted number of |
|---|--|--|---|
| characteristic | packets | women | women |
| Age 15-19 20-24 25-34 35-49 | 49.4 61.7 67.8 66.2 | 402 1,608 3,872 2,026 | 416 1,596 3,799 1,953 |
| Residence Urban Rural | 86.5 61.4 | 1,188 6,720 | 1,513 6,251 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 93.9 69.2 60.6 60.4 74.3 60.7 65.5 80.6 93.2 91.7 92.1 | 530 78 1,991 3,116 198 92 1,634 31 19 193 26 | 847 714 965 1,100 559 674 1,053 608 440 348 456 |
| Education No education Primary Secondary More than secondary | 59.4 73.8 93.7 98.2 | 5,270 2,270 226 142 | 5,184 2,095 312 173 |
| Wealth quintile Lowest Second Middle Fourth Highest | 55.1 59.0 59.4 69.4 88.4 65.2 | 1,739 1,696 1,628 1,493 1,351 7,908 | 2,279 1,354 1,241 1,229 1,661 7,764 |
| ORS = Oral rehydration salts | <u> </u> | | |

10.8 STOOL DISPOSAL

The proper disposal of children's faeces is extremely important in preventing the spread of disease. Contact with human faeces directly, or indirectly by animal contact with the faeces, can lead to diarrhoeal diseases. Table 10.11 presents the percent distribution of mothers who have their youngest child under age 5 living with them by how the child's stools are disposed of, according to background characteristics and type of toilet facilities in the household. Thirty-six percent of children's stools are safely disposed, that is, 6 percent of children use a toilet or latrine, 29 percent of children's stools are rinsed in the toilet or latrine, and 1 percent is buried. In contrast, the stools of two children in every five are left in the open, and 14 percent are thrown into the garbage.

There are marked differences in the way children's stools are disposed of according to background characteristics. A higher proportion of urban children's stools are disposed of safely than of rural children's stools (63 and 31 percent, respectively). Regional differentials in safe disposal also are substantial. For example, in Addis Ababa, 75 percent of children's stools are disposed of safely compared with 24 percent in Gambela. Safe disposal of children's stools increases with mother's level of education and with household wealth. Comparable data from the 2005 EDHS show an increase in safe stool disposal from 21 percent to 36 percent over the five years between surveys.

Table 10.11 Disposal of children's stools

Percent distribution of youngest children under age 5 living with the mother, by the manner of disposal of the child's last faecal matter, and percentage of children whose stools are disposed of safely, according to background characteristics, Ethiopia 2011

| | | | Manner | of disposa | of childre | n's stools | | | | Percentage | | |
|---|---|---|---|---|--|---|---|--|--|--|--|---|
| Background characteristic | Child used toilet or latrine | Put/ rinsed into toilet or latrine | Buried | Put/ rinsed into drain or ditch | Thrown into garbage | Left in the open | Other | Missing | Total | of children whose stools are disposed of safely ¹ | Weighted number of children | Unweighted number of children |
| Age in months | | | | | | | | | | | | |
| 46 6-11 12-23 24-35 36-47 48-59 | 0.2 0.5 1.6 5.0 12.5 25.5 | 17.3 29.8 33.3 32.9 27.2 30.6 | 1.2 1.1 0.8 1.5 1.2 0.5 | 7.1 4.4 2.8 2.0 1.8 1.3 | 11.2 17.2 16.5 15.7 11.7 8.1 | 39.9 37.8 42.2 40.9 44.2 32.3 | 21.9 8.2 2.3 1.1 0.8 0.5 | 1.2 1.0 0.4 0.9 0.5 1.2 | 100.0 100.0 100.0 100.0 100.0 100.0 | 18.7 31.4 35.7 39.4 40.9 56.6 | 1,248 1,113 1,836 1,495 1,153 738 | 1,187 1,033 1,817 1,579 1,094 676 |
| Toilet facility ² | | | | | | | | | | | | |
| Improved, not shared Shared ³ Non-improved | 11.3 4.9 5.4 | 43.3 58.0 25.7 | 0.1 0.5 1.2 | 3.3 5.3 3.2 | 12.9 10.2 14.4 | 23.6 17.7 43.2 | 4.9 2.7 6.0 | 0.6 0.7 0.9 | 100.0 100.0 100.0 | 54.7 63.4 32.3 | 596 419 6,560 | 664 641 6,073 |
| Residence Urban Rural | 5.2 6.0 | 56.1 24.3 | 1.2 1.1 | 4.6 3.1 | 11.7 14.4 | 16.0 44.4 | 3.7 6.1 | 1.5 0.7 | 100.0 100.0 | 62.5 31.3 | 1,099 6,485 | 1,388 5,998 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 3.2 1.5 6.5 5.5 0.6 4.3 8.0 2.2 4.9 2.6 3.7 | 29.4 8.6 18.1 26.8 28.1 40.9 41.1 20.3 33.4 72.6 42.8 | 2.1 23.0 0.7 0.6 6.3 0.6 0.6 1.6 2.7 0.0 | 2.9 7.4 3.1 4.0 1.5 2.5 0.9 9.7 21.0 13.3 3.9 | 12.8 26.1 13.1 14.2 17.3 9.0 15.2 16.1 16.4 6.3 30.3 | 47.2 32.8 53.9 37.5 41.2 40.1 31.5 47.4 20.1 3.7 16.3 | 2.0 0.4 3.1 11.0 3.0 2.1 1.7 1.7 1.1 0.9 | 0.4 0.2 1.4 0.4 2.0 0.5 1.0 1.0 0.5 0.5 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 34.7 33.1 25.4 32.9 35.1 45.8 49.7 24.1 41.0 75.2 47.4 | 515 73 1,922 2,988 185 89 1,563 26 18 180 25 | 823 673 931 1,055 528 648 1,010 551 411 323 433 |
| Mother's education No education Primary Secondary More than secondary | 5.4 6.7 7.3 4.2 | 23.3 36.9 55.5 71.0 | 1.2 0.9 0.7 0.2 | 2.9 4.0 4.5 4.0 | 15.4 11.5 11.0 6.5 | 45.2 33.4 9.8 10.2 | 5.7 5.9 7.2 2.4 | 0.8 0.6 4.0 1.5 | 100.0 100.0 100.0 100.0 | 29.9 44.6 63.5 75.5 | 5,080 2,165 209 130 | 4,972 1,968 291 155 |
| Wealth quintile Lowest Second Middle Fourth Highest Total | 2.7 6.7 5.3 8.2 6.9 | 13.2 17.8 27.9 37.2 55.8 28.9 | 2.0 0.8 1.1 0.7 0.6 | 3.4 3.7 3.0 2.4 4.1 | 14.0 18.0 12.8 11.9 12.7 | 59.1 45.4 41.9 33.8 14.1 40.3 | 4.9 6.3 7.4 5.5 4.5 | 0.6 1.4 0.6 0.4 1.2 | 100.0 100.0 100.0 100.0 100.0 | 17.9 25.2 34.3 46.1 63.3 35.8 | 1,670 1,637 1,571 1,442 1,264 7,584 | 2,183 1,309 1,193 1,174 1,527 7,386 |

Note: Total includes 9 cases with missing information on toilet facilities.

Children's stools are considered to be disposed of safely if the child used a toilet or latrine, if the faecal matter was put/rinsed into a toilet or latrine or if it was buried.

2 See Table 2.2 for definition of categories.

3 Shared facility of an otherwise improved type.

NUTRITION OF CHILDREN AND ADULTS

Key Findings

- There has been a marked decline in the proportion of children stunted and underweight in the last 11 years.
- Breastfeeding is nearly universal in Ethiopia and half of children born in the three years before the survey are breastfed for about 25 months.
- More than half (52 percent) of children less than 6 months old are exclusively breastfed.
- Complementary foods are not introduced in a timely fashion for all children. At 6-9 months only about half of children receive complementary foods.
- Overall, only 4 percent of children age 6-23 months are fed appropriately, based on the recommended infant and young child feeding (IYCF) practices.
- Forty-four percent of children age 6-59 months are anaemic, with 21 percent mildly anaemic, 20 percent moderately anaemic, and 3 percent severely anaemic.
- Overall, 17 percent of women age 15-49 are anaemic; 13 percent are mildly anaemic, 3 percent are moderately anaemic, and less than 1 percent are severely anaemic.
- Twenty-seven percent of women age 15-49 are thin, that is, they fall below the cut-off of 18.5 for the body mass index (BMI), and 9 percent are moderately or severely thin. Only 6 percent of women are overweight or obese (BMI ≥25 kg/m²).

utritional status is the result of complex interactions between food consumption and the overall status of health and health care practices. Numerous socioeconomic and cultural factors influence patterns of feeding children and the nutritional status of women and children. The period from birth to age two is especially important for optimal growth, health, and development. Unfortunately, this period is often marked by micronutrient deficiencies that interfere with optimal growth. Additionally, childhood illnesses such as diarrhoea and acute respiratory infections (ARI) are common. For women, improving overall nutritional status throughout the life cycle is crucial to maternal health. Women who become malnourished during pregnancy and children who fail to grow and develop normally due to malnutrition at any time during their life, including during foetal development, are at increased risk of perinatal problems, increased susceptibility to infections, slowed recovery from illness, and possibly death. Improving maternal nutrition is crucial for improving children's health.

The poor nutritional status of children and women has been a serious problem in Ethiopia for many years. Therefore, the health sector has increased its efforts to enhance good nutritional practices through health education, treatment of extremely malnourished children, and provision of micronutrients to the most vulnerable group of the population, that is, mothers and children. In addition, the Health Extension Programme (HEP) has included nutrition as part of their health packages. A national nutrition strategy and programme has also been developed and implemented by the Government of Ethiopia. The Health Sector Development Plan IV (2010/11-2014/15) strives to improve the nutritional status of mothers and children through the following programmes: Enhanced Outreach Strategy (EOS) with Targeted Supplementary Food (TSF) and Transitioning of EOS into HEP, Health Facility Nutrition Services, Community Based Nutrition (CBN), and Micronutrient Interventions and Essential Nutrition Actions/Integrated Infant and Young Feeding Counselling Services.

The 2011 EDHS asked questions about early initiation of breastfeeding, exclusive breastfeeding during the first six months of life, continued breastfeeding until at least age 2, timely introduction of complementary foods at age 6 months (with increasing frequency of feeding solid and semi-solid foods), and diet diversity. Interviewers measured the height and weight of all children under age 5 and of women and men age 15-49. This chapter also presents findings on infant feeding practices, maternal eating patterns, household testing of salt for adequate levels of iodine, and the nutritional status of women, men, and children.

11.1 NUTRITIONAL STATUS OF CHILDREN

The nutritional status of children under age five is an important outcome measure of children's health. The anthropometric data on height and weight collected in the 2011 EDHS permit the measurement and evaluation of the nutritional status of young children. This evaluation allows identification of subgroups of the child population that are at increased risk of faltered growth, disease, impaired mental development, and death.

11.1.1 Measurement of Nutritional Status among Young Children

The 2011 EDHS collected data on the nutritional status of children by measuring the height and weight of all children under age five. Data were collected to calculate three indices of anthropometric indicators—weight-for-age, height-for-age, and weight-for-height.

For this report indicators of the nutritional status of children were calculated using new growth standards published by the World Health Organization (WHO) in 2006. These new growth standards were generated using data collected in the WHO Multicentre Growth Reference Study (WHO, 2006). The findings of the study, whose sample included 8,440 children in six countries (Brazil, Ghana, India, Norway, Oman, and the United States), describe how children should grow under optimal conditions. Therefore, the WHO Child Growth Standards can be used to assess children all over the world, regardless of ethnicity, social and economic influences, and feeding practices. The new child growth standards replace the previously used reference standards of the U.S. National Center for Health Statistics, accepted by the U.S. Centers for Disease Control and Prevention (NCHS/CDC/WHO).

The three indices are expressed as standard deviation units from the median for the reference group. Children who fall below minus two standard deviations (-2 SD) from the median of the reference population are regarded as moderately malnourished, while those who fall below minus three standard deviations (-3 SD) from the median of the reference population are considered severely malnourished.

The height-for-age index provides an indicator of linear growth retardation and cumulative growth deficits in children. Children whose height-for-age Z-score is below minus two standard deviations (-2 SD) from the median of the WHO reference population are considered short for their age (stunted), or chronically malnourished. Children who are below minus three standard deviations (-3 SD) are considered severely stunted. Stunting reflects failure to receive adequate nutrition over a long period of time and is affected by recurrent and chronic illness. Height-for-age, therefore, represents the long-term effects of malnutrition in a population and is not sensitive to recent, short-term changes in dietary intake.

The weight-for-height index measures body mass in relation to body height or length; it describes current nutritional status. Children with Z-scores below minus two standard deviations

(-2 SD) are considered thin (wasted) or acutely malnourished. Wasting represents the failure to receive adequate nutrition in the period immediately preceding the survey and may be the result of inadequate food intake or a recent episode of illness causing loss of weight and the onset of malnutrition. Children with a weight-for-height index below minus three standard deviations (-3 SD) are considered severely wasted.

The weight-for-height index also provides data on overweight and obesity. Children more than two standard deviations (+2 SD) above the median weight-for-height are considered overweight, or obese.

Weight-for-age is a composite index of height-for-age and weight-for-height. It takes into account both chronic and acute malnutrition. A child can be underweight for his/her age because he or she is stunted, wasted, or both. Weight-for-age is an overall indicator of a population's nutritional health. Children with weight-for-age below minus two standard deviations (-2 SD) are classified as underweight. Children with weight-for-age below minus three standard deviations (-3 SD) are considered severely underweight.

Importantly, the WHO Child Growth Standards reference population used for the 2011 EDHS differs from that used in past DHS surveys, and thus the measures from the 2011 EDHS are not directly comparable to previous EDHS results, which use the US Center for Health Statistics standards (NCHS/CDC/WHO). When the new WHO child growth standards are used in place of the previous reference, the following changes are observed:

- The level of stunting is usually greater, but not for all age groups.
- The level of wasting in infancy is substantially higher, particularly in the first six months of life.
- The level of underweight is substantially higher during the first half of infancy (0-6 months) and decreases thereafter.
- The level of overweight/obesity is higher.

11.1.2 Data Collection

Interviewing teams obtained measurements of height and weight for all children born in the five years preceding the survey and listed in the Household Questionnaire. The survey included children who were not biological offspring of the women interviewed. Each interviewing team carried a scale and measuring board. The scales were lightweight electronic SECA scales with a digital screen. They were designed and manufactured under the authority of the United Nations Children's Fund (UNICEF). Shorr Productions manufactured the measuring boards especially for use in survey settings. Interviewers measured children younger than 24 months lying down on the board (recumbent length) and measured the standing height of older children. In a few cases the team measured recumbent length—when the child's age was not known and the child was less than 85 centimetres tall. The scale allowed weighing of very young children through an automatic mother-child adjustment that eliminated the mother's weight while she was standing on the scale with her baby.

A total of 11,152 children under age five were eligible to be weighed and measured. Data are presented for 10,282 (10,883 children weighted) of these children: 5 percent had missing values for height or weight and 3 percent had height or weight measures considered to be out of the range for their ages. Table 11.1 and Figure 11.1 show the percentage of children under age 5 classified as malnourished according to the three anthropometric indices of nutritional status: height-for-age, weight-for-height, and weight-for-age.

11.1.3 Measures of Children's Nutritional Status

Height-for-age

Nationally, 44 percent of children under age five are stunted, and 21 percent of children are severely stunted. In general, the prevalence of stunting increases as the age of a child increases, with the highest prevalence of chronic malnutrition found in children age 24-35 months (57 percent) and lowest in children under age six months (10 percent). Male children are slightly more likely to be stunted than female children (46 percent and 43 percent, respectively). With the exception of first order births, there is an inverse relationship between the length of the preceding birth interval and the proportion of children who are stunted. The longer the interval, the less likely it is that the child will be stunted.

Size at birth is an important indicator of a child's nutritional status and the likelihood that a child will be chronically malnourished. Stunting is more common among children who were reported to have been very small at birth (52 percent) than among children who were small or average or larger in size at birth.

The mother's nutritional status, as measured by her body mass index (BMI), also has an inverse relationship with her child's level of stunting. For example, children of thin mothers (BMI <18.5) are more likely to be stunted (47 percent) than the children of overweight/obese (BMI \ge 25) mothers (26 percent).

Children in rural areas are one and a half times more likely to be stunted (46 percent) than those in urban areas (32 percent). Regional variation in the prevalence of stunting in children is substantial. Stunting levels are somewhat above the national average in the Amhara (52 percent), Tigray (51 percent), Affar (50 percent), and Benishangul-Gumuz (49 percent) regions and are lowest in Addis Ababa and the Gambela region (22 and 27 percent, respectively).

The mother's level of education generally has an inverse relationship with stunting levels. For example, children of mothers with more than secondary education are the least likely to be stunted (19 percent), while children whose mothers have no education are the most likely to be stunted (47 percent). A similar inverse relationship is observed between the household wealth index and the stunting levels of children; that is, a higher proportion of children in the lowest household wealth quintile are stunted (49 percent) than of children in the highest wealth quintile (30 percent).

Table 11.1 Nutritional status of children
Percentage of children under five years classified as malnourished according to three anthropometric indices of nutritional status: height-for-age, weight-for-age, by background characteristics, Ethiopia 2011

| | I | Height-for-age ¹ | | | Weight-for-height | height | | | Weight-for-age | r-age | | | |
|---|---------------------------|--|-------------------------|---|--|---------------------------|-------------------------|-----------------------------|--|---------------------------------|-------------------------|-----------------------------------|-------------------------------------|
| Background characteristic | Percentage below -3 SD | Percentage below -2 SD ² | Mean Z-score (SD) | Percentage below -3 SD | Percentage below -2 SD ² | Percentage above +2 SD | Mean Z-score (SD) | Percentage below -3 SD | Percentage below -2 SD ² | Percentage above +2 SD | Mean Z-score (SD) | Weighted number of children | Unweighted number of children |
| Age in months | 2.7 | 10.0 | , 1 | 5.4 | 13.5 | 4 5 | | رد د | 10.0 | 3.5 | 4 | 1 078 | 1 015 |
| 8-9 | 4.5 | 12.2 | -0.4 | 3.4 | 13.8 | 2.4 | | 4.0 | 13.2 | 0.2 | 8.0 | 580 | 526 |
| 9-11 | 13.9 | 31.6 | د . ز | 6.3 | 18.9 | 8.7 | | 6.6 | 29.1 | 0.3 | | 499 | 424 |
| 12-17 | 16.4 | 40.2 | را دن د | 5 5 8 7 | 16.1 | | | 0.00 12.00 | 28.5 | | | 1,002 | 1,030 |
| 16-23 24-35 | 30.2 | 49.9 57.1 | -252 | 2.5 | 8.4 | 5.4 5.8 | 6. 4. | 12.5 | 33.9 | 0.5 | | 2.043 | 2.015 |
| 36-47 48-59 | 23.7 | 54.6 49.1 | -2.1 | 0. rc | 5.9 | 0.5 | 0.0 4.0 | 8.7 | 32.5 | 0.0 | <u>1</u> 2 دن دز | 2,450 | 2,260 |
| Sex |) i | - 5 | i | 2 | ò | : | | i | : | 5 | | 1 | i |
| Male Female | 21.7 19.4 | 46.2 42.5 | -1.7 | 3.6 9.0 | 11.1 8.2 | . ი. ი. | 0.6 0.5 | ත හ හි හි | 30.5 26.8 | 0.6 0.8 | <u>-</u> - 4 დ | 5,584 5,299 | 5,238 5,044 |
| Birth interval in months3 | | : | | | (| | | | į | | | | |
| First birth* <24 | 19.0 24.5 | 44.1 49.3 | 6: | | න ල ව | 2.6 2.0 2.0 | 4.0. 5.0. | | 31.3 | 9.0 6.0 | ئ ئے بن 4 | 1,870 | 1,819 1,633 |
| 24-47 48+ | 21.0 | 44.8 39.1 | <u></u> | 3.1 | 9.9 | د. و | 9.0 | 9.8 | 30.0 | 0.0 | 4. C | 4,913 | 4,402 |
| Size at birth |) (i (| . (| 2 (| |) (| 2 (|) (| | |) (| | | |
| Very small Small | 26.0 21.4 | 51.8 45.9 | | 4.4 - 8. | 14.2 12.4 | 6. t. 6. t. | Ö Ö | 14.3 | 39.0 35.5 | 9.0 | -1.7 | 2,110 905 | 2,154 |
| Average or larger | 18.7 | 42.0 | -1.6 | 2.2 | 8.3 | 1.9 | -0.4 | 6.9 | 25.1 | 6.0 | -1.2 | 7,125 | 6,544 |
| Interviewed | 20.4 | 44.4 | -1.7 | 2.8 | 6.6 | 8.1 | -0.5 | 8.8 | 28.9 | 0.7 | -1.3 | 10,161 | 9,583 |
| not interviewed but in household | 21.6 | 41.1 | -1.6 | 3.5 | 8.7 | 0.5 | -0.4 | 13.8 | 32.2 | 0.8 | -1.3 | 224 | 238 |
| Not interviewed and not in the | 300 | 76.4 | , | c | 0 | 9 | 0 | 7 | 100 | Ċ | , | 407 | 767 |
| Mother's nutritional status | 63.5 | - - | <u>.</u> | | | | | | 73.1 | 0.0 | | 184 | 5 |
| Thin (BMI<18.5) Normal (BMI 18.5-24.9) Overweight/obese (BMI≥25) | 22.1 20.6 9.4 | 47.0 44.7 26.4 | 4.4.4 6.7.4 6.7.0 | 4 2 4 5 0 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 14.6 8.6 6.2 | | 0.0 0.40 | 12.2 8.3 1.9 | 38.9 27.1 11.6 | 0.4 0.7 3.2 | 6.4.0 6.6.0 | 2,138 7,574 457 | 2,538 6,509 564 |
| Residence Urban | 12.4 | 31.5 | -1.3 E. | 2.1 | 2.7 | 3.3 | -0.2 | 8.8 | 16.3 | 9.1 | 6.0- | 1,342 | 1,655 |
| Rural | 21.7 | 46.2 | - 1 89 | | | | 9.0- | 9.4 | 30.4 | 9.0 | 1 .4 | 9,541 | 8,627 |
| Tigray Affar | 22.4 | 51.4 | -2.0 | 3.0 | 10.3 | | 9.0 | 9.8 | 35.1 | 0.2 | 1.6 | 733 | 1,140 |
| Amhara | 24.2 | 22.0 27.0 | -2.0 | | 0.00 | -1.6 | 900 | 9.7 | 33.4 | 000 | . 4. | 2,325 | 1,120 |
| Somali | 16.1 | 33.0 | | 8.5 8.5 | 22.2 | | | 11.8 | 33.5 | . o. | | 4,723 278 | 798 |
| Benishangul-Gumuz SNNP | 27.0 | 48.6 44.1 | 5 7 6 7 | 2.5 | 9.6 7.6 | | 9.0 | 12.5 9.6 | 31.9 0.83 | 0.0 | ر دن د | 123 2.311 | 893 1 477 |
| Gambela | 10.7 | 27.3 | | 3.5 | 12.5 | 0.7 | -0.7 | 4.4 | 20.7 | 0.7 | | 333 | 735 |
| Addis Ababa | 5.9 | 22.0 | -0.8 | - - - | - 9.4 | | 0.0 | 1.7 | 6.4 | 2.5 | | 194 | 357 |
| Dire Dawa Mother's education ⁷ | 18.3 | 36.3 | 4.1- | 2.0 | 12.3 | | -0.7 | 10.4 | 27.6 | 9.0 | د . ن | 32 | 644 |
| No education | 22.5 | 46.7 | 5. t | 2.9 | 10.9 | 7:0 | 9.0- | 10.1 | 31.5 | 9.0 | 4 4:0 | 7,212 | 6,864 |
| Secondary | 0.6 | 20.0 | | 0.0 | | 0.4 | 0.0 | 2.0 | 11.7 | 6.0 | 7.0 | 229 | 315 |
| More than secondary | 4.1 | 18.9 | -0.7 | 2.4 | | 7.4 | -0.1 | 0.0 | 4.2 | 2.6 | -0.3 | 147 | 163 |
| Lowest | 25.5 | 49.2 | 6. 6 | 3.3 | | 1.7 | -0.6 | 12.0 | 35.6 | 0.9 | | 2,452 | 3,166 |
| Second | 23.1 21.8 | 47.7 45.6 | 2 \ | 4.7 5.7 | | | , ç | 11.1 | 333.7 28.8.7 8.8.7 | | ບ 4 | 2,385 2,285 | 1,878 |
| Fourth | 17.4 | 45.0 | -1.7 | 2.1 | | 1.5 | -0.5 | 5.9 | 25.8 | 0.4 | | 2,163 | 1,717 |
| Highest Total | 12.0 20.6 | 29.7 44.4 | | 2 - 5 8 6 | | 2.8 | 0 0.5 | 9.8 9.8 | 15.1 28.7 | 1.5 0.7 | ტ / დ დ | 1,593 10.883 | 1,814 10.282 |
| Note: Table is based on children who stayed in the household on the nig | who stayed in t | he household or | Ę. | efore the intervice | before the interview. Each of the indices is | ndices is expressed | ed in stand | in standard deviation units | | (SD) from the median of the WHO | Child | Growth Standards | g : |

racure is cose us uniformed are NOT comparable to those based on true ingrit before use interview. Each of the increase use the cose with missing information on size at birth. Table is based on children with valid dates of birth (month and year) and valid measurement of both height and weight.

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

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

Recumbent length is measured for children whose mothers are deceased

Excludes children whose mothers are deceased

Excludes children whose mothers were not weighed and measured. Mother's nutritional status in terms of BMI (Body Mass Index) is presented in Table 11.10

For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not interviewed.

Weight-for-height

Overall, 10 percent of Ethiopian children are wasted, and 3 percent are severely wasted. Wasting, or acute malnutrition, is highest in children age 9-11 months (19 percent) and lowest in children age 36-47 months (6 percent). Male children are slightly more likely to be wasted (11 percent) than female children (8 percent). Ten percent of children in rural areas are wasted, compared with 6 percent in urban areas. The data show an inverse correlation between wasting and birth weight. A higher proportion of babies who are reported as very small at birth (14 percent) are acutely malnourished than babies reported as average or larger in size (8 percent). Wasting is most common in the children of thin mothers (whose BMI is less than 18.5) (15 percent), in those residing in the Somali region (22 percent), in children whose mothers have no education (11 percent), and in those in the lowest two wealth quintiles (12 percent).

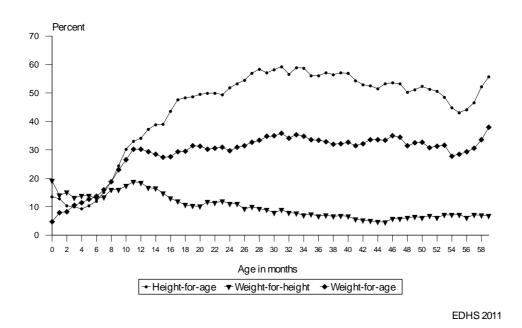
A small proportion of children in Ethiopia are classified as overweight or obese. Overall, 2 percent of children below age five years are overweight or obese (+2 SD). Overweight or obesity among children increases with increasing BMI of the mother, from 1 percent among children of mothers who are thin to 4 percent among children of mothers who are overweight/obese (BMI \geq 25). There are no substantial differences between male and female children. Variation by region is minimal except for Addis Ababa, where 6 percent of children under five, the highest percentage in all regions, are overweight or obese. Overweight and obesity do not correlate with wealth quintile. However, there is a positive relationship between mothers' education and level of overweight or obesity in children under five years of age.

Weight-for-age

Table 11.1 shows that 29 percent of children under age five are underweight (have low weight-for-age), and 9 percent are severely underweight. The proportion of underweight children generally increases with each age cohort. The proportion of underweight children is highest in the age groups 24-35 months (34 percent) and lowest among those under six months (10 percent). This may be explained by the fact that foods for weaning are typically introduced to children in the older age group, thus increasing their exposure to infections and susceptibility to illness. This tendency, coupled with inappropriate or inadequate feeding practices, may contribute to faltering nutritional status among children in these age groups. Also, babies reported as very small or small at birth are much more likely to be underweight later in life (39 percent and 36 percent, respectively) than those reported as average or large at birth (25 percent). Children born to mothers who are thin (BMI less than 18.5) are more than three times as likely to be underweight (39 percent) as children born to mothers who are overweight/obese (12 percent). The proportion of underweight children is eight times higher for those born to uneducated mothers than for those whose mothers have more than secondary education (32 percent versus 4 percent).

Rural children are more likely to be underweight (30 percent) than urban children (16 percent). The proportion of underweight children varies by region. Addis Ababa has the lowest proportion of underweight children, at 6 percent, while Affar has the highest prevalence of underweight children, at 40 percent. The proportion of underweight children decreases as the wealth quintile of the mother increases. Children born to mothers in the lowest wealth quintile are more than twice as likely to be underweight as children born to mothers in the highest wealth quintile (36 percent compared with 15 percent).

Figure 11.1 Nutritional Status of Children by Age

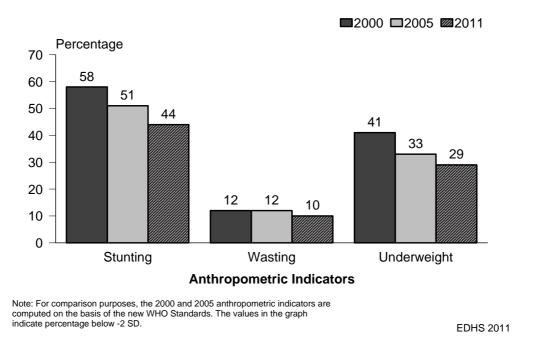


11.1.4 Trends in Children's Nutritional Status

Trends in the nutritional status of children for the period 2000, 2005 and 2011 are shown in Figure 11.2. For the purpose of comparison, the data for 2000 and 2005 were recalculated using the new WHO standard reference population making it comparable to the results of 2011 EDHS.

Figure 11.2 shows a downward trend in the proportion of children stunted and underweight over the three EDHS surveys. Stunting prevalence decreased by 12 percent (from 58 percent to 51 percent) between 2000 and 2005 and by an additional 14 percent to 44 percent between 2005 and 2011. The decline in the proportion of stunted Ethiopian children shows improvement in chronic malnutrition over the past eleven years. A similar pattern is also observed for the proportion of children underweight which dropped by 20 percent from 2000 to 2005 and 12 percent from 2005 to 2011. The prevalence of wasting in Ethiopia has remained constant over the last 11 years.

Figure 11.2 Trends in Nutritional Status of Children Under Age 5



11.2 Breastfeeding and Complementary Feeding

Infant feeding affects both the mother and the child. Feeding practices affect the child's nutritional status, which in turn affects the risk of death. The duration and intensity of breastfeeding affect the mother's period of postpartum infertility, and hence the length of the birth interval and fertility levels.

11.2.1 Initiation of Breastfeeding

Early initiation of breastfeeding is important for both the mother and the child. Early suckling stimulates the release of prolactin, which helps in the production of milk, and oxytocin, which is responsible for the ejection of milk and stimulates the contraction of the uterus after childbirth. The first liquid to come from the breast, known as colostrum, is produced in the first few days after delivery and provides natural immunity to the infant. It is recommended that children be fed colostrum immediately after birth and continue to be exclusively breastfed even if the regular breast milk has not yet let down.

The survey collected information on children who were ever breastfed, who were breastfed in the first hour and the first day after birth, and who were fed anything other than breast milk before breast milk was regularly given (also known as prelacteal feeding).

Table 11.2 shows that 98 percent of children are breastfed for some period of time. Breastfeeding is widely practised across all subgroups of women, and variations by background characteristics are small.

Table 11.2 Initial breastfeeding

Among last-born children who were born in the two years preceding the survey, the percentage who were ever breastfed and the percentages who started breastfeeding within one hour and within one day of birth; and among last-born children born in the two years preceding the survey who were ever breastfed, the percentage who received a prelacteal feed, by background characteristics, Ethiopia 2011

| | Am | ong last-born cl | hildren born in th | ne past two ye | ears: | | | born in the past ver breastfed: |
|--|--|--|--|---|---|--|---|---|
| Background characteristic | Percentage ever breastfed | Percentage who started breastfeeding within 1 hour of birth | Percentage who started breastfeeding within 1 day of birth ¹ | Weighted number of last-born children | Unweighted number of last-born children | Percentage who received a prelacteal feed ² | Weighted number of last-born children ever breastfed | Unweighted number of last- born children ever breastfed |
| Sex Male Female | 96.8 98.2 | 49.0 54.3 | 77.8 82.9 | 2,327 2,126 | 2,184 2,100 | 28.8 25.2 | 2,252 2,089 | 2,124 2,052 |
| Assistance at delivery Health professional ³ Traditional birth attendant Other No one | 95.1 97.0 98.0 99.9 | 52.7 49.0 52.5 51.3 | 80.4 78.0 81.2 82.3 | 508 1,266 2,519 159 | 647 1,546 1,899 191 | 20.6 33.6 25.2 25.7 | 483 1,229 2,469 159 | 619 1,507 1,860 189 |
| Place of delivery Health facility At home Other | 94.3 97.9 (100.0) | 52.1 51.5 (39.9) | 80.0 80.3 (61.5) | 517 3,916 20 | 653 3,583 48 | 20.9 27.8 (32.1) | 487 3,833 20 | 623 3,505 48 |
| Residence Urban Rural | 95.2 97.8 | 57.1 50.6 | 83.2 79.7 | 607 3,846 | 751 3,533 | 24.2 27.5 | 578 3,762 | 720 3,456 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 97.0 97.7 96.5 98.0 96.8 97.5 97.9 97.3 97.2 93.4 99.1 | 44.7 59.6 37.5 52.6 39.6 42.2 66.5 59.3 64.6 62.0 66.0 | 82.6 77.9 66.9 83.6 54.8 68.7 91.5 73.2 86.0 74.1 81.2 | 273 40 983 1,917 128 51 926 15 11 95 | 434 378 476 681 358 373 600 317 246 167 254 | 25.6 30.3 47.8 21.9 72.5 23.4 10.4 28.4 31.2 25.5 34.2 | 265 39 949 1,879 124 49 907 14 11 89 | 421 372 459 667 346 364 588 311 239 157 252 |
| Mother's education No education Primary Secondary More than secondary | 97.9 96.6 97.6 97.5 | 50.7 51.5 63.4 65.5 | 79.0 82.3 85.8 83.7 | 2,956 1,296 136 65 | 2,845 1,184 173 82 | 30.1 20.5 27.7 17.9 | 2,893 1,252 132 63 | 2,787 1,144 168 77 |
| Wealth quintile Lowest Second Middle Fourth Highest Total | 97.2 98.1 97.9 98.2 95.9 97.5 | 48.5 50.9 50.7 51.4 57.8 51.5 | 72.4 78.7 81.3 87.6 84.2 80.2 | 1,047 988 917 784 717 4,453 | 1,311 782 704 656 831 4,284 | 37.2 30.1 23.1 19.8 21.3 27.1 | 1,018 969 897 769 687 4,340 | 1,283 766 686 644 797 4,176 |

Note: Table is based on last-born children born in the two years preceding the survey regardless of whether the children are living or dead at the time of interview. Figures in parentheses are based on 25-49 unweighted cases.

Includes children who started breastfeeding within one hour of birth

Doctor, nurse, or midwife

Fifty-two percent of infants started breastfeeding within one hour of birth, and 80 percent, within the first day. This percentage falls short of the HSDP IV target of 92 percent of children breastfed within one hour of birth.

Initiation of breastfeeding in the first hour and in the first 24 hours after birth varies by background characteristics. Breastfeeding within one hour after birth was more common in urban areas (57 percent) than in rural areas (51 percent). There was also considerable variation by region. Initiation of breastfeeding within one hour was lowest in the Amhara and Somali regions (38 percent and 40 percent, respectively), and highest in the SNNP and Dire Dawa regions (67 percent and 66 percent, respectively). The likelihood that a child is breastfed in the first hour after birth increases with the mother's educational status and wealth quintile. The proportion of children who breastfed within one hour of birth does not vary significantly by type of assistance at delivery.

Overall, nearly three children in every ten (27 percent) are given prelacteal feeds within the first three days of life. The practice of giving prelacteal feeds is discouraged because it limits the infant's frequency of suckling and exposes the baby to the risk of infection. Prelacteal feeding is

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

slightly more common in rural areas (28 percent) than in urban areas (24 percent). It also varies by region, most commonly practiced in Somali (73 percent). In contrast, 10 percent of children residing in SNNP receive prelacteal feeds.

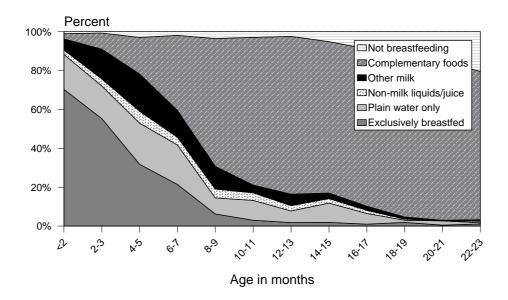
Children whose mothers were assisted during childbirth by a traditional birth attendant are most likely to receive prelacteal feeds (34 percent), while children whose mothers were assisted by a health professional are least likely (21 percent). The practice of prelacteal feeding decreases as wealth quintile increases, with the exception of children in the highest wealth quintile. Nearly four children in every ten (37 percent) of mothers in the lowest quintile receive prelacteal feeds, compared with two children in every ten of mothers in the two highest wealth quintiles (20 percent and 21 percent, respectively).

11.2.2 Breastfeeding Status by Age

UNICEF and WHO recommend that children be exclusively breastfed during the first 6 months of life and that children be given solid or semi-solid complementary food in addition to continued breastfeeding from age 6 months until 24 months or more, when the child is fully weaned. Use of bottles with nipples is not recommended at any age. Exclusive breastfeeding is recommended because breast milk is uncontaminated and contains all the nutrients necessary in the first few months of life. In addition, the mother's antibodies in breast milk provide the infant with immunity to disease. Early supplementation is discouraged for several reasons. First, it exposes infants to pathogens and thus increases their risk of infection, especially diarrhoeal disease. Second, it decreases infants' intake of breast milk and therefore suckling, which in turn reduces breast milk production. Third, in low-resource settings, supplementary food is often nutritionally inferior. Interviewers obtained information on complementary feeding by asking mothers about the current breastfeeding status of all children under 5 years of age and, for the youngest child born in the two-year period before the survey and living with the mother, foods and liquids given to the child the day and night before the survey.

Table 11.3 shows the percent distribution of youngest children under two years living with the mother by breastfeeding status and the percentage of children under two years using a bottle with a nipple, according to age in months. The data presented in Table 11.3 and Figure 11.3 show that exclusive breastfeeding during the first six months after birth is not widely practised in Ethiopia. Currently, mothers exclusively breastfeed approximately half of children under six months (52 percent). Among sub-groups the percentage of young children who are exclusively breastfed decreases sharply from 70 percent of infants age 0-1 month to 55 percent of those age 2-3 months and, further, to 32 percent among infants 4-5 months. The HSDP IV targets an increase in the proportion of exclusively breastfed infants under age 6 months to 70 percent by 2015.

Figure 11.3 Infant Feeding Practices by Age



EDHS 2011

Table 11.3 Breastfeeding status by age

Percent distribution of youngest children under two years who are living with their mother by breastfeeding status and the percentage currently breastfeeding; and the percentage of all children under two years using a bottle with a nipple, according to age in months, Ethiopia 2011

| | Unweighted number of all | children under two years | 343 | 461 | 407 | 265 | 446 | 1,085 | 842 | 804 | 1,211 | 754 | 969 | 1,927 | 521 |
|----------------------|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Weighted number of | all children under two years | 373 | 481 | 411 | 610 | 510 | 1,030 | 006 | 854 | 1,265 | 780 | 693 | 1,930 | 264 |
| | Percentage | using a bottle with a nipple | 8.8 | 14.3 | 23.1 | 13.9 | 11.5 | 10.2 | 7.8 | 11.9 | 15.5 | 14.3 | 11.8 | 9.1 | 7.3 |
| Unweighted | number of youngest children under two | years living with the mother | 333 | 452 | 402 | 591 | 442 | 1,046 | 771 | 785 | 1,187 | 747 | 929 | 1,817 | 475 |
| Weighted | number of youngest children under two | years living with the mother | 363 | 479 | 406 | 809 | 202 | 1,000 | 835 | 842 | 1,248 | 778 | 682 | 1,836 | 521 |
| | | Percentage currently breastfeeding | 0.66 | 99.3 | 97.1 | 98.3 | 95.9 | 94.8 | 84.1 | 99.2 | 98.5 | 97.3 | 96.4 | 89.9 | 82.2 |
| | | Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | Breastfeeding | and consuming complementary foods | 2.7 | 8.3 | 18.9 | 48.4 | 71.4 | 80.1 | 80.3 | 5.9 | 10.1 | 51.4 | 79.7 | 80.2 | 79.1 |
| • | | Breastfeeding and consuming other milk | 5.7 | 15.3 | 19.2 | 12.9 | 6.9 | 3.8 | 0.7 | 11.2 | 13.8 | 12.8 | 4.6 | 2.4 | 0.5 |
| Breastfeeding status | | Breastfeeding and consuming non milk liquids ¹ | 2.3 | 3.6 | 6.1 | 3.5 | 4.9 | 2.2 | 0.5 | 3.1 | 4.0 | 4.2 | 2.6 | 1.5 | 0.5 |
| В | | Breastfeeding and consuming plain water only | 18.0 | 16.8 | 21.2 | 16.7 | 9.5 | 7.0 | 1.3 | 17.3 | 18.6 | 14.6 | 7.7 | 4.4 | 1.4 |
| | | Exclusively breastfed | 70.3 | 55.3 | 31.8 | 16.9 | 3.6 | 1.6 | 1.2 | 61.8 | 52.0 | 14.2 | 1.9 | 1.4 | 0.8 |
| | | Not breastfeeding | 1.0 | 0.7 | 2.9 | 1.7 | 4.1 | 5.2 | 15.9 | 0.8 | 1.5 | 2.7 | 3.6 | 10.1 | 17.8 |
| | | Age in months | 0-1 | 2-3 | 4-5 | 8-9 | 9-11 | 12-17 | 18-23 | 0-3 | 0-2 | 6-9 | 12-15 | 12-23 | 20-23 |

Note: Breastfeeding status refers to a "24-hour" period (yesterday and last night). Children who are classified as breastfeeding and consuming plain water, non-milk liquids, other milk, and complementary foods (solids and semi-solids) are hierarchical and mutually exclusive, and their percentages add to 100 percent. Thus children who receive breast milk and non-milk liquids and who do not receive other milk and who do not receive complementary foods are classified in the non-milk liquid category even though they may also get plain water. Any children who get complementary food are classified in that category as long as they are breastfeeding as well.

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

In addition to breast milk, 19 percent of infants under six months are given plain water only, while 14 percent receive milk in addition to breast milk, and 4 percent are given non-milk liquids and juice (Figure 11.3). Complementary feeding is uncommon in Ethiopia; only 3 percent of children age 0-1 months receive complementary food, and only 10 percent of infants under six months are given complementary foods in addition to breast milk, indicating that very young children are mostly fed breastmilk, as recommended. All children age 6-9 months, in contrast, should receive complementary foods. However, only half of children age 6-9 months (51 percent) received complementary foods the day or night preceding the survey. Sixteen percent of infants under six months are fed using a bottle with a nipple, a practice that is discouraged, as it increases the child's risk of illness and reduces the child's interest in breastfeeding, with consequent potential decline in milk production.

The duration of breastfeeding in Ethiopia is long. The proportion of children who are currently breastfeeding is 95 percent or more for children up to age 12-17 months and then declines to 84 percent of children age 18-23 months.

Figure 11.4 shows several infant and young child feeding (IYCF) indicators of breastfeeding status. As mentioned, 52 percent of children under six months and 32 percent of children 4-5 months are exclusively breastfed¹, and 75 percent of children under six months are predominantly breastfed². About half of children age 6-8 months (49 percent) consume solid, semi-solid, or soft foods. Almost seven children of every ten (66 percent) under the age of two receive age-appropriate breastfeeding³, while one child of every ten (12 percent) use a bottle with a nipple. Ninety-six percent of children continued breastfeeding at one year, and 82 percent continued breastfeeding at two years.

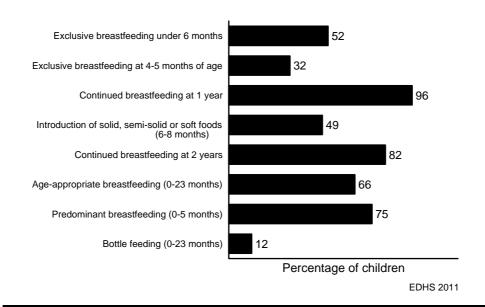


Figure 11.4 IYCF Indicators of Breastfeeding Status

¹ Note that the Multiple Indicator Cluster Survey (MICS) indicator makes a specific point of including in exclusive breastfeeding children who received ORS, vitamins, mineral supplements and medicines in addition to breast milk. The DHS questionnaire does not ask comparable questions on all of these items.

² Children who are exclusively breastfed, children who breastfeed and consume plain water, and children who breastfeed and consume non-milk liquids or juice.

³ Includes children age 0-5 months who are exclusively breastfed and children age 6-23 months who receive breast milk and complementary foods.

11.2.3 Duration of Breastfeeding

Table 11.4 provides information on median duration of breastfeeding among children born in the three years preceding the survey. The estimates of median and mean durations of breastfeeding are based on current status data, that is, the proportion of children last-born in the three years preceding the survey who were being breastfed at the time of the survey.

The median duration and the mean duration of any breastfeeding in Ethiopia are 25 months. The median duration of exclusive breastfeeding is 2.3 months, and the mean duration of exclusive breastfeeding is 4.2 months. Predominant breastfeeding is defined as exclusive breastfeeding or breastfeeding in combination with plain water, water-based liquids, or juices. The median and mean lengths of predominant breastfeeding are 5.3 months and 6.9 months, respectively.

The median duration of any breastfeeding varies little by background characteristics, with the exceptions of regional and educational differences. Among regions the median duration of breastfeeding ranges from 16.7 months in the Somali region to 32.7 months in the Amhara region. Women with secondary and higher education breastfeed for several months less than women who have little or no education. For example, the median duration of breastfeeding among women with no education is 25.4 months, whereas it is 21.5 months among those with more than secondary education. Differentials in the median months of exclusive breastfeeding and predominant breastfeeding follow a similar pattern.

| Table 1 | 1.4 Media | n duratio | n of breastfeedin | <u>q</u> | | | |
|---------|---------------|-----------|---------------------------|-------------|-------------------|--------|--------------|
| | | | breastfeeding, | | | | |
| | eristics, Etl | | ren born in the th 111 | ree years p | recealing the sur | vey, b | y background |

| <u> </u> | Median duration children b | (months) of brea orn in the past th | stfeeding among ree years |
|-------------------------------|----------------------------|--|--|
| Background characteristic | Any breastfeeding | Exclusive breastfeeding | Predominant breastfeeding ² |
| Sex | 05.7 | 4.0 | 5.0 |
| Male Female | 25.7 24.8 | 1.8 2.9 | 5.0 5.5 |
| Residence | | | |
| Urban | 24.3 | 0.6 | 4.6 |
| Rural | 25.3 | 2.5 | 5.4 |
| Region Tigray | 25.6 | 3.1 | 6.7 |
| Affar | 20.7 | 0.6 | 7.1 |
| Amhara | 32.7 | 4.6 | 7.4 |
| Oromiya | 24.0 | 1.8 | 4.9 |
| Somali Benishangul-Gumuz | 16.7 26.4 | 0.5 1.9 | 2.8 4.7 |
| SNNP | 25.4 | 2.2 | 4.3 |
| Gambela | 30.7 | 0.6 | 5.6 |
| Harari Addis Ababa | 22.2 20.1 | 1.9 1.0 | 5.1 2.1 |
| Dire Dawa | 21.3 | 1.0 | 4.5 |
| Mother's education | 20 | | |
| No education | 25.4 | 2.6 | 5.5 |
| Primary | 25.5 | 1.8 | 4.9 |
| Secondary More than secondary | 23.9 21.5 | 2.1 0.6 | 4.7 0.6 |
| Wealth quintile | 21.0 | 0.0 | 0.0 |
| Lowest | 25.0 | 2.6 | 5.3 |
| Second | 25.8 | 2.3 | 5.2 |
| Middle | 28.0 | 3.6 | 6.1 |
| Fourth Highest | 24.8 23.8 | 2.3 0.6 | 5.2 4.0 |
| Total | 25.2 | 2.3 | 5.3 |
| Mean for all children | 25.1 | 4.2 | 6.9 |

Note: Median and mean durations are based on the distributions at the time of the survey of the proportion of births by months since birth. Includes children living and deceased at the time of the survey.

liquids only.

It is assumed that non-last-born children and last-born children not currently living with the mother are not currently breastfeeding.

Either exclusively breastfed or received breast milk and plain water, and/or non-milk

11.2.4 Types of Complementary Foods

UNICEF and WHO recommend the introduction of solid food to infants around age 6 months because by that age breast milk alone is no longer adequate to maintain a child's optimal growth. In the transition to introducing the child to the family diet, in addition to breastfeeding, children age six months and older should be fed small quantities of solid and semi-solid foods frequently throughout the day. During this transition period (age 6-23 months), the prevalence of malnutrition increases substantially in many countries because of an increase in infections and poor feeding practices. The 2011 EDHS collected data on the types of foods given on the day and night preceding the survey to the youngest child under age 2 living with the mothers. These data are presented in Table 11.5 according to breastfeeding status.

Infant formula supplementation at any age is uncommon in Ethiopia. Among breastfeeding children under age two, very few (2 percent) consume infant formula. However, a much higher proportion (18 percent) receive other milk or other liquids. The introduction of other liquids, such as water, juice, and formula, takes place earlier than the recommended introduction at age six months. Among the youngest breastfeeding children (0-1 month), 6 percent consume other milk and 3 percent consume other liquids. Consumption of other milk increases gradually with age until age 6-8 months, when 24 percent of breastfeeding children consume milk. Consumption of other liquids also shows increasing trends with age through age 12-17 months, when 26 percent of breastfeeding children consume other liquids.

Among children age 6-23 months, foods made from grains are consumed more often than foods from any other food group. Among breastfeeding children in this age group, 66 percent ate foods made from grains, and 20 percent ate foods from legumes or nuts during the day or night preceding the interview. Among breastfeeding children age 6-23 months, only 15 percent consumed fruits and vegetables rich in vitamin A or foods made from roots and tubers. Thirteen percent of children in this age group consumed cheese, yogurt, or other dairy products in the 24 hours preceding the survey. Meat, fish, poultry, and eggs have body-building substances essential to good health. They are important for balanced physical and mental development. The introduction of these foods in the diet is late, and few children consume them. For instance, at age 6-23 months, only 5 percent of children consume meat, fish, or poultry, and 8 percent consume eggs. Overall, almost four of every five breastfeeding children age 6-23 months (78 percent) consumed some solid or semi-soild food during the day or night preceding the survey.

A comparison of dietary intake of children under two years of age by breastfeeding status shows that a higher proportion of nonbreastfeeding children are consuming solid and semi-solid foods (84 percent) than breastfeeding children (57 percent). Consumption of foods made from grains is very common (69 percent), whereas consumption of vitamin A-rich fruits and vegetables and foods made from roots and tubers is less common (24-25 percent). As expected, more nonbreastfeeding children than breastfeeding children consume milk other than breast milk (43 percent compared with 18 percent). Still; the percentage of nonbreastfeeding children consuming milk other than breast milk is low, considering that they are not benefiting from breast milk.

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

Percentage of youngest children under two years of age who are living with the mother by type of foods consumed in the day or night preceding the interview, according to breastfeeding status and age, Ethiopia 2011

| | | Liquids | | | | | Solid | Solid or semi-solid foods | foods | | | | | | |
|---------------|-------------------|-------------------------|-------------------------------|----------------------|--|--|-----------------------------------|---|--|------------------------|------|---|-------------------------------------|-----------------------------------|-------------------------------------|
| Age in months | Infant formula | Other milk ¹ | Other liquids ² | Fortified baby foods | Food made from grains ³ | Fruits and vegetables rich in vitamin A ⁴ | Other fruits and vegetables | Other fruits Food made and from roots vegetables and tubers | Food made from legumes and nuts | Meat, fish, poultry | Eggs | Cheese, yogurt, other milk product | Any solid or semi- solid food | Weighted number of children | Unweighted number of children |
| | | | | | | BR | EASTFEED | BREASTFEEDING CHILDREN | EN | | | | | | |
| 0-1 | 1.2 | 6.3 | 3.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.7 | 329 | 325 |
| 2-3 | 3.6 | 12.9 | 2.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.2 | 9.0 | 0.0 | 0.0 | 3.6 | 8.3 | 475 | 443 |
| 4-5 | 2.7 | 20.5 | 13.9 | 9.0 | 9.9 | 1.9 | 0.4 | 2.2 | 0.7 | 0.2 | 2.3 | 7.0 | 19.4 | 394 | 387 |
| 8-9 | 1.3 | 23.7 | 16.8 | 3.9 | 34.9 | 8.5 | 1.8 | 6.9 | 7.3 | 2.8 | 7.7 | 7.9 | 49.2 | 298 | 576 |
| 9-11 | 1.9 | 21.1 | 21.4 | 4.4 | 62.8 | 10.2 | 2.9 | 10.6 | 16.4 | 2.4 | 9.4 | 14.0 | 74.4 | 485 | 424 |
| 12-17 | 1.7 | 20.6 | 26.0 | 4.7 | 73.1 | 19.1 | 3.8 | 17.6 | 21.7 | 0.9 | 8.8 | 14.9 | 84.6 | 948 | 930 |
| 18-23 | 9.0 | 17.4 | 23.0 | 2.7 | 84.9 | 17.5 | 4.1 | 19.6 | 29.2 | 9.8 | 9.7 | 14.4 | 92.5 | 702 | 615 |
| 6-23 | 1.3 | 20.5 | 22.4 | 4.0 | 62.9 | 14.8 | 3.3 | 14.5 | 19.5 | 5.3 | 8.3 | 13.1 | 77.8 | 2,733 | 2,545 |
| Total | 1.7 | 18.3 | 17.7 | 2.8 | 46.6 | 10.4 | 2.3 | 10.3 | 13.6 | 3.7 | 0.9 | 10.2 | 56.9 | 3,962 | 3,700 |
| | | | | | | NONE | 3REASTFEE | NONBREASTFEEDING CHILDREN | REN | | | | | | |
| Total | 3.3 | 43.3 | 34.7 | 5.7 | 69.4 | 24.6 | 7.4 | 24.4 | 17.3 | 7.4 | 9.2 | 20.0 | 84.1 | 235 | 337 |

Note: Breastfeeding status and food consumed refer to a 24-hour" period (yesterday and last night).

Other milk includes fresh, tinned and powdered cow or other animal milk.

Does not include plain water. Includes juice, juice drinks, clear broth, or other non-milk liquids.

Includes fortified baby food.

Includes fortified baby food.

Includes fortified baby food.

Includes weet potatoes that are yellow or orange inside, dark green leafy vegetables, ripe mangoes, ripe papayas, and other fruits and vegetables that are rich in vitamin A.

11.2.5 Infant and Young Child Feeding (IYCF) Practices

Appropriate infant and young child feeding (IYCF) practices include timely initiation of feeding of solid and semi-solid foods from age 6 months and improving the quality of foods consumed as the child gets older, while maintaining breastfeeding (WHO, 2008).

WHO has established guidelines with respect to IYCF practices for children age 6-23 months. Breastfeed children 6-23 months should receive animal-source foods and vitamin A-rich fruits and vegetables daily (PAHO/WHO, 2003). Since first foods almost universally include a grain- or tuber-based staple, it is unlikely that young children who eat two or fewer food groups will receive both an animal-source food and a vitamin A-rich fruit or vegetable. Therefore, four food groups are considered the minimum acceptable number of food groups for breastfed infants (Arimond and Ruel, 2003). Breastfed infants 6-8 months should be fed meals of complementary foods two or three times per day, with one to two snacks as desired; breastfed children 9-23 months should be fed meals three or four times per day, with one to two snacks (WHO, 2008).

Nonbreastfed children 6-23 months should receive milk products at least twice a day to ensure that their calcium needs are met. In addition, they need animal-source foods and vitamin A-rich fruits and vegetables. Therefore, for nonbreastfed young children, four food groups are considered the minimum acceptable number. Nonbreastfed children should be fed meals four or five times per day, with one to two snacks as desired (WHO, 2005). Meal frequency is considered a proxy for energy intake from foods other than breast milk. Therefore, for nonbreastfed children feeding frequency indicators include both milk feeds and solid or semi-solid feeds (WHO, 2008).

Table 11.6 presents summary indicators of IYCF practices. Results show that only 4 percent of youngest children 6-23 months living with their mothers are fed in accordance with IYCF practices. More than nine children of every ten (96 percent) received breast milk or milk products during the 24-hour period before the survey, and half of the children (49 percent) were fed at least the minimum number of times. Five percent of children were fed according to minimum standards with respect to food diversity (four or more food groups). Older children and children in urban areas are more likely to be fed according to the IYCF practices than younger children or rural children. In addition, feeding practices improve as the wealth quintile and the educational level of the mother increases.

Among breastfed children age 6-23 months, 4 percent receive foods from at least four food groups, while 48 percent are fed the minimum number of times or more. In total, 4 percent of breastfed children are given foods from four or more groups and also are fed at least the minimum number of times per day.

Percentage of youngest children age 6-23 months living with their mother who are fed according to three IYCF feeding practices based on breastfeeding status, number of food groups, and times they are fed during the day or night preceding the survey, by background characteristics, Ethiopia 2011 Table 11.6 Infant and young child feeding (IYCF) practices

| background cnaracteristics, Ethiopia 2011 Among bre | s, etniopia zt Among l | nopia 2011 Among breastfed children 6-23 | dren 6-23 | | | Amond | non-breastfe | Among non-breastfed children 6-23 months | 3 months. | | | | | | | | |
|---|--|--|--|--|--|--|--|--|---|--|--|--|---|---|---|--|--|
| | mom | months, percentage fed | je fed: | | | 8 | percei | percentage fed: | , | | | Among all ch | ildren 6-23 r | Among all children 6-23 months, percentage fed: | ntage fed: | | |
| Background characteristic | 4+ food groups ¹ | Minimum meal frequency ² | Both 4+ food groups and minimum meal frequency | Weighted number of breastfed children 6- 23 months | Unweighted number of breastfed children 6- 23 months | Milk or milk products³ | 4+ food groups ¹ | Minimum meal frequency ⁴ | With 3 IYCF practices ⁵ | Weighted number of non- breastfed children 6-23 months | Unweighted number of non- breastfed children 6-23 months | Breast milk, milk, or milk products ⁶ | 4+ food groups ¹ | Minimum meal frequency ⁷ | With 3 IYCF practices | Weighted number of all children 6-23 months | |
| Age in months 6-8 9-11 12-17 18-23 | 0.2.0 0.2.0 | 36.5 37.7 47.4 65.4 | 1.000 0.040 | 598 485 948 702 | 576 424 930 615 | 38.0 43.4 | . * . 6.5 8.6 8.6 | 4 40.9 * * 64.9 | * * & £. | 10 21 133 | 110 118 118 | 99.2 97.5 96.7 91.0 | 1.0 2.0 6.2 7.6 | 36.2 38.2 47.0 65.3 | 6.5 6.3 6.3 6.3 | 608 1,000 835 | |
| Sex Male Female | 3.7 | 48.3 47.5 | 3.3 | 1,379 | 1,265 1,280 | 42.4 41.8 | 13.4 8.3 | 59.3 50.7 | 7.5 2.7 | 119 97 | 167 | 95.4 96.1 | 4.5 5.1 | 49.2 47.7 | 3.6 4.6 | 1,497 1,452 | |
| Residence Urban Rural | 3.6 | 49.4 47.7 | 7.9 | 360 2,374 | 427 2,118 | 67.3 35.6 | 38.3 4.1 | 74.9 50.4 | 19.8 | 44 172 | 84 221 | 96.4 95.7 | 12.0 3.6 | 52.2 47.9 | 3.5 3.5 3.5 | 404 2,545 | |
| Region Tigray Affar Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 0.000000000000000000000000000000000000 | 655 665 665 665 665 665 665 665 665 665 | 4 6 0 0 0 4 0 7 4 4 4 5 0 0 1 8 8 1 6 6 7 6 0 | 183 1,156 53 53 20 20 20 8 | 289 183 316 376 370 191 191 139 | (57.8) (33.5) 75.1 (44.3) (65.9) | (3.5) (6.4) (6.4) (6.4) (17.0) (17.0) (30.2) (25.4) | (47.8) (54.8) (54.8) (60.2) (72.8) (66.2) | (0.0) (3.4) (3.4) (3.7) (4.1.3) (9.1) (9.1) | £ 608 60 4 60 - 40 | 444 444 448 448 448 45 46 47 48 | 94.4 94.7 97.7 96.7 96.8 97.7 93.6 92.6 | 0.000 | 68 88 88 88 88 88 88 88 88 88 88 88 88 8 | 4.8.9.8.9.8.8.4.8.1. 9.1.07.9.8.2.0.9.8.9. | 198 233 666 75 75 34 620 9 9 67 10 | |
| Mother's education No education Primary Secondary More than secondary | 2.3 7.3 8.2 (32.8) | 43.8 55.9 61.2 (66.5) | 2.1 6.9 7.3 (30.6) | 1,881 741 69 43 | 1,727 679 97 42 | 35.8 45.0 * * | 1.6 4.4 * * | 45.0 62.7 * | 0.6 7.5 7.5 7.5 | 113 88 10 5 | 184 90 13 81 | 96.4 94.2 96.5 1 | 2.2 8.3 32.5 | 43.9 56.6 65.8 67.8 | 2.0 7.0 10.7 28.7 | 1,993 829 79 48 | |
| Wealth quintile Lowest Second Middle Fourth Highest | 4.7 4.7 2.9 3.9 10.2 | 42.2 47.1 50.9 50.6 51.0 | - 4 % & @ % 6 0 0 0 0 0 | 657 616 547 486 428 | 757 480 415 407 486 | 38.7 (29.6) (35.6) (37.6) 64.1 | 1.4 (3.6) (0.2) (6.2) 37.1 | 38.4 (47.1) (56.1) (54.7) 73.0 | 0.0 (0.0) (0.0) 21.8 | 32 46 47 38 53 | 84 4 4 8 8 4 4 4 8 4 4 4 4 4 4 4 4 4 4 | 97.1 95.1 95.5 96.1 | 13.2 4.6 7.2 13.2 | 42.0 47.1 51.3 50.9 53.4 | 1.2 3.8 2.7 10.9 | 689 661 594 524 481 | |
| Total | 4.3 | 47.9 | 4.0 | 2,733 | 2,545 | 42.1 | 11.1 | 55.4 | 5.3 | 216 | 305 | 95.8 | 4.8 | 48.5 | 4.1 | 2,949 | |

¹ Food groups: a. infant formula, milk other than breast milk, cheese or yogurt; b. foods made from grains, rots, and tubers, including porridge and fortified baby food from grains; c. vitamin A-rich fruits and vegetables; d. other fruits and vegetables; e. eggs; and tours.

E meat, poultry, fish, shellfish, and organ meats; g. legumes and nuts.

Flor bread or service of secenting soild or semi-solid food at least twice a day for infants 6-8 months and powdered animal milk; and yogurt.

Flor bread or mile freedings of commercial infant formula freed and powdered animal milk; and yogurt.

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

For non-breastfed children age 6-23 months, minimum meal frequency, and receive soil or semi-solid food or milk feeding practices if they receive other milk or milk products at least twice a day, receive the minimum meal frequency, and receive soil or semi-solid food or milk feeding practices if they receive other milk or milk products go frommercial infant formula, fresh, tinned, and powdered animal milk, and yogurt.

Established wo more feedings of commercial infant formula, fresh, tinned, and powdered animal milk, and yogurt.

Children are fed the minimum recommended number of times per day according to their age and breastfeeding status as described in footnotes 2 and 4.

11.3 Prevalence of Anaemia in Children

Anaemia is a condition characterised by a low level of haemoglobin in the blood. Haemoglobin is necessary for transporting oxygen to tissues and organs in the body. About half of the global burden of anaemia is due to iron deficiency. Iron deficiency, in turn, is largely due to an inadequate dietary intake of bioavailable iron, inadequate dietary iron during periods of increased iron requirements (such as pregnancy and infancy), increased blood loss due to hookworm infestation, and infections such as malaria. Nutritional anaemia includes anaemia due to deficiency in iron plus deficiencies in folate, vitamins B and B12, and certain trace elements involved with red blood cell production. Anaemia in children is associated with impaired mental and physical development and with increased morbidity and mortality. Anaemia can be a particularly serious problem for pregnant women, leading to premature delivery and low birth weight. WHO considers anaemia prevalence over 40 percent in a population to be a major public health problem, anaemia prevalence between 20 and 40 percent is considered a medium-level public health problem, and between 5 to less than 20 percent is considered a mild public health problem (WHO, 2001).

A number of interventions have been put in place in Ethiopia to address the high prevalence of anaemia in children. These include distribution and promotion of the use of insecticide-treated mosquito nets (ITNs) and deworming of children age 2-5 every six months. Other programmes that seek to reduce anaemia include the Enhanced Outreach Strategy (EOS) with Targeted Supplementary Food (TSF), Health Facility Nutrition Services, Community Based Nutrition (CBN), Micronutrient Interventions, and Essential Nutrition Actions.

Table 11.7 presents anaemia levels among children age 6-59 months, according to selected background characteristics. Haemoglobin was measured in 9,157 children (9,800 children weighted) that account for 93 percent of all children. Unadjusted (i.e., measured) haemoglobin values are obtained using the HemoCue instrument. Given that haemoglobin requirements differ substantially depending on altitude, an adjustment to sea-level equivalents has been made before classifying children by level of anaemia. These adjustments for altitude are reflected in Table 11.7.

More than four in ten Ethiopian children (44 percent) are anaemic. One child of every five (21 percent) has mild anaemia, another 20 percent have moderate anaemia, and 3 percent have severe anaemia. Anaemia prevalence is highest among children age 9-11 months (73 percent) and decreases steadily with age from 12 to 59 months. Forty-five percent of children in rural areas have anaemia, compared with 35 percent of children in urban areas. Regional variation of anaemia in children ranges from 33 percent in Addis Ababa to 75 percent in Affar. Anaemia among children decreases with increases in mother's education and wealth quintile.

The national anaemia prevalence estimate has dropped by 19 percent in the past six years, from 54 percent in 2005 to 44 percent in 2011 (Figure 11.5). This change is due largely to the drop in the prevalence of moderate anaemia; estimates of the prevalence of mild and severe anaemia have remained stable. The prevalence of moderate anaemia decreased from 28 percent in 2005 to 20 percent in 2011.

Table 11.7 Prevalence of anaemia in children

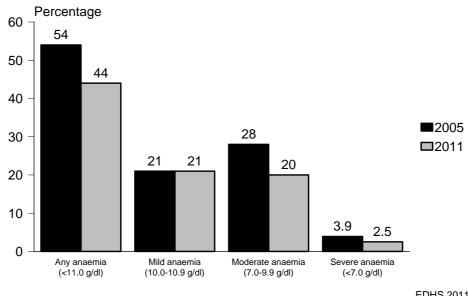
Percentage of children age 6-59 months classified as having anaemia, by background characteristics, Ethiopia 2011

| | A | naemia status by h | aemoglobin leve | ıl | | |
|----------------------------------|--------------|--------------------|---------------------|-------------------|--------------------|----------------------|
| Background | Any anaemia | Mild anaemia | Moderate anaemia | Severe anaemia | Weighted number of | Unweighted number of |
| characteristic | (<11.0 g/dl) | (10.0-10.9 g/dl) | (7.0-9.9 g/dl) | (< 7.0 g/dl) | children | children |
| Age in months | | | | | | |
| 6-8 | 61.3 | 24.2 | 35.7 | 1.5 | 572 | 528 |
| 9-11 | 72.7 | 26.3 | 40.7 | 5.7 | 500 | 411 |
| 12-17 | 62.6 | 25.3 | 33.7 | 3.6 | 997 | 1,011 |
| 18-23 | 52.2 | 22.1 | 27.9 | 2.2 | 901 | 806 |
| 24-35 | 45.4 | 22.9 | 18.0 | 4.5 | 2,062 | 2,016 |
| 36-47 | 35.8 | 19.3 | 15.1 | 1.4 | 2,434 | 2,237 |
| 48-59 | 30.8 | 18.5 | 11.3 | 1.0 | 2,334 | 2,148 |
| Sex | | | | | | |
| Male | 44.3 | 20.9 | 20.7 | 2.7 | 5,032 | 4,692 |
| Female | 44.2 | 21.9 | 20.0 | 2.3 | 4,768 | 4,465 |
| Mother's interview status | | | | | | |
| Interviewed | 44.6 | 21.7 | 20.5 | 2.5 | 9,073 | 8,461 |
| Not interviewed but in household | 38.0 | 16.9 | 16.8 | 4.2 | 217 | 222 |
| Not interviewed, and not in the | | | | | | |
| household ¹ | 39.4 | 17.2 | 20.5 | 1.8 | 510 | 474 |
| Residence | | | | | | |
| Urban | 35.2 | 15.7 | 18.0 | 1.5 | 1,139 | 1,388 |
| Rural | 45.4 | 22.1 | 20.7 | 2.6 | 8,661 | 7,769 |
| Region | | | | | | |
| Tigray | 37.5 | 17.4 | 17.5 | 2.6 | 661 | 1,027 |
| Affar | 74.7 | 21.6 | 46.1 | 7.0 | 95 | 877 |
| Amhara | 35.1 | 19.4 | 14.5 | 1.1 | 2,148 | 1,041 |
| Oromiya | 51.7 | 22.9 | 25.1 | 3.7 | 4,199 | 1,442 |
| Somali | 68.7 | 24.5 | 35.2 | 9.0 | 241 | 691 |
| Benishangul-Gumuz | 46.5 | 25.1 | 19.6 | 1.8 | 111 | 808 |
| SNNP | 36.9 | 21.3 | 15.1 | 0.5 | 2,111 | 1,352 |
| Gambela | 50.9 | 22.4 | 26.0 | 2.5 | 29 | 637 |
| Harari | 55.5 | 26.6 | 26.6 | 2.3 | 19 | 451 |
| Addis Ababa | 33.2 | 17.0 | 15.3 | 1.0 | 155 | 281 |
| Dire Dawa | 62.9 | 18.0 | 34.7 | 10.2 | 30 | 550 |
| Mother's education ² | | | | | | |
| No education | 45.5 | 21.4 | 21.4 | 2.6 | 6,546 | 6,189 |
| Primary | 42.9 | 22.6 | 17.8 | 2.5 | 2,446 | 2,122 |
| Secondary | 41.4 | 18.6 | 21.1 | 1.6 | 175 | 250 |
| More than secondary | 30.1 | 15.8 | 14.3 | 0.0 | 122 | 121 |
| Wealth quintile | | | | | | |
| Lowest | 47.9 | 20.5 | 24.2 | 3.2 | 2,216 | 2,847 |
| Second | 47.6 | 23.0 | 21.2 | 3.3 | 2,180 | 1,699 |
| Middle | 43.3 | 21.9 | 18.9 | 2.5 | 2,066 | 1,526 |
| Fourth | 43.1 | 21.6 | 19.5 | 2.0 | 1,985 | 1,549 |
| Highest | 35.9 | 18.9 | 16.3 | 0.7 | 1,353 | 1,536 |
| Total | 44.2 | 21.4 | 20.4 | 2.5 | 9,800 | 9,157 |

Note: Table is based on children who stayed in the household on the night before the interview and who were tested for anaemia. Prevalence of anaemia, based on haemoglobin levels, is adjusted for altitude using formulas from CDC, 1998. Haemoglobin in grams per deciliting children where a ""

² Includes children whose mothers are deceased ² For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

Figure 11.5 Trends in Anaemia Status among **Children 6-59 Months**



EDHS 2011

11.4 MICRONUTRIENT INTAKE AMONG CHILDREN

Micronutrient deficiency is a major contributor to childhood morbidity and mortality. Children can receive micronutrients from foods, food fortification, and direct supplementation. Table 11.8 summarises information collected in the 2011 EDHS on children's intake of vitamin A and iron, receipt of deworming medications, and whether they live in households with iodized salt.

Vitamin A is an essential micronutrient for the immune system that plays an important role in maintaining the epithelial tissue in the body. Severe vitamin A deficiency (VAD) can cause eye damage. VAD can also increase the severity of infections such as measles and diarrhoeal diseases in children and slow recovery from illness. Vitamin A is found in breast milk, other milks, liver, eggs, fish, butter, red palm oil, mangoes, papayas, carrots, pumpkins, and dark green leafy vegetables. The liver can store an adequate amount of the vitamin for four to six months. Periodic dosing (usually every six months) of vitamin A supplements is one method of ensuring that children at risk do not develop VAD.

Table 11.8 shows that 26 percent of youngest children age 6-23 months living with their mothers consumed foods rich in vitamin A in the 24 hours preceding the interview. The proportion of children consuming vitamin A rich foods increases with age (from 16 percent at 6-8 months to 31 percent at 18-23 months). Nonbreastfeeding children are more likely than breastfeeding children to consume foods rich in vitamin A (34 percent compared with 25 percent). Urban children (38 percent) are more likely than rural children (24 percent) to consume foods rich in vitamin A. With regard to regions, children living in the Gambela region are most likely to consume foods rich in vitamin A (48 percent), while those in the Affar region are least likely (11 percent). Mother's level of education is directly related to the consumption of foods rich in vitamin A; 20 percent of children whose mothers have no education consumed foods rich in vitamin A in the 24 hours before the survey,

compared with 58 percent of children whose mothers have more than secondary education. Likewise, as household wealth increases, so does the proportion of children who receive foods rich in vitamin A, from 19 percent among children in the lowest wealth quintile to 40 percent among children in the highest wealth quintile.

As noted, low iron intake can also contribute to anaemia. Also, iron is essential for cognitive development. Iron requirements are greatest at ages 6-11 months, when growth is extremely rapid. As Table 11.8 shows, 13 percent of children age 6-23 months consumed iron-rich foods in the 24 hours preceding the survey. Consumption of foods rich in iron increases with age, as children age 18-23 months are more likely to consume foods rich in iron than children age 6-8 months (16 percent and 10 percent, respectively). The consumption of iron-rich foods is more common in urban areas (22 percent) than in rural areas (12 percent). Children in Gambela are most likely to consume iron-rich foods (33 percent), while those living in Affar, SNNP, and Somali are the least likely (6 percent each). Children whose mothers have some secondary education are more likely to consume iron-rich foods (31 percent) than those whose mothers have no education (11 percent). Similarly, wealth status is directly related to the consumption of foods rich in iron, with 9 percent of children in the lowest wealth quintile consuming foods rich in iron in the 24 hours before the survey compared with 23 percent of children in the highest wealth quintile.

The 2011 EDHS also collected data on vitamin A and iron supplementation for children age 6-59 months. Table 11.8 shows that more than half of children age 6-59 months (53 percent) received vitamin A supplements in the six months preceding the survey. Vitamin A supplementation does not show a clear pattern among children of different age cohorts. Children in urban areas are slightly more likely to have received vitamin A supplements in the past six months (57 percent) than those in rural areas (53 percent). At the regional level the proportion of children receiving vitamin A supplements was exceptionally low in Somali and Affar (26 percent and 35 percent, respectively), while Tigray had the highest proportion of children who were given vitamin A supplementation (83 percent). Mother's level of education is closely associated with children receiving vitamin A supplements; 51 percent of children whose mothers have no education received vitamin A supplements in the past six months compared with 72 percent of children whose mothers have more than a secondary education. A similar pattern is observed with household wealth status.

Iron supplementation coverage is generally low in Ethiopia. Only 6 percent of children age 6-59 months were given iron supplements in the seven days preceding the survey. It is, however, worth noting that Benishangul-Gumuz and Dire Dawa have relatively high coverage (20 percent and 19 percent, respectively) compared with other regions. Rural children were twice as likely as urban children to have received iron supplements in the seven days preceding the survey (6 percent compared with 3 percent).

Infection with helminths or intestinal worms has an adverse impact on the physical development of children and is associated with high levels of iron deficiency anaemia and other nutritional deficiencies. Regular treatment with deworming medication is a simple, cost-effective measure to address these infections. As Table 11.8 shows, 21 percent of children age 6-59 months received deworming medication during the six months preceding the survey. The likelihood of receiving deworming medication increases with the child's age, mother's age at childbirth, mother's education, and wealth status. Non-breastfed children as well as urban children are more likely to receive deworming medication than their counterparts. Benishangul-Gumuz (27 percent), Amhara and Tigray regions (26 percent, each) have the highest proportion of children who received deworming medication, while Somali is the region with the lowest proportion (6 percent).

Table 11.8 Micronutrient intake among children

Among youngest children age 6-23 months who are living with their mother, the percentages who consumed vitamin A rich and iron-rich foods in the day or night preceding the survey, and enrolls preceding the survey, who were given in the past seven days, and who were given deworming medication in the six months preceding the survey, who were given iron supplements in the past seven days, and who were given deworming medication in the six months preceding the survey, and among all children age 6-59 months who live in households that were tested for iodized salt, the percentage who live in households that were tested for iodized salt, the percentage who live in households with iodized salt, by background characteristics, Ethiopia 2011

| Parcentage Percentage Per | Among youngest children age 6-23 months living with the mother: | | 4mong all children age 6-59 months: | 9 months: | | househol | households tested for iodized salt | households tested for iodized salt |
|--|--|--|--|-----------------------------------|-------------------------------------|--|------------------------------------|-------------------------------------|
| onths 16.4 10.3 608 591 40.5 18.8 11.3 506 442 54.7 31.2 15.7 1806 1,046 54.5 31.2 15.7 1806 1,046 54.5 ann na na na 53.6 na na na 53.6 53.9 ading status 25.0 12.9 1,442 53.5 action of a status 25.1 14.5 1,442 53.5 action of a status 25.1 14.5 1,442 53.5 action of a status 25.1 14.5 1,442 53.6 action of a status 25.1 14.5 14.7 | ercentage o consumed o consumed Weighted Unweighted ron in past number number of | Percentage given vitamin A supplements in past 6 months | Percentage given given an iron deworming ements in medication in 7 days past 6 months³ | Weighted number of children | Unweighted number of children | Percentage living in households with iodized salt ⁴ | Weighted number of children | Unweighted number of children |
| 30.1 14.2 1000 1,046 515 and name name name name 560 and gastus 55.0 12.9 1,452 1,418 53.9 eeding status 25.1 13.7 1,497 1,432 52.2 astreeding 33.5 14.6 2,733 2,545 53.9 age at birth 28.9 14.5 18.3 2,545 53.9 age at birth 28.9 14.5 18.9 17.4 53.2 and Gunderion 20.4 19.8 31.3 85.8 and Gunderion 20.4 10.6 6.0 17.9 65.6 and cation 33.6 16.1 6.2 2.3 22.9 35.3 and Gunderion 20.4 10.6 6.0 20.0 40.0 and an accordant 20.4 10.6 6.0 20.0 40.0 and an accordant 20.4 10.6 6.0 20.0 6.0 and an accordant 20.4 10.5 19.0 6.0 and an accordant 20.4 10.5 10.0 6.0 and an accordant 20.4 10.5 10.0 and an accordant 20.4 10.5 10.0 and an accordant 20.4 10.5 50.0 and an accordant 20.0 50.0 and an accordant 20.0 50.0 6.0 and accordant 20.0 50.0 | 608 505 | 40.5 54.7 | 1.8 3.5 3.7 5.6 | 610 | 597 446 | 14.4 15.4 | 600 | 570 |
| ading status 26.3 13.7 1,497 1,432 55.2 26.3 13.7 1,497 1,432 55.2 26.3 13.7 1,497 1,432 55.3 andia status 25.1 13.2 2,733 2,545 55.8 age at birth 25.9 14.5 1,65 1,632 1,418 53.9 28.1 14.5 1,632 1,542 51.1 28.1 14.5 1,632 1,542 51.1 28.1 14.5 1,632 1,542 51.1 28.1 14.5 1,632 1,542 51.1 28.8 11.9 2,545 2,339 52.5 28.8 11.9 2,545 2,339 52.5 a 16.1 10.4 1,237 44.3 68.8 andul-Gumuz 34.5 6.0 6.0 403 43.9 andul-Gumuz 34.5 6.0 6.0 403 43.9 andul-Gumuz 33.3 16.1 6.1 6.7 andul-Gumuz 34.5 6.0 6.0 6.0 andul-Gumuz 33.3 16.1 6.1 6.7 andul-Gumuz 33.3 16.1 6.1 6.7 andul-Gumuz 33.4 16.1 6.7 andul-Gumuz 34.5 6.0 6.0 6.0 andul-Gumuz 34.5 6.0 6.0 6.0 andul-Gumuz 33.3 16.1 6.1 6.7 andul-Gumuz 34.5 6.0 6.0 6.0 andul-Gumuz 33.6 11.2 6.0 6.0 6.0 andul-Gumuz 34.5 6.0 6.0 6.0 6.0 andul-Gumuz 34.5 6.0 6.0 6.0 6.0 6.0 andul-Gumuz 34.5 6.0 6.0 6.0 6.0 6.0 6.0 andul-Gumuz 34.5 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 | 1,000 835 1 | 51.5 58.4 50.4 | നയ | 1,030 900 | 1,085 842 | 18.1 17.9 | 996 865 | 1,030 |
| ading status 26.3 13.7 1,497 1,432 53.9 26.3 13.7 1,497 1,432 53.9 26.4 12.9 1,452 1,418 53.9 asteleeding 33.5 14.6 2,733 2,545 55.8 age at birth 2.8 14.6 2,733 2,545 55.8 age at birth 2.8 14.6 2,733 2,545 55.8 28.8 11.9 2,404 51.1 28.8 11.4 5.6 2.3 1,404 51.1 28.8 16.1 10.7 1,93 1,74 56.8 11.4 5.6 2.3 1,93 1,74 55.6 11.4 5.6 2.3 1,93 1,93 1,93 1,93 1,93 1,93 1,93 1,9 | na na | 59.0 53.4 | သ ဟ | 2,063 2,381 | 2,311 | 15.5 | 1,985 2,326 | 2,227 |
| ading status 26.3 13.7 1,497 1,432 25.0 12.9 1,452 1,418 25.0 25.1 25.0 13.2 25.45 25.8 25.8 25.9 | na | 51.6 | 7 | 2,282 | 2,217 | 15.2 | 2,201 | 2,085 |
| ading status 25.1 13.2 2,733 2,545 55.8 eeding at birth age at birth age at birth 25.9 25.9 14.5 18.5 190 49.7 age at birth 25.9 25.9 14.5 18.5 190 49.7 age at birth 25.9 25.9 14.5 18.5 190 49.7 28.1 15.6 10.7 93.4 94.4 51.1 28.6 15.7 19.9 17.4 56.8 28.6 17.9 27.4 51.1 56.8 29.8 17.9 2.545 2.339 52.5 29.8 17.4 1.237 44.8 56.8 31.9 1.7 1.6 66.8 32.8 63.9 10. 1.7 1.2 2.545 2.339 52.5 20.6 1.7 1.2 2.545 2.339 52.6 1.1 1.1 1.2 2.545 2.339 52.6 1.1 1.1 1.2 2.545 | 1,497 1,452 | 52.2 53.9 | | 5,002 4,775 | 4,894 4,703 | 15.4 15.9 | 4,846 4,629 | 4,650 4,468 |
| age at birth 25.9 14.5 185 190 49.7 28.1 15.6 1,632 1,542 51.1 28.1 15.6 10.7 934 944 56.2 23.6 10.7 199 174 56.8 51.1 28.1 15.8 6.1 199 174 56.8 51.1 23.8 22.3 404 51.1 56.8 52.5 52.5 24.6 20.4 198 313 82.8 52.5 52.5 52.5 angul-Cumuz 26.8 17.4 1.237 443 48.7 53.3 60.8 53.9 53.5 60.8 53.9 53.5 60.3 53.6 53.9 53.6 53.9 53.6 53.9 53.6 53.9 53.6 53.9 53.6 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 | 2,733 2 216 | 55.8 51.4 | 5.2 6.6 24.2 | 3,987 5,751 | 3,591 5,965 | 15.1 16.1 | 3,870 5,566 | 3,408 5,670 |
| ## 37.9 | 185 1,632 199 | 49.7 51.1 53.2 | 4.1 5.4 19.6 6.9 23.0 23.0 | 331 5,055 3,491 | 34 3,510 850 | 2.00 2.00 2.00 4.00 4.00 4.00 4.00 4.00 | 324 4,930 3,381 840 | 333 4,662 3,334 789 |
| angul-Gumuz 1.1.4 5.5 20.4 198 313 82.8 15.3 11.4 5.5 229 35.3 229 35.3 11.4 5.5 229 32.9 35.3 31.9 11.7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 | 404 2,545 | 56.8 52.5 | o 64 | 1,278 8,499 | 1,679 7,918 | 23.7 | 1,248 8,227 | 1,616 |
| an a 16.1 10.4 666 326 63.8 and a 26.8 and a 26.0 and a | 198 23 | | | 640 98 | 1,021 | 21.9 | 624 96 | 995 886 |
| 25.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 | 666 1,237 75 | | 8.1 25.9 4.8 19.8 | 2,220 4,082 | 1,083 1,434 | 9.8 8.8.8 9.8.8 | 2,152 3,992 | 1,050 1,403 |
| 20.4 10.5 198 65.6 62.8 62.8 62.8 62.8 62.8 62.8 62.8 62 | 34 34 34 | | | 254 113 2.049 | 820 820 1326 | 39.0 11.4 | 110 | 796 |
| 33.3 16.1 67 118 62.3 38.1 23.8 10 173 67.6 20.4 10.5 1,993 1,911 50.6 33.6 17.4 829 769 57.4 55.6 30.7 79 115 63.7 18.5 9.2 689 837 45.2 20.4 9.9 661 526 53.2 20.4 12.0 594 457 51.4 28.1 15.5 52.4 450 59.6 | တ ထ | | | 33 24 33 | 680 562 | 23.0 | 27 24 | 525 557 |
| 20.4 10.5 1,993 1,911 50.6 33.6 17.4 829 769 57.4 55.6 30.7 79 115 63.7 57.5 30.4 48 55 71.9 18.5 9.2 689 837 45.2 20.4 12.0 594 457 51.4 28.1 15.5 52.4 450 59.6 | 67 10 | | | 191 33 | 346 587 | 29.5 5.6 | 189 31 | 342 556 |
| 33.6 17.4 829 769 57.4 55.6 30.7 79 115 63.7 71.9 63.7 79 115 63.7 71.9 71.9 71.9 71.9 71.9 71.9 71.9 71 | 1.993 | | | 6.794 | 6.719 | 14.8 | 6.572 | 6.387 |
| ondaly 57.5 30.4 46 55 71.9 11.9 20.4 12.0 59.4 457 59.6 59.6 59.6 59.6 59.6 59.6 59.6 59.6 | 829 79 | | 7.7 22.8 4.7 31.0 | 2,630 198 | 2,389 318 | 31.0 | 2,564 197 | 2,260 |
| 185 9.2 689 837 45.2 20,4 9.9 661 526 53.2 26,4 12.0 594 457 51.4 28,1 15.5 524 450 59.6 | Q | | | 001 | - | 30.1 | 5 | 501 |
| 26.4 12.0 594 457 51.4 28.1 15.5 524 450 59.6 | 689 661 | | 5.2 15.4 8.1 19.7 | 2,192 2,165 | 2,919 1,734 | 13.4 12.2 | 2,093 2,123 | 2,662 1,680 |
| 700 | 594 524 | | | 1,989 1,935 | 1,518 1,580 | 15.4 17.7 | 1,925 1,904 | 1,463 1,542 |
| 39.7 23.1 481 580 58.1 | 2 040 | | | 1,495 | 1,846 | 21.6 | 1,430 | 1,771 |

Note: Information on vitamin A is based on both mother's recall and the immunization card. Information on iron supplements and deworming medication is based on the mother's recall. Total includes 39 cases with missing information on breastfeeding status.

na = Not applicable

na = Not applicable

Includes meat, fish, poultry, eggs, pumpkin, squash, carrots, sweet potatoes that are yellow or orange inside, dark green leafy vegetables, ripe mangoes, ripe papayas, and other fruits and vegetables that are rich in vitamin

² had be an eat, organ meat, fish, and eggs 3 bedoming for helminths and for schistosomiasis. 3 bedoming for intestinal parasites is commonly done for helminths and for schistosomiasis. 4 Excludes children in households in which salt was not tested

Iodine deficiency has serious effects on body growth and mental development. The principal cause of iodine deficiency is inadequate iodine in foods. The fortification of salt with iodine is the most common method of preventing iodine deficiency. According to WHO, a country's salt iodisation programme is considered to be on a good track (poised to attain the goal of eliminating iodine deficiency) when 90 percent of the households are using iodised salt. To assess the use of iodised salt in Ethiopia, interviewers in the 2011 EDHS asked households to provide a teaspoon of salt used for cooking. The salt was tested for iodine using the iodine rapid test kit.

As Table 11.8 shows, only 16 percent of children live in households that use iodised salt. The percentage is higher in urban areas than in rural areas (24 percent compared with 14 percent). At the regional level Benishangul-Gumuz has the highest proportion of households using iodised salt (39 percent) and Harari has the lowest percentage (4 percent). In general, use of iodised salt is correlated with the mother's education level; about 30 percent of children of mothers who are educated at the secondary or higher level live in households using iodised salt, compared with 15 percent of children whose mothers have no education. A similar pattern is observed according to household wealth quintile.

11.5 IODISATION OF HOUSEHOLD SALT

Table 11.9 shows the percentage of households with salt tested for iodine content, the percentage of households without salt, and, among households with tested salt, the percentage with iodine present in the salt. Ninety-four percent of households had salt tested for iodine at the time of the interview. Of these households, 15 percent were using iodised salt.

| Table 11.9 Presence of iodised salt in household |
|--|
| Among all households, the percentage with salt tested for iodine content and the percentage with no salt in the household; and among households with salt tested, the percentage with iodised salt, according to background characteristics, Ethiopia 2011 |

| | Amo | ong all househo | lds, the percen | tage: | Among ho | useholds with | tested salt: |
|--|--|--|--|---|---|--|---|
| Background characteristic | With salt tested | With no salt in the household | Weighted number of households | Unweighted number of households | Percentage with iodised salt | Weighted number of households | Unweighted number of households |
| Residence | | | | | | | |
| Urban Rural | 89.9 94.9 | 9.0 4.5 | 3,780 12,922 | 5,112 11,590 | 23.2 13.3 | 3,398 12,266 | 4,535 10,695 |
| Region | | | | | | | |
| Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 95.0 93.9 94.0 94.9 79.1 93.4 93.1 76.7 91.0 93.3 85.9 | 4.5 5.7 5.3 4.3 17.2 6.0 6.5 22.6 5.4 5.9 12.1 | 1,134 143 4,452 6,221 343 181 3,256 66 53 781 73 | 1,730 1,267 2,071 2,165 975 1,323 2,045 1,215 1,201 1,524 1,186 | 22.3 17.8 9.6 17.4 19.2 39.7 12.2 22.9 5.6 29.6 5.7 | 1,078 134 4,186 5,905 271 169 3,031 51 48 729 63 | 1,647 1,199 1,956 2,053 792 1,241 1,909 895 1,093 1,418 1,027 |
| Wealth quintile Lowest Second Middle Fourth Highest | 93.4 96.2 95.3 95.1 90.0 | 6.3 3.4 4.1 4.1 8.6 5.5 | 3,213 3,222 3,091 3,070 4,106 | 3,972 2,534 2,364 2,419 5,413 | 11.3 11.7 14.7 15.6 22.3 | 3,002 3,100 2,945 2,921 3,697 | 3,519 2,397 2,226 2,258 4,830 15,230 |

Urban households are more likely to use iodised salt (23 percent) than rural households (13 percent). At the regional level Benishangul-Gumuz and Addis Ababa have the highest proportions of households using iodised salt (40 percent and 30 percent, respectively), whereas the Dire Dawa and Harari regions have the lowest (6 percent). Households in the highest wealth quintile are twice as likely to use iodised salt as households in the lowest two wealth quintiles.

11.6 NUTRITIONAL STATUS OF WOMEN AND MEN

The nutritional status of women and men was assessed by use of two anthropometric indices—height and body mass index (BMI). To derive those indices, the 2011 EDHS measured the height and weight of women age 15-49 years and men age 15-59 years. Results are presented for women in Table 11.10.1 and for men in Table 11.10.2.

Short stature reflects previous poor socioeconomic conditions and inadequate nutrition during childhood and adolescence. In a woman short stature is a risk factor for poor birth outcomes and obstetric complications. For example, short stature is associated with small pelvic size, which increases the likelihood of difficulty during delivery and the risk of bearing low birth weight babies. A woman is considered to be at risk if her height is below 145 cm.

BMI is used to measure thinness or obesity. BMI is defined as weight in kilograms divided by height in metres squared (kg/m²). A BMI below 18.5 indicates thinness or acute undernutrition. A BMI below 17 kg/m² indicates severe undernutrition and is associated with increased mortality. Low pre-pregnancy BMI, like short stature, is associated with poor birth outcomes and obstetric complications. A BMI of 25.0 or above indicates overweight or obesity

Table 11.10.1 shows the percentage of women with height under 145 cm, the mean BMI, and the proportion of women falling into high-risk categories, by background characteristics. Respondents for whom there was no information on height or weight and for whom a BMI could not be estimated are excluded from this analysis. The data analysis on BMI is based on 14,505 women age 15-49 years, while the height analysis is based on 16,062 women.

As shown in Table 11.10.1, 3 percent of Ethiopian women are below 145 cm in height. In general, height differs little with background characteristics. Adolescent women, age 15-19 years, are most likely to be below 145 cm. Women of short stature are most likely to reside in the Amhara region, and to have no education or primary education.

The mean BMI for Ethiopian women age 15-49 is 20 kg/m^2 . There are no major differences in mean BMI by women's age, urban or rural residence, region, or education level. The mean BMI increases slightly with wealth, from 20 kg/m^2 for women in the lowest wealth quintile to 22 kg/m^2 in the highest quintile. Sixty-seven percent of Ethiopian women have a normal BMI (between 18.5 and 24.9 kg/m^2), while 27 percent of women are thin or undernourished (BMI less than 18.5 kg/m^2) and 6 percent are overweight or obese (BMI 25 kg/m^2 or above).

Adolescents (age 15-19) are more likely to be thin (36 percent) than older women. Rural women also are more likely to be thin than urban women, and those residing in the Affar region are the most likely to be thin of any region. By education, women who have attended up to primary school have the greatest likelihood of being thin. Those in the lowest wealth quintile also are more likely to be thin than women in other wealth quintiles.

Overweight or obesity (BMI 25 kg/m² or above) is not common among women in Ethiopia. Five percent are overweight (BMI 25-29 kg/m²), and just 1 percent are obese (BMI 30 kg/m² or above). Younger women are less likely than older women to be overweight or obese. For example, 2 percent of women age 15-19 are overweight or obese compared with 9 percent of women age 40-49. Urban women are more likely to be overweight or obese (15 percent) than rural women (3 percent). One woman of every five residing in Addis Ababa and the Dire Dawa region are overweight or obese (20 percent and 19 percent, respectively), compared with 3 percent of women in Benishangul-Gumuz and Tigray. Being overweight or obese is positively correlated with educational attainment; the proportion of overweight or obese women increases steadily from 4 percent among those with no education to 17 percent among those with more than secondary schooling. Similarly, the proportion of overweight or obese women increases as wealth increases, from 2 percent in the lowest wealth quintile to 16 percent in the highest quintile.

Among women age 15-49, the percentage with height under 145 cm, mean Body Mass Index (BMI), and the percentage with specific BMI levels, by background characteristics, Ethiopia 2011 Table 11.10.1 Nutritional status of women

| | | | | | | | | Body Ma | Body Mass Index ¹ | | | | |
|----------------------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|--------------------------------|---|----------------------------|---|-----------------------------------|---------------------------|------------------|--------------------------------|----------------------------------|
| | | Height | | • | Normal | | Thin | | Ove | Overweight/Obese | | | |
| Background characteristic | Percentage below 145 cm | Weighted number of women | Unweighted number of women | Mean Body Mass Index (BMI) | 18.5-24.9 (total normal) | <18.5 (total thin) | 17.0-18.4 (mildly thin) | <17 (moderately and severely thin) | ≥25.0 (total overweight or obese) | 25.0-29.9 (overweight) | ≥30.0 (obese) | Weighted number of women | Unweighted number of women |
| Age 15-19 | 5.6 | 3,895 | 3,701 | 19.5 | 61.5 | 36.1 | 20.7 | 15.5 | 2.4 | 2.2 | 0.2 | 3,724 | 3,534 |
| 20-29 | 2.2 | 5,920 | 6,003 | 20.4 | 73.5 | 21.3 | 15.9 | 4.0 | 5.2 | 6.4 6.6 | 0.6 | 5,099 | 5,163 |
| 40-49 | 2.6 | 2,401 | 2,353 | 20.4 | 62.7 | 28.5 | 18.4 | 10.2 | 8.7 | 6.7 | 2.0 | 2,323 | 2,271 |
| Residence | Ċ | 7 | C | 2 | Ĺ | 9 | 0 | 1 | 7 | | Ċ | C L | 1 |
| Orban Rural | 3.6 3.6 | 3,747 12,315 | 5,022 10,946 | 19.9 | 68.2 | 29.1 | 19.4 19.4 | 7.7 9.7 | 2.6 9.5 | 2.3 | 0.4 8.4 | 3,569 10,936 | 4,752 9,629 |
| Region | | | | | | | | | | | | | |
| Tigray | 3.2 | 1,096 | 1,716 | 19.3 | 56.8 | 40.0 | 23.7 | 16.3 | 3.2 | 2.9 | 0.3 | 1,001 | 1,565 |
| Апаг | ري ۲.۵ | 143 | 1,277 | 19.4 4.00 | 52.2 66.6 | 43.5 3.00 8.00 | 71.7 | Σ-7.2 Σ-α | 4. ພ ພັດ | 3.0 | ا ال | 125 3 085 | 1,102 |
| Oromiya | 5.0 | 4,000 | 2,032 | 20.5 | 00.00 4 8 4 | 26.9 | 19.0 | 7.5 | 5.5 | - œ | . o | 5,55 | 1,872 |
| Somali | 0.7 | 303 | 849 | 20.9 | 51.4 | 32.7 | 18.9 | 13.8 | 15.9 | 10.2 | 5.7 | 255 | 717 |
| Benishangul-Gumuz | 3.0 | 170 | 1,231 | 20.0 | 69.3 | 27.8 | 19.6 | 8.2 | 2.9 | 2.3 | 9.0 | 148 | 1,063 |
| SNNP | 3.6 | 3,109 | 1,955 | 20.5 | 73.6 | 20.3 | 14.3 | 0.9 | 6.1 | 5.5 | 0.5 | 2,760 | 1,731 |
| Gambela | 6 . | 89 ; | 1,101 | 20.3 | 62.1 | 31.0 | 17.1 | 13.9 | 6.9 | 5.6 | | 63 | 1,001 |
| Harari Addio Abobo | 4.0 | 946 | 1,032 | 21.4 4.00 | 63.5 | 22.1 | 15.9 | 2.5 | 4.4 | 11.0 | 4.6 | 24.5 | 949 |
| Addis Ababa Dire Dawa | 1.7 | 0.45 0.75 | , 045 031 | 22.7 7.15 | 65.7 56.6 | 24.4 24.9 | 9.5 0.61 | 4, α υ. ⊂ | 9. 0 9. 0 7. 0 | 13.6 | 4. r. | 010 | 500°,1 |
| 2000 | 7: | 3 | 5 | 5. | 9 | 5. | 5 | 9 | 2 | <u>-</u> | 5 | 3 | 170 |
| Education No education | 3.4 | 8,193 | 8,040 | 20.1 | 69.7 | 26.5 | 18.0 | 8.5 | 3.8 | 3.0 | 0.7 | 7,194 | 7,013 |
| Primary | 0.4 | 6,107 | 5,676 | 20.1 | 64.5 | 30.1 | 19.3 | 10.8 | 4.0 | 4.7 | 0.7 | 5,621 | 5,206 |
| Secondary More than secondary | . . . | 600, 603 | 927 | 21.2 21.8 | 69.2 | 20:5 14:2 | 10.5 | 0, 8, 0, 8, | 16.6 | 13.3 | 3.2 | ,024 665 | 890 |
| Wealth quintile | | | | | | | | | | | | | |
| Lowest | 4. | 2,922 | 3,635 | 19.6 | 65.8 | 32.4 | 20.9 | 11.5 | 6. 8. | 4.1 | 4.0 | 2,531 | 3,106 |
| Second | 4 c | 2,985 | 2,302 | 1.6 | 20.8 | 0.15 | . 9.7 5.0 | 7.7 | ۶. ک دن | D: 0 | 4. c | 2,038 | 7,097 |
| Fourth | 3. S. | 3,148 | 2,210 | 20.0 | 68.7 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 20.4 | છ. α Ο 4 | - c e: c | o e: | 0.0 | 2,049 | 2,369 198 |
| Highest | 2.4 | 4,031 | 5,306 | 21.5 | 65.5 | 19.0 | 12.9 | 6.1 | 15.5 | 12.6 | 3.0 | 3,815 | 5,011 |
| Total | 3.4 | 16,062 | 15,968 | 20.2 | 67.4 | 26.9 | 17.8 | 9.1 | 5.7 | 4.7 | 1.0 | 14,505 | 14,381 |
| | | | | | | | | | | | | | |

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

Table 11.10.2 presents the nutritional status of men. The mean BMI for Ethiopian men age 15-49 is 19 kg/m². There is little difference in the mean BMI by background characteristics. Sixty percent of Ethiopian men age 15-49 have a normal BMI (between $18.5-24.9~\text{kg/m}^2$), whereas 37 percent are thin or undernourished (BMI less than $18.5~\text{kg/m}^2$), and 2 percent are overweight or obese (BMI $25~\text{kg/m}^2$ or above).

Young men, age 15-19, are more likely to be thin (66 percent) than their older counterparts. Rural men are slightly more likely to be thin (39 percent) than urban men (32 percent). Among regions, those residing in the Somali region are most likely to be thin (62 percent), and those living in Addis Ababa are least likely (22 percent). Men who attended only primary school are more likely than those with higher educational levels and those with no education to have a BMI of less than 18.5 kg/m². Forty-four percent of men in the lowest wealth quintile are thin, compared with 29 percent in the highest wealth quintile.

<u>Table 11.10.2 Nutritional status of men</u>

Among men age 15-49, mean Body Mass Index (BMI), and the percentage with specific BMI levels, by background characteristics, Ethiopia 2011

| | Body Mass Index | | | | | | | | | | | |
|---|--|--|--|--|--|---|--|--|---|--|--|--|
| | | Normal | | Thin | | 0\ | erweight/Obese | e | | | | |
| Background characteristic | Mean Body Mass Index (BMI) | 18.5-24.9 (total normal) | <18.5 (total thin) | 17.0-18.4 (mildly thin) | <17 (moderately and severely thin) | ≥25.0 (total overweight or obese) | 25.0-29.9 (overweight) | ≥30.0 (obese) | Weighted number of men | Unweighted number of men | | |
| Age 15-19 20-29 30-39 40-49 | 17.8 19.5 20.0 19.9 | 33.8 68.1 70.5 66.5 | 65.9 30.7 25.3 29.0 | 29.1 23.8 19.3 20.1 | 36.7 6.9 6.0 8.9 | 0.4 1.3 4.2 4.5 | 0.3 1.2 3.8 3.7 | 0.1 0.1 0.3 0.8 | 2,864 4,440 3,033 1,979 | 2,681 4,376 3,106 2,070 | | |
| Residence Urban Rural | 20.1 19.1 | 60.8 60.3 | 31.5 38.9 | 20.7 24.1 | 10.9 14.8 | 7.6 0.8 | 6.9 0.7 | 0.7 0.1 | 2,687 9,630 | 3,603 8,630 | | |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 18.8 18.5 18.9 19.3 18.2 19.3 19.7 19.7 19.9 21.1 20.3 | 49.9 40.8 56.2 62.5 36.1 60.4 68.1 64.9 58.8 65.6 53.4 | 47.8 56.8 42.7 35.9 62.0 37.6 29.5 33.2 34.8 22.0 36.5 | 27.0 28.4 25.7 23.8 28.3 25.0 19.1 23.6 22.1 15.0 25.5 | 20.8 28.4 17.0 12.2 33.7 12.5 10.4 9.5 12.6 7.0 | 2.3 2.4 1.2 1.6 1.9 2.0 2.4 2.0 6.4 12.4 10.1 | 2.1 2.4 1.0 1.3 1.9 1.7 2.4 1.8 5.5 10.8 8.4 | 0.2 0.0 0.2 0.3 0.0 0.3 0.1 0.1 1.0 1.6 | 757 99 3,368 4,790 217 131 2,171 56 36 643 49 | 1,216 885 1,687 1,822 589 997 1,460 823 816 1,164 | | |
| Education No education Primary Secondary More than secondary | 19.3 19.0 19.8 20.8 | 64.1 57.2 61.7 67.2 | 34.6 41.6 32.9 22.1 | 23.9 24.3 22.4 15.2 | 10.7 17.3 10.5 6.8 | 1.3 1.2 5.4 10.7 | 1.2 1.0 5.1 8.8 | 0.1 0.1 0.3 1.9 | 3,668 6,547 1,225 875 | 3,526 6,032 1,454 1,221 | | |
| Wealth quintile Lowest Second Middle Fourth Highest | 18.7 18.9 19.1 19.2 20.2 | 55.0 57.7 64.4 59.3 64.1 | 44.4 42.1 35.1 39.4 28.6 | 24.5 26.1 21.5 27.0 18.7 | 19.8 16.0 13.6 12.4 9.9 | 0.6 0.2 0.5 1.3 7.3 | 0.6 0.1 0.4 1.1 6.5 | 0.0 0.1 0.1 0.2 0.8 | 2,058 2,293 2,399 2,576 2,991 | 2,473 1,829 1,872 2,105 3,954 | | |
| Total 15-49 50-59 Total 15-59 | 19.3 19.9 19.4 | 60.4 65.0 60.9 | 37.3 30.5 36.6 | 23.3 22.3 23.2 | 13.9 8.2 13.4 | 2.3 4.5 2.5 | 2.0 3.9 2.2 | 0.3 0.6 0.3 | 12,316 1,230 13,546 | 12,233 1,184 13,417 | | |

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

Two percent of Ethiopian men 15-49 are overweight, while less than 1 percent are obese. The proportion of overweight or obese men increases with age. Nearly 8 percent of urban men are overweight or obese, compared with less than 1 percent of rural men. Addis Ababa and Dire Dawa have relatively high proportions of overweight or obese men (12 percent and 10 percent, respectively), while the Amhara region has the lowest proportion (1 percent). The proportion of overweight or obese men increases with education and wealth. For example, 1 percent of men with no education are overweight or obese, compared with 11 percent with more than secondary school education. Similarly, 1 percent of men in the lowest wealth quintile are overweight or obese, compared with 7 percent of men in the highest quintile.

11.7 PREVALENCE OF ANAEMIA IN WOMEN

Anaemia in pregnant women results in an increased risk of premature delivery and low birth weight. Table 11.11.1 presents anaemia prevalence among women age 15-49 based on haemoglobin levels, according to selected background characteristics. The raw measured values of haemoglobin were obtained using the HemoCue instrument and adjusted for altitude and smoking status.

Seventeen percent of Ethiopian women age 15-49 are anaemic, with 13 percent having mild anaemia, 3 percent having moderate anaemia, and 1 percent having severe anaemia. A higher proportion of pregnant women are anaemic (22 percent) than women who are breastfeeding (19 percent) and women who are neither pregnant nor breastfeeding (15 percent). Anaemia prevalence also varies by urban and rural residence; a higher proportion of women in rural areas are anaemic (18 percent) than those in urban areas (11 percent). Also, women in the Somali, Affar, and Dire Dawa regions have a relatively high prevalence of anaemia (44 percent, 35 percent, and 29 percent, respectively). Women in Addis Ababa and the SNNP and Tigray regions are at the other end of the range, with relatively low prevalence of anaemia (9 percent, 11 percent, and 12 percent, respectively). Women with no education are twice as likely to be anaemic as women with more than secondary education (20 percent and 10 percent, respectively). Similarly, anaemia prevalence decreases as wealth status increases.

The HSDP IV target is to reduce anaemia prevalence nationally to 12 percent. In comparison with the data from the 2005 EDHS, the prevalence of any anaemia has declined from 27 percent to 17 percent in 2011, a decrease of 37 percent. The prevalence of mild and moderate anaemia also has declined between the two surveys, from 17 percent to 13 percent, and from 8 percent to 3 percent, respectively.

Table 11.11.1 Prevalence of anaemia in women

Percentage of women age 15-49 with anaemia, by background characteristics, Ethiopia 2011

| Background characteristic | Not pregnant: | Any | Mild | | | • | |
|---------------------------|---------------|--------------|----------------|--------------|------------|-----------------|--------------------|
| characteristic | | | IVIIIU | Moderate | Severe | | |
| characteristic | | <12.0 g/dl | 10.0-11.9 g/dl | 7.0-9.9 g/dl | <7.0 g/dl | Weighted | Unweighted |
| Age | Pregnant | <11.0 g/dl | 10.0-10.9 g/dl | 7.0-9.9 g/dl | <7.0 g/dl | number of women | Number of Women |
| | | | | | | | |
| 15-19 | | 13.4 | 10.9 | 2.2 | 0.3 | 3,841 | 3,617 |
| 20-29 | | 16.3 | 12.3 | 3.2 | 0.8 | 5,811 | 5,838 |
| 30-39 | | 17.3 | 13.3 | 3.4 | 0.6 | 3,782 | 3,817 |
| 40-49 | | 21.5 | 18.3 | 2.7 | 0.5 | 2,348 | 2,296 |
| Number of children e | ver born | 10.5 | 10.1 | 0.4 | 0.2 | F 067 | E 101 |
| 0 1 | | 12.5 15.7 | 10.1 12.2 | 2.1 2.8 | 0.3 0.7 | 5,267 1,712 | 5,194 1,892 |
| 2-3 | | 18.0 | 14.3 | 2.7 | 1.0 | 3,052 | 3,060 |
| 4-5 | | 18.0 | 12.9 | 4.5 | 0.7 | 2,353 | 2,296 |
| 6+ | | 21.1 | 17.1 | 3.5 | 0.5 | 3,397 | 3,126 |
| Maternity status | | | | | | ŕ | , |
| Pregnant | | 22.0 | 12.2 | 8.7 | 1.2 | 1,173 | 1,226 |
| Breastfeeding | | 18.5 | 14.8 | 3.0 | 0.6 | 4,933 | 4,487 |
| Neither | | 15.0 | 12.3 | 2.2 | 0.5 | 9,675 | 9,855 |
| Using IUD | | | | | | | |
| Yes | | (21.8) | (14.9) | (6.9) | (0.0) | 34 | 42 |
| No | | 16.6 | 13.1 | 2.9 | 0.6 | 15,748 | 15,526 |
| Smoking status | | | | | | | |
| Smokes cigarettes/ t | obacco | 15.7 | 13.9 | 1.7 | 0.2 | 117 | 437 |
| Does not smoke | | 16.6 | 13.1 | 3.0 | 0.6 | 15,665 | 15,131 |
| Residence | | | | | | | |
| Urban | | 10.9 | 8.8 | 1.9 | 0.2 | 3,621 | 4,780 |
| Rural | | 18.3 | 14.4 | 3.3 | 0.7 | 12,161 | 10,788 |
| Region | | | | | | | |
| Tigray | | 12.4 | 9.7 | 2.3 | 0.4 | 1,077 | 1,688 |
| Affar | | 34.8 | 24.0 | 9.3 | 1.5 | 141 | 1,260 |
| Amhara | | 16.6 | 13.8 | 2.4 | 0.4 | 4,219 | 1,989 |
| Oromiya Somali | | 19.2 44.0 | 15.2 24.8 | 3.3 14.7 | 0.7 4.5 | 5,834 292 | 2,068 813 |
| Benishangul- | | 44.0 | 24.0 | 14.7 | 4.5 | 292 | 013 |
| Gumuz | | 19.1 | 14.3 | 4.2 | 0.6 | 167 | 1,213 |
| SNNP | | 11.3 | 8.8 | 2.1 | 0.4 | 3,090 | 1,943 |
| Gambela | | 19.4 | 15.7 | 3.5 | 0.2 | 67 | 1,092 |
| Harari | | 19.4 | 14.4 | 4.2 | 8.0 | 43 | 980 |
| Addis Ababa | | 9.3 | 7.8 | 1.2 | 0.3 | 788 | 1,525 |
| Dire Dawa | | 28.8 | 17.4 | 9.9 | 1.5 | 63 | 997 |
| Education | | | | | | | |
| No education | | 20.3 | 15.9 | 3.5 | 0.9 | 8,081 | 7,889 |
| Primary Secondary | | 13.6 | 10.5 | 2.8 | 0.3 | 6,017 | 5,551 |
| Secondary More than | | 9.3 | 8.4 | 0.7 | 0.3 | 1,032 | 1,269 |
| secondary | | 9.7 | 8.4 | 1.2 | 0.2 | 651 | 859 |
| Wealth quintile | | | | | | | |
| Lowest | | 20.1 | 15.0 | 4.0 | 1.1 | 2,894 | 3,596 |
| Second | | 18.9 | 15.3 | 3.1 | 0.5 | 2,940 | 2,327 |
| Middle | | 17.1 | 13.6 | 2.6 | 0.8 | 2,936 | 2,184 |
| Fourth | | 17.4 | 13.4 | 3.6 | 0.4 | 3,123 | 2,402 |
| Highest | | 11.3 | 9.3 | 1.7 | 0.2 | 3,890 | 5,059 |
| Total | | 16.6 | 13.1 | 2.9 | 0.6 | 15,782 | 15,568 |

Note: Prevalence is adjusted for altitude and for smoking status if known using formulas in CDC, 1998. Figures in parentheses are based on 25-49 unweighted cases.

11.8 Prevalence of Anaemia in Men

Table 11.11.2 shows the prevalence of anaemia among men. Nationally, 11 percent of men 15-49 are anaemic. Younger men, age 15-19 (18 percent) and older men, age 40-49 (14 percent) are the more likely than men age 20-39 to be anaemic. It must be noted that oldest men age 50-59 have the highest prevalence of anaemia (19 percent). Rural men are more likely to be anaemic than urban men (13 and 5 percent, respectively). Men residing in Addis Ababa have the lowest anaemia prevalence (3 percent) of any region, while men in Affar, Somali, and Dire Dawa (all 15 percent) have the highest. There are inverse relationships between the prevalence of anaemia in men and both educational level and wealth quintile.

| Table 11.11.2 Prevalence of ana | emia in men | | |
|---|-----------------------------|------------------------------|--------------------------------|
| Percentage of men age 15-49 Ethiopia 2011 | with anaemia, by | background | characteristics, |
| Background characteristic | Any anaemia (<13.0 g/dl) | Weighted number of men | Unweighted number of men |
| Age 15-19 20-29 30-39 40-49 Smoking status | 17.8 | 2,818 | 2,637 |
| | 7.4 | 4,352 | 4,254 |
| | 8.9 | 2,985 | 3,028 |
| | 14.4 | 1,927 | 2,015 |
| Smokes cigarettes/tobacco Does not smoke | 11.3 | 876 | 1,678 |
| | 11.3 | 11,206 | 10,256 |
| Residence Urban Rural | 4.8 13.1 | 2,555 9,527 | 3,413 8,521 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 12.1 | 737 | 1,186 |
| | 15.0 | 97 | 872 |
| | 13.6 | 3,266 | 1,641 |
| | 11.8 | 4,742 | 1,803 |
| | 14.9 | 208 | 568 |
| | 14.1 | 130 | 993 |
| | 8.1 | 2,161 | 1,454 |
| | 10.5 | 56 | 819 |
| | 8.5 | 34 | 768 |
| | 2.8 | 603 | 1,085 |
| | 15.1 | 47 | 745 |
| Education No education Primary Secondary More than secondary | 13.9 | 3,593 | 3,456 |
| | 12.2 | 6,476 | 5,934 |
| | 4.8 | 1,198 | 1,403 |
| | 2.3 | 815 | 1,141 |
| Wealth quintile Lowest Second Middle Fourth Highest | 16.2 | 2,036 | 2,441 |
| | 15.5 | 2,274 | 1,807 |
| | 12.8 | 2,371 | 1,857 |
| | 9.6 | 2,551 | 2,070 |
| | 4.8 | 2,850 | 3,759 |
| Total 15-49 | 11.3 | 12,082 | 11,934 |
| 50-59 | 19.3 | 1,209 | 1,152 |
| Total 15-59 | 12.0 | 13,291 | 13,086 |

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

11.9 MICRONUTRIENT INTAKE AMONG MOTHERS

Adequate micronutrient intake by women has important benefits for both women and their children. A mother's nutritional status during pregnancy is important both for foetal development and for protection against maternal morbidity and mortality. Breastfeeding children benefit from micronutrient supplementation that mothers receive, especially vitamin A. Iodine deficiency is related to a number of adverse pregnancy outcomes, including abortion, foetal brain damage, congenital

malformation, stillbirth, and prenatal death. Table 11.12 includes a number of measures that are useful in assessing the extent to which women are obtaining adequate intakes of vitamin A and iron.

Sixteen percent of mothers who gave birth in the five years preceding the survey received postpartum vitamin A supplements. By age, the proportion of mothers that received vitamin A supplements was highest among the 30-39 age group. Vitamin A supplements are more common in urban areas than rural areas (20 percent and 15 percent, respectively). Three women of every ten residing in the Tigray region (30 percent), Addis Ababa (29 percent) and Gambela regions (28 percent) received vitamin A supplements. By comparison, less than one woman of every ten living in the Affar, Somali, SNNP, and Harari regions received vitamin A supplementation (all 9 percent). Educated women were more likely to have received vitamin A supplements during their last pregnancy—28 percent of women with more than secondary education compared with 14 percent of women with no education. Similarly, as a woman's wealth status increases, so does her likelihood of receiving vitamin A supplements. Those in the fourth and highest wealth quintiles are twice as likely to have received a vitamin A dose postpartum as those in the lowest wealth quintile (20 percent and 10 percent, respectively).

Eighty-three percent of women did not take iron tablets during their last pregnancy. Fifteen percent took them for less than 60 days, and less than 1 percent took them for 90 days or more during their last pregnancy. There are very small differences in daily iron supplements between urban and rural women and among regions. In general, the percentage of women who took iron tablets increases as educational status and wealth index increase. The proportion of women who took iron during each length of time increases with educational level and wealth quintile.

Six percent of mothers received deworming medication during their last pregnancy. Urban women were more likely than rural women to have taken deworming medication (9 percent compared with 5 percent). Among regions the proportion of women who received deworming medication generally ranges between 3 and 6 percent. It is notable that 12 percent of women residing in Gambela and 9 percent in Benishangul-Gumuz received deworming medication during their last pregnancy. There is little variation in the percentage who received deworming medication by age, educational level, or wealth quintile.

Iodine deficiency has adverse effects on all population groups, but women of reproductive age are often the worst affected. Table 11.12 shows the percentage of women with a child born in the five years preceding the survey who live in households using iodised salt. Nationally, 15 percent of women live in households with iodised salt. This percentage is higher in urban area (23 percent) than rural areas (14 percent). The proportion of women living in a household with iodised salt is nearly three times higher in Benishangul-Gumuz than the national average (41 percent versus 15 percent). Women who have more than secondary education are more likely to live in a household with iodised salt (30 percent) than those who are not educated (14 percent). Likewise, the proportion of women living in households using iodised salt is higher in the highest wealth quintile (22 percent) than in the second and lowest wealth quintiles (12 percent each).

Table 11.12 Micronutrient intake among mothers

Among women age 15-49 with a child born in the past five years, the percentage who received a vitamin A dose in the first two months after the birth of the last child, the percent distribution by number of days they took iron tablets during the pregnancy of the last child, and the percentage who took deworming medication during the pregnancy of the last child; and among women age 15-49 with a child born in the past five years and who live in households that were tested for iodized salt, the percentage who live in households with iodized salt, by background characteristics, Ethiopia 2011

| | | | Ā | mong wom | en with a | Among women with a child born in the past five years: | n the past | five years: | | | Amow page | Among women with a child born in the | horn in |
|--|--|--|--|--|--|---|---|---|---|---|--|---|--|
| | | Number | of days wc | men took i of last | ok iron tablet last birth | of days women took iron tablets during pregnancy of last birth | egnancy | Percentage of women | | | past five yea | past five years who live in households that were tested for iodized salt: | sed salt: |
| Background characteristic | Percentage who received vitamin A dose postpartum ¹ | None | 09> | 68-09 | +06 | Don't know/ missing | Total | who took deworming medication during pregnancy of last birth | Weighted number of women | Unweighted number of women | Percentage living in households with iodized salt ² | Weighted number of women | Unweighted number of women |
| Age 15-19 20-29 30-39 | 9.6 4.0.6 6.00 | 91.7 82.0 81.7 | 6.7 15.5 16.3 | 0.0 8.0 8.0 8.0 | 0.0 | 0.6 2.5.5 4.5.5 | 100.0 | 7.4 7.3 0.0 | 402 3,991 2,728 | 416 3,888 2,710 | 0.71 0.41 0.45 0.44 | 391 3,891 2,635 | 392 3,713 2,570 |
| Residence Urban Rural | 20.4 15.0 | 72.4 84.5 | 24:3 13:4 | 0.6 | 0.3 | 3.5 | 100.0 | | 1,188 6,720 | 1,513 6,251 | 22.9 13.8 | 1,157 | 1,458 5,915 |
| Region Tigray Affar Amhara Oromiya | 30.2 8.9 19.5 19.5 | 65.7 76.3 80.6 87.9 | 27.1 22.1 17.1 10.8 | 3.3 0.7 0.4 | 1.3 0.0 0.3 | 2.6 1.0 0.6 | 100.0 100.0 100.0 | ა ა ა ა ა 4 ა ა | 530 78 1,991 3,116 | 847 714 965 1,100 | 21.8 19.3 9.5 17.5 | 515 76 1,925 3,049 | 822 694 933 1,077 |
| Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 8.9 23.2 8.9 27.8 9.1 28.7 25.3 | 79.7 76.3 84.7 72.4 66.7 60.8 | 19.0 20.4 13.7 25.9 28.5 24.0 | 0.55 0.55 0.55 0.55 0.55 0.55 0.55 | 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.4 0.8 1.1 2.8 2.8 7.8 7.8 | 000000000000000000000000000000000000000 | 0, 8, 6, <u>7,</u> 4, 4, 8, 0, 0, 0, 4, ±, 8, 8, | 198 1,634 31 193 26 | 559 1,053 608 440 348 456 | 20.9 41.0 21.9 27.4 6.6 | 771 90 26 19 190 25 | 493 1,012 476 435 344 432 |
| Education No education Primary Secondary More than secondary | 13.7 19.1 24.1 27.7 | 84.8 80.7 68.9 57.2 | 13.2 16.7 28.1 38.4 | 0.5 0.9 3.4 5.3 | 0.0 4.0 6.1 7.3 | 1.1 0.3 0.7 | 100.0 100.0 100.0 | 4.8 6.0 6.0 8.1 | 5,270 2,270 226 142 | 5,184 2,095 312 173 | 14.2 15.4 30.0 | 5,094 2,207 224 135 | 4,922 1,981 304 166 |
| Wealth quintile Lowest Second Middle Fourth Highest | 10.1 15.9 15.9 19.8 15.8 | 86.1 87.2 84.5 82.0 71.0 | 11.6 13.2 16.2 25.3 15.1 | 0.0 0.0 0.0 7.0 7.0 | 0.00 8.4.4.0.0 4.00.0.0.0.0.0.0.0.0.0.0.0.0.0. | 6.01.01.1.00.00.00.00.00.00.00.00.00.00.0 | 100.0 100.0 100.0 100.0 100.0 | 6.8.8.9.9.4 4.1.8.8.9.9.8.8.8.8.8.8.9.9.9.8.9.9.9.9.9 | 1,739 1,696 1,628 1,493 1,351 | 2,279 1,354 1,241 1,229 1,661 | 12.1 11.5 17.8 22.0 | 1,664 1,663 1,571 1,462 1,299 7,659 | 2,074 1,314 1,197 1,192 1,596 7,373 |
| | | | | | | | | | | | | | |

¹ In the first two months after delivery of last live birth.
² Excludes women in households where salt was not tested.

Key Findings

- General knowledge of AIDS is almost universal; 97 percent of women and 99 percent of men have heard of AIDS.
- Comprehensive knowledge of AIDS is uncommon. However, 19 percent of women and 32 percent of men have comprehensive knowledge of HIV/AIDS transmission and prevention methods.
- Men are more likely than women to express accepting attitudes toward people with HIV. Still, only 28 percent of men and 17 percent of women always expressed accepting attitudes when reacting to four hypothetical situations involving people with HIV.
- Less than 1 percent of women had two or more sexual partners in the 12 months
 preceding the survey. Almost half of these women reported using a condom during
 last sexual intercourse.
- Four percent of men had two or more partners in the last 12 months. Sixteen
 percent of these men reported using a condom during last sex.
- About one-quarter of young women and young men who are sexually active were tested for HIV in the 12 months before the survey—a dramatic increase over the levels in 2005.

cquired immune deficiency syndrome (AIDS) is caused by the human immunodeficiency virus (HIV). HIV weakens the immune system, making the body susceptible to secondary and opportunistic infections. Without treatment, HIV infection leads to AIDS and death. The predominant mode of HIV transmission is through sexual contact. Other modes of transmission are mother-to-child transmission (in which the mother passes HIV to her child during pregnancy, delivery, or breastfeeding), use of contaminated blood supplies for transfusions, and injections using contaminated needles or syringes.

AIDS is one of the most serious public health and development challenges in sub-Saharan Africa. According to the 2011 EDHS, 1.5 percent of adults age 15-49 are infected with HIV (see Chapter 13). Heterosexual contact accounts for the great majority of HIV transmission in the country. AIDS is now affecting all sectors of Ethiopian society. The future course of the AIDS epidemic in Ethiopia depends on a number of factors including HIV/AIDS-related knowledge, social stigmatisation, risk behaviour modification, access to high-quality services for sexually transmitted infections (STIs), provision and uptake of HIV counselling and testing, and access to antiretroviral therapy (ART).

The principal objective of this chapter is to establish the prevalence of relevant knowledge, attitudes, and behaviours at the national level and within the geographic and socioeconomic subgroups of the population, using data from the 2011 EDHS. This chapter presents findings from the general adult population and specifically from youth. The chapter concludes with information on patterns of sexual activity among young people, as they are the main target of many HIV prevention efforts. The findings in this chapter will help HIV/AIDS control and prevention programmes to target the groups of people most in need of information and services and most vulnerable to the risk of HIV infection. Also, findings presented in this chapter can be compared with the findings from the 2000 and 2005 EDHS.

12.1 HIV/AIDS Knowledge, Transmission, and Prevention Methods

12.1.1 Awareness of HIV/AIDS

Interviewers asked 2011 EDHS respondents whether they had heard of AIDS. Those who reported having heard of AIDS were then asked a number of questions such as whether and how HIV/AIDS can be avoided. Table 12.1 shows that knowledge of AIDS is almost universal; 97 percent of women and 99 percent of men age 15-49 have heard of AIDS. The level of awareness of AIDS is notably lower in Somali (82 percent of women and 93 percent of men) than in other regions.

| | | Women | | | Men | <u> </u> |
|---------------------------|-------------------|--------------------------------|----------------------------|-------------------|------------------------------|--------------------------|
| Background characteristic | Has heard of AIDS | Weighted number of women | Unweighted number of women | Has heard of AIDS | Weighted number of men | Unweighted number of men |
| Age | | | | | | |
| 15-24 | 96.4 | 6,940 | 6,857 | 98.0 | 5,332 | 5,162 |
| 15-19 | 96.2 | 4,009 | 3,835 | 97.3 | 3,013 | 2,832 |
| 20-24 | 96.7 | 2,931 | 3,022 | 98.9 | 2,319 | 2,330 |
| 25-29 | 96.2 | 3,147 | 3,185 | 99.2 | 2,297 | 2,274 |
| 30-39 | 97.0 | 3,971 | 4,058 | 99.3 | 3,132 | 3,261 |
| 40-49 | 96.1 | 2,457 | 2,415 | 99.4 | 2,074 | 2,171 |
| Marital status | | | | | | |
| Never married | 97.4 | 4,469 | 4,413 | 98.2 | 5,600 | 5,641 |
| Ever had sex | 98.3 | 344 | 489 | 99.9 | 1,044 | 1,492 |
| Never had sex | 97.3 | 4,126 | 3,924 | 97.8 | 4,555 | 4,149 |
| Married/living together | 96.1 | 10,287 | 10,204 | 99.2 | 6,872 | 6,775 |
| Divorced/separated/ | | , | , | | -, | -, |
| widowed | 96.4 | 1,758 | 1,898 | 99.9 | 363 | 452 |
| Residence | | | | | | |
| Urban | 99.2 | 3.947 | 5,329 | 99.8 | 2,882 | 3,915 |
| Rural | 95.6 | 12,568 | 11,186 | 98.5 | 9,952 | 8,953 |
| Region | | | | | | |
| Tigray | 99.7 | 1.104 | 1.728 | 99.8 | 770 | 1,235 |
| Affar | 96.5 | 145 | 1,291 | 98.7 | 101 | 910 |
| Amhara | 96.4 | 4.433 | 2.087 | 98.2 | 3.481 | 1,739 |
| Oromiya | 95.1 | 6,011 | 2,135 | 98.6 | 4,957 | 1,889 |
| Somali | 81.6 | 329 | 914 | 93.0 | 245 | 653 |
| Benishangul-Gumuz | 92.6 | 174 | 1,259 | 97.4 | 138 | 1,047 |
| SNNP | 98.8 | 3,236 | 2,034 | 99.8 | 2,307 | 1,550 |
| Gambela | 97.7 | 69 | 1,130 | 99.4 | 59 | 865 |
| Harari | 99.6 | 49 | 1,101 | 99.8 | 40 | 898 |
| Addis Ababa | 99.9 | 896 | 1,741 | 100.0 | 682 | 1,237 |
| Dire Dawa | 99.3 | 69 | 1,095 | 99.7 | 53 | 845 |
| Education | | | , | | | |
| No education | 94.5 | 8,394 | 8,278 | 97.2 | 3,785 | 3,659 |
| Primary | 98.1 | 6,276 | 5,858 | 99.3 | 6,813 | 6,334 |
| Secondary | 99.8 | 1,117 | 1,395 | 100.0 | 1,296 | 1,565 |
| More than secondary | 100.0 | 728 | 984 | 100.0 | 940 | 1,310 |
| Wealth quintile | | | | | | ,- |
| Lowest | 93.5 | 2,986 | 3,711 | 96.9 | 2,141 | 2,563 |
| Second | 95.9 | 3,041 | 2,402 | 98.2 | 2,362 | 1,891 |
| Middle | 95.0 | 3,031 | 2,402 | 98.7 | 2,454 | 1,935 |
| Fourth | 97.4 | 3,215 | 2,505 | 99.4 | 2,683 | 2,203 |
| Highest | 99.4 | 4,242 | 5,629 | 99.9 | 3,194 | 4,276 |
| Total 15-49 | 96.5 | 16,515 | 16,515 | 98.8 | 12,834 | 12,868 |
| 50-59 | na | | na | 98.8 | 1,276 | 1,242 |
| 50-59 Total 15-59 | na na | na na | na na | 98.8 | 1,276 | 14,110 |

In Ethiopia HIV/AIDS prevention programmes focus their messages and efforts on three important aspects of behaviour: using condoms, limiting the number of sexual partners (or staying faithful with one uninfected, mutually faithful partner), and delaying sexual debut (abstinence) among the young and the never-married. To ascertain whether programmes have effectively communicated at least two of these messages, respondents were prompted with specific questions about whether it is possible to reduce the chance of getting the virus that causes AIDS by having just one faithful sexual partner and by using a condom at every sexual encounter.

Table 12.2 shows that about seven respondents of every ten (65 percent of women and 74 percent of men) know that the chance of becoming infected with HIV is reduced by limiting sexual intercourse to one uninfected partner who has no other partners. In contrast, there is a noticeable difference between women and men in the percentages who know that using condoms consistently reduces the chance of acquiring HIV infection (56 percent for women and 82 percent for men). More than six men of every ten (64 percent) know of both ways to reduce HIV risk, compared with about four women of every ten (43 percent).

Table 12.2 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 the AIDS virus by using condoms every time they have sexual intercourse, and by having one sex partner who is not infected and has no other partners, by background characteristics, Ethiopia 2011

| | | | Women | | | | | Men | | |
|--|--|---|--|--|--|--|---|--|--|--|
| • | Percenta | age who say HI prevented by: | V can be | | | | ge who say F prevented by | | | |
| Background characteristic | Using condoms ¹ | Limiting sexual intercourse to one uninfected partner ² | Using condoms and limiting sexual intercourse to one uninfected partner ^{1,2} | Weighted number of women | Un- weighted number of women | Using condoms ¹ | Limiting sexual intercourse to one uninfected partner ² | Using condoms and limiting sexual intercourse to one uninfected partner ^{1,2} | Weighted number of men | Un- weighted number of men |
| Age | | | | | | | | | | |
| 15-24 15-19 20-24 25-29 30-39 40-49 | 61.6 61.6 61.5 55.8 52.3 46.0 | 67.8 68.4 66.9 64.2 63.2 58.5 | 48.5 48.7 48.3 42.9 39.6 34.4 | 6,940 4,009 2,931 3,147 3,971 2,457 | 6,857 3,835 3,022 3,185 4,058 2,415 | 80.7 77.8 84.6 83.3 82.2 80.2 | 73.9 72.4 76.0 77.4 72.7 71.7 | 64.7 62.0 68.2 67.7 63.1 61.0 | 5,332 3,013 2,319 2,297 3,132 2,074 | 5,162 2,832 2,330 2,274 3,261 2,171 |
| Marital status | 46.0 | 36.3 | 34.4 | 2,457 | 2,415 | 00.2 | 71.7 | 61.0 | 2,074 | 2,171 |
| Never married Ever had | 67.2 | 71.1 | 53.6 | 4,469 | 4,413 | 82.1 | 75.0 | 66.3 | 5,600 | 5,641 |
| sex Never had | 81.5 | 73.9 | 64.5 | 344 | 489 | 92.8 | 82.5 | 77.9 | 1,044 | 1,492 |
| sex Married/living | 66.1 | 70.9 | 52.7 | 4,126 | 3,924 | 79.6 | 73.3 | 63.6 | 4,555 | 4,149 |
| together Divorced/sep arated/ | 51.0 | 62.0 | 38.8 | 10,287 | 10,204 | 81.0 | 72.9 | 62.6 | 6,872 | 6,775 |
| widowed Residence | 56.0 | 63.5 | 42.9 | 1,758 | 1,898 | 81.1 | 74.9 | 64.0 | 363 | 452 |
| Urban Rural | 76.6 49.4 | 73.0 62.0 | 60.6 37.8 | 3,947 12,568 | 5,329 11,186 | 90.0 79.0 | 75.4 73.5 | 69.5 62.7 | 2,882 9,952 | 3,915 8,953 |
| Region Tigray Affar Amhara Oromiya Somali | 73.9 36.1 54.3 52.1 20.8 | 81.6 32.3 58.9 64.6 36.3 | 63.9 23.3 39.4 41.2 15.5 | 1,104 145 4,433 6,011 329 | 1,728 1,291 2,087 2,135 914 | 89.9 73.6 79.0 82.0 51.2 | 84.7 62.9 66.4 79.5 59.9 | 78.5 51.1 56.1 69.4 36.6 | 770 101 3,481 4,957 245 | 1,235 910 1,739 1,889 653 |
| Benishangul- Gumuz SNNP Gambela | 53.5 56.1 55.1 | 53.2 71.8 46.3 | 38.2 45.4 34.3 | 174 3,236 69 | 1,259 2,034 1,130 | 77.9 81.2 85.8 | 71.9 72.9 72.4 | 60.3 63.5 67.0 | 138 2,307 59 | 1,047 1,550 865 |
| Harari Addis Ababa Dire Dawa Education | 58.5 82.4 64.6 | 53.1 65.4 69.5 | 38.2 57.0 50.1 | 49 896 69 | 1,101 1,741 1,095 | 75.0 94.1 86.9 | 49.3 70.7 82.4 | 40.2 68.4 72.0 | 40 682 53 | 898 1,237 845 |
| No education Primary Secondary More than | 42.2 65.5 82.4 | 56.0 72.1 78.1 | 30.8 52.4 65.2 | 8,394 6,276 1,117 | 8,278 5,858 1,395 | 71.7 83.4 90.8 | 66.0 75.5 82.3 | 52.4 66.6 76.3 | 3,785 6,813 1,296 | 3,659 6,334 1,565 |
| secondary | 90.9 | 78.9 | 73.4 | 728 | 984 | 94.4 | 82.3 | 78.7 | 940 | 1,310 |
| Wealth quintile Lowest Second Middle Fourth Highest | 42.3 47.0 50.4 55.1 76.5 | 57.1 60.8 60.7 66.8 73.7 | 30.9 35.0 38.1 44.0 60.9 | 2,986 3,041 3,031 3,215 4,242 | 3,711 2,402 2,268 2,505 5,629 | 74.4 76.6 78.8 83.7 90.0 | 67.5 73.0 73.9 75.1 77.8 | 57.2 59.9 62.5 66.5 71.6 | 2,141 2,362 2,454 2,683 3,194 | 2,563 1,891 1,935 2,203 4,276 |
| Total 15-49 50-59 Total 15-59 | 55.9 na na | 64.6 na na | 43.2 na na | 16,515 na na | 16,515 na na | 81.5 76.1 81.0 | 73.9 71.3 73.7 | 64.2 58.1 63.7 | 12,834 1,276 14,110 | 12,868 1,242 14,110 |

na = Not applicable

² Partner who has no other partners

Using condoms every time they have sexual intercourse

There are notable differences in knowledge of HIV/AIDS prevention by background characteristics. Among women, knowledge of HIV/AIDS prevention decreases with age. For example, nearly half (49 percent) of female youth, age 15-24, know that both using condoms and limiting sexual intercourse to one uninfected partner can reduce the risk of acquiring HIV, compared with about one-third (34 percent) of women age 40-49. Never-married women who have ever had sex are the most likely to know about HIV prevention methods when compared with never-married women who have never had sex or with women currently in union or previously married. Knowledge of both methods of prevention is higher among urban women than rural women (61 percent versus 38 percent). Variation by region is particularly striking. For example, more than six women of every ten residing in Tigray (64 percent) are aware of both methods of HIV/AIDS prevention compared with less than two in every ten (16 percent) in Somali. Awareness of prevention methods increases with education and wealth.

Among men differentials in knowledge of HIV prevention according to background characteristics are similar to those among women but not as pronounced. For example, knowledge of HIV prevention among men decreases slightly with age, from 65 percent of men age 15-24 who are aware of both prevention methods to 61 percent of men age 40-49. Never-married men, particularly those who have ever had sex, urban men, those with secondary education or more, and men in the highest wealth quintile are the most likely to know methods of HIV prevention. Among regions knowledge of both HIV prevention methods among men ranges from 79 percent in Tigray to 37 percent in Somali.

12.1.2 Rejection of Misconceptions About HIV/AIDS

As part of the effort to assess HIV and AIDS knowledge, the 2011 EDHS obtained information on common misconceptions about HIV transmission. Respondents were asked whether they think it is possible for a healthy-looking person to have HIV and whether they believe HIV is transmitted through mosquito bites, supernatural means, or sharing food with a person who has HIV. Respondents were also asked whether a person can get AIDS by sharing sharp materials, such as razors or blades, or through injection with unsterilised needles, and whether a person can reduce the chance of getting HIV by abstaining from sexual intercourse. Tables 12.3.1 and 12.3.2 present results for women and men.

The majority of Ethiopian adults (63 percent of women and 78 percent of men) know that a healthy-looking person can have HIV. The most common misconception about HIV transmission is that it can be transmitted by mosquitoes. Only about half of women (52 percent) and six men of every ten (63 percent) know that HIV cannot be transmitted by mosquitoes. The second most common misconception is that HIV can be transmitted by supernatural means. About three-fourths of women and men age 15-49 (72 and 76 percent, respectively) correctly believe that HIV cannot be transmitted through supernatural means. Seventy-six percent of women and 85 percent of men know that a person cannot become infected with HIV by sharing food with a person who has HIV. About three-quarters of women and more than four men of every five report that people can reduce their chance of getting HIV by abstaining from sexual intercourse (73 and 86 percent, respectively). More than nine of every ten women and men know that people can get HIV by sharing sharp materials, such as razors or other blades, if they should cut the skin or by injection with unsterilised needles (92 and 97 percent, respectively).

Table 12.3.1 Comprehensive knowledge about AIDS: Women

Percentage of women age 15-49 who say that a healthy-looking person can have the AIDS virus and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of the AIDS virus, and the percentage with a comprehensive knowledge about AIDS, by background characteristics, Ethiopia 2011

| - | | Perce | ntage of wome | n who say th | at: | | Percentage | | | |
|--|---|--|---|---|--|--|--|---|--|--|
| Background characteristic | A healthy- looking person can have the AIDS virus | The AIDS virus cannot be transmitted by mosquito bites | The AIDS virus cannot be transmitted by supernatural means ¹ | A person cannot become infected by sharing food with a person who has the AIDS virus | People reduce the chance of getting the AIDS virus by abstaining from sexual intercourse | by sharing sharp materials or by injection with unsterilised | who say that a healthy- looking person can have the AIDS virus and who reject the two most common local miscon- ceptions ² | Percentage with a compre- hensive knowledge about AIDS ³ | Weighted number of women | Unweighted number of women |
| Age | | | | | | | | | | |
| 15-24 15-19 20-24 25-29 30-39 40-49 | 67.0 66.5 67.6 63.0 61.6 57.0 | 58.5 60.0 56.3 49.1 47.7 44.8 | 76.8 77.6 75.7 68.8 68.9 66.6 | 80.3 81.6 78.5 74.1 74.1 65.9 | 74.5 75.1 73.8 71.1 70.8 72.7 | 92.4 92.7 92.0 91.7 92.5 88.9 | 36.9 37.3 36.3 27.8 26.2 22.7 | 23.9 24.0 23.6 16.9 14.9 11.5 | 6,940 4,009 2,931 3,147 3,971 2,457 | 6,857 3,835 3,022 3,185 4,058 2,415 |
| Marital status | | | | | | | | | | |
| Never married Ever had sex | 71.0 78.0 | 65.4 71.2 | 80.9 89.2 | 85.4 93.4 | 78.0 77.4 | 94.9 95.6 | 43.7 55.4 | 28.8 40.3 | 4,469 344 | 4,413 489 |
| Never had sex | 70.5 | 64.9 | 80.2 | 93.4 84.7 | 77. 4 78.1 | 94.8 | 42.7 | 40.3 27.9 | 4,126 | 3,924 |
| Married/living together | 59.7 | 47.2 | 68.1 | 71.1 | 70.5 | 90.6 | 25.4 | 14.5 | 10,287 | 10,204 |
| Divorced/separated/ widowed | 65.8 | 46.6 | 70.5 | 75.6 | 72.4 | 90.9 | 26.4 | 16.2 | 1,758 | 1,898 |
| Residence | 00.0 | 00.0 | 00.0 | 00.0 | 04.4 | 07.0 | F4 7 | 05.4 | 0.047 | 5.000 |
| Urban Rural | 80.2 58.2 | 68.0 47.1 | 83.6 68.2 | 92.3 70.2 | 81.4 70.0 | 97.0 90.1 | 51.7 23.8 | 35.1 13.3 | 3,947 12,568 | 5,329 11,186 |
| Region | | | | | | | | | | |
| Tigray | 76.4 | 37.7 | 76.1 | 74.6 | 86.9 | 97.5 | 27.9 | 22.1 | 1,104 | 1,728 |
| Affar Amhara | 42.5 64.9 | 38.3 47.6 | 39.4 74.3 | 63.8 77.3 | 41.4 73.3 | 80.0 91.9 | 11.0 31.4 | 4.0 17.2 | 145 4,433 | 1,291 2,087 |
| Oromiya | 64.3 | 49.3 | 65.7 | 69.2 | 68.4 | 89.8 | 26.6 | 16.7 | 6,011 | 2,135 |
| Somali | 28.1 | 34.5 | 30.0 | 48.7 | 39.1 | 64.1 | 7.7 | 3.5 | 329 | 914 |
| Benishangul-Gumuz | 54.7 | 54.5 | 68.0 | 75.6 | 65.2 | 85.5 | 31.2 | 18.4 | 174 | 1,259 |
| SNNP | 54.9 | 66.0 | 80.1 | 82.6 | 77.3 | 94.9 | 34.4 | 21.1 | 3,236 | 2,034 |
| Gambela | 61.7 | 57.8 | 68.9 | 81.3 | 56.1 | 90.8 | 29.4 | 14.5 | 69 | 1,130 |
| Harari Addis Ababa | 70.7 83.6 | 69.1 65.9 | 74.5 88.5 | 88.4 93.6 | 74.0 85.2 | 93.5 98.6 | 42.0 51.9 | 23.2 31.8 | 49 896 | 1,101 1,741 |
| Dire Dawa | 50.4 | 64.9 | 61.0 | 83.1 | 71.3 | 96.1 | 26.7 | 18.7 | 69 | 1,095 |
| Education | | | | | | | | | | |
| No education | 53.8 | 38.8 | 62.0 | 63.1 | 66.6 | 87.4 | 17.0 | 7.7 | 8,394 | 8,278 |
| Primary | 69.0 | 61.2 | 79.1 | 85.8 | 76.8 | 95.6 | 37.3 | 24.2 | 6,276 | 5,858 |
| Secondary | 85.8 | 78.6 | 91.4 | 96.9 | 86.3 | 98.2 | 63.3 | 43.1 | 1,117 | 1,395 |
| More than secondary | 92.3 | 85.1 | 93.5 | 96.0 | 87.7 | 98.7 | 76.4 | 57.4 | 728 | 984 |
| Wealth quintile | 50.8 | 39.8 | 63.7 | 63.5 | 67.4 | 05.5 | 16.8 | 8.3 | 2,986 | 2 711 |
| Lowest Second | 55.9 | 39.6 44.1 | 68.6 | 68.2 | 70.4 | 85.5 91.0 | 20.8 | 6.3 10.1 | 2,966 3,041 | 3,711 2,402 |
| Middle | 59.4 | 48.3 | 66.3 | 69.4 | 68.2 | 89.5 | 24.3 | 14.2 | 3,031 | 2,402 |
| Fourth | 64.1 | 52.6 | 72.2 | 77.4 | 72.7 | 93.0 | 29.8 | 17.2 | 3,215 | 2,505 |
| Highest | 80.1 | 68.6 | 83.5 | 92.0 | 81.3 | 97.5 | 51.9 | 36.0 | 4,242 | 5,629 |
| | | | | | | | | | | |

¹ Witchcraft, God's curse, or other supernatural means

Witchcraft, God's curse, or other supernatural means

Two most common local misconceptions: (1) AIDS can be transmitted by mosquito bites and (2) AIDS can be transmitted by supernatural means.

Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting the AIDS virus, knowing that a healthy-looking person can have the AIDS virus, and rejecting the two most common local misconceptions about HIV transmission.

Table 12.3.2 Comprehensive knowledge about AIDS: Men

Percentage of men age 15-49 who say that a healthy-looking person can have the AIDS virus and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of the AIDS virus, and the percentage with a comprehensive knowledge about AIDS, by background characteristics, Ethiopia 2011

| | | Pe | ercentage of r | nen who say | that: | | Percentage who say that | | | |
|-------------------------------------|---|--|---|---|---|--------------|-------------------------|--|------------------------------|-------------------------------------|
| Background characteristic | A healthy- looking person can have the AIDS virus | The AIDS virus cannot be transmitted by mosquito bites | The AIDS virus cannot be transmitted by super- natural means ¹ | A person cannot become infected by sharing food with a person who has the AIDS virus | People reduce the chance of getting the AIDS virus by abstaining from sexual intercourse | | a healthy- looking | Percentage with a compre- hensive knowledge about AIDS ³ | Weighted number of men | Un- weighted number of men |
| Age | | | | | | | | | | |
| 15-24 | 77.0 | 66.1 | 76.3 | 85.4 | 83.9 | 95.5 | 45.8 | 34.2 | 5,332 | 5,162 |
| 15-19 | 74.9 | 65.4 | 75.7 | 84.3 | 81.4 | 94.5 | 44.0 | 31.8 | 3,013 | 2,832 |
| 20-24 | 79.8 | 67.1 | 77.1 | 86.9 | 87.3 | 96.9 | 48.3 | 37.4 | 2,319 | 2,330 |
| 25-29 | 81.0 | 65.5 | 75.1 | 87.2 | 87.8 | 97.3 | 44.8 | 34.8 | 2,297 | 2,274 |
| 30-39 | 79.4 | 60.4 | 72.8 | 83.3 | 87.7 | 97.1 | 40.8 | 28.6 | 3,132 | 3,261 |
| 40-49 | 76.2 | 57.1 | 77.9 | 80.8 | 87.8 | 97.0 | 39.2 | 27.6 | 2,074 | 2,171 |
| Marital status | | | | | | | | | | |
| Never married | 78.2 | 68.3 | 77.4 | 86.2 | 85.3 | 95.9 | 48.1 | 36.6 | 5,600 | 5,641 |
| Ever had sex Never had | 85.5 | 75.2 | 81.9 | 94.3 | 91.5 | 98.0 | 56.3 | 46.3 | 1,044 | 1,492 |
| sex Married/living | 76.6 | 66.7 | 76.3 | 84.3 | 83.9 | 95.4 | 46.2 | 34.4 | 4,555 | 4,149 |
| together Divorced/ separated/ | 78.4 | 59.6 | 73.7 | 83.1 | 86.7 | 96.9 | 40.1 | 28.6 | 6,872 | 6,775 |
| widowed | 74.3 | 52.0 | 79.7 | 84.4 | 88.2 | 98.0 | 32.1 | 21.2 | 363 | 452 |
| Residence Urban | 87.6 | 77.9 | 84.9 | 93.9 | 92.0 | 98.5 | 61.3 | 45.0 | 2 002 | 2.015 |
| Rural | 75.5 | 58.9 | 72.8 | 93.9 81.8 | 92.0 84.4 | 96.5 95.9 | 38.1 | 28.1 | 2,882 9,952 | 3,915 8,953 |
| Region | | | | | | | | | | |
| Tigray | 85.9 | 55.5 | 90.8 | 86.5 | 92.1 | 99.5 | 47.4 | 41.0 | 770 | 1,235 |
| Affar | 78.9 | 55.0 | 52.5 | 78.4 | 83.6 | 95.6 | 32.2 | 19.8 | 101 | 910 |
| Amhara | 75.1 | 57.6 | 85.5 | 87.5 | 86.6 | 96.0 | 44.1 | 29.5 | 3,481 | 1,739 |
| Oromiya | 77.5 | 62.9 | 61.2 | 79.1 | 84.6 | 95.8 | 35.1 | 28.2 | 4,957 | 1,889 |
| Somali Benishangul- | 48.9 | 32.3 | 26.9 | 58.7 | 66.1 | 83.2 | 9.4 | 6.4 | 245 | 653 |
| Gumuz | 70.9 | 67.9 | 81.6 | 86.6 | 80.2 | 93.6 | 48.6 | 31.5 | 138 | 1,047 |
| SNNP | 81.8 | 75.0 | 87.2 | 89.3 | 86.7 | 98.7 | 57.1 | 39.9 | 2,307 | 1,550 |
| Gambela | 69.2 | 77.0 | 86.0 | 91.3 | 86.3 | 97.5 | 49.0 | 34.9 | 59 | 865 |
| Harari | 78.5 | 74.9 | 72.7 | 93.5 | 80.9 | 96.8 | 46.1 | 21.6 | 40 | 898 |
| Addis Ababa | 90.3 | 70.7 | 90.6 | 97.9 | 94.7 | 98.0 | 59.6 | 43.7 | 682 | 1,237 |
| Dire Dawa | 88.7 | 73.3 | 72.9 | 91.2 | 95.4 | 98.1 | 56.3 | 44.5 | 53 | 845 |
| Education No education | 68.1 | 45.0 | 66.5 | 73.6 | 81.7 | 93.3 | 25.2 | 16.5 | 3,785 | 3,659 |
| Primary | 79.5 | 66.1 | 76.5 | 87.1 | 86.1 | 93.3 97.4 | 23.2 44.7 | 33.0 | 6,813 | 6,334 |
| Secondary More than | 90.3 | 83.2 | 86.0 | 94.3 | 93.8 | 98.7 | 65.6 | 50.6 | 1,296 | 1,565 |
| secondary | 93.0 | 87.2 | 90.3 | 95.9 | 94.0 | 99.2 | 75.5 | 59.9 | 940 | 1,310 |
| Wealth quintile | | | | | | | | | | |
| Lowest | 65.7 | 47.8 | 66.8 | 73.6 | 82.6 | 92.9 | 27.4 | 20.5 | 2,141 | 2,563 |
| Second | 73.5 | 54.9 | 73.2 | 80.3 | 83.7 | 95.7 | 34.6 | 24.7 | 2,362 | 1,891 |
| Middle | 78.0 | 61.2 | 73.6 | 82.7 | 85.1 | 96.0 | 40.6 | 29.3 | 2,454 | 1,935 |
| Fourth | 81.1 | 67.7 | 74.1 | 86.8 | 86.0 | 97.8 | 44.9 | 32.9 | 2,683 | 2,203 |
| Highest | 87.7 | 77.4 | 85.6 | 94.3 | 91.2 | 98.6 | 61.3 | 46.1 | 3,194 | 4,276 |
| Total 15-49 | 78.2 | 63.2 | 75.5 | 84.5 | 86.2 | 96.5 | 43.3 | 31.9 | 12,834 | 12,868 |
| 50-59 Total 15-59 | 73.2 77.7 | 46.7 61.7 | 72.8 75.3 | 75.3 83.6 | 88.5 86.4 | 96.4 96.5 | 31.1 42.2 | 23.3 31.1 | 1,276 14,110 | 1,242 14,110 |

¹ Witchcraft, God's curse, or other supernatural means

Comprehensive knowledge about AIDS is defined as (1) knowing that both condom use and limiting sex partners to one uninfected partner are HIV prevention methods, (2) being aware that a healthy-looking person can have HIV, and (3) rejecting the two most common local misconceptions in Ethiopia—that HIV/AIDS can be transmitted through mosquito bites and by supernatural means. The 2011 EDHS reveals that comprehensive knowledge of AIDS is low; only two women 15-49 of every ten (19 percent) and three men of every ten (32 percent) have comprehensive knowledge about AIDS. There has been only a slight increase since 2005, when 16 percent of women and 30 percent of men

² Two most common local misconceptions: (1) AIDS can be transmitted by mosquito bites and (2) AIDS can be transmitted by supernatural means.

³ Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting the AIDS virus, knowing that a healthy-looking person can have the AIDS virus, and rejecting the two most common local misconceptions about HIV transmission.

had comprehensive knowledge about AIDS. Comprehensive knowledge varies by background characteristics. Respondents age 15-24, those that have never married but have ever had sex, urban respondents, those with secondary education or more, and respondents from the wealthiest households have the highest levels of comprehensive knowledge about AIDS. Among regions, women in Affar and Somali (both 4 percent) and men living in Somali (6 percent) are the least likely to have comprehensive knowledge about AIDS.

12.2 Knowledge of Prevention of Mother-to-Child Transmission of HIV

Increasing knowledge of ways in which HIV can be transmitted from mother to child and of the fact that the risk of transmission can be reduced by using antiretroviral drugs is critical to reducing mother-to-child transmission (MTCT) of HIV. To obtain information on these issues, the 2011 EDHS asked respondents if the virus that causes AIDS can be transmitted from a mother to a child during breastfeeding and whether a mother with HIV can reduce the risk of transmission to the baby by taking certain drugs (antiretrovirals) during pregnancy.

Table 12.4 shows that more than three-quarters of respondents—77 percent of women and 76 percent of men—know that HIV can be transmitted to a baby through breastfeeding. More than four in every ten women (44 percent) and more than half of men (53 percent) know that the risk of MTCT can be reduced through the use of ARTs during pregnancy. Overall, 42 percent of women and 47 percent of men know both that HIV can be transmitted through breastfeeding and that HIV positive women can reduce the risk of MTCT by taking special drugs during pregnancy. This knowledge has increased dramatically since the 2005 EDHS, from 20 percent to 42 percent for women and from 26 percent to 47 percent for men.

There are notable differences in knowledge of prevention of MTCT by background characteristic. The oldest respondents, age 40-49, are the least likely to know both facts about MTCT (34 percent of women and 42 percent of men), compared with younger respondents. Knowledge of both facts about MTCT is the highest among never-married respondents who have ever had sex (75 percent of women and 62 percent of men), compared with other marital status sub-groups. Urban women are more than twice as likely as rural women (71 and 32 percent, respectively) to report knowledge about mother-to-child transmission.

Among men 67 percent of urban residents, compared with 41 percent of rural residents, have correct knowledge about both aspects of MTCT. Women and men in the Somali region are the least knowledgeable about the two aspects of MTCT (17 percent of women and 26 percent of men), while those in Addis Ababa are the most knowledgeable (81 percent of women and 71 percent of men). Knowledge of MTCT is lowest among respondents with no education (28 percent of women and 31 percent of men) and highest among those with more than secondary education (84 percent of women and 74 percent of men). This knowledge increases from 24 percent of women and 31 percent of men in the lowest wealth quintile to 71 percent of women and 68 percent of men in the highest wealth quintile.

Table 12.4 Knowledge of prevention of mother-to-child transmission of HIV

Percentage of women and men age 15-49 who know that HIV can be transmitted from mother to child by breastfeeding and that the risk of mother-to-child transmission (MTCT) of HIV can be reduced by the mother taking special drugs during pregnancy, by background characteristics, Ethiopia 2011

| | | | Women | | | | | Men | | |
|---|--|--|--|--|---|--|--|--|--|---|
| | Percei | ntage who kno | w that: | | | Perce | ntage who kno | w that: | | |
| Background characteristic | HIV can be transmitted by breast- feeding | Risk of MTCT can be reduced by mother taking special drugs during pregnancy | HIV can be transmitted by breast-feeding and risk of MTCT can be reduced by mother taking special drugs during pregnancy | Weighted number of women | Unweighted number of women | HIV can be transmitted by breast- feeding | Risk of MTCT can be reduced by mother taking special drugs during pregnancy | HIV can be transmitted by breast- feeding and risk of MTCT can be reduced by mother taking special drugs during pregnancy | Weighted number of men | Unweighted number of men |
| Age | | | | | | | | | | |
| 15-24 15-19 20-24 25-29 30-39 40-49 | 78.5 78.7 78.3 77.4 76.1 73.4 | 49.6 49.3 49.9 43.3 41.2 36.2 | 46.0 45.8 46.3 40.8 38.6 34.2 | 6,940 4,009 2,931 3,147 3,971 2,457 | 6,857 3,835 3,022 3,185 4,058 2,415 | 77.2 76.3 78.5 76.2 74.7 73.8 | 53.2 50.1 57.3 55.9 53.6 48.0 | 47.6 45.0 50.9 48.6 46.6 42.3 | 5,332 3,013 2,319 2,297 3,132 2,074 | 5,162 2,832 2,330 2,274 3,261 2,171 |
| Marital status Never married Ever had sex Never had sex Married/living together Divorced/separated/ | 81.6 86.3 81.2 75.2 | 56.1 81.0 54.0 39.0 | 52.2 75.4 50.3 36.5 | 4,469 344 4,126 10,287 | 4,413 489 3,924 10,204 | 77.8 81.9 76.8 74.5 | 56.3 70.9 52.9 50.2 54.5 | 50.2 62.2 47.4 44.0 | 5,600 1,044 4,555 6,872 | 5,641 1,492 4,149 6,775 |
| widowed | 75.4 | 40.1 | 43.1 | 1,758 | 1,898 | 12.2 | 54.5 | 43.7 | 303 | 452 |
| Currently pregnant Pregnant Not pregnant/not sure | 74.6 77.2 | 32.3 45.3 | 31.0 42.3 | 1,205 15,310 | 1,277 15,238 | na na | na na | na na | na na | na na |
| Residence | | | | | | | | | | |
| Urban Rural | 86.3 74.1 | 75.4 34.6 | 70.9 32.3 | 3,947 12,568 | 5,329 11,186 | 81.6 74.2 | 77.2 45.9 | 67.3 40.7 | 2,882 9,952 | 3,915 8,953 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 86.9 64.1 71.0 79.8 47.6 67.1 77.1 79.5 82.0 89.1 83.5 | 62.1 45.5 43.8 42.7 18.6 36.2 32.6 59.9 60.7 86.4 67.8 | 58.6 43.1 40.4 40.4 17.0 32.5 30.1 56.2 57.6 81.2 63.8 | 1,104 145 4,433 6,011 329 174 3,236 69 49 896 69 | 1,728 1,291 2,087 2,135 914 1,259 2,034 1,130 1,101 1,741 1,095 | 83.2 69.4 71.7 77.9 56.5 68.3 77.2 81.0 80.3 78.6 81.5 | 68.6 51.1 49.0 54.1 30.0 45.4 43.3 70.2 69.9 85.6 72.7 | 60.2 47.6 43.0 48.9 25.7 38.2 37.4 62.5 61.1 71.4 63.5 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 |
| Education | | | | | , | | | | | |
| No education Primary Secondary More than secondary | 69.6 82.5 90.7 93.2 | 29.4 52.4 82.4 89.5 | 27.6 48.7 77.4 84.0 | 8,394 6,276 1,117 728 | 8,278 5,858 1,395 984 | 68.3 77.6 82.8 84.4 | 34.4 54.2 76.7 85.8 | 31.2 47.8 66.4 74.3 | 3,785 6,813 1,296 940 | 3,659 6,334 1,565 1,310 |
| Wealth quintile Lowest Second Middle Fourth Highest | 67.5 73.8 72.1 80.6 86.7 | 25.3 31.0 33.1 44.1 75.6 | 23.9 28.2 31.1 41.6 70.8 | 2,986 3,041 3,031 3,215 4,242 | 3,711 2,402 2,268 2,505 5,629 | 69.8 74.1 73.7 75.4 83.4 | 33.3 43.0 44.4 55.8 77.7 | 30.8 38.2 38.8 48.7 68.1 | 2,141 2,362 2,454 2,683 3,194 | 2,563 1,891 1,935 2,203 4,276 |
| Total 15-49 | 77.0 | 44.4 | 41.5 | 16,515 | 16,515 | 75.9 | 52.9 | 46.7 | 12,834 | 12,868 |
| 50-59 Total 15-59 | na na | na na | na na | na na | | 74.6 75.8 | 42.5 52.0 | 38.3 45.9 | 1,276 14,110 | 1,242 14,110 |

12.3 ATTITUDES TOWARDS PEOPLE LIVING WITH HIV/AIDS

Widespread stigma and discrimination towards people infected with HIV or living with AIDS can adversely affect both people's willingness to be tested for HIV and their adherence to antiretroviral therapy. Thus, reduction of stigma and discrimination is an important indicator of the success of programmes to prevent and control HIV/AIDS.

To assess survey respondents' attitudes towards people living with HIV/AIDS, respondents who had heard of AIDS were asked if they would be willing to care for a relative sick with AIDS in their own households, if they would be willing to buy fresh vegetables from a market vendor who had the AIDS virus, if they thought a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching, and if they would want to keep a family member's HIV positive status secret. Tables 12.5.1 and 12.5.2 show the results for women and men, respectively.

Most women and men age 15-49 (82 percent of women and 93 percent of men) would be willing to care at home for a relative with AIDS. Three women 15-49 of every ten (32 percent) and about five men 15-49 in every ten (47 percent) would buy fresh vegetables from a market vendor with the AIDS virus, and six women of every ten (59 percent) and seven men of every ten (70 percent) believe that an HIV positive female teacher who is not sick should be allowed to continue teaching. More than half of respondents (59 percent of women and 66 percent of men) would not want to keep secret the fact that a family member is infected with HIV. Overall, men are more likely than women to express accepting attitudes regarding all four situations (28 percent compared with 17 percent).

Accepting attitudes are generally more common among respondents in urban areas than among those in rural areas and increase with education and wealth. Women and men residing in Addis Ababa, Dire Dawa, and Harari are the most likely to express accepting attitudes on all four indicators, while those living in SNNP region are the least likely.

| Table 12.5.1 Accepting attitudes toward those living with HIV/AIDS: Women |
|--|
| Among women age 15-49 who have heard of AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristics. Ethiopia 2011 |

| | | Percentage of | women who: | | | | |
|---|---|--|---|--|--|---|---|
| Background characteristic | Are willing to care for a family member with AIDS in the respondent's home | Would buy fresh vegetables from shopkeeper who has the AIDS virus | Say that a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching | Would not want to keep secret that a family member got infected with the AIDS virus | Percentage expressing accepting attitudes on all four indicators | Weighted number of women who have heard of AIDS | Unweighted number of women who have heard of AIDS |
| Age 15-24 15-19 20-24 25-29 30-39 40-49 | 83.1 83.2 82.9 80.4 82.2 80.1 | 38.4 38.2 38.7 30.1 27.6 23.2 | 65.5 66.3 64.4 55.7 53.6 50.1 | 58.6 57.8 59.7 62.1 59.2 58.7 | 21.1 20.5 21.9 16.2 13.8 12.5 | 6,691 3,857 2,834 3,028 3,853 2,362 | 6,620 3,694 2,926 3,075 3,890 2,313 |
| Marital status Never married Ever had sex Never had sex Married/living together Divorced/separated/ widowed | 86.4 | 45.6 | 72.0 | 56.9 | 25.3 | 4,353 | 4,305 |
| | 96.7 | 67.2 | 84.8 | 52.9 | 35.5 | 338 | 486 |
| | 85.5 | 43.7 | 71.0 | 57.2 | 24.4 | 4,015 | 3,819 |
| | 79.8 | 25.3 | 52.3 | 60.5 | 13.3 | 9,886 | 9,756 |
| Residence Urban Rural | 94.7 77.7 | 67.0 20.6 | 84.5 50.0 | 59.1 59.5 | 37.8 10.4 | 3,915 12,019 | 5,285 10,613 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 87.6 | 40.4 | 62.7 | 67.6 | 25.2 | 1,100 | 1,723 |
| | 89.7 | 45.1 | 47.7 | 58.8 | 24.4 | 140 | 1,250 |
| | 87.5 | 31.6 | 56.7 | 56.3 | 16.4 | 4,272 | 2,002 |
| | 80.6 | 27.6 | 58.1 | 72.7 | 16.6 | 5,716 | 2,032 |
| | 66.6 | 28.9 | 42.7 | 49.1 | 14.4 | 269 | 724 |
| | 84.7 | 34.0 | 58.6 | 53.6 | 16.5 | 161 | 1,154 |
| | 71.2 | 21.7 | 51.5 | 39.4 | 7.6 | 3,197 | 2,007 |
| | 82.7 | 47.3 | 67.1 | 46.6 | 17.6 | 68 | 1,086 |
| | 86.6 | 59.4 | 72.3 | 65.9 | 37.6 | 49 | 1,096 |
| | 97.0 | 82.1 | 92.5 | 55.2 | 44.9 | 895 | 1,739 |
| | 88.0 | 60.8 | 80.9 | 62.0 | 37.9 | 68 | 1,085 |
| Education No education Primary Secondary More than secondary | 75.6 | 16.8 | 44.1 | 59.6 | 7.9 | 7,933 | 7,755 |
| | 85.1 | 38.0 | 66.7 | 59.0 | 20.2 | 6,158 | 5,765 |
| | 98.0 | 71.6 | 90.0 | 59.9 | 42.3 | 1,115 | 1,394 |
| | 98.9 | 86.3 | 97.3 | 59.6 | 52.7 | 728 | 984 |
| Wealth quintile Lowest Second Middle Fourth Highest Total 15-49 | 72.7 | 14.6 | 40.5 | 56.6 | 5.5 | 2,792 | 3,412 |
| | 76.7 | 16.3 | 46.3 | 59.3 | 8.6 | 2,916 | 2,297 |
| | 77.1 | 19.5 | 50.2 | 61.9 | 9.8 | 2,879 | 2,164 |
| | 83.1 | 27.7 | 59.4 | 60.7 | 14.8 | 3,131 | 2,433 |
| | 94.0 | 66.1 | 83.8 | 58.7 | 37.4 | 4,216 | 5,592 |
| | 81.9 | 32.0 | 58.5 | 59.4 | 17.1 | 15,934 | 15,898 |

Table 12.5.2 Accepting attitudes toward those living with HIV/AIDS: Men

Among men age 15-49 who have heard of AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristics, Ethiopia 2011

| - | | Percentage | of men who: | | | | |
|---|--|--|---|--|--|--|---|
| Background characteristic | Are willing to care for a family member with AIDS in the respondent's home | Would buy fresh vegetables from shopkeeper who has the AIDS virus | Say that a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching | secret that a family member got infected | Percentage expressing accepting attitudes on all four indicators | Weighted number of men who have heard of AIDS | Unweighted number of men who have heard of AIDS |
| Age | | | | | | | |
| 15-24 15-19 20-24 25-29 30-39 40-49 | 91.6 90.1 93.5 93.5 93.6 94.1 | 50.4 49.1 52.1 50.2 42.9 41.9 | 71.3 68.7 74.7 69.7 68.9 66.9 | 64.8 62.7 67.5 65.7 66.2 66.2 | 30.1 27.6 33.4 30.8 26.1 25.0 | 5,225 2,933 2,292 2,280 3,111 2,061 | 5,061 2,757 2,304 2,255 3,231 2,144 |
| Marital status | | | | | | | |
| Never married Ever had sex Never had sex Married/living together Divorced/separated/ widowed | 92.2 96.8 91.1 93.1 | 54.7 67.1 51.8 40.7 | 73.1 83.3 70.7 66.9 | 64.8 68.2 64.0 65.9 | 32.9 41.5 30.8 24.6 | 5,496 1,044 4,453 6,817 | 5,543 1,489 4,054 6,699 |
| Residence | 37.3 | 33.0 | 72.0 | 00.7 | 54.2 | 303 | 443 |
| Urban Rural | 97.9 91.3 | 79.5 37.6 | 90.6 63.6 | 66.8 65.2 | 51.1 21.8 | 2,876 9,800 | 3,908 8,783 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 95.8 95.4 95.3 92.3 89.3 86.6 88.3 93.4 86.3 98.8 95.0 | 56.0 59.3 44.4 46.7 44.4 46.4 34.6 66.5 75.2 90.0 76.1 | 67.6 68.5 68.0 71.6 51.9 68.4 62.6 78.3 86.6 94.6 87.1 | 51.4 59.0 60.0 78.5 65.5 56.4 53.4 73.3 62.4 59.0 70.1 | 24.8 30.3 25.1 33.6 21.9 22.3 16.7 41.9 46.6 50.8 51.1 | 768 100 3,418 4,890 228 135 2,303 59 40 682 53 | 1,232 898 1,706 1,863 602 1,013 1,547 855 896 1,237 842 |
| Education No education Primary Secondary More than secondary | 89.6 92.8 97.6 98.9 | 27.9 46.4 77.6 85.3 | 53.9 70.3 91.6 97.2 | 64.7 64.9 68.3 69.6 | 14.7 27.4 51.5 58.4 | 3,677 6,763 1,296 939 | 3,537 6,281 1,564 1,309 |
| Wealth quintile Lowest Second Middle Fourth Highest | 88.7 92.0 91.2 92.8 97.4 | 29.4 35.0 36.8 44.3 77.7 | 53.8 59.8 65.1 71.7 89.1 | 61.5 62.1 66.5 68.0 67.9 | 15.9 19.3 20.0 27.4 50.5 | 2,076 2,320 2,422 2,668 3,190 | 2,469 1,852 1,911 2,187 4,272 |
| Total 15-49 | 92.8 | 47.1 | 69.7 | 65.5 | 28.4 | 12,676 | 12,691 |
| 50-59 Total 15-59 | 92.0 92.8 | 34.7 46.0 | 54.9 68.4 | 63.5 65.4 | 18.7 27.6 | 1,261 13,937 | 1,225 13,916 |

12.4 ATTITUDES TOWARDS REFUSING TO HAVE SEX AND NEGOTIATING SAFER SEX

Knowledge about HIV transmission and ways to prevent it are of little use if a woman feels powerless to negotiate safer sex practices with her partner. The EDHS 2011 assessed the ability of women to negotiate safer sex with a spouse who has sexual intercourse with other women or who has an STI. Interviewers asked women and men two attitudinal questions: Is a wife justified in refusing to have sex with her husband when she knows he has sexual intercourse with other women, and is a woman justified in asking her husband to use a condom if he has an STI?

Eight women of every ten (83 percent) and nine men of every ten (90 percent) believe that a woman may refuse to have sex with her husband if she knows he has sex with other women (Table 12.6). Among both women and men, those who never married but had ever had sex, respondents living in urban areas, those with secondary or higher education, and respondents in the

highest wealth quintile are more likely to agree that both specified behaviours are justified than are other respondents. Among age groups, women in the oldest group, age 40-49, are the least likely to believe that a woman is justified in refusing to have sex with her husband when she knows he has sex with other women or to use a condom if she knows he has an STI. Among men there is not much difference in these attitudes by age. Among regions both women and men residing in Somali are in general markedly less likely than those in other regions to believe that a woman is justified in refusing sex if she knows that the husband has sex with other women (64 and 83 percent, respectively) or in asking that they use a condom if he has an STI (31 and 61 percent, respectively).

Table 12.6 Attitudes toward negotiating safer sexual relations with husband

Percentage of women and men age 15-49 who believe that a woman is justified in refusing to have sexual intercourse with her husband if she knows that he has sexual intercourse with other women, and percentage who believe that a woman is justified in asking that they use a condom if she knows that her husband has a sexually transmitted infection (STI), by background characteristics, Ethiopia 2011

| | | Won | nen | | Men | | | | | |
|--|--|--|--|---|--|--|--|---|--|--|
| | Woman is | justified in: | | | Woman is justified in: | | | | | |
| Background characteristic | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if she knows that her husband has an STI | Weighted number of women | Unweighted number of women | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if she knows that her husband has an STI | Weighted number of men | Unweighted number of men | | |
| A | | | | | | | | | | |
| Age 15-24 15-19 20-24 25-29 30-39 40-49 | 84.4 84.0 85.0 81.7 83.3 77.5 | 73.3 73.5 73.0 68.7 66.4 58.1 | 6,940 4,009 2,931 3,147 3,971 2,457 | 6,857 3,835 3,022 3,185 4,058 2,415 | 87.4 85.3 90.2 90.6 91.2 92.2 | 87.9 86.5 89.6 90.1 89.3 86.5 | 5,332 3,013 2,319 2,297 3,132 2,074 | 5,162 2,832 2,330 2,274 3,261 2,171 | | |
| | 11.5 | 30.1 | 2,457 | 2,413 | 32.2 | 00.5 | 2,074 | 2,171 | | |
| Marital status Never married Ever had sex Never had sex Married/living together Divorced/separated/ widowed | 85.2 92.0 84.6 81.4 | 77.9 89.3 76.9 64.5 | 4,469 344 4,126 10,287 | 4,413 489 3,924 10,204 1,898 | 87.6 91.5 86.8 91.2 | 88.4 95.3 86.8 88.3 | 5,600 1,044 4,555 6,872 | 5,641 1,492 4,149 6,775 | | |
| Residence | | | , | , | | | | | | |
| Urban Rural | 90.5 80.2 | 86.4 62.9 | 3,947 12,568 | 5,329 11,186 | 95.9 87.9 | 95.7 86.3 | 2,882 9,952 | 3,915 8,953 | | |
| Region | | | | | | | | | | |
| Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 89.1 63.1 86.4 81.8 64.0 75.4 76.9 69.7 88.3 93.5 89.6 | 84.6 49.8 65.3 69.2 30.5 66.4 64.1 66.4 77.8 91.9 83.3 | 1,104 145 4,433 6,011 329 174 3,236 69 49 896 69 | 1,728 1,291 2,087 2,135 914 1,259 2,034 1,130 1,101 1,741 1,095 | 93.2 86.5 92.3 85.0 82.5 85.7 93.9 86.5 89.4 96.2 93.0 | 93.1 81.1 88.2 86.1 61.1 87.0 92.9 88.8 84.0 97.1 91.3 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 | | |
| Education No education Primary Secondary | 77.3 86.5 93.1 | 56.4 77.1 92.9 | 8,394 6,276 1,117 | 8,278 5,858 1,395 | 86.0 89.8 94.6 | 81.2 89.7 96.2 | 3,785 6,813 1,296 | 3,659 6,334 1,565 | | |
| More than secondary | 95.1 | 96.7 | 728 | 984 | 97.0 | 96.9 | 940 | 1,310 | | |
| Wealth quintile Lowest Second Middle Fourth Highest | 78.1 77.6 80.2 83.2 90.7 | 54.1 61.4 64.3 68.5 86.7 | 2,986 3,041 3,031 3,215 4,242 | 3,711 2,402 2,268 2,505 5,629 | 85.4 86.8 89.4 89.2 95.3 | 80.6 84.7 87.4 90.3 95.6 | 2,141 2,362 2,454 2,683 3,194 | 2,563 1,891 1,935 2,203 4,276 | | |
| Total 15-49 | 82.6 | 68.5 | 16,515 | 16,515 | 89.7 | 88.4 | 12,834 | 12,868 | | |
| 50-59 Total 15-59 | na na | na na | na na | na na | 89.3 89.6 | 85.2 88.1 | 1,276 14,110 | 1,242 14,110 | | |

12.5 ADULT SUPPORT OF EDUCATION ABOUT CONDOMS FOR CHILDREN AGE 12-14

To gauge the extent of support for programmes to increase condom knowledge among youth, all women age 18-49 and men age 18-59 were asked whether they thought that children age 12-14 should be taught about using condoms to avoid AIDS.

Table 12.7 shows that 54 percent of women and 76 percent of men age 18-49 agree that children age 12-14 should be taught about using condoms to avoid AIDS. Women age 18-24 are somewhat more supportive of condom education for children than older women. Support for condom education is higher among urban than rural women (68 percent versus 49 percent), and it increases with education and wealth. There is considerable regional variability in the level of support for condom education among women, from 23 percent in the Somali region to 70 percent in Tigray.

Among adult men support for condom education does not vary consistently with age or urban-rural residence. As with women Somali is the region where the lowest percentage of men (43 percent) agree that children age 12-14 should be taught about condom use to avoid AIDS. There is no clear variation by education or wealth.

Table 12.7 Adult support of education about condom use to prevent AIDS

Percentage of women and men age 18-49 who agree that children age 12-14 years should be taught about using a condom to avoid AIDS, by background characteristics, Ethiopia 2011

| | | Women | | Men | | | | |
|--|----------------------|--------------------------------|----------------------------|----------------------|------------------------------|--------------------------------|--|--|
| Background characteristic | Percentage who agree | Weighted number of women | Unweighted number of women | Percentage who agree | Weighted number of men | Unweighted number of men | | |
| Age | - | | | | | | | |
| 18-24 | 58.5 | 4,486 | 4.516 | 77.4 | 3.462 | 3,436 | | |
| 18-19 | 59.7 | 1,555 | 1,494 | 75.0 | 1,144 | 1,106 | | |
| 20-24 | 57.9 | 2,931 | 3,022 | 78.6 | 2,319 | 2,330 | | |
| 25-29 | 53.6 | 3,147 | 3,185 | 77.8 | 2,297 | 2,274 | | |
| 30-39 | 50.2 | 3,971 | 4,058 | 74.9 | 3,132 | 3,261 | | |
| 40-49 | 49.7 | 2,457 | 2,415 | 75.5 | 2,074 | 2,171 | | |
| Marital status | | | | | | | | |
| Never married | 63.8 | 2,324 | 2,405 | 77.3 | 3,746 | 3,931 | | |
| Married/living together Divorced/separated/ | 50.6 | 10,041 | 9,946 | 76.0 | 6,859 | 6,762 | | |
| widowed | 57.3 | 1,697 | 1,823 | 75.1 | 360 | 449 | | |
| Residence | | | | | | | | |
| Urban | 68.0 | 3,357 | 4,601 | 76.7 | 2,517 | 3,511 | | |
| Rural | 49.0 | 10,704 | 9,573 | 76.4 | 8,447 | 7,631 | | |
| Region | | | | | | | | |
| Tigray | 70.3 | 913 | 1,428 | 89.6 | 632 | 1,013 | | |
| Affar | 29.7 | 125 | 1,114 | 53.5 | 88 | 788 | | |
| Amhara | 51.3 | 3,723 | 1,749 | 73.7 | 2,874 | 1,428 | | |
| Oromiya | 53.5 | 5,102 | 1,811 | 77.6 | 4,260 | 1,617 | | |
| Somali | 22.6 | 285 | 793 | 43.4 | 211 | 560 | | |
| Benishangul-Gumuz | 56.2 | 150 | 1,085 | 72.4 | 117 | 883 | | |
| SNNP | 51.1 | 2,817 | 1,771 | 79.8 | 2,011 | 1,346 | | |
| Gambela | 64.2 | 58 | 971 | 82.3 | 54 | 777 | | |
| Harari | 51.4 | 43 | 967 | 67.2 | 36 | 815 | | |
| Addis Ababa | 67.3 | 784 | 1,520 | 72.2 | 633 | 1,149 | | |
| Dire Dawa | 55.3 | 60 | 965 | 73.8 | 48 | 766 | | |
| Education | | | | | | | | |
| No education | 44.2 | 8,073 | 7,877 | 69.5 | 3,545 | 3,435 | | |
| Primary | 64.4 | 4,330 | 4,144 | 80.8 | 5,322 | 4,979 | | |
| Secondary | 72.8 | 955 | 1,201 | 78.9 | 1,175 | 1,431 | | |
| More than secondary | 68.0 | 702 | 952 | 75.0 | 923 | 1,297 | | |
| Wealth quintile | | | | | | | | |
| Lowest | 42.1 | 2,589 | 3,220 | 70.7 | 1,807 | 2,184 | | |
| Second | 49.8 | 2,613 | 2,061 | 74.4 | 2,027 | 1,617 | | |
| Middle | 47.3 | 2,588 | 1,934 | 79.1 | 2,065 | 1,636 | | |
| Fourth | 55.1 | 2,625 | 2,090 | 80.2 | 2,270 | 1,875 | | |
| Highest | 67.7 | 3,647 | 4,869 | 76.6 | 2,795 | 3,830 | | |
| Total 18-49 | 53.5 | 14,061 | 14,174 | 76.4 | 10,964 | 11,142 | | |
| 50-59 | na | na | na | 70.4 | 1,276 | 1,242 | | |
| Total 18-59 | na | na | na | 75.8 | 12,240 | 12,384 | | |

12.6 HIGHER-RISK SEX

Information on sexual behaviour is important for designing and monitoring intervention programmes to control the spread of HIV/AIDS. The 2011 EDHS included questions on the number of lifetime sexual partners and of those during the 12 months preceding the survey. For male respondents interviewers asked an additional question on whether they had paid for sex during the 12 months preceding the interview. Information on the use of condoms at the last sexual encounter with each of partner was collected for both women and men. These questions are sensitive, and it is recognized that some respondents may have been reluctant to provide information on recent sexual behaviour.

12.6.1 Multiple Partners and Condom Use

Table 12.8.1 shows that a negligible proportion of women (less than 1 percent) had two or more partners in the 12 months preceding the survey. In the Gambela region a notably higher proportion of women than in other regions report that they had two or more partners in the past 12 months (11 percent compared with 1 percent or less elsewhere).

Women have a mean of 1.5 lifetime sexual partners. Never-married women have the highest mean number of sexual partners, 3.5, compared with 1.4 among those currently in union and 2.1 among those previously married. Women in the Gambela region report a markedly higher mean number of lifetime sexual partners (8.1) than women in other regions (1.2 to 2 partners). Among all women who had two or more partners in the past 12 months, 47 percent reported using a condom during last sexual intercourse (data not shown).

Table 12.8.2 shows that 4 percent of men had two or more partners in the past 12 months. The percentage of men with two or more sexual partners in the past 12 months increases from 1 percent among men age 15-19 to 8 percent among men age 40-49. Divorced, separated, or widowed men are somewhat more likely to have had two or more sexual partners in the past 12 months (9 percent) than men who are married or cohabiting (5 percent) or who never married (1 percent). Among regions the highest proportion of men with two or more sexual partners in the past 12 months is seen in Gambela (9 percent), followed by Affar and Benishangul-Gumuz (both 8 percent). The percentage of men with two or more partners in the past 12 months decreases with education and wealth.

Among men age 15-49 with two or more partners in the past 12 months, 16 percent used a condom during last sexual intercourse. Currently married men were much less likely to have used a condom at last sex (2 percent) than men who have never married (72 percent). Men age 25-29 (47 percent), those in urban areas (54 percent), men with more than secondary education (69 percent), and those in the highest wealth quintile (55 percent) were more likely than other men to have used a condom at last sex.

Men have a mean of 2.6 lifetime sexual partners. Previously married men, men residing in urban areas and in Gambela, men with secondary or higher education, and those in the highest wealth quintile have the highest mean number of lifetime sexual partners.

Table 12.8.1 Multiple sexual partners: Women

Among all women age 15-49, the percentage who had sexual intercourse with two or more sexual partners in the past 12 months and the mean number of sexual partners during their lifetime for women who ever had sexual intercourse, by background characteristics, Ethiopia 2011

| | | All women | | Among wor | nen who ever intercourse ¹ : | had sexual |
|---|---|--|---|---|--|---|
| Background characteristic | Percentage who had 2+ partners in the past 12 months | Weighted number of women | Unweighted number of women | Mean number of sexual partners in lifetime | Weighted number of women | Unweighted number of women |
| Age 15-24 15-19 20-24 25-29 30-39 40-49 | 0.4 0.3 0.6 0.6 0.3 | 6,940 4,009 2,931 3,147 3,971 2,457 | 6,857 3,835 3,022 3,185 4,058 2,415 | 1.5 1.4 1.6 1.5 1.5 | 3,090 968 2,122 2,911 3,873 2,438 | 3,236 1,032 2,204 2,934 3,948 2,398 |
| Marital status Never married Married/living together Divorced/separated/ widowed | 0.3 0.3 1.1 | 4,469 10,287 1,758 | 4,413 10,204 1,898 | 3.5 1.4 2.1 | 351 10,252 1,709 | 492 10,163 1,861 |
| Residence Urban Rural | 0.7 0.3 | 3,947 12,568 | 5,329 11,186 | 1.9 1.4 | 2,558 9,753 | 3,508 9,008 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 0.9 0.0 0.3 0.2 0.6 0.5 0.4 11.2 0.1 0.2 | 1,104 145 4,433 6,011 329 174 3,236 69 49 896 69 | 1,728 1,291 2,087 2,135 914 1,259 2,034 1,130 1,101 1,741 1,095 | 2.0 1.2 1.7 1.3 1.2 1.4 1.5 8.1 1.3 1.6 1.5 | 829 121 3,442 4,522 263 142 2,301 61 36 545 | 1,308 1,093 1,643 1,606 737 1,031 1,463 995 809 1,035 796 |
| Education No education Primary Secondary More than secondary | 0.4 0.5 0.0 0.1 | 8,394 6,276 1,117 728 | 8,278 5,858 1,395 984 | 1.5 1.7 1.3 1.3 | 7,855 3,474 528 454 | 7,663 3,499 774 580 |
| Wealth quintile Lowest Second Middle Fourth Highest | 0.1 0.3 0.4 0.2 0.7 | 2,986 3,041 3,031 3,215 4,242 | 3,711 2,402 2,268 2,505 5,629 | 1.4 1.4 1.4 1.5 | 2,442 2,416 2,377 2,259 2,817 | 3,138 1,938 1,810 1,875 3,755 |
| Total 15-49 | 0.4 | 16,515 | 16,515 | 1.5 | 12,311 | 12,516 |

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

Table 12.8.2 Multiple sexual partners: Men

Among all men age 15-49, the percentage who had sexual intercourse with two or more sexual partners in the past 12 months; among those having more than one partner in the past 12 months, the percentage reporting that a condom was used at last intercourse; and the mean number of sexual partners during their lifetime for men who ever had sexual intercourse, by background characteristics, Ethiopia 2011

| | | All men | | | vho had 2+ past 12 month | partners in the | Among men who ever had sexual intercourse ¹ : | | |
|---|---|--|---|---|---|--|---|--|---|
| Background characteristic | Percentage who had 2+ partners in the past 12 months | Weighted number of men | Unweighted number of men | Percentage who reported using a condom during last sexual intercourse | Weighted number of men | Unweighted number of men | Mean number of sexual partners in life time | Weighted number of men | Unweighted number of men |
| Age 15-24 15-19 20-24 25-29 30-39 40-49 | 1.0 0.5 1.6 2.6 5.4 8.0 | 5,332 3,013 2,319 2,297 3,132 2,074 | 5,162 2,832 2,330 2,274 3,261 2,171 | 47.2 * 36.9 47.1 7.0 2.8 | 52 14 37 60 168 166 | 97 24 73 91 191 185 | 1.9 1.9 1.9 2.1 2.5 3.8 | 1,260 234 1,026 1,854 3,028 2,047 | 1,491 325 1,166 1,870 3,140 2,129 |
| Marital status Never married Married/living together Divorced/separated/ widowed | 1.2 5.1 8.6 | 5,600 6,872 363 | 5,641 6,775 452 | 72.1 1.6 (54.2) | 65 350 31 | 124 414 26 | 3.0 2.4 5.3 | 1,033 6,810 345 | 1,480 6,710 440 |
| Type of union In polygynous union In non-polygynous union Not currently in union | 86.9 0.7 1.6 | 348 6,502 5,963 | 425 6,328 6,093 | 1.6 1.8 66.3 | 302 48 96 | 340 73 150 | 2.9 2.4 3.6 | 346 6,443 1,379 | 423 6,265 1,920 |
| Residence Urban Rural | 3.2 3.5 | 2,882 9,952 | 3,915 8,953 | 53.9 5.5 | 93 353 | 148 416 | 4.3 2.1 | 1,839 6,350 | 2,642 5,988 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 1.7 7.7 1.5 4.1 6.2 8.4 5.0 8.5 1.7 3.2 2.7 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 | 20.2 (24.3) 10.8 (5.6) 3.7 5.4 30.3 * (71.8) | 13 8 54 201 15 12 115 5 1 22 | 21 78 25 81 39 90 79 72 15 42 | 3.5 3.7 2.6 2.2 1.9 2.4 2.6 5.9 2.4 4.6 3.4 | 478 73 2,121 3,194 164 93 1,481 45 28 473 38 | 769 672 1,061 1,220 441 700 996 690 624 852 605 |
| Education No education Primary Secondary More than secondary | 4.0 3.5 2.4 2.6 | 3,785 6,813 1,296 940 | 3,659 6,334 1,565 1,310 | 1.4 13.9 54.0 69.4 | 153 236 31 25 | 206 241 65 52 | 2.1 2.6 4.0 4.0 | 3,107 3,766 637 679 | 3,009 3,738 940 943 |
| Wealth quintile Lowest Second Middle Fourth Highest | 5.7 3.4 3.2 2.9 2.7 | 2,141 2,362 2,454 2,683 3,194 | 2,563 1,891 1,935 2,203 4,276 | 4.6 8.7 4.1 8.1 55.3 | 123 81 79 78 85 | 184 70 75 97 138 | 2.1 2.1 2.1 2.4 4.0 | 1,456 1,529 1,563 1,589 2,051 | 1,845 1,255 1,259 1,392 2,879 |
| Total 15-49 50-59 Total 15-59 | 3.5 6.4 3.7 | 12,834 1,276 14,110 | 12,868 1,242 14,110 | 15.5 3.5 13.7 | 446 82 528 | 564 91 655 | 2.6 4.5 2.9 | 8,189 1,246 9,435 | 8,630 1,217 9,847 |

Note: Total includes 22 cases with information missing on type of union. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

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

While the risk of HIV transmission increases with the mean number of lifetime partners, it is highest when the sexual partnerships are concurrent. Two sexual partnerships are considered to be concurrent if the date of the most recent sexual intercourse with the earlier partner is after the date of the first sexual intercourse with the later partner. Concurrent partnership is measured in two ways—by the point prevalence of concurrency and by the cumulative percentage of concurrency. Point prevalence refers to the percentage of respondents who had two or more sexual partners concurrently at the point six months before the survey. Cumulative prevalence measures the percentage of respondents who had two or more sexual partners concurrently at any time during the 12 months

preceding the survey. The point prevalence and the cumulative prevalence of concurrent sexual partners are presented in Table 12.9.

The point prevalence and the cumulative prevalence of concurrent sexual partners among women are close to zero, while among men they are 2 and 3 percent, respectively. Among men both the point prevalence and the cumulative prevalence are highest among the oldest men, age 40-49 (7 and 8 percent, respectively), among currently married or cohabiting men (4 and 5 percent, respectively), and among those living in rural areas (both 3 percent).

The percentage of multiple sexual partnerships that were concurrent in the 12 months preceding the survey is 41 percent for women and 82 percent for men 15-49.

Table 12.9 Point prevalence and cumulative prevalence of concurrent sexual partners

Percentage of all women and men age 15-49 who had concurrent sexual partners six months before the survey (point prevalence¹), percentage of all women and all men age 15-49 who had any concurrent sexual partners during the 12 months before the survey (cumulative prevalence²), and, among women and men age 15-49 who had multiple sexual partners during the 12 months before the survey, percentage who had concurrent sexual partners, Ethiopia 2011

| | | Among all re | espondents: | | Among all respondents who had multiple partners during the 12 months before the survey: | | | |
|--|---|--|--|--|---|------------------------------------|------------------------------------|--|
| Background characteristic | Point prevalence of concurrent sexual partners ¹ | Cumulative prevalence of concurrent sexual partners ² | Weighted number of respondents | Unweighted number of respondents | Percentage who had concurrent sexual partners ² | Weighted number of respondents | Unweighted number of respondents | |
| | | | WOMEN | | | | | |
| Age 15-24 15-19 20-24 25-29 30-39 40-49 | 0.0 0.0 0.0 0.1 0.0 0.0 | 0.1 0.0 0.2 0.2 0.2 0.2 | 6,940 4,009 2,931 3,147 3,971 2,457 | 6,857 3,835 3,022 3,185 4,058 2,415 | (25.1) | 28 11 17 19 10 5 | 45 24 21 21 11 | |
| Marital status Never married Married/living together Divorced/separated/ widowed | 0.0 0.0 0.0 | 0.1 0.2 0.2 | 4,469 10,287 1,758 | 4,413 10,204 1,898 | * (62.5) (16.1) | 13 29 20 | 23 25 31 | |
| Residence Urban Rural Total 15-49 | 0.0 0.0 0.0 | 0.2 0.1 0.2 | 3,947 12,568 16,515 | 5,329 11,186 16,515 | (24.2) (56.3) 41.3 | 29 33 62 | 30 49 79 | |
| | | | MEN | | | | | |
| Age 15-24 15-19 20-24 25-29 30-39 40-49 | 0.1 0.0 0.2 0.7 4.2 6.7 | 0.3 0.1 0.6 1.6 4.8 7.9 | 5,332 3,013 2,319 2,297 3,132 2,074 | 5,162 2,832 2,330 2,274 3,261 2,171 | 29.3 * 36.0 59.2 90.2 98.1 | 52 14 37 60 168 166 | 97 24 73 91 191 185 | |
| Marital status Never married Married/living together Divorced/separated/ widowed | 0.2 4.1 0.0 | 0.5 4.8 1.4 | 5,600 6,872 363 | 5,641 6,775 452 | 43.3 94.9 (16.7) | 65 350 31 | 124 414 26 | |
| Residence Urban Rural Total 15-49 50-59 | 0.8 2.7 2.3 5.8 | 1.6 3.2 2.8 6.4 | 2,882 9,952 12,834 1,276 | 3,915 8,953 12,868 1,242 | 48.8 90.6 81.9 99.4 | 93 353 446 82 | 148 416 564 91 | |
| Total 15-59 | 2.6 | 3.2 | 14,110 | 14,110 | 84.6 | 528 | 655 | |

Note: Two sexual partners are considered to be concurrent if the date of the most recent sexual intercourse with the earlier partner is after the date of the first sexual intercourse with the later partner. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

The percentage of respondents who had two (or more) sexual partners that were concurrent at the point in time six months before

the survey ² The percentage of respondents who had two (or more) sexual partners that were concurrent at any time during the 12 months preceding the survey

12.6.2 Transactional Sex

Transactional sex involves the exchange of sex for money, favours, or gifts. Transactional sex is associated with a high risk of contracting HIV and other sexually transmitted infections due to compromised power relations and the tendency to have multiple partnerships. The 2011 EDHS asked male respondents if they had ever paid anyone in exchange for sex. Men who had sexual intercourse in the 12 months preceding the survey were asked if they had paid anyone for sexual intercourse during that time. Further, respondents who had engaged in paid sexual intercourse in the past 12 months were asked if they had used a condom the last time they paid for sexual intercourse.

Table 12.10 shows that 5 percent of men age 15-49 have paid for sexual intercourse at some point in their lives, and 1 percent did so in the past 12 months. Men age 40-49 (13 percent), those who were previously married (20 percent), and urban men (10 percent) were more likely than other men to have ever paid for sexual intercourse. Among regions this proportion ranges from 2 percent of men in Somali and Harari to 15 percent in Gambela. The proportion of men who ever paid for sex increases with increases in men's education and wealth. There is little variation by background characteristics in the percentage of men who paid for sex in the past 12 months. Thirty percent of men who paid for sex in the past 12 months reported condom use at last paid sexual intercourse (data not shown).

Table 12.10 Payment for sexual intercourse

| Percentage of men age 15- payment for sexual interce Ethiopia 2011 | -49 who ever paid fo | or sexual intercou 12 months, by | rse and perce background | ntage reporting characteristics |
|--|--|---|------------------------------|------------------------------------|
| Background characteristic | Percentage who ever paid for sexual intercourse | Percentage who paid for sexual intercourse in the past 12 months | Weighted number of men | Unweighted number of men |
| Age | | | | |
| 15-24 | 1.5 | 1.0 | 5,332 | 5,162 |
| 15-19 | 0.6 | 0.4 | 3,013 | 2,832 |
| 20-24 | 2.6 | 1.6 | 2,319 | 2,330 |
| 25-29 | 4.4 | 1.7 | 2,297 | 2,274 |
| 30-39 | 8.1 12.5 | 1.4 | 3,132 | 3,261 |
| 40-49 | 12.5 | 0.7 | 2,074 | 2,171 |
| Marital status | 0.0 | 4.0 | F 000 | 5.044 |
| Never married | 2.3 | 1.0 | 5,600 | 5,641 |
| Married/living together | 7.1 | 0.8 | 6,872 | 6,775 |
| Divorced/separated/ widowed | 20.4 | 9.3 | 363 | 452 |
| | 20.4 | 3.3 | 303 | 432 |
| Residence Urban | 9.5 | 1.9 | 2 002 | 2.045 |
| Rural | 9.5 4.2 | 0.9 | 2,882 9,952 | 3,915 8,953 |
| | 4.2 | 0.9 | 9,932 | 0,955 |
| Region | 13.2 | 1.8 | 770 | 4 225 |
| Tigray Affar | 2.6 | 1.6 | 101 | 1,235 910 |
| Amhara | 6.9 | 1.4 | 3,481 | 1,739 |
| Oromiya | 3.0 | 0.8 | 4,957 | 1,889 |
| Somali | 1.5 | 0.9 | 245 | 653 |
| Benishangul-Gumuz | 6.3 | 1.2 | 138 | 1.047 |
| SNNP | 4.3 | 1.1 | 2,307 | 1,550 |
| Gambela | 14.9 | 4.4 | 59 | 865 |
| Harari | 2.0 | 0.3 | 40 | 898 |
| Addis Ababa | 11.3 | 1.4 | 682 | 1,237 |
| Dire Dawa | 7.6 | 0.5 | 53 | 845 |
| Education | | | | |
| No education | 5.3 | 1.2 | 3,785 | 3,659 |
| Primary | 4.6 | 1.1 | 6,813 | 6,334 |
| Secondary | 7.0 | 1.0 | 1,296 | 1,565 |
| More than secondary | 9.2 | 1.5 | 940 | 1,310 |
| Wealth quintile | | | | |
| Lowest | 3.7 | 1.2 | 2,141 | 2,563 |
| Second | 3.9 | 0.7 | 2,362 | 1,891 |
| Middle Fourth | 4.6 4.9 | 1.0 1.3 | 2,454 2,683 | 1,935 2,203 |
| Highest | 4.9 8.7 | 1.3 1.4 | 2,063 3,194 | 2,203 4,276 |
| • | | | , | , |
| Total 15-49 | 5.4 | 1.1 | 12,834 | 12,868 |
| 50-59 | 14.6 | 0.3 | 1,276 | 1,242 |
| Total 15-59 | 6.2 | 1.1 | 14,110 | 14,110 |

12.7 COVERAGE OF HIV TESTING

12.7.1 General HIV Testing

Knowledge of HIV status helps HIV negative individuals make specific decisions to reduce risk and increase safer sex practices so that they can remain free of disease. For those who are infected with HIV, knowledge of their status allows them to take action to protect their sexual partners, to seek treatment, and to plan for the future. To assess awareness of HIV testing services and the coverage of those services, the 2011 EDHS asked respondents whether they had ever been tested for HIV. If they said that they had been, they were asked whether they had received the results of their last test. If they had never been tested, they were asked if they knew a place where they could go to be tested.

Tables 12.11.1 and 12.11.2 show that 66 percent of women and 82 percent of men know where to get an HIV test. The level of this knowledge is substantially higher among urban residents (91 percent of women and 97 percent of men) than among rural residents (59 percent of women and 78 percent of men). Women and men who have never married and have ever had sex, who live in Addis Ababa, who have secondary or higher education, and who are in the highest wealth quintile are more likely to know where to get an HIV test.

Results show that 36 percent of women and 38 percent of men have ever been tested for HIV and received their test results. Among age groups women age 20-24 (44 percent) and men age 25-29 (46 percent) are the most likely to have ever been tested for HIV and received their test results. Among both women and men, urban residents are more likely than rural residents to have ever had an HIV test and received results. Never-married respondents who have ever had sex are more likely to have taken the test and received results (69 percent of women and 58 percent of men) than those currently or previously in union. Among regions the percentages of men and women who have ever been tested for HIV and received results ranges from 11 percent in Somali to 65 percent in Addis Ababa for women and from 17 percent in Somali to 60 percent in Dire Dawa for men. HIV testing is more common among better educated and wealthier respondents.

Overall, about six in every ten Ethiopians (61 percent of women and 59 percent of men) have never been tested for HIV.

One respondent of every five (20 percent of women and 21 percent of men) were tested for HIV in the year preceding the survey and received the results. These figures are much higher than those recorded in the 2005 EDHS (2 percent for both women and men), showing an increased awareness and utilization of opportunities for HIV testing and learning one's HIV status.

Table 12.11.1 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, the percentage of women ever tested, and the percentage of women age 15-49 who received their test results the last time they were tested for HIV in the past 12 months, by background characteristics, Ethiopia 2011

| | | by test whethe | listribution of ting status a r they receing ts of the las | and by ved the | | | Percentage who | | |
|---|--|--|---|--|--|--|---|--|---|
| Background characteristic | Percentage 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 results from last HIV test in the past 12 months | Weighted number of women | Unweighted number of women |
| Age 15-24 15-19 20-24 25-29 30-39 40-49 | 69.2 67.5 71.5 68.0 65.0 59.0 | 37.3 32.1 44.4 39.8 35.6 26.6 | 3.2 3.0 3.4 2.7 3.3 2.6 | 59.5 64.9 52.3 57.5 61.1 70.8 | 100.0 100.0 100.0 100.0 100.0 100.0 | 40.5 35.1 47.7 42.5 38.9 29.2 | 21.2 18.8 24.5 23.1 19.2 13.9 | 6,940 4,009 2,931 3,147 3,971 2,457 | 6,857 3,835 3,022 3,185 4,058 2,415 |
| Marital status Never married Ever had sex Never had sex Married/living together Divorced/separated/ widowed | 73.1 92.9 71.5 62.8 70.5 | 36.1 68.5 33.4 34.7 40.9 | 3.3 2.6 3.4 3.0 | 60.6 28.8 63.2 62.2 56.8 | 100.0 100.0 100.0 100.0 | 39.4 71.2 36.8 37.8 | 21.2 45.2 19.2 19.5 | 4,469 344 4,126 10,287 1,758 | 4,413 489 3,924 10,204 1,898 |
| Residence Urban Rural | 90.8 58.8 | 61.2 27.8 | 2.6 3.1 | 36.2 69.1 | 100.0 100.0 | 63.8 30.9 | 36.0 15.0 | 3,947 12,568 | 5,329 11,186 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 85.3 49.2 67.9 59.3 34.9 61.1 66.1 77.0 87.2 96.6 88.1 | 55.5 29.4 34.5 32.5 10.6 36.7 30.5 46.6 55.4 65.2 62.9 | 4.9 0.7 2.6 2.9 0.9 2.2 3.9 3.1 2.7 1.2 4.4 | 39.6 69.9 62.9 64.6 88.6 61.1 65.5 50.3 41.9 33.6 32.7 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 60.4 30.1 37.1 35.4 11.4 38.9 34.5 49.7 58.1 66.4 67.3 | 35.3 18.7 19.0 18.2 6.5 17.1 16.1 27.6 33.5 35.2 40.8 | 1,104 145 4,433 6,011 329 174 3,236 69 49 896 69 | 1,728 1,291 2,087 2,135 914 1,259 2,034 1,130 1,101 1,741 1,095 |
| Education No education Primary Secondary More than secondary | 52.9 75.3 96.2 100.0 | 24.1 41.5 65.1 76.3 | 2.4 3.8 4.0 1.5 | 73.5 54.7 30.9 22.2 | 100.0 100.0 100.0 100.0 | 26.5 45.3 69.1 77.8 | 12.9 23.7 36.0 45.6 | 8,394 6,276 1,117 728 | 8,278 5,858 1,395 984 |
| Wealth quintile Lowest Second Middle Fourth Highest | 46.4 55.1 60.0 70.2 90.4 | 18.2 23.4 28.3 37.1 61.3 | 2.2 3.5 3.5 3.4 2.7 | 79.7 73.1 68.2 59.5 36.0 | 100.0 100.0 100.0 100.0 100.0 | 20.3 26.9 31.8 40.5 64.0 | 10.5 12.2 15.2 19.0 36.5 | 2,986 3,041 3,031 3,215 4,242 | 3,711 2,402 2,268 2,505 5,629 |
| Total 15-49 | 66.4 | 35.8 | 3.0 | 61.2 | 100.0 | 38.8 | 20.0 | 16,515 | 16,515 |

¹ Includes 'don't know/missing'

Table 12.11.2 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, the percentage of men ever tested, and the percentage of men age 15-49 who received their test results the last time they were tested for HIV in the past 12 months, according to background characteristics, Ethiopia 2011

| | | Percent distribution of men by testing status and by whether they received the results of the last test | | | | | Percentage who | | |
|--|---|--|--|------------------------------|-------|---------------------------|---|------------------------------|--------------------------|
| Background characteristic | Percentage 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 results from last HIV test in the past 12 months | Weighted number of men | Unweighted number of men |
| Age | | | | | | | | | |
| 15-24 | 78.8 | 32.0 | 3.6 | 64.4 | 100.0 | 35.6 | 20.1 | 5,332 | 5,162 |
| 15-19 | 74.7 | 25.3 | 3.6 | 71.1 | 100.0 | 28.9 | 16.5 | 3,013 | 2,832 |
| 20-24 | 84.1 | 40.7 | 3.5 | 55.8 | 100.0 | 44.2 | 24.8 | 2,319 | 2,330 |
| 25-29 | 86.8 | 45.9 | 4.6 | 49.5 | 100.0 | 50.5 | 23.7 | 2,297 | 2,274 |
| 30-39 | 83.2 | 40.8 | 3.1 | 56.1 | 100.0 | 43.9 | 20.0 | 3,132 | 3,261 |
| 40-49 | 82.6 | 37.8 | 2.8 | 59.5 | 100.0 | 40.5 | 19.8 | 2,074 | 2,171 |
| Marital status | | | | | | | | | |
| Never married | 80.9 | 34.2 | 3.6 | 62.2 | 100.0 | 37.8 | 20.8 | 5,600 | 5,641 |
| Ever had sex | 95.0 | 57.8 | 3.3 | 38.9 | 100.0 | 61.1 | 34.7 | 1,044 | 1,492 |
| Never had sex | 77.7 | 28.7 | 3.7 | 67.6 | 100.0 | 32.4 | 17.6 | 4,555 | 4,149 |
| Married/living together Divorced/separated/ | 82.5 | 39.7 | 3.5 | 56.8 | 100.0 | 43.2 | 20.3 | 6,872 | 6,775 |
| widowed | 85.7 | 50.5 | 2.2 | 47.3 | 100.0 | 52.7 | 26.2 | 363 | 452 |
| Residence | | | | | | | | | |
| Urban | 96.9 | 56.3 | 2.2 | 41.4 | 100.0 | 58.6 | 30.4 | 2,882 | 3,915 |
| Rural | 77.5 | 32.1 | 3.9 | 64.0 | 100.0 | 36.0 | 17.9 | 9,952 | 8,953 |
| Region | | | | | | | | | 4.00= |
| Tigray | 92.1 | 49.1 | 5.9 | 45.1 | 100.0 | 54.9 | 29.7 | 770 | 1,235 |
| Affar | 79.2 | 35.0 | 1.3 | 63.7 | 100.0 | 36.3 | 17.9 | 101 | 910 |
| Amhara | 81.4 | 40.6 | 2.9 | 56.5 | 100.0 | 43.5 | 23.4 | 3,481 | 1,739 |
| Oromiya | 76.3 | 31.9 | 2.6 | 65.5 | 100.0 | 34.5 | 18.1 | 4,957 | 1,889 |
| Somali | 54.2 | 17.1 | 1.6 | 81.3 | 100.0 | 18.7 | 7.9 | 245 | 653 |
| Benishangul-Gumuz | 77.6 | 39.9 | 2.5 | 57.7 | 100.0 | 42.3 | 23.4 | 138 | 1,047 |
| SNNP | 89.2 | 36.3 | 6.7 | 57.0 | 100.0 | 43.0 | 17.2 | 2,307 | 1,550 |
| Gambela | 91.7 | 51.9 | 4.9 | 43.2 | 100.0 | 56.8 | 29.0 | 59 | 865 |
| Harari | 81.3 | 42.8 | 1.8 | 55.4 | 100.0 | 44.6 | 24.6 | 40 | 898 |
| Addis Ababa | 98.7 | 58.9 | 0.9 | 40.2 | 100.0 | 59.8 | 29.0 | 682 | 1,237 |
| Dire Dawa | 93.5 | 60.1 | 3.5 | 36.4 | 100.0 | 63.6 | 42.0 | 53 | 845 |
| Education | 00.0 | 05.4 | 0.0 | 74.7 | 400.0 | 00.0 | 40.4 | 0.705 | 0.050 |
| No education | 68.6 | 25.4 | 2.9 | 71.7 | 100.0 | 28.3 | 13.1 | 3,785 | 3,659 |
| Primary | 83.6 | 36.5 | 4.2 | 59.3 | 100.0 | 40.7 | 19.7 | 6,813 | 6,334 |
| Secondary | 99.0 | 59.2 | 3.0 | 37.7 | 100.0 | 62.3 | 35.3 | 1,296 | 1,565 |
| More than secondary | 99.5 | 64.7 | 1.5 | 33.8 | 100.0 | 66.2 | 38.2 | 940 | 1,310 |
| Wealth quintile Lowest | 65.9 | 22.2 | 3.3 | 74.5 | 100.0 | 25.5 | 11.2 | 2,141 | 2,563 |
| Second | 65.9 74.7 | 28.6 | 3.3 3.1 | 68.3 | 100.0 | 25.5 31.7 | 15.3 | , | 2,563 1,891 |
| Secona Middle | 74.7 78.2 | 28.6 32.9 | 3.1 | 63.6 | 100.0 | 31.7 36.4 | 16.4 | 2,362 2,454 | 1,935 |
| Fourth | 76.2 86.5 | 32.9 38.0 | 5.4 5.6 | 56.4 | 100.0 | 36.4 43.6 | 23.2 | 2,454 | 2,203 |
| Highest | 96.9 | 57.7 | 2.3 | 40.0 | 100.0 | 60.0 | 32.1 | 3,194 | 4,276 |
| Total 15-49 | 81.9 | 37.6 | 3.5 | 58.9 | 100.0 | 41.1 | 20.7 | 12,834 | 12,868 |
| 50-59 | 77.9 | 27.6 | 4.2 | 68.2 | 100.0 | 31.8 | 12.4 | 1,276 | 1,242 |
| Total 15-59 | 81.5 | 36.7 | 3.6 | 59.8 | 100.0 | 40.2 | 19.9 | 14,110 | 14,110 |

¹ Includes 'don't know/missing'

12.7.2 HIV Counselling and Testing During Pregnancy

Table 12.12 presents information on HIV screening of pregnant women age 15-49 who gave birth in the two years preceding the survey. The screening process is a key tool in reducing mother-to-child transmission of HIV. Only 14 percent of women who gave birth in the two years before the survey received HIV counselling during antenatal care (ANC). One woman in every five (20 percent) were tested for HIV during antenatal care and received the test results, and 2 percent were tested but did not receive the test results.

Overall, 11 percent of women received HIV counselling, an HIV test, and the results during ANC for their most recent birth in the two years preceding the survey. Young women, age 15-24 (14 percent) and urban women (43 percent) were more likely than other women to have been counselled on HIV and received an HIV test and its results during ANC. Addis Ababa has by far the highest percentage of women receive the full screening process, at 76 percent, while Somali has the lowest, at 2 percent. The likelihood of HIV counselling and testing during ANC increases with levels of education and wealth. For example, the proportion of women who were counselled about HIV during ANC, were tested, and received results ranges from 6 percent of women with no education to 72 percent of those with more than secondary education.

Table 12.12 Pregnant women counselled and tested for HIV

Among all women age 15-49 who gave birth in the two years preceding the survey, the percentage who received HIV counselling and the percentage who received an HIV test during antenatal care for their most recent birth, by whether they received their test results, according to background characteristics, Ethiopia 2011

| | Percentage who received | Percentage tested for I antenatal | HIV during | Percentage who received counselling | Weighted | Unweighted |
|---|---|---|--------------------|---|------------------------------------|------------------------------------|
| | HIV counselling | wh | 10: | on HIV, an HIV test | number of women who | number of women who |
| | during | | Did not | during ANC, | gave birth in | gave birth in |
| Background characteristic | antenatal care ¹ | Received results | receive results | and the results | the past two years ² | the past two years ² |
| Age | | | | | | |
| 15-24 | 16.0 | 24.3 | 1.3 | 13.8 | 1,366 | 1,333 |
| 15-19 | 10.8 | 18.2 | 2.5 | 9.6 | 333 | 336 |
| 20-24 | 17.6 | 26.3 | 0.9 | 15.2 | 1,034 | 997 |
| 25-29 | 13.6 | 20.3 | 1.3 | 11.6 | 1,407 | 1,333 |
| 30-39 | 12.5 | 17.0 | 1.7 | 9.7 | 1,386 | 1,364 |
| 40-49 | 7.8 | 12.7 | 1.7 | 6.2 | 293 | 254 |
| Marital status | | | | | | |
| Never married/ | (22.4) | (20.0) | (4.5) | (20.0) | 20 | 20 |
| ever had sex Married/living together | (22.4) 13.2 | (29.0) 19.6 | (1.5) 1.4 | (20.9) 11.0 | 38 4,166 | 32 4,012 |
| Divorced/separated/ | 13.2 | 19.0 | 1.4 | 11.0 | 4,100 | 4,012 |
| widowed | 19.5 | 24.6 | 2.7 | 15.6 | 249 | 240 |
| Residence | 10.0 | 21.0 | 2., | 10.0 | 210 | 210 |
| Urban | 46.8 | 60.9 | 3.4 | 43.2 | 607 | 751 |
| Rural | 8.4 | 13.5 | 1.2 | 6.3 | 3,846 | 3,533 |
| Region | • | | | | 0,010 | -, |
| Tigray | 29.3 | 43.9 | 2.8 | 27.0 | 273 | 434 |
| Affar | 13.5 | 19.2 | 0.0 | 10.7 | 40 | 378 |
| Amhara | 12.1 | 19.6 | 2.6 | 10.3 | 983 | 476 |
| Oromiya | 11.2 | 16.8 | 0.9 | 8.6 | 1,917 | 681 |
| Somali | 6.5 | 5.7 | 1.0 | 2.2 | 128 | 358 |
| Benishangul-Gumuz | 13.1 | 17.9 | 1.1 | 11.2 | 51 | 373 |
| SNNP | 9.4 | 14.1 | 1.3 | 7.8 | 926 | 600 |
| Gambela | 16.6 | 29.8 | 0.5 | 14.1 | 15 | 317 |
| Harari | 26.9 | 40.7 | 0.9 | 25.2 | 11 | 246 |
| Addis Ababa | 79.7 | 90.5 | 0.5 | 76.0 | 95 | 167 |
| Dire Dawa | 32.5 | 40.5 | 2.3 | 29.7 | 14 | 254 |
| Education | | | | | | |
| No education | 7.1 | 11.7 | 1.0 | 5.6 | 2,956 | 2,845 |
| Primary | 20.4 | 29.1 | 2.3 | 16.7 | 1,296 | 1,184 |
| Secondary | 62.8 | 78.1 | 4.7 | 56.4 | 136 | 173 |
| More than secondary | 71.7 | 94.5 | 0.1 | 71.7 | 65 | 82 |
| Wealth quintile | | | | | 4 0 4= | |
| Lowest | 5.3 | 6.7 | 0.5 | 3.6 | 1,047 | 1,311 |
| Second | 5.5 | 10.3 | 1.3 | 3.4 | 988 | 782 |
| Middle | 8.1 14.6 | 12.8 21.8 | 0.6 2.8 | 6.2 11.5 | 917 784 | 704 656 |
| Fourth Highest | 42.8 | 60.1 | 2.8 | 39.9 | 704 717 | 831 |
| Total 15-49 | 13.6 | 20.0 | 1.5 | 11.3 | 4,453 | 4,284 |
| 10ta 10-43 | 13.0 | 20.0 | 1.5 | 11.0 | 4,400 | 7,207 |

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

¹ In this context "counselling" means that someone talked with the respondent about all three of the following topics: (1) babies getting the AIDS virus from their mother, (2) preventing transmission of the virus, and (3) getting tested for the virus

Denominator for percentages includes women who did not receive antenatal care for their last birth in the past two years.

12.8 MALE CIRCUMCISION

Circumcision is widely practiced in Ethiopia and often serves as a rite of passage to adulthood. Recently, studies have shown that male circumcision, which involves the removal of the foreskin of the penis, is associated with lower susceptibility to transmission of sexually transmitted infections, including HIV (Bailey et al., 2007). The 2011 EDHS asked men if they were circumcised.

Table 12.13.1 shows that 92 percent of Ethiopian men age 15-49 are circumcised. The percentage of men who are circumcised increases with age, ranging from 88 percent of men age 15-19 to 95 percent of men age 40-49. Men living in urban areas are somewhat more likely to be circumcised than men in rural areas (98 percent versus 90 percent). Circumcision is close to universal in most regions, except in Gambela and SNNP regions (76 and 79 percent, respectively). The proportion of circumcised men is highest among Orthodox Christians and Muslims (96 percent each).

| Table 12.13.1 Male circumcision |
|--|
| Percentage of men age 15-49 who report having been circumcised, by background characteristics, Ethiopia 2011 |

| Background characteristic | Percentage circumcised | Weighted number of men | Unweighted number of men |
|---|--|--|---|
| Age 15-24 15-19 20-24 25-29 30-39 40-49 Residence | 89.1 87.6 91.1 93.5 93.3 94.8 | 5,332 3,013 2,319 2,297 3,132 2,074 | 5,162 2,832 2,330 2,274 3,261 2,171 |
| Urban Rural | 97.9 90.1 | 2,882 9,952 | 3,915 8,953 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 96.2 99.0 95.2 93.6 97.2 94.6 78.5 75.9 99.6 99.1 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 |
| Religion Orthodox Catholic Protestant Muslim Traditional | 96.3 83.3 78.9 95.5 76.6 | 6,133 120 2,459 3,788 96 | 5,510 125 2,069 4,873 87 |
| Total 15-49 | 91.8 | 12,834 | 12,868 |
| 50-59 | 95.6 | 1,276 | 1,242 |
| Total 15-59 | 92.2 | 14,110 | 14,110 |

Note: Total includes 15 cases with information missing on religion.

Circumcised men were also asked the age at which they were circumcised, who performed the circumcision, and where the circumcision was done. As Table 12.13.2 shows, the majority of circumcised men, 61 percent, were circumcised during childhood (younger than age 5). In the majority of the cases, the circumcision was performed by a traditional practitioner or family friend (72 percent) and at the respondent's home (73 percent).

Table 12.13.2 Circumstances surrounding male circumcision

Percentage of men age 15-49 who have been circumcised, by age at circumcision, person who performed the circumcision, and place of circumcision, Ethiopia 2011

| Characteristics of circumcision | Total |
|--|--|
| Age at circumcision During childhood (< age 5) 5-9 10+ Don't know Missing | 61.3 9.0 17.9 11.5 0.2 |
| Who performed the circumcision Traditional practitioner/family friend Health worker/professional Other Don't know Missing | 72.0 14.0 0.5 13.3 0.1 |
| Place where circumcision was done Health facility Home of a health worker/professional At home Ritual site Other home/place Don't know | 10.2 3.7 72.7 2.1 4.0 7.3 |
| Total Weighted number Unweighted number | 100.0 13,901 13,004 |

12.9 Self-Reporting of Sexually Transmitted Infections

Information about the incidence of sexually transmitted infections (STIs) is not only useful as a marker of unprotected sexual intercourse but also because STI infection is a co-factor in HIV transmission. The 2011 EDHS asked respondents who had ever had sex whether they had had a disease that they acquired through sexual contact in the past 12 months. They were also asked whether, in the past 12 months, they had any genital discharge and whether they had experienced a genital sore or ulcer. These symptoms have been shown to be useful in identifying STIs in men. For women, however, discharge is less easily interpreted as a symptom because women experience non-STI conditions of the reproductive tract that also produce discharge.

Table 12.14 shows that 1 percent, each, of Ethiopian women and men reported having had an STI in the past 12 months. Three percent of women and 2 percent of men reported having had an abnormal genital discharge, and 1 percent each of women and men reported having had a genital sore or ulcer in the 12 months preceding the survey. These numbers may be underestimates because respondents may be embarrassed or ashamed to admit to having STIs. Given the low levels of reporting of STIs, variations across background characteristics are small.

Table 12.14 Self-reported prevalence of sexually-transmitted infections (STIs) and STI symptoms

Among women and men age 15-49 who ever had sexual intercourse, the percentage reporting having an STI and/or symptoms of an STI in the past 12 months, by background characteristics, Ethiopia 2011

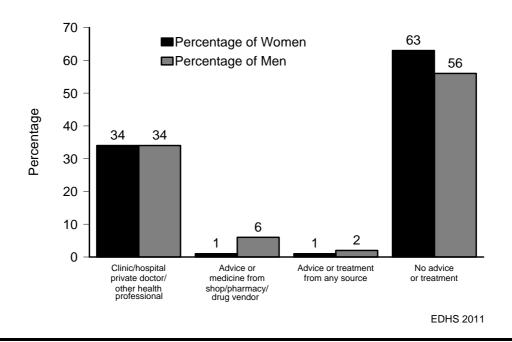
| _ | | | ' | Women | | | | | | Men | | |
|---|--|--|--|---|---|---|--|--|--|---|---|---|
| · | | entage of wo | | | | Un- | Percei | ntage of men in the past | | | | Un- |
| Background characteristic | STI | Bad- smelling or abnormal genital discharge | Genital sore or ulcer | STI, genital discharge, sore or ulcer | Weighted number of women who ever had sexual intercourse | weighted number of women who ever had sexual intercourse | STI | Bad- smelling or abnormal genital discharge | Genital sore or ulcer | STI, genital discharge, sore or ulcer | Weighted number of men who ever had sexual intercourse | weighted number of men who ever had sexual intercourse |
| Age | | | | | | | | | | | | |
| 15-24 15-19 20-24 25-29 30-39 40-49 | 0.7 1.0 0.6 0.8 0.8 0.7 | 2.9 2.1 3.3 2.2 1.9 3.5 | 0.9 1.4 0.8 1.8 1.0 1.9 | 3.6 3.3 3.7 3.4 2.7 4.2 | 3,088 970 2,119 2,917 3,881 2,441 | 3,237 1,032 2,205 2,945 3,959 2,400 | 1.9 0.2 2.3 0.6 0.6 1.2 | 2.9 2.3 3.0 0.8 1.4 1.2 | 1.0 0.6 1.1 0.5 0.4 0.9 | 4.4 2.3 4.8 1.6 1.9 2.3 | 1,266 236 1,030 1,859 3,040 2,059 | 1,498 327 1,171 1,874 3,158 2,152 |
| Marital status Never | | | | | | | | | | | | |
| married/ever had sex | 1.2 | 2.7 | 2.4 | 4.7 | 344 | 489 | 1.8 | 2.8 | 1.0 | 4.3 | 1,044 | 1,492 |
| Married/living together Divorced/ | 0.7 | 2.4 | 1.1 | 3.2 | 10,263 | 10,179 | 8.0 | 1.1 | 0.6 | 1.8 | 6,831 | 6,747 |
| separated/ widowed Male | 0.8 | 3.1 | 2.5 | 4.3 | 1,722 | 1,873 | 1.9 | 4.5 | 1.2 | 6.8 | 350 | 443 |
| circumcision Circumcised Not | na | na | na | na | na | na | 0.9 | 1.4 | 0.6 | 2.3 | 7,677 | 8,035 |
| circumcised | na | na | na | na | na | na | 1.7 | 1.8 | 0.7 | 3.0 | 528 | 626 |
| Residence | | | | | | | | | | | | |
| Urban Rural | 0.7 0.8 | 3.0 2.4 | 1.7 1.3 | 4.0 3.2 | 2,569 9,760 | 3,520 9,021 | 0.2 1.2 | 1.3 1.5 | 0.6 0.7 | 1.7 2.5 | 1,857 6,368 | 2,670 6,012 |
| Region | | | | | | 4.040 | | | | | 400 | |
| Tigray Affar Amhara Oromiya Somali Benishangul- | 0.7 0.5 0.3 1.1 1.7 | 3.2 0.8 2.4 3.1 3.9 | 1.6 0.5 1.4 1.5 4.2 | 4.0 1.4 3.3 4.0 5.9 | 833 121 3,453 4,515 263 | 1,316 1,093 1,649 1,604 740 | 0.5 1.4 0.2 1.7 4.6 | 0.9 4.0 1.5 1.3 7.3 | 0.5 1.8 0.7 0.6 1.9 | 1.3 4.3 2.3 2.5 7.8 | 489 73 2,136 3,192 167 | 786 672 1,069 1,219 448 |
| Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 0.3 0.6 1.7 0.5 0.6 0.1 | 2.1 1.5 3.8 1.0 1.5 1.0 | 1.0 0.6 4.9 0.7 1.3 0.8 | 2.6 2.2 6.5 1.6 2.2 1.4 | 143 2,308 61 36 546 49 | 1,035 1,466 994 810 1,038 796 | 0.2 0.5 1.2 0.2 0.1 1.2 | 1.4 1.6 2.3 0.5 0.3 1.2 | 0.8 0.6 1.9 0.0 0.1 0.3 | 2.1 2.2 3.4 0.7 0.4 2.1 | 93 1,488 45 28 476 38 | 704 999 692 630 857 606 |
| Education No education Primary Secondary More than | 0.8 0.8 0.0 | 2.6 2.3 2.3 | 1.4 1.4 0.8 | 3.4 3.4 3.0 | 7,869 3,482 521 | 7,681 3,507 771 | 0.8 1.1 1.4 | 1.2 1.8 1.1 | 0.8 0.6 0.3 | 2.2 2.5 2.3 | 3,117 3,781 641 | 3,021 3,762 946 |
| secondary | 0.2 | 2.7 | 0.7 | 3.0 | 457 | 582 | 0.6 | 1.2 | 0.5 | 1.9 | 686 | 953 |
| Wealth quintile Lowest Second Middle Fourth Highest Total 15-49 | 0.3 0.9 1.3 0.5 0.8 | 1.9 2.6 2.7 2.2 3.2 2.5 | 1.3 1.1 1.4 1.2 1.6 1.3 | 2.7 3.2 3.7 2.9 4.1 3.4 | 2,442 2,425 2,374 2,260 2,827 12,328 | 3,138 1,946 1,812 1,879 3,766 12,541 | 0.9 1.2 1.1 1.5 0.3 | 1.9 1.1 1.4 1.4 1.6 1.5 | 0.4 0.9 0.9 0.4 0.6 | 2.4 2.4 2.4 2.6 2.0 2.3 | 1,467 1,530 1,566 1,594 2,069 8,225 | 1,853 1,261 1,263 1,398 2,907 8,682 |
| 50-59 Total 15-59 | na na | na na | na na | na na | na na | na na | 0.4 0.9 | 1.4 1.5 | 0.9 0.7 | 1.8 2.3 | 1,271 9,496 | 1,237 9,919 |

na = Not applicable

Note: Total includes 21 men with information missing on circumcision.

It is important for people experiencing symptoms of STIs to be able to recognise them and seek appropriate treatment. If respondents reported an STI or an STI symptom (i.e., discharge or sore or ulcer) in the past 12 months, they were asked questions about what they did about the illness or symptom. Figure 12.1 presents information on women and men who sought care from any source. Thirty-four percent, each, of women and men sought care for the STIs or symptoms of STIs from a clinic, hospital, or health professional. One percent of women and 6 percent of men sought advice or medicine from a shop, pharmacy, or drug vendor. Sixty-three percent of women and 56 percent of men who had STIs or STI symptoms in the 12 months preceding the survey did not seek any advice or treatment.

Figure 12.1 Women and Men Seeking Treatment for STIs



12.10 Prevalence of Medical Injections

The overuse of injections in a health care setting can contribute to the transmission of blood-borne pathogens because it amplifies the effect of unsafe practices, such as reuse of injection equipment. The proportion of injections given with reused injection equipment is an important indicator in an initiative to prevent and control HIV/AIDS. Table 12.15 presents data on the prevalence of injections among respondents. Interviewers asked respondents if they had received an injection in the past 12 months and, if so, the total number of injections and the number received from a health worker. Respondents who had received one or more injections from a health worker were then asked if their most recent injection from a health worker was given using a syringe from a new, unopened package. It should be noted that self-administered medical injections (e.g., insulin for diabetes) were not included in the calculation.

Women are more likely than men to report receiving medical injections (40 percent versus 24 percent). The percentage of women who received a medical injection in the past 12 months is highest among those age 20-39 (43-47 percent), most likely because of injections given to women during antenatal care or family planning visits. There is little difference among men's age cohorts. Women and men in rural areas (36 and 20 percent, respectively) are less likely than those in urban areas (51 and 36 percent, respectively) to have had a medical injection within the past 12 months. Among regions women in Gambela and Addis Ababa are most likely to have received a medical injection (59 and 57 percent, respectively), while women in Somali are the least likely (18 percent). Similarly, the proportion of men who received a medical injection in the past 12 months is highest in Addis Ababa (54 percent) and lowest in Somali (12 percent).

Percentage of women and men age 15-49 who received at least one medical injection in the past 12 months, the average number of medical injections per person in the past 12 months, and among those who received a medical injection, the percentage of last medical injections for which the syringe and needle were taken from a new, unopened package, by background characteristics, Ethiopia 2011 Table 12.15 Prevalence of medical injections

| | | | | Women | | | | | | | Men | | | |
|--|---|--|--|---|---|---|---|---|---|---|--|---|---|---|
| Background characteristic | Percentage who received a medical injection in the past 12 months | Average number of medical injections per person in the past 12 months | Weighted number of women | Unweighted number of women | For last injection, syringe and needle taken from a new, unopened package | Weighted number of women receiving medical injections in the past 12 months | Unweighted number of women receiving medical injections in the past 12 months | Percentage who received a medical injection in the past 12 months | Average number of medical injections per person in the past 12 months | Weighted number of men | Unweighted number of men | For last injection, syringe and needle taken from a new, unopened package | Weighted number of men receiving medical injections in the past 12 months | Unweighted number of men receiving medical injections in the past 12 months |
| Age 15-24 15-19 20-24 25-29 30-39 40-49 | 38.0 31.5 47.0 43.6 33.4 | £1114 £077.60 £00 | 6,940 4,009 2,931 3,147 3,971 2,457 | 6,857 3,835 3,022 3,185 4,058 2,415 | 99 99 99 99 99 99 99 99 99 99 99 99 94 96 95 97 97 97 97 97 97 97 97 97 97 97 97 97 | 2,638 1,262 1,376 1,699 820 | 2,571 1,223 1,348 1,320 1,605 770 | 22.9 24.7 25.2 24.5 23.7 | 00 0%0'd'&'& | 5,332 3,013 2,319 2,297 3,132 2,074 | 5,162 2,832 2,330 3,274 3,261 2,171 | 97.3 96.2 98.5 97.6 98.1 | 1,220 647 573 578 766 792 | 1,386 726 660 640 862 572 |
| Marital status Never married Ever had sex Never had sex Married/living together Divorced/separated/widowed | 31.7 47.8 30.4 44.1 32.4 | 0.4.0.4.1 0.80.0.0.7. | 4,469 344 4,126 10,287 1,758 | 4,413 489 3,924 10,204 1,898 | 98.2 98.3 97.4 96.0 | 1,418 1,254 4,541 570 | 1,449 245 1,204 4,191 626 | 23.7 22.2 24.0 20.6 | 0+0+0 0:6:0:4:0 | 5,600 1,044 4,555 6,872 363 | 5,641 1,492 4,149 6,775 452 | 97.2 98.6 96.8 98.1 | 1,330 319 1,011 75 | 1,584 507 1,077 1,756 120 |
| Residence Urban Rural | 51.1 35.9 | 2.3 | 3,947 12,568 | 5,329 11,186 | 98.3 97.1 | 2,016 4,514 | 2,557 3,709 | 35.8 20.3 | 4:L 6: | 2,882 9,952 | 3,915 8,953 | 98.9 97.0 | 1,031 | 1,479 1,981 |
| Region Tigay Affar Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa | 26.04 26.04 27.75 27.75 20.05 | | 1,104 1,455 1,433 6,011 3,236 69 69 896 69 | 2,728 2,129 2,138 2,138 1,259 1,17 1,130 1,095 | 97.09.09.09.09.09.09.09.09.09.09.09.09.09. | 2,48 3,42 2,498 2,498 61 7,163 1,163 1,163 213 | 688 290 763 763 160 494 700 700 982 983 357 | 2612 2612 2612 2612 2613 2613 2613 2613 | 0-0 | 2, 3, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, | 235 910 1,739 1,550 1,550 885 865 865 845 845 | 70099999999999999999999999999999999999 | 166 266 621, 152 30 84 23 23 23 370 16 | 260 209 209 444 382 284 284 237 |
| Education No education Primary Secondary More than secondary | 35.8 40.7 51.0 55.4 | 2.2 2.2 2.2 2.2 | 8,394 6,276 1,117 728 | 8,278 5,858 1,395 984 | 96.3 99.5 99.5 | 3,005 2,552 570 403 | 2,627 2,451 685 503 | 17.2 23.5 33.8 38.6 | 0 0 | 3,785 6,813 1,296 940 | 3,659 6,334 1,565 1,310 | 97.1 97.1 99.0 99.1 | 652 1,603 438 362 | 693 1,687 581 499 |
| Wealth quintile Lowest Second Middle Fourth Highest Total 15-49 | 27.7 32.9 35.5 35.5 44.2 52.0 39.5 na | 1.1.1.1.2 1.0.0 1. | 2,986 3,041 3,2031 4,242 16,515 | 3,711 2,402 2,268 2,505 5,629 16,515 na | 95.4 96.6 96.9 98.3 98.4 97.5 | 826 1,001 1,077 1,422 2,204 6,530 | 901 760 790 1,068 2,747 6,266 | 13.8 24.12 36.6 23.8 26.7 | 00 | 2,145 2,362 2,454 3,194 12,834 1,276 | 2,563 1,891 2,203 4,276 12,868 1,242 | 96.5 94.9 97.3 97.4 99.1 | 296 416 521 654 1,170 3,056 340 | 401 386 444 613 1,616 3,460 327 |
| Total 15-59 | na | na | na | na | na | na | na | 24.1 | 1.1 | 14,110 | 14,110 | 97.5 | 3,396 | 3,787 |

na = Not applicable Note: Medical injections are those given by a doctor, nurse, pharmacist, dentist, or other health worker. The great majority of recent medical injections received by women and men (both 98 percent) were given with a syringe taken from a newly opened package. Variation by sociodemographic characteristics is minimal, indicating that use of single-use disposable syringes is approaching universal levels.

12.11 HIV/AIDS KNOWLEDGE AND SEXUAL BEHAVIOUR AMONG YOUTH

This section addresses HIV/AIDS-related knowledge and sexual behaviour among youth, age 15-24. The period between the initiation of sexual activity and marriage is often a time of sexual experimentation and may involve risky behaviours. Comprehensive knowledge among youth of HIV/AIDS transmission and prevention as well as knowledge of where to obtain condoms is analysed below. Issues such as age at first sex, age difference between partners, sex related to alcohol use, and voluntary counselling and testing for HIV also are covered in this section.

12.11.1 HIV/AIDS-Related Knowledge Among Young Adults

Knowledge of how HIV is transmitted is crucial to enable people to avoid HIV infection, especially for young people, who are often at greater risk because they may have shorter relationships and thus more partners or may engage in other risky behaviours.

Table 12.16 shows the level of comprehensive knowledge about AIDS among young people, measured by their responses to prompted questions. As discussed, comprehensive knowledge is defined as: (1) one's knowledge that people can reduce their chances of getting the AIDS virus by having sex with only one uninfected, faithful partner and by using condoms consistently; (2) knowing that a healthy-looking person can have HIV; and (3) knowing that HIV cannot be transmitted by mosquito bites or by supernatural means. About one-fourth of women (24 percent) and one-third of men (34 percent) age 15-24 have comprehensive knowledge about AIDS. Never-married young adults who have ever had sex (41 percent of women and 44 percent of men) are the most likely to have comprehensive knowledge about AIDS. Urban youth (38 percent of women and 49 percent of men) are more likely than rural youth (19 percent of women and 30 percent of men) to have comprehensive AIDS knowledge. The level of knowledge increases steadily with education. For example, 7 percent of young women with no education have comprehensive knowledge about AIDS, compared with 54 percent of young women with more than secondary education.

Table 12.16 Comprehensive knowledge about AIDS and knowledge of a source of condoms among young people

Percentage of young women and young men age 15-24 with comprehensive knowledge about AIDS and percentage with knowledge of a source of condoms, by background characteristics, Ethiopia 2011

| | Wome | en | | | Men | | |
|---|---|--|---|---|--|--|--|
| Percentage with comprehensive knowledge of AIDS | Percentage who know a condom source ² | Weighted number of women | Unweighted number of women | Percentage with comprehensive knowledge of AIDS | Percentage who know a condom source ² | Weighted number of men | Unweighted number of men |
| 24.0 23.5 24.9 23.6 22.9 25.1 | 40.8 40.1 41.8 45.1 45.4 44.5 | 4,009 2,454 1,555 2,931 1,954 977 | 3,835 2,341 1,494 3,022 2,020 1,002 | 31.8 30.7 33.6 37.4 34.3 43.4 | 69.4 64.6 77.2 79.3 75.5 86.9 | 3,013 1,870 1,144 2,319 1,543 776 | 2,832 1,726 1,106 2,330 1,522 808 |
| 28.9 40.5 28.3 16.8 | 50.1 85.7 48.1 32.3 | 4,022 219 3,803 2,918 | 3,866 285 3,581 2,991 | 35.5 44.0 34.2 26.1 | 74.8 93.4 72.0 66.8 | 4,622 587 4,035 710 | 4,446 804 3,642 716 |
| 37.7 18.7 | 75.8 30.3 | 1,877 5,063 | 2,448 4,409 | 49.0 29.8 | 95.0 67.4 | 1,218 4,114 | 1,561 3,601 |
| 7.0 25.1 42.3 53.5 | 12.5 44.7 78.2 92.5 | 1,809 3,988 750 393 | 1,913 3,652 786 506 | 11.9 33.7 51.7 57.0 | 43.9 73.8 95.7 98.8 | 803 3,497 712 320 | 765 3,178 751 468 5,162 |
| | comprehensive knowledge of AIDS 24.0 23.5 24.9 23.6 22.9 25.1 28.9 40.5 28.3 16.8 37.7 18.7 7.0 25.1 42.3 | Percentage with comprehensive knowledge of AIDS | comprehensive knowledge of AIDS who know a condom source ² Weighted number of women 24.0 40.8 4,009 23.5 40.1 2,454 24.9 41.8 1,555 23.6 45.1 2,931 22.9 45.4 1,954 25.1 44.5 977 28.9 50.1 4,022 40.5 85.7 219 28.3 48.1 3,803 16.8 32.3 2,918 37.7 75.8 1,877 18.7 30.3 5,063 7.0 12.5 1,809 25.1 44.7 3,988 42.3 78.2 750 53.5 92.5 393 | Percentage with comprehensive knowledge of AIDS | Percentage with comprehensive knowledge of AIDS¹ Percentage who know a condom source² Weighted number of women Unweighted number of women Percentage with comprehensive knowledge of AIDS¹ 24.0 40.8 4,009 3,835 31.8 23.5 40.1 2,454 2,341 30.7 24.9 41.8 1,555 1,494 33.6 23.6 45.1 2,931 3,022 37.4 22.9 45.4 1,954 2,020 34.3 25.1 44.5 977 1,002 43.4 28.9 50.1 4,022 3,866 35.5 40.5 85.7 219 285 44.0 28.3 48.1 3,803 3,581 34.2 16.8 32.3 2,918 2,991 26.1 37.7 75.8 1,877 2,448 49.0 18.7 30.3 5,063 4,409 29.8 7.0 12.5 1,809 1,913 11.9 25.1 44.7 | Percentage with comprehensive knowledge of AIDS¹ Percentage who know a condom number of women Unweighted number of women Percentage with comprehensive knowledge of AIDS¹ Percentage who know a condom source² 24.0 40.8 4,009 3,835 31.8 69.4 23.5 40.1 2,454 2,341 30.7 64.6 24.9 41.8 1,555 1,494 33.6 77.2 23.6 45.1 2,931 3,022 37.4 79.3 22.9 45.4 1,954 2,020 34.3 75.5 25.1 44.5 977 1,002 43.4 86.9 28.9 50.1 4,022 3,866 35.5 74.8 40.5 85.7 219 285 44.0 93.4 28.3 48.1 3,803 3,581 34.2 72.0 16.8 32.3 2,918 2,991 26.1 66.8 37.7 75.8 1,877 2,448 49.0 95.0 18.7 30.3 | Percentage with comprehensive knowledge of AIDS Percentage who know a condom source Percentage with number of women Percentage with comprehensive knowledge of AIDS Percentage with comprehensive knowledge of AIDS Percentage with condom source Percentage with condom source Percentage with know a condom source Percentage with knowledge of AIDS Percentage with condom Percentage with condom Percentage with condom Percentage with knowledge of AIDS Percentage with condom Percentage with condom |

¹ Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting the AIDS virus, knowing that a healthy-looking person can have the AIDS virus, and rejecting the two most common local misconceptions about transmission or prevention of the AIDS virus. The components of comprehensive knowledge are presented in Tables 12.2, 12.3.1, and 12.3.2. ² For this table the following responses are not considered sources for condoms: friends, family members, and home.

Because of the important role that condoms play in combating the transmission of HIV, respondents were asked if they knew where condoms could be obtained. Only responses about 'formal' sources were counted; friends, family members, and home were not included. As shown in Table 12.16, young men are more likely than young women to know where to obtain condoms (74 percent versus 43 percent). Young women and men in urban areas are more likely than those in rural areas to know a source of condoms. Consistent with patterns for other indicators, respondents with more education are more likely than those with no or little education to know a source of condoms.

12.11.2 Age at First Sexual Intercourse

Age at first sex is an important indicator of both exposure to the risk of pregnancy and exposure to STIs. Young people who initiate sex at an early age face a higher risk of becoming pregnant or contracting an STI than young people who delay initiation of sexual activity. Consistent use of condoms reduces these risks. Table 12.17 shows the proportions of women and men age 15-24 who had sex before age 15 and before age 18.

Eleven percent of young women and 1 percent of young men had had sexual intercourse before age 15; 39 percent of young women and 13 percent of young men had had sex before age 18. Among young women the older age cohorts are more likely to have had sex before age 15 or age 18 than those who reached those age milestones more recently. Ever-married young women are much more likely than never-married young women to have had sexual intercourse before age 15 or 18. Twenty-six and 64 percent of ever-married young women had sexual intercourse before age 15 and 18, respectively, compared with less than 1 percent and 3 percent, respectively, of never-married women. Among young women a higher proportion of rural residents have had sex before age 15 and

before age 18 than their urban counterparts. Education has an inverse relationship with sexual debut. Young women with no schooling are considerably more likely than those who go to school to have had sex by age 15 (26 percent compared with 7 percent or less). Variation in young men's sexual debut across background characteristics are small, except for variation associated with marital status. Like women, ever-married young men are much more likely than never-married men to have had sexual intercourse before age 18.

Table 12.17 Age at first sexual intercourse among young people

Percentage of young women and of young men age 15-24 who had sexual intercourse before age 15 and percentage of young women and of young men age 18-24 who had sexual intercourse before age 18, by background characteristics, Ethiopia 2011

| | | | Women | nen | | | | | 2 | Men | | |
|---|--|--------------------------------|----------------------------------|--|--------------------------------|----------------------------------|--|------------------------------|--------------------------------|---|------------------------------|--------------------------------|
| | Mc | Women age 15-24 | 24 | Mc | Women age 18-24 | 24 | 2 | Men age 15-24 | 24 | V | Men age 18-24 | |
| Background characteristic | Percentage who had sexual intercourse before age 15 | Weighted number of women | Unweighted number of women | Percentage who had sexual intercourse before age 18 | Weighted number of women | Unweighted number of women | Percentage who had sexual intercourse before age 15 | Weighted number of men | Unweighted number of men | Percentage who had sexual intercourse before age 18 | Weighted number of men | Unweighted number of men |
| Age 15-19 15-17 18-19 | 7.1 5.7 9.4 | 4,009 2,454 1.555 | 3,835 2,341 1,494 | na na 32.2 | na na 1.555 | na na 1,494 | 1.2 1.5 0.7 | 3,013 1,870 1,144 | 2,832 1,726 1.106 | na 10.8 | na 1.144 | na na 1.106 |
| 20-24 20-22 23-24 | 16.0 14.9 18.3 | 2,931 1,954 977 | 3,022 2,020 1,002 | 42.2 41.3 43.9 | 2,931 1,954 977 | 3,022 2,020 1,002 | £ 5 £ | 2,319 1,543 776 | 2,330 1,522 808 | 14.0 13.9 14.2 | 2,319 1,543 776 | 2,330 1,522 808 |
| Marital status Never married Ever married | 0.3 25.5 | 4,022 2,918 | 3,866 2,991 | 3.4 64.1 | 1,877 2,609 | 1,858 2,658 | 1.0 3.0 | 4,622 710 | 4,446 716 | 8.6 30.4 | 2,768 694 | 2,736 700 |
| Knows condom source ¹ Yes No | 6.0 14.5 | 2,958 3,982 | 3,191 3,666 | 27.1 47.8 | 1,973 2,513 | 2,195 2,321 | 4.1 6.0 | 3,930 1,402 | 3,849 1,313 | 13.3 11.5 | 2,722 740 | 2,731 705 |
| Residence Urban Rural | 5.8 8.8 | 1,877 5,063 | 2,448 4,409 | 24.0 44.6 | 1,287 3,199 | 1,720 2,796 | 0.0 4.1 | 1,218 4,114 | 1,561 3,601 | 12.6 13.0 | 853 2,609 | 1,157 2,279 |
| Education No education Primary Secondary More than secondary | 26.2 6.6 1.5 2.1 | 1,809 3,988 750 393 | 1,913 3,652 786 506 | 61.5 33.5 17.4 9.5 | 1,488 2,042 589 367 | 1,512 1,938 592 474 | | 803 3,497 712 320 | 765 3,178 751 468 | 6.5 6.6 6.0 6.0 7.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8 | 563 2,006 590 303 | 541 1,823 617 455 |
| Total | 10.9 | 6,940 | 6,857 | 38.7 | 4,486 | 4,516 | 1.2 | 5,332 | 5,162 | 12.9 | 3,462 | 3,436 |

na = Not applicable [†] For this table the following responses are not considered a source for condoms: friends, family members, and home.

The percentages of young women who have had sexual intercourse before ages 15 and 18 have decreased somewhat since the 2005 EDHS, while the percentages among young men have remained almost the same (Figure 12.2).

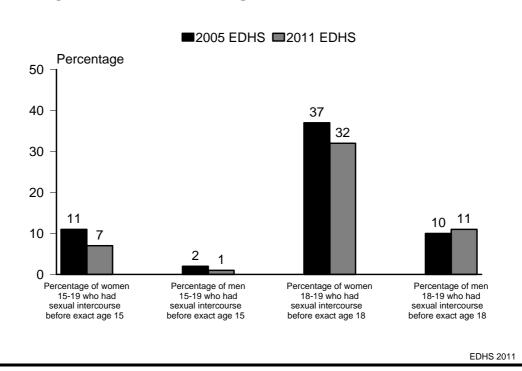


Figure 12.2 Trends in Age at First Sexual Intercourse

12.11.3 Abstinence and Premarital Sex

The period between age at first sex and age at marriage is often a time of sexual experimentation. Unfortunately, in the era of HIV/AIDS, it can also be a risky time. HIV control programmes advocate consistent condom use to reduce the risk of sexual transmission of HIV. Table 12.18 presents information on premarital sexual intercourse and condom use among never-married Ethiopian youth, age 15-24.

Ninety-five percent of never-married young women and 87 percent of never-married young men have never had sexual intercourse. Abstinence rates are highest among the youngest respondents (age 15-17), those that do not know a condom source, and rural and less educated young respondents. Conversely, a higher percentage of respondents age 23-24, those living in urban areas, those that know a condom source, and respondents with more than secondary education report that they had sexual intercourse in the past 12 months.

Overall, 4 percent of never-married young women and 8 percent of never-married young men had sex in the past 12 months. Among those who had sex in the past year, 37 percent of women and 68 percent of men reported using a condom during their last sexual intercourse. Due to the small number of women who report having had sex in the past year and using a condom at last sex, caution should be used when interpreting these data by background characteristics. Among men condom use is higher among urban than rural respondents and increases with education.

Table 12.18 Premarital sexual intercourse and condom use during premarital sexual intercourse among youth

Among never-married women and men age 15-24, the percentage who have never had sexual intercourse, the percentage who had sexual intercourse in the past 12 months, and, among those who had premarital sexual intercourse in the past 12 months, the percentage who used a condom at the last sexual intercourse, by background characteristics, Ethiopia 2011

| | | | ' | | | | | | | | | | | |
|------------------------------|--|--|--|--|---|---|----------------------------------|--|--|--|--|---|---|--------------------------------|
| | | | Never-married wo | ried women ag | men age 15-24 | | | | | Never-m | Never-married men age 15-24 | ige 15-24 | | |
| | | Percentage | | | Among wintercourse | Among women who had sexual intercourse in the past 12 months: | ad sexual 2 months: | | Percentage | | | Among r intercourse | Among men who had sexual intercourse in the past 12 months: | sexual 2 months: |
| Background characteristic | Percentage who have never had sexual intercourse | who had sexual intercourse in the past 12 months | Weighted number of never married women | Unweighted number of never married women | Percentage who used a condom at last sexual intercourse | Weighted number of women | Unweighted number of women | Percentage who have never had sexual intercourse | who had sexual intercourse in the past 12 months | Weighted number of never married men | Unweighted number of never married men | Percentage who used a condom at last sexual intercourse | Weighted number of men | Unweighted number of men |
| Age 15-19 | 97.3 | 1.9 | 3,087 | 2,887 | 45.5 | 58 | 98 | 93.8 | 3.8 | 2,941 | 2,753 | 6.09 | 111 | 185 |
| 15-17 | 98.5 | 1.0 | 2,146 | 2,008 | (65.7) | 21 | 42 | 96.4 | 2.5 | 1,854 | 1,710 | 44.6 | 47 | 73 |
| 18-19 | 94.5 | 4.0 | 941 | 879 | (34.1) | 37 | 4 | 89.3 | 5.9 | 1,087 | 1,043 | 72.9 | 64 | 112 |
| 20-24 | 85.4 | 9.5 | 932 | 626 | 30.9 | 98 | 114 | 76.0 | 14.7 | 1,681 | 1,693 | 71.3 | 248 | 351 |
| 20-22 | 86.8 | 8.5 | 714 | 726 | 37.3 | 61 | 74 | 80.2 | 11.6 | 1,206 | 1,191 | 70.3 | 140 | 203 |
| 23-24 | 81.2 | 11.5 | 221 | 253 | (15.7) | 56 | 40 | 65.3 | 22.7 | 474 | 205 | 72.6 | 108 | 148 |
| Knows condom source | 1 | C | 9 | (| c c | 0 | 1 | | | , , | c c | 0 | Ĺ | Š |
| v es N | 90.7 7.86 | უ თ 0 C | 2,016 | 2,119 1,747 | 39.Y | 178 | 176 24 | 84.1 96.7 | 0.0 | 3,455 | 3,358 1,088 | 79.0 | 345 5 45 | 4 4 7 7 |
| Residence | | 3 |)) Î | : | | : | i | ; | ! | 5 | | | : | ļ |
| Urban | 89.6 | 6.4 4.0 | 1,366 | 1,769 | 39.2 | 87 | 137 | 79.1 | 12.6 | 1,152 | 1,453 | 83.9 | 145 214 | 257 279 |
| Fdication | ; | i i | j j | i | 1 | 5 | 3 | 2 | į | 5 | | | - - 1 | i |
| No education | 97.3 | 1.2 | 414 | 504 | * | 2 | o | 93.5 | 4.2 | 584 | 575 | (26.8) | 24 | 48 |
| Primary | 96.4 | 2.4 | 2,755 | 2,374 | 47.9 | 99 | 104 | 6.68 | 5.8 | 3,074 | 2,761 | 61.4 | 179 | 262 |
| Secondary More than | 92.2 | 5.2 | 269 | 262 | (27.9) | 53 | 36 | 81.7 | 12.0 | 699 | 989 | 77.0 | 80 | 121 |
| secondary | 77.4 | 15.7 | 285 | 391 | (26.3) | 45 | 51 | 60.1 | 25.6 | 295 | 424 | 87.9 | 75 | 105 |
| Total | 94.6 | 3.6 | 4,022 | 3,866 | 36.8 | 145 | 200 | 87.3 | 7.8 | 4,622 | 4,446 | 68.1 | 359 | 536 |

¹ For this table the following responses are not considered a source for condoms: friends, family members, and home.

The proportion of never-married young men, age 15-24, who used a condom at their last sexual intercourse has increased since the 2005 EDHS from 50 percent to 68 percent.

12.11.4 Multiple Partnerships Among Young Adults

Table 12.19.1 and Table 12.19.2 present information on young people, age 15-24, who had two or more sexual partners during the 12 months preceding the survey and, among those with two or more partners, those who used a condom during last sex.

Table 12.19.1 shows that less than 1 percent of women age 15-24 had sexual intercourse with more than one partner in the past 12 months. Due to the small percentages, there is no variation in the prevalence of multiple partners by background characteristics. Among women age 15-24 who reported two or more sexual partners in the past 12 months, 62 percent reported using a condom at last intercourse (data not shown).

Table 12.19.2 shows that 1 percent of men age 15-24 had sexual intercourse with two or more partners in the past 12 months. Again, due to the small percentages, the variation by background characteristics is not notable. Among young men who had one or more partners in the past year, 47 percent reported using a condom at last sexual intercourse.

<u>Table 12.19.1 Multiple sexual partners in the past 12 months among young people:</u>
Women

Percentage of young women age 15-24 who had sexual intercourse with more than one sexual partner in the past 12 months, by background characteristics, Ethiopia 2011

| | Percentage who | | |
|----------------------------------|-----------------|----------|------------|
| | had 2+ partners | Weighted | Unweighted |
| Background | in the past | number | number |
| characteristic | 12 months | of women | of women |
| Age | | | |
| 15-19 | 0.3 | 4,009 | 3,835 |
| 15-17 | 0.3 | 2,454 | 2,341 |
| 18-19 | 0.5 | 1,555 | 1,494 |
| 20-24 | 0.6 | 2,931 | 3,022 |
| 20-22 | 0.8 | 1,954 | 2,020 |
| 23-24 | 0.1 | 977 | 1,002 |
| | 0 | · · · | .,002 |
| Marital status | | 4 000 | |
| Never married | 0.3 | 4,022 | 3,866 |
| Ever married | 0.6 | 2,918 | 2,991 |
| Knows condom source ¹ | | | |
| Yes | 0.7 | 2,958 | 3,191 |
| No | 0.1 | 3,982 | 3,666 |
| Residence | | | |
| Urban | 0.7 | 1,877 | 2,448 |
| Rural | 0.3 | 5,063 | 4,409 |
| E Lordon | | -, | ., |
| Education | 0.4 | 4 000 | 4.040 |
| No education | 0.4 | 1,809 | 1,913 |
| Primary | 0.5 | 3,988 | 3,652 |
| Secondary | 0.0 | 750 | 786 |
| More than secondary | 0.0 | 393 | 506 |
| Total 15-24 | 0.4 | 6,940 | 6,857 |

¹ For this table the following responses are not considered a source for condoms: friends, family members, and home.

Table 12.19.2 Multiple sexual partners in the past 12 months among young people: Men

Among all young men age 15-24, the percentage who had sexual intercourse with more than one sexual partner in the past 12 months and, among those having more than one partner in the past 12 months, the percentage reporting that a condom was used at last intercourse, by background characteristics, Ethiopia 2011

| | Among | g all men age | 15-24: | | nen age 15-24 rs in the past | |
|--|--|--|--|---|---------------------------------|----------------------------------|
| Background characteristic | Percentage who had 2+ partners in the past 12 months | Weighted number of men | Unweighted number of men | Percentage who reported using a condom at last intercourse | Weighted number of men | Unweighted number of men |
| Age 15-19 15-17 18-19 20-24 20-22 23-24 | 0.5 0.3 0.7 1.6 1.2 2.5 | 3,013 1,870 1,144 2,319 1,543 776 | 2,832 1,726 1,106 2,330 1,522 808 | * * 36.9 (26.1) (46.9) | 14 6 8 37 18 19 | 24 10 14 73 38 35 |
| Marital status Never married Ever married | 0.8 1.9 | 4,622 710 | 4,446 716 | 60.6 | 38 13 | 73 24 |
| Knows condom source ¹ Yes No | 1.2 0.3 | 3,930 1,402 | 3,849 1,313 | 51.3 * | 48 4 | 88 9 |
| Residence Urban Rural | 2.0 0.7 | 1,218 4,114 | 1,561 3,601 | (81.3) 15.8 | 25 27 | 47 50 |
| Education No education Primary Secondary More than secondary | 1.0 0.7 1.4 2.5 | 803 3,497 712 320 | 765 3,178 751 468 | (27.1) (93.6) | 8 25 10 8 | 14 43 27 13 |
| Total 15-24 | 1.0 | 5,332 | 5,162 | 47.2 | 52 | 97 |

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

12.11.5 Age-mixing in Sexual Relationships

In many societies young women have sexual relationships with men who are considerably older than they are. This practice can contribute to the spread of HIV and other STIs because older men are more likely to have been exposed to these diseases. Also, using preventive strategies, such as negotiating safer sex, is more difficult when a woman's partner is much older. To examine agemixing, the 2011 EDHS asked respondents who had had sex in the 12 months preceding the survey to give their partner's age. The results are presented in Table 12.20.

Overall, 21 percent of women age 15-19 who had sexual intercourse in the past 12 months had sex with a man ten or more years older than they were. Very few young men, less than 1 percent, had sex with women who were ten or more years older. Age-mixing in sexual relationships varies little by background characteristics. Young women age 15-17, those who ever married, women in urban areas, and those with primary or no education are more likely than other women to have had sex with a man ten years or more older than they are.

¹ For this table the following responses are not considered a source for condoms: friends, family members, and home.

Table 12.20 Age-mixing in sexual relationships among women and men age 15-19

Among women and men 15-19 who had sexual intercourse in the past 12 months, percentage who had sexual intercourse with a partner who was 10 or more years older than they, by background characteristics, Ethiopia 2011

| | | 15-19 who hase in the past 1 | | | ho had sexua e past 12 mo | |
|--|--|--------------------------------|----------------------------------|--|------------------------------|--------------------------------|
| Background characteristic | Percentage who had sexual intercourse with a man 10+ years older | Weighted number of women | Unweighted number of women | Percentage who had sexual intercourse with a woman 10+ years older | Weighted number of men | Unweighted number of men |
| Age 15-17 18-19 | 24.6 19.4 | 277 587 | 319 590 | 0.2 0.1 | 50 110 | 79 164 |
| Marital status Never married Ever married | 7.2 22.1 | 58 806 | 86 823 | 0.2 0.0 | 111 48 | 185 58 |
| Knows condom source ¹ Yes No | 18.8 21.9 | 240 625 | 301 608 | 0.1 (0.4) | 138 22 | 202 41 |
| Residence Urban Rural | 23.5 20.7 | 121 743 | 163 746 | 0.0 0.2 | 44 115 | 77 166 |
| Education No education Primary Secondary More than secondary | 21.4 21.9 16.6 * | 356 446 48 14 | 355 494 50 10 | 0.1 (0.0) | 6 120 25 8 | 15 176 42 10 |
| Total | 21.1 | 865 | 909 | 0.1 | 159 | 243 |

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

¹ For this table the following responses are not considered a source for condoms: friends, family members, and home.

12.11.6 Recent HIV Testing Among Youth

Knowledge of one's HIV serostatus can motivate a person to protect himself/herself or to practise safer sexual behaviour to avoid transmitting the virus to others. It is particularly important to measure the coverage of HIV testing among youths, not only because of their vulnerability, but also because they in particular may encounter obstacles to counselling and testing. The 2011 EDHS asked respondents age 15-24 who had had sexual intercourse in the past 12 month whether they had been tested for HIV and received their test results in the past 12 months. Table 12.21 shows these data.

Nationally, one in every four young women, age 15-24, (25 percent) and about three in every ten young men, age 15-24, (28 percent) who had had sexual intercourse in the past 12 months had been tested for HIV in the past 12 months and received the results of the test. These percentages reflect a dramatic increase since the 2005 EDHS, when 2 percent of young women and 6 percent of young men who had had sexual intercourse in the past 12 months had been tested for HIV and received results.

A large difference is observed in HIV testing by marital status for both young women and young men. For instance, 58 percent of never-married women were tested for HIV in the past 12 months and received their test results, compared with 23 percent of ever-married ones. This difference is less pronounced among young men (38 percent compared with 22 percent). Urban youth, those who know a condom source, and youth with secondary or higher education are much more likely than other youth to have been tested for HIV and received the results over the past 12 months.

Table 12.21 Recent HIV testing among youth

Among young women and young men age 15-24 who have had sexual intercourse in the past 12 months, the percentage who have had an HIV test in the past 12 months and received the results of the test, by background characteristics, Ethiopia 2011

| | | en age 15-24 vourse in the pa | who have had ast 12 months: | Among men age 15-24 who have had sexual intercourse in the past 12 months: | | | |
|------------------------------------|--|-------------------------------|-----------------------------|--|--------------------|----------------------|--|
| Background | Percentage who have been tested for HIV and received results in | Weighted number of | Unweighted number of | Percentage who have been tested for HIV and received results in | Weighted number | Unweighted number | |
| characteristic | the past 12 months | women | women | the past 12 months | of men | of men | |
| Age | | | | | | | |
| 15-19 | 23.9 | 865 | 909 | 26.9 | 159 | 243 | |
| 15-17 | 21.4 | 277 | 319 | 29.4 | 50 | 79 | |
| 18-19 | 25.1 | 587 | 590 | 25.8 | 110 | 164 | |
| 20-24 | 25.7 24.0 | 1,914 | 1,916 | 28.0 23.2 | 846 | 947 513 | |
| 20-22 23-24 | 24.0 28.6 | 1,190 724 | 1,215 701 | 33.4 | 454 392 | 434 | |
| Marital status | | | | | | | |
| Never married Ever married | 58.4 23.3 | 145 2,634 | 200 2,625 | 37.7 22.3 | 359 647 | 536 654 | |
| Knows condom source ¹ | | | | | | | |
| Yes | 45.1 | 968 | 1,109 | 32.5 | 784 | 950 | |
| No | 14.5 | 1,810 | 1,716 | 11.3 | 221 | 240 | |
| Residence Urban Rural | 57.8 17.3 | 539 2,239 | 719 2,106 | 42.6 23.9 | 210 796 | 357 833 | |
| Education | | | | | | | |
| No education | 10.4 | 1,272 | 1,260 | 20.5 | 218 | 216 | |
| Primary Secondary | 32.3 55.0 | 1,180 183 | 1,215 195 | 20.9 56.0 | 566 123 | 646 182 | |
| More than secondary | 59.5 | 144 | 155 | 48.9 | 98 | 146 | |
| Total | 25.2 | 2,778 | 2,825 | 27.8 | 1,006 | 1,190 | |

¹ For this table the following responses are not considered a source for condoms: friends, family members, and home.

12.12 Use of Alcohol or Chat During Sexual Intercourse

Sexual intercourse when one or both partners are under the influence of alcohol is risky because the couple may not be fully aware of their actions, which may lead to failure to use a condom. All eligible women and men who have ever had sex were asked if they or their partner drank alcohol or chewed chat the last time they had sexual intercourse in the past 12 months.

Tables 12.22.1 and Table 12.22.2 show that 1 percent of women and 4 percent of men age 15-49 drank alcohol the last time that they had sex in the past 12 months. By comparison, 5 percent of women chewed chat the last time that they had sex during the past 12 months as did 17 percent of men. Chat chewing is more common among ever-married respondents, those who live in rural areas, and respondents in Harari and Dire Dawa. For both women and men, chat use at last sexual intercourse tends to decrease with an increase in education. The relationship between chat use at last sex and wealth does not reveal a clear pattern.

Table 12.22.1 Use of alcohol and/or chat at last sexual intercourse: Women

Percentage of women age 15-49 who drank alcohol or chewed chat the last time they had sexual intercourse in the past 12 months, by background characteristics, Ethiopia 2011

| Background characteristic | Percentage who drank alcohol at last sexual intercourse | Percentage who report sexual partner drank alcohol at last sexual intercourse | Percentage who chewed chat ¹ at last sexual intercourse | Percentage who report sexual partner chewed chat ¹ at last sexual intercourse | Weighted number of women | Unweighted number of women |
|---|---|---|--|--|---|---|
| Age 15-24 15-19 20-24 25-29 30-39 40-49 | 0.6 0.6 0.7 0.7 0.6 0.6 | 2.6 2.7 2.6 3.2 5.5 4.1 | 3.6 4.0 3.4 4.9 5.5 5.7 | 13.8 12.5 14.4 16.2 13.9 15.1 | 2,778 865 1,914 2,642 3,370 1,849 | 2,825 909 1,916 2,569 3,307 1,698 |
| Marital status Never married Married/living together Divorced/separated/ widowed | 1.6 0.5 2.6 | 5.4 3.6 9.7 | 2.3 5.0 4.6 | 7.1 14.9 13.2 | 202 9,935 503 | 300 9,601 498 |
| Residence Urban Rural | 0.8 0.6 | 4.6 3.8 | 3.5 5.2 | 10.3 15.7 | 2,025 8,615 | 2,682 7,717 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 1.0 0.3 0.3 0.8 0.0 1.7 0.7 7.0 0.7 0.4 | 2.4 0.4 1.5 5.1 1.3 3.6 6.4 18.1 2.2 2.2 | 0.3 4.0 1.8 9.5 5.1 0.3 2.4 4.8 26.6 0.8 20.4 | 1.1 16.6 3.6 27.1 41.9 2.4 8.2 16.2 69.7 5.8 62.4 | 678 99 2,908 4,024 227 124 2,064 46 29 400 40 | 1,071 912 1,393 1,420 641 902 1,316 679 665 746 654 |
| Education No education Primary Secondary More than secondary | 0.6 0.8 0.4 0.0 | 4.2 4.1 1.7 0.7 | 5.3 4.9 2.0 1.6 | 15.5 14.5 8.5 7.2 | 6,815 3,034 411 379 | 6,439 2,906 595 459 |
| Wealth quintile Lowest Second Middle Fourth Highest | 0.3 0.4 0.6 0.8 1.0 | 2.9 4.1 3.8 5.2 3.8 | 3.4 6.1 6.1 4.5 4.4 | 12.8 16.4 15.3 16.8 12.2 | 2,102 2,148 2,115 1,983 2,292 | 2,557 1,675 1,597 1,636 2,934 |
| Total | 0.6 | 3.9 | 4.9 | 14.6 | 10,640 | 10,399 |

¹ Refers to those who chewed chat any time during the day they had sexual intercourse.

Table 12.22.2 Use of alcohol and/or chat at last sexual intercourse: Men

Percentage of women age 15-49 who drank alcohol or chewed chat the last time they had sexual intercourse in the past 12 months, by background characteristics, Ethiopia 2011

| | Percentage | Percentage who report sexual | Percentage | Percentage who report sexual | | |
|-------------------------|-------------|------------------------------------|----------------------|------------------------------------|-----------|------------|
| | who drank | partner drank | | partner | | |
| | alcohol at | alcohol at | chat ¹ at | chewed chat ¹ | Weighted | Unweighted |
| Background | last sexual | last sexual | last sexual | at last sexual | number of | number of |
| characteristic | intercourse | intercourse | intercourse | intercourse | men | men |
| Ago | | | | | | |
| Age 15-24 | 3.1 | 1.3 | 14.7 | 1.8 | 1,006 | 1,190 |
| 15-19 | 2.6 | 2.4 | 16.5 | 6.3 | 159 | 243 |
| 20-24 | 3.2 | 1.1 | 14.3 | 1.0 | 846 | 947 |
| 25-29 | 3.2 4.0 | 0.5 | 16.0 | 3.4 | 1,684 | 1.652 |
| 30-39 | 3.3 | 0.3 | 17.3 | 2.8 | 2,876 | 2,872 |
| 40-49 | 3.8 | | 16.9 | 2.0 | | |
| 40-49 | 3.8 | 0.1 | 16.9 | 2.9 | 1,976 | 1,999 |
| Marital status | | | | | | |
| Never married | 5.4 | 2.8 | 11.0 | 3.0 | 602 | 924 |
| Married/living together | 3.1 | 0.2 | 17.0 | 2.8 | 6,765 | 6,590 |
| Divorced/separated/ | | | | | , | , |
| widowed ' | 13.1 | 1.8 | 18.9 | 2.8 | 175 | 199 |
| Danislanas | | | | | | |
| Residence | 0.4 | 0.0 | 40.0 | 4.5 | 4.550 | 0.454 |
| Urban | 3.4 | 0.9 | 12.6 | 1.5 | 1,559 | 2,154 |
| Rural | 3.6 | 0.3 | 17.6 | 3.2 | 5,984 | 5,559 |
| Region | | | | | | |
| Tigray | 2.5 | 0.8 | 1.2 | 0.3 | 447 | 719 |
| Affar | 3.0 | 1.4 | 19.4 | 3.1 | 66 | 613 |
| Amhara | 2.1 | 0.5 | 2.7 | 0.5 | 1,978 | 993 |
| Oromiya | 4.3 | 0.4 | 30.5 | 5.9 | 2,976 | 1,135 |
| Somali | 0.0 | 0.0 | 38.6 | 2.3 | 149 | 401 |
| Benishangul-Gumuz | 2.8 | 0.2 | 2.8 | 0.0 | 87 | 657 |
| SNNP | 4.8 | 0.3 | 9.4 | 0.8 | 1,370 | 925 |
| Gambela | 8.3 | 4.7 | 16.1 | 2.5 | 37 | 561 |
| Harari | 3.9 | 1.4 | 74.6 | 13.5 | 24 | 531 |
| Addis Ababa | 3.0 | 0.7 | 9.5 | 1.0 | 376 | 671 |
| Dire Dawa | 2.2 | 1.6 | 67.0 | 14.2 | 31 | 507 |
| | 2.2 | 1.0 | 07.0 | 17.2 | 01 | 301 |
| Education | | | | | | |
| No education | 3.1 | 0.3 | 17.2 | 3.7 | 2,957 | 2,818 |
| Primary | 4.3 | 0.3 | 17.9 | 2.5 | 3,503 | 3,389 |
| Secondary | 1.8 | 0.9 | 13.4 | 2.2 | 527 | 755 |
| More than secondary | 2.6 | 1.4 | 7.6 | 1.5 | 555 | 751 |
| Wealth quintile | | | | | | |
| Lowest | 3.1 | 0.3 | 13.4 | 3.1 | 1,402 | 1,719 |
| Second | 3.8 | 0.3 | 17.3 | 3.7 | 1,462 | 1,176 |
| Middle | 3.9 | 0.4 | 18.2 | 2.7 | 1,472 | 1,181 |
| Fourth | 3.7 | 0.2 | 19.6 | 2.3 | 1,453 | 1,268 |
| Highest | 3.2 | 0.8 | 14.6 | 2.6 | 1,753 | 2,369 |
| · · | | | | | | |
| Total 15-49 | 3.5 | 0.4 | 16.6 | 2.9 | 7,542 | 7,713 |
| 50-59 | 5.6 | 0.3 | 14.0 | 3.6 | 1,172 | 1,110 |
| Total 15-59 | 3.8 | 0.4 | 16.2 | 3.0 | 8,714 | 8,823 |
| | | | | | -, | -, |

¹ Refers to those who chewed chat any time during the day they had sexual intercourse.

12.13 Sharing of HIV Test Results among Couples

Sharing of HIV test results among couples is important. Partners can support each other in cases where one or both of them are HIV positive. When one of the partners is positive, measures can be taken to prevent the other one from being infected. When they are both HIV negative, this knowledge encourages them to practise safe sex in order to remain HIV negative.

Currently married women and men age 15-49 who were ever tested for HIV and received the result of the last HIV test were asked whether they had shared these results with their partner. Table 12.23 shows that currently married men were slightly more likely than currently married women to have been tested and to have shared their HIV test results with their partners (36 percent versus 32 percent). Respondents in urban areas were much more likely (66 percent of women and 59 percent of men) to have been tested and to have shared their HIV test results with their partners than those in rural areas (24 and 31 percent, respectively). Among regions women and men residing in Addis

Ababa (81 and 70 percent, respectively) were the most likely to have been tested and to have shared their results with their partners. Sharing of HIV results among couples increases with education and wealth.

Overall, 2 percent of women and 3 percent of men were tested for HIV and received their results but did not share them with their partners.

Table 12.23 Sharing of HIV test results among couples

Among currently married women and men age 15-49, percentage who have received the results of the last HIV test, by whether they shared the results of their last HIV test with their spouse, according to background characteristics, Ethiopia 2011

| | | Won | nen | | Men | | | | |
|------------------------------|--|---|--------------------------------|----------------------------------|--|---|------------------------------|--------------------------------|--|
| Background characteristic | Ever tested, received results, and shared with partner | Ever tested, received results, and did not share with partner | Weighted number of women | Unweighted number of women | Ever tested, received results, and shared with partner | Ever tested, received results, and did not share with partner | Weighted number of men | Unweighted number of men | |
| Age | | | | | | | | | |
| 15-24 | 37.5 | 1.4 | 2,527 | 2,572 | 33.1 | 2.1 | 647 | 641 | |
| 15-19 | 30.1 | 2.5 | 765 | 784 | 24.9 | 2.0 | 64 | 66 | |
| 20-24 | 40.7 | 0.9 | 1.762 | 1,788 | 34.0 | 2.1 | 583 | 575 | |
| 25-29 | 34.5 | 2.0 | 2,511 | 2,480 | 40.0 | 2.8 | 1,481 | 1,378 | |
| 30-39 | 30.6 | 2.8 | 3,311 | 3,322 | 35.8 | 2.9 | 2,790 | 2,762 | |
| 40-49 | 22.7 | 3.0 | 1,938 | 1,830 | 33.1 | 4.1 | 1,953 | 1,994 | |
| Residence | | | ., | ,,,,,, | | | ., | ., | |
| Urban | 65.5 | 3.5 | 1.843 | 2,422 | 59.4 | 3.4 | 1,235 | 1,580 | |
| Rural | 24.4 | 2.0 | 8,444 | 7,782 | 30.5 | 3.4 | 5,637 | 5,195 | |
| Region | 21.1 | 2.0 | 0, 111 | 7,702 | 00.0 | 0.1 | 0,007 | 0,100 | |
| | 49.4 | 6.1 | 620 | 984 | 44.2 | 10.3 | 377 | 613 | |
| Tigray Affar | 49.4 26.7 | 1.7 | 620 104 | 964 960 | 34.7 | | 52 | | |
| | | | | | | 3.3 | | 492 | |
| Amhara | 29.9 | 2.7 | 2,776 | 1,331 | 41.8 | 3.5 | 1,867 | 936 | |
| Oromiya | 29.3 | 1.6 | 3,961 | 1,403 | 30.0 | 2.0 | 2,738 | 1,040 | |
| Somali | 8.8 | 1.5 | 232 | 664 | 13.7 | 2.1 | 145 | 391 | |
| Benishangul-Gumuz | 33.3 | 1.9 | 124 | 904 | 36.7 | 2.8 | 81 | 614 | |
| SNNP | 27.2 | 2.0 | 2,022 | 1,295 | 31.2 | 3.2 | 1,279 | 870 | |
| Gambela | 41.4 | 3.7 | 41 | 768 | 48.0 | 3.9 | 29 | 488 | |
| Harari | 52.0 | 4.4 | 28 | 635 | 37.3 | 1.5 | 20 | 460 | |
| Addis Ababa | 80.5 | 2.9 | 342 | 634 | 70.4 | 3.6 | 259 | 442 | |
| Dire Dawa | 61.3 | 4.6 | 38 | 626 | 52.0 | 4.4 | 25 | 429 | |
| Education | | | | | | | | | |
| No education | 21.4 | 2.0 | 6,735 | 6,569 | 25.3 | 2.7 | 2,906 | 2,757 | |
| Primary | 44.8 | 2.6 | 2,862 | 2,739 | 38.6 | 3.6 | 3,213 | 2,997 | |
| Secondary | 77.9 | 4.2 | 378 | 528 | 61.8 | 4.5 | 385 | 525 | |
| More than secondary | 80.5 | 3.1 | 313 | 368 | 65.3 | 2.4 | 368 | 496 | |
| Wealth quintile | | | | | | | | | |
| Lowest | 15.5 | 1.8 | 2,077 | 2,724 | 21.3 | 2.7 | 1,344 | 1,631 | |
| Second | 19.7 | 2.3 | 2,117 | 1,676 | 26.4 | 2.9 | 1,404 | 1,138 | |
| Middle | 24.4 | 1.7 | 2,083 | 1,585 | 31.8 | 2.4 | 1,393 | 1,104 | |
| Fourth | 33.9 | 2.2 | 1,923 | 1,590 | 37.4 | 4.3 | 1,339 | 1,152 | |
| Highest | 65.5 | 3.6 | 2,087 | 2,629 | 61.2 | 3.5 | 1,391 | 1,750 | |
| Total 15-49 | 31.8 | 2.3 | 10,287 | 10,204 | 35.7 | 3.2 | 6,872 | 6,775 | |
| 50-59 | na | na | na | na | 24.2 | 3.1 | 1,217 | 1,155 | |
| Total 15-59 | na | na | na | na | 33.9 | 3.2 | 8,089 | 7,930 | |

12.14 Participation in Community Conversation Programme

The Community Conversation (CC) programme is one of the main social mobilization tools endorsed and led by the MOH and the HIV/AIDS Prevention and Control Office (HAPCO). Its methodology is based on the recognition that communities have the capacity to prevent the spread of HIV in their midst. It includes the following activities: caring for those infected with HIV, changing harmful attitudes and behaviours, and sustaining hope among those who are HIV positive. The main objective of the CC programme is to generate a response to HIV/AIDS that integrates individual and community concerns, values, and beliefs and addresses attitudes and behaviours embedded in social systems and structures. A team of two or three trained facilitators leads CC meetings. Up to 60 people can participate in a CC meeting, and they are encouraged to meet at least twice a month over a period

of ten months. By the end of the ten-month period, the team is expected to be able to develop a plan of action for the community and to follow up on its implementation.

Tables 12.24.1 and 12.24.2 show the percentage of women and men age 15-49 who have heard of the Community Conversation programme and, among those, the percentage distribution by whether they have attended a CC meeting and the time since their last meeting, by background characteristics. It must be noted that there may be over-reporting of participation because respondents may have reported coffee ceremonies or other educational lectures in the community as CC meetings.

Overall, 31 percent of women and 52 percent of men have heard of the Community Conversation programme. Among those who have heard of the CC programme, men are more likely than women to report having attended a CC meeting (64 percent versus 44 percent). Men also are more likely than women to report attending a CC meeting within the past three months (42 percent versus 20 percent).

The percentage of respondents who have attended a CC meeting increases with age for both men and women. Previously married women and currently married men, rural men, women living in Benishangul-Gumuz, and men living in Oromiya are more likely than other respondents to have attended a CC meeting. There is no clear pattern of attendance at a CC meeting with differences in education or wealth.

<u>Table 12.24.1 Exposure to Community Conversation programme: Women</u>

Percentage of women age 15-49 who have heard of the Community Conversation programme, and, among those who have heard of the programme, the percentage distribution by whether they attended a Community Conversation meeting and time since the last meeting, by background characteristics, Ethiopia 2011

| | | All women | | | Among women who have heard of the Community Conversation programme, time since last meeting: | | | | | | |
|--|--|--|---|--|--|--|--|--|---|--|--|
| Background characteristic | Percentage who have heard of Community Conversation programme | Weighted number of women | Un- weighted number of women | Never attended a Community Conversation meeting | Attended within last 3 months | Attended 4-11 months ago | Attended one year or more ago | Total | Weighted number of women who have heard of programme | Un- weighted number of women who have heard of programme | |
| Age | | | | | | | | | | | |
| 15-24 15-19 20-24 25-29 30-39 40-49 | 32.0 31.2 33.1 29.8 29.8 30.3 | 6,940 4,009 2,931 3,147 3,971 2,457 | 6,857 3,835 3,022 3,185 4,058 2,415 | 65.0 69.2 59.7 56.1 47.1 44.5 | 13.8 12.4 15.5 21.3 24.3 26.9 | 9.4 8.6 10.3 11.6 14.3 9.9 | 11.7 9.8 14.1 11.0 14.2 18.0 | 100.0 100.0 100.0 100.0 100.0 100.0 | 2,219 1,249 971 939 1,184 744 | 2,282 1,224 1,058 1,002 1,299 777 | |
| Marital status | 00.0 | 2, 101 | 2,110 | 11.0 | 20.0 | 0.0 | 10.0 | 100.0 | | • • • • | |
| Never married Married/living | 36.7 | 4,469 | 4,413 | 66.2 | 13.9 | 8.6 | 11.3 | 100.0 | 1,639 | 1,769 | |
| together Divorced/separated/ | 28.0 | 10,287 | 10,204 | 52.2 | 21.6 | 12.1 | 13.8 | 100.0 | 2,882 | 2,891 | |
| widowed | 32.1 | 1,758 | 1,898 | 47.7 | 25.4 | 12.6 | 14.3 | 100.0 | 565 | 700 | |
| Residence Urban Rural | 47.8 25.4 | 3,947 12,568 | 5,329 11,186 | 56.6 56.0 | 18.2 20.3 | 11.5 10.7 | 13.5 12.8 | 100.0 100.0 | 1,888 3,198 | 2,707 2,653 | |
| Region | 20.4 | 12,500 | 11,100 | 30.0 | 20.5 | 10.7 | 12.0 | 100.0 | 5,130 | 2,000 | |
| Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 50.6 21.0 24.9 32.7 20.5 22.9 23.0 31.6 42.3 55.8 45.8 | 1,104 145 4,433 6,011 329 174 3,236 69 49 896 69 | 1,728 1,291 2,087 2,135 914 1,259 2,034 1,130 1,101 1,741 1,095 | 52.4 65.2 52.3 56.9 51.0 39.6 58.5 51.6 56.1 65.0 50.4 | 22.9 21.2 21.0 17.5 22.9 30.6 23.2 22.4 14.7 13.8 18.2 | 9.6 6.1 11.4 11.7 12.4 10.8 10.5 11.4 8.5 9.4 17.9 | 15.2 7.5 14.9 13.7 12.3 19.0 7.6 14.6 20.4 11.8 13.2 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 558 30 1,106 1,966 67 40 743 22 21 500 32 | 840 210 490 705 186 288 451 272 457 984 477 | |
| Education No education Primary Secondary More than secondary | 20.4 34.6 60.3 72.5 | 8,394 6,276 1,117 728 | 8,278 5,858 1,395 984 | 53.9 61.4 51.3 48.2 | 22.4 17.8 17.8 19.8 | 10.9 8.5 15.2 16.2 | 12.6 12.1 15.3 15.8 | 100.0 100.0 100.0 100.0 | 1,711 2,174 673 528 | 1,640 2,112 891 717 | |
| Wealth quintile Lowest Second Middle Fourth Highest Total | 20.3 24.2 25.5 29.1 48.0 30.8 | 2,986 3,041 3,031 3,215 4,242 16,515 | 3,711 2,402 2,268 2,505 5,629 16,515 | 59.5 57.2 58.8 53.5 55.1 56.2 | 19.9 19.1 18.0 22.6 18.8 19.5 | 7.0 11.8 11.7 10.7 11.8 11.0 | 13.2 11.9 11.1 13.0 14.2 13.1 | 100.0 100.0 100.0 100.0 100.0 100.0 | 607 736 773 935 2,035 5,086 | 624 573 564 716 2,883 5,360 | |

Table 12.24.2 Exposure to Community Conversation programme: Men

Percentage of men age 15-49 who have heard of the Community Conversation programme, and, among those who have heard of the programme, the percentage distribution by whether they attended a Community Conversation meeting and time since the last meeting, by background characteristics, Ethiopia 2011

| | All men | | | Among men who have heard of the Community Conversation programme, time since last meeting: | | | | | | |
|--|--|------------------------------|--------------------------------|--|-------------------------------|-----------------------------------|-------------------------------|----------------|--|--|
| Background characteristic | Percentage who have heard of Community Conversation programme | Weighted number of men | Unweighted number of men | Never attended a Community Conversation meeting | Attended within last 3 months | Attended 4-11 months ago | Attended one year or more ago | Total | Weighted number of men who have heard of programme | Unweighted number of men who have heard of programme |
| Age | | | | | | | | | | |
| 15-24 | 44.2 | 5,332 | 5,162 | 52.6 | 26.5 | 9.6 | 11.2 | 100.0 | 2,357 | 2,306 |
| 15-19 | 38.5 | 3,013 | 2,832 | 63.9 | 18.5 | 8.4 | 9.0 | 100.0 | 1,161 | 1,098 |
| 20-24 | 51.6 | 2,319 | 2,330 | 41.7 | 34.2 | 10.7 | 13.3 | 100.0 | 1,196 | 1,208 |
| 25-29 | 55.9 | 2,297 | 2,274 | 32.3 | 44.0 | 9.6 | 13.9 | 100.0 | 1,284 | 1,269 |
| 30-39 | 58.0 | 3,132 | 3,261 | 26.1 | 49.5 | 11.4 | 12.9 | 100.0 | 1,816 | 1,814 |
| 40-49 | 58.2 | 2,074 | 2,171 | 24.0 | 56.6 | 9.6 | 9.7 | 100.0 | 1,207 | 1,228 |
| Marital status | | | | | | | | | | |
| Never married | 46.2 | 5,600 | 5,641 | 52.4 | 25.3 | 10.0 | 12.2 | 100.0 | 2,587 | 2,682 |
| Married/living together Divorced/separated/ | 57.1 | 6,872 | 6,775 | 25.5 | 52.7 | 9.8 | 11.9 | 100.0 | 3,922 | 3,713 |
| widowed | 42.6 | 363 | 452 | 40.7 | 34.4 | 16.9 | 7.9 | 100,0 | 155 | 222 |
| Residence | | | | | | | | | | |
| Urban | 60.0 | 2,882 | 3,915 | 47.5 | 28.2 | 11.0 | 13.2 | 100.0 | 1,729 | 2,530 |
| Rural | 49.6 | 9,952 | 8,953 | 32.3 | 46.3 | 9.7 | 11.4 | 100.0 | 4,934 | 4,087 |
| Region | | | | | | | | | | |
| Tigray | 55.7 | 770 | 1,235 | 41.5 | 25.7 | 16.4 | 16.5 | 100.0 | 429 | 685 |
| Affar | 35.2 | 101 | 910 | 32.7 | 48.9 | 6.6 | 11.7 | 100.0 | 36 | 290 |
| Amhara | 36.1 | 3,481 | 1,739 | 41.3 | 39.1 | 8.3 | 10.9 | 100.0 | 1,256 | 611 |
| Oromiya | 64.6 | 4,957 | 1,889 | 28.0 | 54.6 | 7.6 | 9.8 | 100.0 | 3,204 | 1,218 |
| Somali | 32.1 | 245 | 653 | 41.0 | 26.5 | 13.5 | 18.2 | 100.0 | 79 | 196 |
| Benishangul-Gumuz | 36.8 | 138 | 1,047 | 35.9 | 45.2 | 5.7 | 13.0 | 100.0 | 51 | 385 |
| SNNP | 48.0 | 2,307 | 1,550 | 39.5 | 26.9 | 16.7 | 16.5 | 100.0 | 1,108 | 737 |
| Gambela | 52.2 | 59 | 865 | 31.2 | 25.3 | 22.8 | 20.6 | 100.0 | 31 | 420 |
| Harari | 79.3 | 40 | 898 | 44.0 | 30.2 | 16.3 | 9.5 | 100.0 | 32 | 717 |
| Addis Ababa | 58.6 | 682 | 1,237 | 70.2 | 9.3 | 8.7 | 11.8 | 100.0 | 400 | 733 |
| Dire Dawa | 75.6 | 53 | 845 | 50.2 | 23.9 | 10.6 | 15.2 | 100.0 | 40 | 625 |
| Education | | | | | | | | | | |
| No education | 40.2 | 3,785 | 3,659 | 30.3 | 49.8 | 8.8 | 10.9 | 100.0 | 1,521 | 1,305 |
| Primary | 51.8 | 6,813 | 6,334 | 38.7 | 40.9 | 10.0 | 10.2 | 100.0 | 3,527 | 3,227 |
| Secondary | 66.6 | 1,296 | 1,565 | 39.6 | 36.1 | 9.9 | 14.4 | 100.0 | 864 | 1,065 |
| More than secondary | 80.0 | 940 | 1,310 | 33.4 | 34.5 | 13.0 | 19.2 | 100.0 | 752 | 1,020 |
| Wealth quintile | 00.7 | 0.444 | 0.500 | 00.5 | 44.0 | 0.0 | 40.4 | 400.0 | 050 | 0.4.4 |
| Lowest | 39.7 | 2,141 | 2,563 | 36.5 | 44.6 | 8.3 | 10.1 | 100.0 | 850 | 844 |
| Second | 44.6 | 2,362 | 1,891 | 30.9 | 49.2 | 8.8 | 10.6 | 100.0 | 1,053 | 824 944 |
| Middle | 52.6 | 2,454 | 1,935 | 31.8 | 43.6 | 11.6 | 13.0 | 100.0 | 1,292 1,448 | |
| Fourth Highest | 54.0 63.3 | 2,683 3,194 | 2,203 4,276 | 31.1 45.5 | 47.7 30.8 | 10.2 10.5 | 10.9 13.3 | 100.0 100.0 | 1,448 2,021 | 1,161 2,844 |
| Total 15-49 | 51.9 | 12,834 | 12,868 | 36.3 | 41.6 | 10.1 | 11.9 | 100.0 | 6,664 | 6,617 |
| 50-59 | 56.8 | 1,276 | 1,242 | 22.4 | 53.2 | 10.7 | 13.6 | 100.0 | 724 | 675 |
| Total 15-59 | 52.4 | 14,110 | 14,110 | 34.9 | 42.7 | 10.7 | 12.1 | 100.0 | 7,388 | 7,292 |

Key Findings

- HIV prevalence is low in Ethiopia, with 1.5 percent of the population age 15-49 HIV positive.
- Women have a higher HIV prevalence (1.9 percent) than men (1.0 percent).
- For both women and men HIV prevalence increases substantially as the number of lifetime sexual partners increases.

n Ethiopia much of the information on national HIV prevalence estimates is derived from sentinel surveillance at antenatal care clinics. Although surveillance data do not provide estimates of HIV prevalence for the general population, they do provide results specific to women attending antenatal clinics.

The inclusion of HIV testing in the EDHS offers the opportunity to better understand the magnitude and patterns of infection within the general reproductive-age population not included in sentinel surveillance surveys, especially men age 15-59. The first such exercise was conducted as part of the 2005 EDHS. The 2011 EDHS is the second EDHS survey to anonymously link HIV testing results with demographic, socioeconomic, and behavioural characteristics of survey respondents.

This chapter presents information on the HIV testing coverage rates among eligible survey respondents, the prevalence of HIV infection among those tested, and the factors associated with HIV infection in the population. Blood collection and HIV testing methodologies used in the 2011 EDHS are described in Chapter 1.

13.1 COVERAGE RATES FOR HIV TESTING

Table 13.1 shows the distribution of women age 15-49 and men age 15-59 eligible for HIV testing by testing status, by residence and regions of the country. Overall, 86 percent of all EDHS respondents who were eligible for testing were interviewed and consented to HIV testing. Four percent of respondents were interviewed but refused to be tested for HIV and did not provide blood samples. Coverage rates for HIV testing were 89 percent for women and 82 percent for men. The proportion of respondents who consented to the HIV test was higher in rural areas than in urban areas for both women and men. Ninety-two percent of women in rural areas consented to HIV testing, compared with 84 percent in urban areas. Among men 86 percent in rural areas consented to testing, compared with 72 percent in urban areas. The Oromiya region has the largest proportion of respondents who consented to HIV testing, at 92 percent.

Table 13.1 Coverage of HIV testing by residence and region

Percent distribution of women age 15-49 and men age 15-59 eligible for HIV testing by testing status, according to residence and region (unweighted), Ethiopia 2011

| | | | | Testing | g status | | | | | |
|------------------------------------|----------------------|---|-------------------|-------------------|-------------------|-----------------------|-------------------|----------------------|-------------------------|----------------|
| | DBS T | Tested ¹ | | to provide ood | | the time of ollection | Other/r | missing ² | | |
| Background | | Not | | Not | | Not | | Not | | Unweighted |
| characteristic | Interviewed | interviewed | Interviewed | | | interviewed | Interviewed | interviewed | Total | number |
| | | | | WOMEN | N 15-49 | | | | | |
| Residence | | | | | | | | | | |
| Urban | 84.1 | 0.0 | 7.8 | 0.8 | 1.6 | 3.8 | 0.8 | 1.1 | 100.0 | 5,656 |
| Rural | 91.8 | 0.1 | 2.4 | 0.5 | 0.7 | 3.1 | 0.5 | 0.9 | 100.0 | 11,729 |
| Region | | | | | | | | | | |
| Tigray | 94.8 | 0.1 | 2.0 | 0.1 | 0.1 | 1.6 | 0.3 | 1.1 | 100.0 | 1,778 |
| Affar | 93.2 | 0.0 | 2.4 | 0.2 | 0.1 | 2.4 | 0.7 | 1.0 | 100.0 | 1,340 |
| Amhara | 90.6 | 0.1 | 3.7 | 0.4 | 0.8 | 3.0 2.0 | 0.7 0.4 | 0.6 | 100.0 | 2,177 |
| Oromiya | 93.9 | 0.0 | 2.1 | 0.2 | 0.7 0.9 | 2.0 5.4 | 0.4 | 0.5 | 100.0 | 2,198 |
| Somali Ponishangul Cumuz | 81.5 91.5 | 0.2 0.0 | 9.7 2.3 | 1.1 | 0.9 | 5.4 3.1 | | 0.7 1.0 | 100.0 100.0 | 987 1,326 |
| Benishangul-Gumuz SNNP | 91.5 91.0 | 0.0 | 2.3 2.1 | 1.0 0.5 | 1.3 | 3.1 2.6 | 0.5 0.9 | 1.4 | 100.0 | 2,134 |
| Gambela | 88.9 | 0.2 | 1.8 | 1.4 | 0.9 | | 0.9 | 0.4 | 100.0 | 1,228 |
| Harari | 83.5 | 0.0 | 7.5 | 1.4 | 2.2 | 6.2 3.9 | 0.4 | 1.0 | 100.0 | 1,174 |
| Addis Ababa | 83.5 81.1 | 0.1 | 7.5 9.9 | 0.8 | 1.3 | 3.9 3.9 | 0.6 | 2.2 | 100.0 | 1,174 |
| Dire Dawa | 84.9 | 0.1 | 5.8 | 0.6 | 2.1 | 5.5 | 0.7 | 0.8 | 100.0 | 1,070 |
| | | | | | | | | | | |
| Total | 89.3 | 0.1 | 4.2 | 0.6 | 1.0 | 3.3 | 0.6 | 1.0 | 100.0 | 17,385 |
| | | | | MEN | 15-59 | | | | | |
| Residence | | | | | | | | | | |
| Urban | 72.0 | 0.1 | 8.0 | 1.7 | 2.4 | 12.3 | 0.9 | 2.6 | 100.0 | 5.062 |
| Rural | 86.4 | 0.1 | 2.8 | 0.6 | 1.4 | 6.9 | 0.7 | 1.2 | 100.0 | 10,846 |
| | | • | | | | | | | | , |
| Region | 07.0 | 0.0 | 2.7 | 1.0 | 0.4 | 7.5 | 0.4 | 1.0 | 100.0 | 4 520 |
| Tigray Affar | 87.0 84.7 | 0.0 0.0 | 3.0 | 0.4 | 0.4 0.7 | 7.5 8.8 | 0.4 1.1 | 1.0 1.3 | 100.0 100.0 | 1,530 1,117 |
| Amhara | 84.7 84.9 | 0.0 | 3.0 4.3 | 0.4 | 1.3 | 0.0 7.4 | 0.6 | 0.9 | 100.0 | 2.159 |
| Oromiya | 90.1 | 0.3 | 4.3 2.7 | 0.4 | 1.3 | 4.2 | 0.4 | 0.9 | 100.0 | 2,181 |
| Somali | 69.1 | 0.0 | 9.3 | 2.5 | 1.7 | 12.6 | 2.2 | 2.3 | 100.0 | 868 |
| Benishangul-Gumuz | 86.1 | 0.0 | 2.4 | 1.1 | 1.6 | 6.8 | 1.0 | 0.9 | 100.0 | 1,249 |
| SNNP | 87.1 | 0.0 | 2.0 | 0.2 | 2.9 | 4.9 | 0.7 | 2.2 | 100.0 | 1,832 |
| Gambela | 82.1 | 0.0 | 2.5 | 0.2 | 1.8 | 11.4 | 0.4 | 1.0 | 100.0 | 1,083 |
| Harari | 71.9 | 0.1 | 9.2 | 1.6 | 2.4 | 11.5 | 1.0 | 2.3 | 100.0 | 1,149 |
| Addis Ababa | 69.7 | 0.2 | 7.9 | 1.9 | 1.3 | 13.6 | 0.9 | 4.4 | 100.0 | 1,649 |
| Dire Dawa | 73.7 | 0.0 | 6.5 | 1.2 | 3.4 | 13.0 | 0.5 | 1.6 | 100.0 | 1,091 |
| | | | | | | | | | | |
| Total | 81.8 | 0.1 | 4.5 | 0.9 | 1.7 | 8.6 | 0.8 | 1.7 | 100.0 | 15,908 |
| | | | TOTAL | (WOMEN 15 | -49 and MEN | 15-59) | | | | |
| Residence | | | | | | | | | | |
| Urban | 78.4 | 0.1 | 7.9 | 1.2 | 1.9 | 7.8 | 0.8 | 1.8 | 100.0 | 10,718 |
| Rural | 89.2 | 0.1 | 2.6 | 0.5 | 1.0 | 4.9 | 0.6 | 1.1 | 100.0 | 22,575 |
| Region | | | | | | | | | | |
| Tigray | 91.2 | 0.0 | 2.3 | 0.5 | 0.2 | 4.3 | 0.4 | 1.0 | 100.0 | 3,308 |
| Affar | 89.3 | 0.0 | 2.7 | 0.3 | 0.4 | 5.3 | 0.9 | 1.1 | 100.0 | 2,457 |
| Amhara | 87.8 | 0.2 | 4.0 | 0.4 | 1.0 | 5.2 | 0.7 | 0.7 | 100.0 | 4,336 |
| Oromiya | 92.0 | 0.0 | 2.4 | 0.3 | 1.0 | 3.1 | 0.4 | 0.7 | 100.0 | 4,379 |
| Somali | 75.7 | 0.2 | 9.5 | 1.8 | 1.3 | 8.7 | 1.3 | 1.5 | 100.0 | 1,855 |
| Benishangul-Gumuz | 88.9 | 0.0 | 2.4 | 1.0 | 1.1 | 4.9 | 8.0 | 0.9 | 100.0 | 2,575 |
| SNNP | 89.2 | 0.1 | 2.0 | 0.4 | 2.1 | 3.7 | 0.8 | 1.7 | 100.0 | 3,966 |
| Gambela | 85.7 | 0.0 | 2.1 | 1.1 | 1.3 | 8.6 | 0.4 | 0.7 | 100.0 | 2,311 |
| Harari | 77.7 | 0.1 | 8.4 | 1.4 | 2.3 | 7.7 | 0.8 | 1.6 | 100.0 | 2,323 |
| Addis Ababa | 75.8 | 0.1 | 9.0 | 1.3 | 1.3 | 8.4 | 8.0 | 3.2 | 100.0 | 3,519 |
| Dire Dawa | 79.5 | 0.0 | 6.1 | 0.8 | 2.7 | 9.1 | 0.5 | 1.2 | 100.0 | 2,264 |
| Total | 85.7 | 0.1 | 4.3 | 0.8 | 1.3 | 5.9 | 0.7 | 1.3 | 100.0 | 33,293 |
| Harari Addis Ababa Dire Dawa | 77.7 75.8 79.5 | 0.1 0.1 0.0 | 8.4 9.0 6.1 | 1.4 1.3 0.8 | 2.3 1.3 2.7 | 7.7 8.4 9.1 | 0.8 0.8 0.5 | 1.6 3.2 1.2 | 100.0 100.0 100.0 | 2, 3, 2, |

¹ Includes all Dried Blood Spot (DBS) samples tested at the lab for which there is a result, whether positive, negative, or indeterminate. Indeterminate means that

Table 13.2 shows HIV testing coverage rates for women age 15-49 and men age 15-59 by age group, level of education, and wealth quintile. For women HIV testing coverage varied from 88 percent among women age 15-19 to 92 percent among women age 45-49. For men HIV testing coverage varied from 80 percent among men age 20-29 to 86 percent among men age 55-59.

the sample went through the entire testing algorithm, but the final result was inconclusive.

² Includes 1) other results of blood collection (e.g., technical problem in the field), 2) lost specimens, 3) non-corresponding bar codes, and 4) other lab results such as blood not tested for technical reasons and not enough blood to complete the algorithm.

Among women and men, more education and higher wealth are associated with higher testing refusal rates. For women HIV testing coverage was lowest among women with more than a secondary education (82 percent) and women in the highest wealth quintile (84 percent). Similarly for men HIV testing coverage was lowest among men with more than a secondary education (75 percent) and men in the highest wealth quintile (73 percent). Age differentials in HIV testing coverage were not large for either women or men. Additional tables describing the relationship between participation in HIV testing and characteristics related to HIV risk are presented in Appendix A.

Table 13.2 Coverage of HIV testing by selected background characteristics

Percent distribution of women age 15-49 and men age 15-59 eligible for HIV testing by testing status, according to selected background characteristics (unweighted), Ethiopia 2011

| , | | | | Testing | g status | | | | | |
|-------------------------------|--------------|--------------------|--------------|-----------------|-------------|-----------------------|-------------|----------------------|----------------|-------------------|
| | DBS t | ested ¹ | Refused to p | provide blood | | the time of ollection | Other/r | nissing ² | | |
| Background characteristic | Interviewed | Not interviewed | Interviewed | Not interviewed | Interviewed | Not interviewed | Interviewed | Not interviewed | Total | Unweighted number |
| - | | | | WOMEN | N 15-49 | | | | | |
| Age | | | | | | | | | | |
| 15-19 | 88.4 | 0.0 | 3.7 | 0.6 | 1.4 | 4.4 | 0.5 | 0.9 | 100.0 | 4,082 |
| 20-24 | 88.6 | 0.0 | 3.9 | 0.7 | 1.0 | 3.7 | 0.7 | 1.3 | 100.0 | 3,204 |
| 25-29 | 89.1 | 0.0 | 5.0 | 0.6 | 0.8 | 2.6 | 0.6 | 1.1 | 100.0 | 3,333 |
| 30-34 | 88.8 | 0.0 | 5.1 | 0.5 | 1.1 | 2.9 | 0.6 | 0.9 | 100.0 | 2,196 |
| 35-39 | 90.4 | 0.2 | 3.8 | 0.4 | 0.6 | 3.3 | 0.5 | 8.0 | 100.0 | 2,055 |
| 40-44 | 90.3 | 0.1 | 3.9 | 0.7 | 0.7 | 2.5 | 0.4 | 1.3 | 100.0 | 1,375 |
| 45-49 | 91.8 | 0.1 | 3.2 | 0.6 | 0.6 | 2.4 | 0.9 | 0.4 | 100.0 | 1,140 |
| Education | | | | | | | | | | |
| No education | 90.2 | 0.1 | 3.6 | 0.6 | 0.7 | 3.1 | 0.6 | 1.2 | 100.0 | 8,715 |
| Primary | 90.5 | 0.0 | 3.4 | 0.6 | 1.0 | 3.1 | 0.6 | 8.0 | 100.0 | 6,129 |
| Secondary | 84.0 | 0.0 | 6.5 | 0.7 | 1.9 | 5.1 | 0.7 | 1.1 | 100.0 | 1,498 |
| More than secondary | 81.8 | 0.0 | 10.5 | 0.7 | 1.5 | 4.3 | 0.6 | 0.7 | 100.0 | 1,043 |
| Wealth quintile | | | | | | | | | 4000 | |
| Lowest | 91.3 | 0.0 | 2.2 | 0.8 | 0.6 | 3.8 | 0.4 | 1.0 | 100.0 | 3,930 |
| Second | 92.6 | 0.1 | 2.0 | 0.5 | 0.7 | 2.7 | 0.5 | 0.9 | 100.0 | 2,508 |
| Middle | 91.9 | 0.1 | 2.6 | 0.3 | 0.7 | 3.2 | 0.4 | 0.7 | 100.0 | 2,373 |
| Fourth | 91.6 | 0.1 | 2.8 7.6 | 0.4 | 0.8 1.6 | 2.8 | 0.7 | 0.9 | 100.0 | 2,613 |
| Highest | 84.4 | 0.1 | | 0.7 | | 3.6 | 0.8 | 1.2 | 100.0 | 5,961 |
| Total | 89.3 | 0.1 | 4.2 | 0.6 | 1.0 | 3.3 | 0.6 | 1.0 | 100.0 | 17,385 |
| | | | | MEN 1 | 15-59 | | | | | |
| Age | | | | | | | | | | |
| 15-19 | 82.8 | 0.1 | 3.6 | 1.0 | 2.1 | 8.4 | 0.8 | 1.1 | 100.0 | 3,172 |
| 20-24 | 80.2 | 0.2 | 4.0 | 1.1 | 1.9 | 9.9 | 0.7 | 2.0 | 100.0 | 2,683 |
| 25-29 | 80.0 | 0.0 | 4.9 | 0.8 | 1.8 | 9.9 | 0.6 | 1.9 | 100.0 | 2,602 |
| 30-34 | 81.6 | 0.1 | 4.7 | 1.1 | 1.5 | 8.3 | 0.8 | 2.0 | 100.0 | 1,898 |
| 35-39 | 83.0 | 0.0 | 4.9 | 0.5 | 1.3 | 7.7 | 0.6 | 2.0 | 100.0 | 1,758 |
| 40-44 | 81.2 | 0.1 | 4.4 | 1.1 | 1.3 | 9.2 | 1.0 | 1.6 | 100.0 | 1,375 |
| 45-49 | 84.2 | 0.0 | 5.6 | 0.8 | 1. <u>1</u> | 6.6 | 0.8 | 1.0 | 100.0 | 1,048 |
| 50-54 | 82.0 | 0.1 | 4.9 | 1.1 | 1.7 | 7.6 | 0.7 | 2.0 | 100.0 | 820 |
| 55-59 | 85.9 | 0.0 | 4.7 | 0.7 | 0.9 | 5.4 | 0.9 | 1.4 | 100.0 | 552 |
| Education | | | | | | | | | | |
| No education | 82.5 | 0.1 | 3.5 | 0.8 | 1.2 | 8.7 | 0.9 | 2.2 | 100.0 | 5,045 |
| Primary | 84.6 | 0.1 | 3.7 | 0.8 | 1.6 | 7.0 | 0.8 | 1.3 | 100.0 | 7,351 |
| Secondary More than secondary | 75.4 74.7 | 0.0 0.1 | 6.1 8.8 | 1.5 1.3 | 2.5 2.2 | 12.4 10.7 | 0.4 0.6 | 1.8 1.7 | 100.0 100.0 | 1,928 1,582 |
| Wealth quintile | | | | | | | | | | • |
| Lowest | 84.6 | 0.1 | 2.8 | 0.7 | 1.1 | 8.0 | 0.9 | 1.7 | 100.0 | 3,184 |
| Second | 87.0 | 0.0 | 2.9 | 0.4 | 1.1 | 7.1 | 0.6 | 0.9 | 100.0 | 2,303 |
| Middle | 87.8 | 0.1 | 2.5 | 0.5 | 1.2 | 6.5 | 0.4 | 0.9 | 100.0 | 2,342 |
| Fourth | 86.5 | 0.1 | 2.9 | 0.5 | 2.3 | 5.7 | 0.7 | 1.3 | 100.0 | 2,602 |
| Highest | 73.2 | 0.1 | 7.7 | 1.7 | 2.1 | 11.8 | 0.9 | 2.5 | 100.0 | 5,477 |
| | | | | | | | | | | |

Note: Total for men includes 2 cases with missing information on education.

Includes all Dried Blood Spot (DBS) samples tested at the lab for which there is a result, i.e., positive, negative, or indeterminate. Indeterminate means that the

sample went through the entire testing algorithm, but the final result was inconclusive.

² Includes: 1) other results of blood collection (e.g., technical problem in the field), 2) lost specimens, 3) non corresponding bar codes, and 4) other lab results such as blood not tested for technical reasons and not enough blood to complete the algorithm.

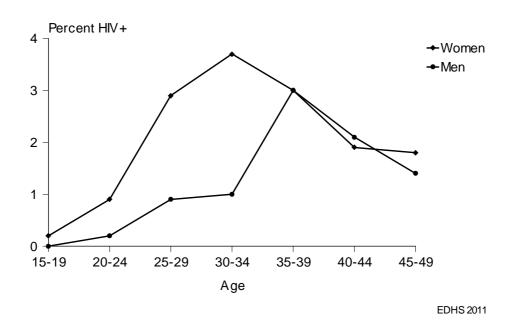
13.2 HIV PREVALENCE

13.2.1 HIV Prevalence by Age and Sex

Table 13.3 shows the percentage of adults age 15-49 in Ethiopia who are infected with HIV. Among women age 15-49 HIV prevalence is 1.9 percent, and among men age 15-49 and 15-59, HIV prevalence is 1.0 percent. For women, HIV prevalence increases with age to a peak of 3.7 percent at age 30-34. For men, HIV prevalence increases from 0.0 percent at age 15-19 to 3.0 percent at age 35-39 and drops thereafter. Overall, HIV prevalence is higher for women than men in most age groups. Figure 13.1 illustrates the age pattern of HIV prevalence for women and men.

| | | Women | | | Men | - | | Total | <u>. </u> |
|-------------|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|----------------------------|-----------------|--|
| Age | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number |
| 15-19 | 0.2 | 3,584 | 3,607 | 0.0 | 2,931 | 2,624 | 0.1 | 6,516 | 6,231 |
| 20-24 | 0.9 | 2,619 | 2,843 | 0.2 | 2,280 | 2,153 | 0.6 | 4,899 | 4,996 |
| 25-29 | 2.9 | 2,788 | 2,969 | 0.9 | 2,261 | 2,083 | 2.0 | 5,049 | 5,052 |
| 30-34 | 3.7 | 1,809 | 1,949 | 1.0 | 1,478 | 1,550 | 2.5 | 3,287 | 3,499 |
| 35-39 | 3.0 | 1,714 | 1,858 | 3.0 | 1,630 | 1,459 | 3.0 | 3,344 | 3,317 |
| 40-44 | 1.9 | 1,110 | 1,244 | 2.1 | 1,093 | 1,117 | 2.0 | 2,203 | 2,361 |
| 45-49 | 1.8 | 1,071 | 1,047 | 1.4 | 907 | 882 | 1.6 | 1,978 | 1,929 |
| Total 15-49 | 1.9 | 14,695 | 15,517 | 1.0 | 12,581 | 11,868 | 1.5 | 27,276 | 27,385 |
| 50-59 | na | na | na | 0.6 | 1,255 | 1,146 | na | na | na |
| Total 15-59 | na | na | na | 1.0 | 13,836 | 13,014 | na | na | na |

Figure 13.1 HIV Prevalence for Women and Men Age 15-49 by Age Groups



234 • HIV Prevalence

The overall adult HIV prevalence in Ethiopia has remained low. The HIV prevalence among adults age 15-49 in the 2011 EDHS is 1.5 percent (confidence interval 1.2-1.7 percent), and it was 1.4 percent (confidence interval 1.1-1.8 percent) in the 2005 EDHS. To understand the epidemic in more detail, further in depth analysis on existing data and other data sources is recommended.

13.2.2 HIV Prevalence by Socioeconomic Characteristics

Table 13.4 shows the variation in HIV prevalence by various socioeconomic characteristics—employment, residence, region, educational level, and wealth quintile. Among both women and men, HIV prevalence is somewhat higher among those who are employed than those who are not employed. HIV prevalence is higher in urban areas (4.2 percent) than in rural areas (0.6 percent). Among regions HIV prevalence is highest in Gambela (6.5 percent) and in Addis Ababa (5.2 percent). A higher proportion of Ethiopians who attended secondary school (3.1 percent) are HIV positive than those with less education or with more than a secondary school education. Men and women in the highest wealth quintile have the highest HIV prevalence (3.9 percent). In general, differentials in HIV prevalence are similar for women and men.

<u>Table 13.4 HIV prevalence by socioeconomic characteristics</u>

Percentage HIV positive among women and men age 15-49 who were tested, by socioeconomic characteristics, Ethiopia 2011

| - | | Women | | | Men | | | Total | |
|---|---|---|---|---|--|--|---|--|--|
| Socioeconomic characteristic | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number |
| Employment (last 12 months) | | | | | | | | | |
| Not employed Employed | 1.4 2.2 | 6,154 8,535 | 7,469 8,045 | 0.1 1.1 | 678 11,901 | 854 11,012 | 1.3 1.5 | 6,832 20,436 | 8,323 19,057 |
| Residence | | | | | | | | | |
| Urban Rural | 5.2 0.8 | 3,512 11,183 | 4,754 10,763 | 2.9 0.5 | 2,824 9,757 | 3,392 8,476 | 4.2 0.6 | 6,336 20,940 | 8,146 19,239 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa Education No education Primary Secondary | 2.2 2.0 2.2 1.3 1.6 1.7 1.0 7.9 3.8 6.0 4.3 | 982 129 3,945 5,348 293 155 2,880 61 43 797 61 7,473 5,620 980 | 1,685 1,249 1,973 2,065 804 1,213 1,943 1,092 980 1,517 996 | 1.3 1.7 1.0 0.6 0.4 0.8 0.6 4.9 1.7 4.3 3.7 | 755 99 3,419 4,853 239 135 2,261 58 39 669 53 3,711 6,714 1,279 | 1,188 861 1,624 1,798 550 987 1,454 817 765 1,079 745 3,431 5,902 1,399 | 1.8 1.8 1.6 1.0 1.1 1.3 0.9 6.5 2.8 5.2 4.0 | 1,738 228 7,364 10,202 532 290 5,141 119 83 1,466 114 11,184 12,335 2,259 | 2,873 2,110 3,597 3,863 1,354 2,200 3,397 1,909 1,745 2,596 1,741 11,289 11,449 2,658 |
| More than secondary | 1.6 | 622 | 853 | 1.1 | 877 | 1,136 | 1.3 | 1,499 | 1,989 |
| Wealth quintile Lowest Second Middle Fourth Highest | 0.5 0.5 0.7 1.5 4.9 | 2,671 2,710 2,701 2,878 3,736 | 3,589 2,322 2,180 2,393 5,033 | 0.2 0.4 0.7 0.5 2.7 | 2,098 2,329 2,427 2,625 3,101 | 2,427 1,797 1,848 2,062 3,734 | 0.3 0.4 0.7 1.0 3.9 | 4,769 5,039 5,128 5,503 6,837 | 6,016 4,119 4,028 4,455 8,767 |
| Total 15-49 | 1.9 | 14,695 | 15,517 | 1.0 | 12,581 | 11,868 | 1.5 | 27,276 | 27,385 |
| 50-59 Total 15-59 | na na | na na | na na | 0.6 1.0 | 1,255 13,836 | 1,146 13,014 | na na | na na | na na |

na = Not applicable

Note: Total includes 14 cases with missing information on religion and 8 cases with missing information on employment.

13.2.3 HIV Prevalence by Demographic Characteristics

Table 13.5 shows HIV prevalence among women and men by various characteristics—marital status, type of union, the number of times the respondent slept away from home in the 12 months before the survey, the total time away from home in the past 12 months for men, pregnancy status for women, use of antenatal care (ANC) for women, and male circumcision. HIV prevalence does not vary much with the type of union, the number of times men slept away from home in the 12 months before the survey, the total time men spent away in the past 12 months, or male circumcision. However, HIV prevalence is closely related to marital status. Widowed and divorced respondents (12.2 percent and 5.2 percent, respectively) are much more likely to be HIV positive than those who are married and those who have never been married. Both women and men show this same pattern. However, HIV prevalence is slightly higher among widowed men (14.5 percent) than among widowed women (12.0 percent). Among women who received ANC for their last birth in the three years preceding the survey, a higher proportion of women who received ANC from a non-public sector provider (1.7 percent). Pregnant women are less likely to be HIV positive than other women.

Table 13.5 HIV prevalence by demographic characteristics

Percentage HIV positive among women and men age 15-49 who were tested, by demographic characteristics, Ethiopia 2011

| | | Women | | | Men | | | Total | |
|---|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|
| Demographic characteristic | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number |
| Marital status | | | | | | | | | |
| Never married | 0.5 | 3,957 | 4,056 | 0.2 | 5,416 | 5,127 | 0.3 | 9,373 | 9.183 |
| Ever had sexual intercourse | 3.2 | 306 | 445 | 1.0 | 992 | 1,314 | 1.5 | 1,298 | 1,759 |
| Never had sexual intercourse | 0.3 | 3,651 | 3,611 | 0.0 | 4,424 | 3,813 | 0.2 | 8,075 | 7,424 |
| Married/living together | 1.5 | 9,183 | 9,697 | 1.3 | 6,812 | 6,335 | 1.5 | 15,995 | 16,032 |
| Divorced or separated | 5.0 | 1,086 | 1,218 | 5.9 | 317 | 341 | 5.2 | 1,403 | 1,559 |
| Widowed | 12.0 | 470 | 546 | 14.5 | 36 | 65 | 12.2 | 506 | 611 |
| Type of union | | | | | | | | | |
| In polygynous union | 1.8 | 967 | 1.262 | 1.2 | 338 | 393 | 1.7 | 1.306 | 1.655 |
| In non-polygynous union | 1.5 | 8.166 | 8,383 | 1.3 | 6.453 | 5,923 | 1.4 | 14,619 | 14,306 |
| Not currently in union | 2.4 | 5,513 | 5,820 | 0.6 | 5,769 | 5,533 | 1.5 | 11,282 | 11,353 |
| Times slept away from home in past 12 months | | | | | | | | | |
| None | na | na | na | 0.9 | 6,260 | 6,263 | na | na | na |
| 1-2 | na | na | na | 0.9 | 2,234 | 1,832 | na | na | na |
| 3-4 | na | na | na | 0.8 | 1,443 | 1,112 | na | na | na |
| 5+ | na | na | na | 1.4 | 2,581 | 2,605 | na | na | na |
| Time away in past 12 months | | | | | | | | | |
| Away for more than 1 month | na | na | na | 1.5 | 1,104 | 1,276 | na | na | na |
| Away for less than 1 month | na | na | na | 1.0 | 5,137 | 4,260 | na | na | na |
| Not away | na | na | na | 0.9 | 6,260 | 6,263 | na | na | na |
| Currently pregnant | | | | | | | | | |
| Pregnant | 0.8 | 1,083 | 1,222 | na | na | na | na | na | na |
| Not pregnant or not sure | 1.9 | 13,612 | 14,295 | na | na | na | na | na | na |
| ANC for last birth in the last 3 years ANC provided by the public | | | | | | | | | |
| sector ANC provided by other than the | 1.7 | 2,112 | 2,228 | na | na | na | na | na | na |
| public sector | 3.1 | 162 | 262 | na | na | na | na | na | na |
| No ANC/No birth in last 3 years | 1.9 | 12,405 | 13,010 | na | na | na | na | na | na |
| Male circumcision | | | | | | | | | |
| Circumcised | na | na | na | 1.0 | 11,563 | 10,914 | na | na | na |
| Not circumcised | na | na | na | 0.9 | 988 | 925 | na | na | na |
| Total 15-49 | 1.9 | 14,695 | 15,517 | 1.0 | 12,581 | 11,868 | 1.5 | 27,276 | 27,385 |
| 50-59 | na | na | na | 0.6 | 1,255 | 1,146 | na | na | na |
| Total 15-59 | na | na | na | 1.0 | 13,836 | 13,014 | na | na | na |

na = Not applicable

Note: Total includes 69 cases with missing information on type of union, 63 men with missing information on times slept away from home in the past 12 months, 16 women with missing information on ANC for last birth in the last 3 years, and 31 men with missing information on male circumcision.

13.2.4 HIV Prevalence by Sexual Risk Behaviour

Table 13.6 presents HIV prevalence rates among respondents who have ever had sexual intercourse, by sexual behaviour indicators. Among all respondents age 15-49 who have ever had sex and were tested for HIV, 2.0 percent were HIV positive (2.4 percent of women and 1.5 percent of men). In reviewing these results, one should note that responses to questions about sexual risk behaviour may be subject to reporting bias. Also, sexual behaviour in the 12 months preceding the survey may not adequately reflect lifetime sexual risk.

In the general population there is no strong relationship between age at first sexual intercourse and HIV prevalence. Among men, however, those whose sexual debut was at age 16-17 were slightly more likely to be HIV positive (2.7 percent) than other men. Among women there was little difference in HIV prevalence by age at first sexual intercourse.

Table 13.6 HIV prevalence by sexual behaviour

Percentage HIV positive among women and men age 15-49 who have ever had sex and were tested for HIV, by sexual behaviour characteristics, Fthionia 2011

| | | Women | | | Men | | | Total | |
|--|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|
| Sexual behaviour characteristic | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number |
| Age at first sexual | | | | | | | | | |
| intercourse | | | | | | | | | |
| <16 | 2.4 | 4,936 | 5,036 | 2.1 | 760 | 889 | 2.3 | 5,696 | 5,925 |
| 16-17 | 2.1 | 2,191 | 2,397 | 2.7 | 1,084 | 1,115 | 2.3 | 3,276 | 3,512 |
| 18-19 | 2.3 | 1,736 | 1,825 | 1.5 | 1,736 | 1,749 | 1.9 | 3,472 | 3,574 |
| 20+ | 2.6 | 1,614 | 1,941 | 1.1 | 4,216 | 3,959 | 1.5 | 5,831 | 5,900 |
| Multiple sexual partners and partner concurrency in past 12 months | | | | | | | | | |
| 0 | 6.7 | 1,481 | 1,975 | 2.9 | 645 | 850 | 5.6 | 2,126 | 2,825 |
| 1 | 1.6 | 9.446 | 9,802 | 1.4 | 7,018 | 6,648 | 1.5 | 16,463 | 16,450 |
| 2+ | 22.5 | 56 | 74 | 1.9 | 431 | 514 | 4.3 | 487 | 588 |
| Had concurrent partners ¹ None of the partners were | * | 4 | 5 | 1.3 | 285 | 314 | 1.3 | 289 | 319 |
| concurrent | 24.4 | 52 | 69 | 3.1 | 146 | 200 | 8.7 | 198 | 269 |
| Condom use at last sexual intercourse in past 12 months Used condom Did not use condom No sexual intercourse in | 17.2 1.4 | 175 9,325 | 293 9,580 | 5.4 1.1 | 524 6,923 | 692 6,468 | 8.3 1.3 | 698 16,248 | 985 16,048 |
| last 12 months | 6.9 | 1,490 | 1,984 | 2.8 | 657 | 861 | 5.6 | 2,147 | 2,845 |
| Number of lifetime partners | | | | | | | | | |
| 1 | 1.3 | 7,996 | 8,857 | 0.1 | 4,261 | 3,871 | 0.9 | 12,257 | 12,728 |
| 2 | 5.1 | 2,134 | 2,197 | 2.5 | 1,757 | 1,843 | 3.9 | 3,891 | 4,040 |
| 3-4 | 4.4 | 711 | 634 | 2.9 | 1,247 | 1,289 | 3.4 | 1,957 | 1,923 |
| 5-9 | 8.7 | 102 | 92 | 3.5 | 516 | 613 | 4.3 | 619 | 705 |
| 10+ | 23.7 | 29 | 52 | 6.8 | 289 | 365 | 8.3 | 317 | 417 |
| Paid for sexual intercourse in past 12 months | | | | | | | | | |
| Yes | na | na | na | 4.3 | 119 | 111 | na | na | na |
| Used condom | na | na | na | * | 33 | 19 | na | na | na |
| Did not use condom No/no sexual intercourse in | na | na | na | 6.0 | 86 | 92 | na | na | na |
| last 12 months | na | na | na | 1.5 | 7,987 | 7,912 | na | na | na |
| Total 15-49 | 2.4 | 10,992 | 11,860 | 1.5 | 8,105 | 8,023 | 2.0 | 19,097 | 19,883 |
| 50-59 Total 15-59 | na na | na na | na na | 0.6 1.4 | 1,250 9,355 | 1,143 9,166 | na na | na na | na na |

Note: Total includes 823 cases with inconsistent/missing information on age at first sexual intercourse, 21 cases with missing information on multiple sexual partners and partner concurrency in past 12 months, 4 cases with missing information on condom use at last sexual intercourse in past 12 months, and 70 cases with missing information on number of lifetime partners. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = Not applicable

A respondent is considered to have had concurrent partners if he or she had overlapping sexual partnerships with two or more people during the 12 months before the survey. (Respondents with concurrent partners include polygynous men who had overlapping sexual partnerships with two or more wives).

Caution should be used when interpreting HIV prevalence levels among women based on the number of sexual partners in the past 12 months because very few women report more than one partner. Among men HIV prevalence is highest for those who report no partners in the past 12 months (2.9 percent). Among men who report two or more partners in the past 12 months, HIV prevalence is higher among those with no concurrent partners (3.1 percent) than among those with concurrent partners (1.3 percent). However, these bivariate associations must be considered with caution as they may be influenced by other factors, such as respondents' marital status. In addition, findings on sexual behaviour in the past 12 months should not be interpreted as a complete picture of an individual's exposure to risk of HIV infection as individuals may have become infected more than 12 months before the survey. Concurrent partnerships are defined as overlapping sexual partnerships with two or more individuals during the 12 months preceding the survey.

HIV prevalence increases substantially as the number of lifetime sexual partners increases, for both women and men. HIV prevalence increases from 1.3 percent for women with one lifetime partner to 5.1 percent for women with two lifetime partners and to 8.7 percent for women with 5-9 lifetime partners. Almost one-quarter of women with 10 or more lifetime partners are HIV positive. HIV prevalence ranges from 0.1 percent among men with one lifetime partner to 6.8 percent among men with 10 or more lifetime partners.

Condom use at last sexual intercourse is also related to HIV prevalence. For respondents who had sex in the past 12 months, a higher proportion of those who used a condom at last sex were HIV positive (8.3 percent) than those who did not use a condom (1.3 percent). This proportion is more than three times higher among women than among men. No causal association between condom use and HIV can be assumed from these results. In these data it is not possible to know the sequence of events, e.g., whether reported condom use occurred before or after HIV infection. It is likely that those who suspect that they or their partner might be infected would also be more likely to use condoms, thus reversing the expected direction of the relationship of lower HIV prevalence among those who use condoms. Condom use at last sex has been associated with higher HIV prevalence in many other cross-sectional surveys. In addition, other factors may be influencing the relationship between condom use and HIV. For example, condom use may be higher in urban areas, among those who engage in higher risk sexual behaviours, or in other groups which are also more likely to be HIV-positive. Further analysis is required to gain a better understanding of the true relationship between condom use and HIV infection in Ethiopia.

13.3 HIV Prevalence Among Youth

Table 13.7 shows HIV prevalence among women and men age 15-24 by background characteristics. Overall, less than 1 percent of Ethiopian youth age 15-24 tested positive for HIV. There is little variation in HIV prevalence by background characteristics, given the low overall prevalence. Regional estimates of HIV prevalence among youth are similar, with one exception: in Gambela HIV prevalence among young women is much higher, at 9 percent, than in other regions of the country.

Table 13.7 HIV prevalence among young people by background characteristics

Percentage HIV positive among women and men age 15-24 who were tested for HIV, by background characteristics, Ethiopia 2011

| | | Women | | | Men | | Total | | | |
|----------------------------|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|--|
| Background characteristic | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number | |
| Age | | | | | | | | | | |
| 15-19 | 0.2 | 3,584 | 3,607 | 0.0 | 2,931 | 2,624 | 0.1 | 6,516 | 6,231 | |
| 15-17 | 0.2 | 2,184 | 2,187 | 0.0 | 1,827 | 1,606 | 0.1 | 4,011 | 3,793 | |
| 18-19 | 0.3 | 1,401 | 1,420 | 0.1 | 1,104 | 1,018 | 0.2 | 2,505 | 2,438 | |
| 20-24 | 0.9 | 2,619 | 2,843 | 0.2 | 2,280 | 2,153 | 0.6 | 4,899 | 4,996 | |
| 20-24 | 0.6 | 1,760 | 1,905 | 0.1 | 1,508 | 1,404 | 0.4 | 3,268 | 3,309 | |
| 23-24 | 1.4 | 859 | 938 | 0.4 | 772 | 749 | 0.9 | 1,631 | 1,687 | |
| Marital status | | | | | = | | | ., | 1,001 | |
| Never married | 0.4 | 3,579 | 3,590 | 0.1 | 4,508 | 4,107 | 0.2 | 8,087 | 7,697 | |
| Ever had sex | 2.2 | 195 | 264 | 0.6 | 579 | 739 | 1.0 | 774 | 1,003 | |
| | 0.3 | 3,384 | 3,326 | 0.0 | 3,928 | 3,368 | 0.2 | 7,312 | 6,694 | |
| Never had sex | | | | | | | | | | |
| Married/living together | 0.5 | 2,268 | 2,458 | 0.1 | 640 | 601 | 0.4 | 2,907 | 3,059 | |
| Divorced/separated/widowed | 1.4 | 357 | 402 | 0.0 | 64 | 69 | 1.2 | 421 | 471 | |
| Currently pregnant | | | | | | | | | | |
| Pregnant | 0.4 | 355 | 405 | na | na | na | na | na | na | |
| Not pregnant or not sure | 0.5 | 5,848 | 6,045 | na | na | na | na | na | na | |
| Residence | | | | | | | | | | |
| Urban | 0.9 | 1,710 | 2,230 | 0.1 | 1,212 | 1,384 | 0.6 | 2,922 | 3,614 | |
| Rural | 0.3 | 4,494 | 4,220 | 0.1 | 4,000 | 3,393 | 0.2 | 8,493 | 7,613 | |
| Region | | | | | | | | | | |
| Tigray | 0.6 | 445 | 748 | 0.7 | 342 | 533 | 0.7 | 787 | 1,281 | |
| Affar | 0.6 | 52 | 498 | 0.2 | 39 | 325 | 0.4 | 92 | 823 | |
| Amhara | 0.4 | 1,692 | 830 | 0.0 | 1,532 | 728 | 0.2 | 3,225 | 1,558 | |
| Oromiya | 0.2 | 2,274 | 873 | 0.1 | 1,952 | 725 | 0.2 | 4,226 | 1,598 | |
| Somali | 1.0 | 107 | 290 | 0.0 | 92 | 208 | 0.5 | 199 | 498 | |
| Benishangul-Gumuz | 1.1 | 64 | 493 | 0.0 | 57 | 417 | 0.6 | 121 | 910 | |
| SNNP | 0.4 | 1,118 | 740 | 0.0 | 876 | 558 | 0.2 | 1,994 | 1,298 | |
| Gambela | 9.0 | 32 | 441 | 0.2 | 24 | 301 | 5.3 | 55 | 742 | |
| Harari | 1.1 | 18 | 415 | 0.0 | 16 | | 0.6 | 34 | 725 | |
| | | | | | | 310 | | | | |
| Addis Ababa | 1.7 | 376 | 717 | 0.2 | 262 | 425 | 1.1 | 639 | 1,142 | |
| Dire Dawa | 1.2 | 25 | 405 | 0.7 | 18 | 247 | 1.0 | 44 | 652 | |
| Education | | . === | | | | =40 | | | | |
| No education | 0.3 | 1,598 | 1,787 | 0.3 | 774 | 710 | 0.3 | 2,372 | 2,497 | |
| Primary | 0.5 | 3,589 | 3,481 | 0.0 | 3,423 | 2,966 | 0.3 | 7,012 | 6,447 | |
| Secondary | 1.2 | 677 | 729 | 0.3 | 704 | 678 | 0.8 | 1,381 | 1,407 | |
| More than secondary | 0.7 | 340 | 453 | 0.0 | 311 | 423 | 0.3 | 651 | 876 | |
| Wealth quintile | | | | | | | | | | |
| Lowest | 0.1 | 998 | 1,289 | 0.1 | 779 | 858 | 0.1 | 1,777 | 2,147 | |
| Second | 0.5 | 1,059 | 896 | 0.0 | 934 | 706 | 0.3 | 1,993 | 1,602 | |
| Middle | 0.3 | 1,062 | 850 | 0.2 | 1,019 | 777 | 0.2 | 2,081 | 1,627 | |
| Fourth | 0.2 | 1,267 | 1,034 | 0.0 | 1,131 | 881 | 0.1 | 2,397 | 1,915 | |
| Highest | 1.0 | 1,818 | 2,381 | 0.2 | 1,349 | 1,555 | 0.7 | 3,167 | 3,936 | |
| Total | 0.5 | 6,204 | 6,450 | 0.1 | 5,211 | 4,777 | 0.3 | 11,415 | 11,227 | |

na = Not applicable

13.3.1 HIV Prevalence by Sexual Behaviour among Youth

The 2011 EDHS collected data on behaviours that correlate with sexually transmitted infection (STI) rates. Information on sexual behaviour characteristics is important in designing, targeting, and monitoring HIV prevention interventions for the young adult population. Three behaviours that correlate with STI rates are the number of sexual partners, age at first sexual intercourse, and condom use. This section examines data on sexual behaviour related to the spread of HIV among respondents who have ever had sexual intercourse. It is important to note that responses about sexual behaviour are subject to reporting bias.

Table 13.8 shows HIV prevalence among youth by sexual behaviour. Overall, 0.6 percent of respondents age 15-24 who have ever had sex and were tested for HIV in the 2011 EDHS are HIV positive. By comparison, HIV prevalence is relatively high among young respondents who report two or more sexual partners (6.7 percent) in the 12 months before the survey and among those who used a condom at last sex (2.4 percent).

Table 13.8 HIV prevalence among young people by sexual behaviour

Percentage HIV-positive among women and men age 15-24 who have ever had sex and were tested for HIV, by sexual behaviour, Ethiopia 2011

| | | Women | | | Men | | | Total | |
|--|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|
| Sexual behaviour characteristic | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number |
| Multiple sexual partners and partner concurrency in past 12 months | | | | | | | | | |
| 0 | 1.5 | 278 | 386 | 0.2 | 256 | 281 | 0.9 | 535 | 667 |
| 1 | 0.4 | 2,467 | 2,654 | 0.4 | 940 | 1,015 | 0.4 | 3,407 | 3,669 |
| 2+ | (20.5) | 25 | 43 | 0.0 | 51 | 89 | 6.7 | 75 | 132 |
| Had concurrent partners ¹ None of the partners were | * | 1 | 1 | * | 4 | 15 | * | 5 | 16 |
| concurrent | (21.5) | 24 | 42 | 0.0 | 47 | 74 | 7.2 | 71 | 116 |
| Condom use at last sexual intercourse in past 12 months | | | | | | | | | |
| Used condom | 6.2 | 75 | 134 | 1.2 | 243 | 322 | 2.4 | 318 | 456 |
| Did not use condom No sexual intercourse in | 0.4 | 2,417 | 2,562 | 0.1 | 747 | 782 | 0.3 | 3,164 | 3,344 |
| last 12 months | 2.3 | 284 | 389 | 0.2 | 260 | 283 | 1.3 | 544 | 672 |
| Total | 0.8 | 2,776 | 3,086 | 0.3 | 1,250 | 1,387 | 0.6 | 4,027 | 4,473 |

Note: Total includes 10 cases with missing information on multiple sexual partners and partner concurrency in past 12 months and 1 case with missing information on condom use at last sexual intercourse in past 12 months. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = Not applicable

13.4 HIV Prevalence by Other Characteristics

13.4.1 HIV Prevalence and STIs

A strong link exists between sexually transmitted infections and the sexual transmission of HIV. Many studies have demonstrated that STIs are a co-factor for HIV transmission. Management and treatment of STIs can play an important role in the reduction of HIV transmission. The 2011 EDHS asked respondents who had ever had sex if they had contracted a disease through sexual contact in the past 12 months, or if they had any symptoms associated with STIs (an abnormal discharge from the vagina or penis or a genital sore or ulcer). Table 13.9 shows HIV prevalence among women and men age 15-49 who have ever had sex, by whether respondents reported an STI or STI symptoms in the 12 months preceding the survey. Overall, a higher percentage of respondents with STIs or STI symptoms in the past 12 months are HIV positive (4.7 percent) than of those with no STIs or STI symptoms (2.0 percent). This pattern is observed among both women and men. HIV prevalence is higher among those previously tested for HIV than among those who were never tested for HIV. Among those ever tested, respondents who received their results had a higher HIV prevalence (3.8 percent) than those who tested but did not receive results (1.6 percent) and those who never tested (0.9 percent).

¹ A respondent is considered to have had concurrent partners if he or she had overlapping sexual partnerships with two or more people during the 12 months before the survey. (Respondents with concurrent partners include polygynous men who had overlapping sexual partnerships with two or more wives).

Table 13.9 HIV prevalence by other characteristics

Percentage HIV positive among women and men age 15-49 who have ever had sex and were tested for HIV, by whether had an STI in the past 12 months and by prior testing for HIV, Ethiopia 2011

| | | Women | | | Men | | | Total | |
|---|------------------------------------|--------------------------------|--------------------------------|------------------------------------|--------------------------------|--------------------------------|------------------------------------|---------------------------------|---------------------------------|
| Characteristic | Per- centage HIV positive | Weighted number | Un- weighted number | Per- centage HIV positive | Weighted number | Un- weighted number | Per- centage HIV positive | Weighted number | Un- weighted number |
| Sexually transmitted infection in past 12 months Had STI or STI symptoms No STI, no symptoms | 3.9 2.3 | 373 10,501 | 365 11,308 | 6.2 1.4 | 196 7,839 | 199 7,771 | 4.7 2.0 | 569 18,340 | 564 19,079 |
| Prior HIV testing Ever tested Received results Did not receive results Never tested | 4.7 4.8 2.6 0.9 | 4,340 4,037 303 6,637 | 5,105 4,777 328 6,742 | 2.4 2.6 0.6 0.8 | 3,749 3,465 284 4,356 | 3,862 3,577 285 4,161 | 3.6 3.8 1.6 0.9 | 8,089 7,503 586 10,994 | 8,967 8,354 613 10,903 |
| Total 15-49 | 2.4 | 10,992 | 11,860 | 1.5 | 8,105 | 8,023 | 2.0 | 19,097 | 19,883 |

Note: Total includes 240 cases with missing information on STIs and 15 cases of women with missing information on prior HIV testing status.

13.4.2 Prior HIV Testing and Current HIV Status

Table 13.10 shows the percent distribution of women and men age 15-49 by HIV testing status prior to the survey. Among respondents who are HIV positive, 72 percent were previously tested for HIV and received their result, whereas 26 percent had never been tested. Less than 3 percent were previously tested for HIV but did not receive their test result. Among respondents who are HIV negative, 36 percent were previously tested for HIV and received their result, while 60 percent had never been tested for HIV.

| Table 13.10 Prior HIV testing by current HIV status |
|--|
| Percent distribution of women and men age 15-49 who tested HIV positive and who tested HIV negative by HIV testing status prior to the survey, Ethiopia 2011 |

| | Won | nen | Me | n | Total | | |
|-------------------------------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--|
| HIV testing prior to the survey | HIV positive | HIV negative | HIV positive | HIV negative | HIV positive | HIV negative | |
| Previously tested | | | | | | | |
| Received result of last test | 72.5 | 35.3 | 70.3 | 37.7 | 71.8 | 36.4 | |
| Did not receive result of last test | 3.0 | 2.9 | 1.3 | 3.6 | 2.5 | 3.3 | |
| Not previously tested | 24.3 | 61.6 | 28.4 | 58.6 | 25.6 | 60.2 | |
| Missing | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | |
| Weighted number | 273 | 14.422 | 127 | 12.454 | 400 | 26.876 | |
| Unweighted number | 358 | 15.159 | 171 | 11.697 | 529 | 26,856 | |

13.4.3 HIV Prevalence by Male Circumcision

Several recent studies in sub-Saharan Africa—including clinical trials conducted in South Africa, Kenya, and Uganda (Auvert et al., 2001; Bailey et al., 2007; Gray et al., 2007)—have documented that male circumcision provides some protection against HIV infection and other STIs. Although the research supporting circumcision's protective effects is compelling, it is important to emphasise that circumcised men can still become infected with HIV and can infect their sexual partners.

Table 13.11 presents data from the 2011 EDHS on HIV prevalence by male circumcision status. In this survey there is no marked difference between HIV prevalence among circumcised and uncircumcised men, and, due to the small number of uncircumcised men, detailed comparisons are not reliable. Male circumcision is almost universal throughout Ethiopia, except in SNNP and Gambela, where 21 and 24 percent of men are uncircumcised, respectively (see Table 12.13.1). Among the circumcised male population, the highest HIV prevalence was found among men age 35-39, Catholics, men in urban areas, men in the Gambela, Addis Ababa, and Dire Dawa regions, men with secondary education, and men in the highest wealth quintile. It must be noted that in Gambela the HIV prevalence among the uncircumcised men is almost double that of the circumcised men (7.9 percent versus 4.1 percent).

Table 13.11 HIV prevalence by male circumcision

Among men age 15-49 who were tested for HIV, the percentage HIV positive by whether they are circumcised, according to background characteristics, Ethiopia 2011

| | | Circumcised | | N | ot circumcise | ed |
|---------------------------|----------------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|
| Background characteristic | Percentage HIV positive | Weighted number | Unweighted number | Percentage HIV positive | Weighted number | Unweighted number |
| Age | | | | | | |
| 15-19 | 0.0 | 2,565 | 2,321 | 0.0 | 359 | 296 |
| 20-24 | 0.2 | 2,086 | 1,998 | 0.0 | 190 | 151 |
| 25-29 | 1.0 | 2,112 | 1,927 | 0.4 | 143 | 153 |
| 30-34 | 1.0 | 1,372 | 1,442 | 1.2 | 95 | 102 |
| 35-39 | 2.9 | 1,531 | 1,363 | 5.3 | 98 | 93 |
| 40-44 | 2.1 | 1,035 | 1,044 | 2.3 | 58 | 69 |
| 45-49 | 1.4 | 862 | 819 | 0.5 | 44 | 61 |
| Religion | | | | | | |
| Orthodox | 1.5 | 5,797 | 4,905 | 0.6 | 218 | 173 |
| Catholic | 2.3 | 97 | 81 | (0.3) | 18 | 34 |
| Protestant | 0.7 | 1,924 | 1,416 | `1.4 | 499 | 530 |
| Muslim | 0.4 | 3,541 | 4,346 | 0.0 | 151 | 97 |
| Traditional | 0.0 | 69 | 58 | * | 20 | 19 |
| Residence | | | | | | |
| Urban | 3.0 | 2,766 | 3,322 | 1.2 | 51 | 65 |
| Rural | 0.4 | 8,796 | 7,592 | 0.8 | 937 | 860 |
| Region | | | | | | |
| Tigray | 1.1 | 726 | 1,141 | (2.6) | 20 | 34 |
| Affar | 1.7 | 98 | 852 | * | 1 | 9 |
| Amhara | 1.1 | 3,246 | 1,538 | 0.0 | 167 | 84 |
| Oromiya | 0.6 | 4,544 | 1,690 | 1.2 | 302 | 106 |
| Somali | 0.4 | 236 | 546 | * | 1 | 2 |
| Benishangul-Gumuz | 0.9 | 128 | 934 | 0.0 | 7 | 52 |
| SNNP | 0.7 | 1,785 | 1,130 | 0.6 | 469 | 319 |
| Gambela | 4.1 | 45 | 512 | 7.9 | 13 | 305 |
| Harari | 1.7 | 39 | 762 | * | 0 | 0 |
| Addis Ababa | 4.2 | 662 | 1,068 | * | 7 | 11 |
| Dire Dawa | 3.7 | 52 | 741 | * | 0 | 3 |
| Education | | | | | | |
| No education | 0.8 | 3,438 | 3,214 | 0.0 | 265 | 207 |
| Primary | 0.9 | 6,053 | 5,307 | 1.3 | 638 | 579 |
| Secondary | 2.2 | 1,220 | 1,315 | 0.3 | 58 | 82 |
| More than secondary | 1.2 | 851 | 1,078 | 0.4 | 26 | 57 |
| Wealth quintile | | | | | | |
| Lowest | 0.1 | 1,852 | 2,060 | 0.7 | 242 | 361 |
| Second | 0.4 | 2,083 | 1,608 | 0.1 | 240 | 183 |
| Middle | 0.4 | 2,199 | 1,688 | 2.5 | 223 | 155 |
| Fourth | 0.5 | 2,436 | 1,908 | 0.2 | 181 | 147 |
| Highest | 2.8 | 2,992 | 3,650 | 0.5 | 102 | 79 |
| Total 15-49 | 1.0 | 11,563 | 10,914 | 0.9 | 988 | 925 |
| 50-59 | 0.7 | 1,199 | 1,072 | 0.0 | 56 | 72 |
| Total 15-59 | 1.0 | 12,761 | 11,986 | 8.0 | 1,044 | 997 |

Note: Total includes 2 cases with missing information on religion. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

13.5 HIV Prevalence among Cohabiting Couples

In the 2011 EDHS more than 6,000 cohabiting couples were interviewed and tested for HIV. Table 13.12 shows that 98.3 percent of cohabiting couples are HIV negative, while in 0.6 percent of couples both partners are HIV positive. Discordant couples, that is, one partner infected and the other not infected, constitute 1.1 percent of those tested. In 0.4 percent of couples the male partner is HIV positive and the female partner is HIV negative, and in 0.7 percent of couples the reverse is the case.

Discordance is most marked in urban areas, among couples in the highest wealth quintile, and in Addis Ababa, Gambela, and Dire Dawa. A higher percentage of couples are discordant when the woman is older, when the woman or the man has a secondary education, and when the couple is in the wealthiest quintile.

Table 13.12 HIV prevalence among couples

Percent distribution of couples in the same household, both of whom were tested for HIV, by HIV status, according to background characteristics, Ethiopia 2011

| Background characteristic | Both HIV positive | Man HIV positive, woman HIV negative | Woman HIV positive, man HIV negative | Both HIV negative | Total | Weighted number | Unweighted number |
|---|-------------------|---|--------------------------------------|-------------------|----------------|--------------------|-------------------|
| Woman's age | | | | | | | |
| 15-19 | 0.0 | 0.0 | 0.0 | 99.9 | 100.0 | 508 | 438 |
| 20-29 30-39 | 0.5 1.0 | 0.1 1.0 | 0.7 1.0 | 98.7 97.0 | 100.0 100.0 | 3,080 2,247 | 2,730 2,072 |
| 40-49 | 0.4 | 0.3 | 0.2 | 99.1 | 100.0 | 1,073 | 943 |
| Man's age | | | | | | | |
| 15-19 | (0.0) | (0.0) | (0.0) | (100.0) | 100.0 | 34 1 767 | 30 |
| 20-29 30-39 | 0.2 0.8 | 0.0 0.8 | 0.2 1.1 | 99.6 97.3 | 100.0 100.0 | 1,767 2,493 | 1,481 2,237 |
| 40-49 | 1.0 | 0.5 | 0.4 | 98.0 | 100.0 | 1,706 | 1,611 |
| 50-59 | 0.0 | 0.1 | 0.7 | 99.2 | 100.0 | 908 | 824 |
| Age difference between partners | 0.4 | 0.0 | 0.0 | 00.4 | 400.0 | 0.57 | 250 |
| Woman older Same age/man older by 0-4 years | 0.4 0.9 | 0.6 0.5 | 2.6 0.8 | 96.4 97.8 | 100.0 100.0 | 357 2,011 | 350 1,722 |
| Man older by 5-9 years | 0.3 | 0.5 | 0.3 | 98.9 | 100.0 | 2,660 | 2,345 |
| Man older by 10-14 years | 0.6 | 0.2 | 0.3 | 98.8 | 100.0 | 1,314 | 1,172 |
| Man older by 15+ years | 1.0 | 0.4 | 1.3 | 97.3 | 100.0 | 566 | 594 |
| Type of union Non-polygynous | 0.7 | 0.4 | 0.7 | 98.3 | 100.0 | 6,419 | 5,642 |
| Polygynous | 0.0 | 0.9 | 0.5 | 98.6 | 100.0 | 465 | 516 |
| Multiple partners in past 12 months ¹ | | | | | | | |
| Both no | 0.6 | 0.3 | 0.7 | 98.3 | 100.0 | 6,499 | 5,752 |
| Man yes, woman no | 0.0 | 0.9 | 0.0 | 99.1 | 100.0 | 389 | 410 |
| Woman yes, man no Both yes | * | * | * | * | 100.0 100.0 | 15 0 | 8 1 |
| | | | | | 100.0 | O | |
| Concurrent sexual partners in past 12 months ² Both no | 0.6 | 0.4 | 0.7 | 98.3 | 100.0 | 6,572 | 5,835 |
| Man yes, woman no | 0.0 | 1.1 | 0.0 | 98.9 | 100.0 | 333 | 346 |
| Woman yes, man no | * | * | * | * | 100.0 | 3 | 2 |
| Residence | | | | | 400.0 | | |
| Urban Rural | 2.7 0.2 | 0.7 0.4 | 3.4 0.1 | 93.1 99.3 | 100.0 100.0 | 1,135 5,773 | 1,235 4,948 |
| Region | | | | | | 2,112 | 1,010 |
| Tigray | 0.6 | 0.3 | 0.7 | 98.4 | 100.0 | 380 | 608 |
| Affar | 1.0 | 1.4 | 0.4 | 97.2 | 100.0 | 48 | 422 |
| Amhara Oromiya | 0.4 0.4 | 0.4 0.4 | 1.4 0.2 | 97.7 99.1 | 100.0 100.0 | 1,896 2,776 | 920 1,028 |
| Somali | 0.3 | 0.5 | 0.4 | 98.8 | 100.0 | 115 | 284 |
| Benishangul-Gumuz | 0.3 | 0.2 | 0.4 | 99.2 | 100.0 | 79 | 591 |
| SNNP Gambela | 0.6 3.3 | 0.3 1.1 | 0.2 3.5 | 98.9 92.1 | 100.0 100.0 | 1,327 21 | 874 383 |
| Harari | 0.9 | 0.3 | 0.8 | 97.9 | 100.0 | 19 | 378 |
| Addis Ababa | 4.9 | 2.3 | 2.7 | 90.2 | 100.0 | 223 | 338 |
| Dire Dawa | 1.6 | 2.1 | 1.5 | 94.8 | 100.0 | 23 | 357 |
| Woman's education No education | 0.4 | 0.3 | 0.3 | 99.1 | 100.0 | 4,555 | 4,059 |
| Primary | 0.9 | 0.7 | 1.0 | 97.4 | 100.0 | 1,971 | 1,689 |
| Secondary Mare then accorder: | 1.4 | 1.5 | 4.8 | 92.3 | 100.0 | 229 | 263 |
| More than secondary | 2.5 | 0.1 | 0.6 | 96.8 | 100.0 | 154 | 1/2 |
| Man's education No education | 0.3 | 0.2 | 0.2 | 99.3 | 100.0 | 3,128 | 2,804 |
| Primary | 0.6 | 0.5 | 0.2 | 98.1 | 100.0 | 3,142 | 2,666 |
| Secondary More than accordant | 3.6 | 0.9 | 3.3 | 92.2 | 100.0 | 333 | 386 |
| More than secondary | 0.5 | 1.4 | 1.0 | 97.1 | 100.0 | 304 | 327 |
| Wealth quintile Lowest | 0.1 | 0.1 | 0.1 | 99.6 | 100.0 | 1,357 | 1,520 |
| Second | 0.3 | 0.1 | 0.1 | 99.5 | 100.0 | 1,486 | 1,130 |
| Middle | 0.2 | 0.7 | 0.0 | 99.1 | 100.0 | 1,468 | 1,087 |
| Fourth Highest | 0.0 2.6 | 0.4 0.8 | 0.6 2.7 | 98.9 93.8 | 100.0 100.0 | 1,363 1,235 | 1,081 1,365 |
| - | | | | | | | |
| Total | 0.6 | 0.4 | 0.7 | 98.3 | 100.0 | 6,908 | 6,183 |

Note: The table is based on couples for which a valid test result (positive or negative) is available for both partners. Total includes 25 couples with missing information on type of union and 12 couples with missing information on multiple partners in past 12 months. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

A respondent is considered to have had multiple sexual partners in the past 12 months if he or she had sexual intercourse with 2 or more people during this time period. (Respondents with multiple partners include polygynous men who had sexual intercourse with 2 or more wives.)

A respondent is considered to have had concurrent partners if he or she had overlapping sexual partnerships with two or more people during the 12 months before the survey. (Respondents with concurrent partners include polygynous men who had overlapping sexual partnerships with two or more more wives.) wives).

Key Findings

- About six currently married women of every ten and almost all currently married men age 15-49 were employed in the 12 months preceding the survey.
- Three of every ten currently married employed women are not paid, compared with about one of every ten men.
- More than one-third of currently married employed women who earn cash make independent decisions about how to spend their earnings.
- About half of currently married women participate in three important decisions, pertaining to the woman's own health care, major household purchases, and visits to her family or relatives
- Contraceptive use increases with women's empowerment.
- Access to antenatal care and delivery assistance from a skilled provider increase with women's empowerment.

he 2011 EDHS collected data on background characteristics of women, such as age, education, and employment status. Based on this information, earlier discussions in this report showed that Ethiopian women are less educated, have a lower level of literacy, and have less exposure to mass media than men. The EDHS data also indicate that women are predominantly engaged in agricultural occupations, have few manual skills, and are less likely than men to be engaged in professional, technical, or managerial fields. Educational attainment, literacy, exposure to mass media, and employment are critical contributors to women's empowerment and exert considerable influence not only on the development of their personality, but also on solidifying their position in the household and in society in general.

The 2011 EDHS collected additional data on characteristics specific to women's empowerment through their work. These included receipt of cash earnings, magnitude of cash earnings relative to those of a husband or other partner. In addition, female and male survey respondents expressed their attitudes towards specific household decisions such as who makes decisions about major household purchases and about their own health care. Further, respondents expressed their attitudes towards certain actions, such as whether a man is justified in beating his wife if she refuses to have sex with him. Married women and men who received cash earnings were asked who had control over their cash income. This chapter also discusses men's participation in household chores and women's knowledge about law regarding domestic violence.

Finally, two separate indices of empowerment that were developed are presented in this report. They are based on (1) the number of decisions in which the woman participates and (2) the number of situations in which a woman considers wife beating justifiable. The relative ranking of women on these indices is found to predict demographic and health outcomes, including contraceptive use, ideal family size, unmet need for family planning, access to reproductive health care, and, for the woman's children, childhood mortality.

_

¹ For the remainder of this chapter, the term *husband* refers to both the current/most recent husband (for currently/formerly legally married women) and to the current/most recent partner (for women currently living together with or who formerly lived together with their partner in an informal union).

14.1 EMPLOYMENT AND FORM OF EARNINGS

Employment is one aspect of social life in which gender roles and relationships emerge. Employment can be a source of empowerment for both women and men, especially if they are in control of the income they generate. In the 2011 EDHS respondents were asked whether they were employed at the time of the survey and, if not, whether they were employed in the 12 months preceding the survey.

Table 14.1 shows the distribution of employment and cash earnings of currently married women and men who were employed at any time in the 12 months preceding the survey. Nearly six in every ten currently married women (57 percent) and almost all of currently married men age 15-49 (99 percent) had been employed in the 12 months preceding the survey. The percentage of currently married women who were employed increases with age up to age 44 and then decreases slightly for the oldest age group. The employment status of men does not vary by age, except for the youngest age group, where the proportion of men employed is the lowest.

Table 14.1 Employment and cash earnings of currently married women and men

Percentage of currently married women and men age 15-49 who were employed at any time in the past 12 months and the percent distribution of currently married women and men employed in the past 12 months by type of earnings, according to age, Ethiopia 2011

| | | Among currentl rried responde | | | | | married res s, by type of | | | | |
|---|--|--|--|--|--|--|--|--|---|--|--|
| Age | Percentage employed in the past 12 months | Weighted number of respondents | Unweighted number of respondents | Cash only | Cash and in-kind | In-kind only | Not paid | Missing/ don't know | Total | Weighted number of respondents | Unweighted number of respondents |
| | | | | V | /OMEN | | | | | | |
| Age | | | | | | | | | | | |
| 15-19 20-24 25-29 30-34 | 45.3 54.1 56.6 57.2 | 765 1,762 2,511 1,720 | 784 1,788 2,480 1,722 | 22.4 38.5 40.2 37.9 | 19.3 22.5 25.9 27.9 | 13.9 9.4 5.8 8.4 | 44.5 29.3 27.9 25.8 | 0.0 0.3 0.1 0.0 | 100.0 100.0 100.0 100.0 | 347 953 1,420 984 | 313 806 1,202 848 |
| 35-39 40-44 45-49 | 58.5 62.6 59.1 | 1,591 1,033 905 | 1,600 1,047 783 | 34.7 33.8 27.8 | 28.8 27.9 26.2 | 7.1 9.1 6.6 | 29.2 29.2 39.0 | 0.2 0.0 0.3 | 100.0 100.0 100.0 | 930 647 535 | 832 566 414 |
| Total 15-49 | 56.5 | 10,287 | 10,204 | 35.7 | 26.0 | 8.0 | 30.1 | 0.1 | 100.0 | 5,817 | 4,981 |
| | | | | | MEN | | | | | | |
| Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 95.9 98.4 99.9 99.1 99.8 99.1 99.6 | 64 583 1,481 1,274 1,516 1,061 892 | 66 575 1,378 1,385 1,377 1,108 886 | 13.2 16.6 26.9 25.9 22.7 23.0 18.0 | 47.6 61.8 57.7 60.4 63.7 59.2 64.6 | 6.4 9.9 7.0 5.7 7.3 7.1 10.2 | 32.7 11.7 8.4 8.0 6.3 10.8 7.2 | 0.0 0.0 0.0 0.0 0.0 0.0 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 61 574 1,480 1,263 1,513 1,052 889 | 62 558 1,366 1,367 1,369 1,092 880 |
| Total 15-49 | 99.4 | 6,872 | 6,775 | 23.0 | 60.9 | 7.5 | 8.6 | 0.0 | 100.0 | 6,832 | 6,694 |
| 50-59 Total 15-59 | 98.5 99.3 | 1,217 8,089 | 1,155 7,930 | 18.4 22.3 | 62.7 61.2 | 9.2 7.7 | 9.7 8.7 | 0.0 0.0 | 100.0 100.0 | 1,198 8,030 | 1,134 7,828 |

Slightly more than one-third (36 percent) of employed women age 15-49 were paid in cash only for their work, compared with 23 percent of men of the same age group. One-quarter (26 percent) of women received payment both in cash and in kind, compared with 61 percent of men. Almost one-third (30 percent) of employed women were not paid, compared with 9 percent of men.

14.2 CONTROL OVER AND RELATIVE MAGNITUDE OF WOMEN'S AND HUSBAND'S EARNINGS

14.2.1 Control Over Wife's Earnings

Along with access to employment, control over cash earnings is a dimension of gender empowerment. Currently married, employed women who earn cash for their work were asked the relative magnitude of their earnings compared with their husbands' earnings. In addition, they were asked who is the main decision-maker with regard to the use of their earnings. This information may provide some insight into women's empowerment within the family and the extent of their control over decision-making in the household. Women who are employed and who receive cash earnings are more likely to have control over their own earnings.

Table 14.2.1 shows the percent distribution of currently married women who received cash earnings for employment in the past 12 months, according to the woman's perception of who controls their earnings and the magnitude of their earnings relative to those of their husbands. Only 36 percent of women said that they themselves mainly decide how their cash earnings are used. Fifty-five percent indicated that the decision is made jointly with their husbands, and eight percent said that the decision is made mainly by their husbands.

Percent distribution of currently married women age 15-49 who received cash earnings for employment in the 12 months preceding the survey by person who decides how their cash earnings are used and by whether women earned more or less than their husbands, according to background characteristics, Ethiopia 2011 Table 14.2.1 Control over women's cash earnings and relative magnitude of women's cash earnings: Women

| | | Person who de earnin | decides how | cides how wife's cash | ب | | > | Vife's cash the husban | earnings co | Wife's cash earnings compared with husband's cash earnings: | | | | |
|---|--|--|--|---|--|---|---|---|---|---|---|---|--|--|
| Background characteristic | Mainly wife | Wife and husband jointly | Mainly husband | Other | Missing | Total | More | Less | About the same | Husband has no earnings | Don't know/ Missing | Total | Weighted number of women | Unweighted number of women |
| Age 15-19 20-24 25-29 36-39 40-44 45-49 | 31.8 26.7 36.1 37.7 36.8 40.1 | 51.3 55.1 55.1 56.0 88.8 | 14.0 10.1 8.1 6.8 7.4 7.2 | -000000 -000000 | 2.000 8.2000 8.2000 0.000 | 0.0000 0.0000 0.0000 0.0000 | 3.57 8.00 7.00 6.22 6.32 8.33 8.33 8.33 8.33 8.33 8.33 8.33 8 | 76.5 64.1 71.3 67.7 62.0 62.0 | 16.1 22.8 17.9 17.7 20.4 20.9 | 07-19-19- 1-6-09-1-8 | 8.0.4-4.8.6.7. | 1,000 | 145 582 940 648 591 399 289 | 164 558 874 601 577 384 259 |
| Number of living children 0 0 1-2 3-4 5+ | 33.0 33.6 38.8 38.8 | 57.7 58.7 53.4 51.8 | 8.0 9.0 4.0 | 4.0 0.0 0.0 | 0.5 0.8 0.8 | 100.0 100.0 100.0 | 10.9 10.7 8.7 10.7 | 71.0 68.0 68.6 62.8 | 15.9 18.8 23.5 | | 0.4.2.4 8.6.4.9 | 100.0 100.0 100.0 | 362 1,140 997 1,093 | 407 1,215 897 898 |
| Residence Urban Rural | 40.2 34.3 | 55.5 54.9 | 3.9 10.1 | 0.0 | 0.4 0.7 | 100.0 | 12.0 9.5 | 73.7 64.4 | 10.9 23.1 | 1.3 | £ € € 8 | 100.0 | 967 2,626 | 1,191 2,226 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa | 62333322 625244446 64525375466 6462555466 | 70.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 8777.00 2777.00 77.80 80.80 80.80 11.40 11 | 000000000000000000000000000000000000000 | 00000000000000000000000000000000000000 | 0.0000000000000000000000000000000000000 | 4.0.8.1.0.01.0.0.0.0.0.0.0.0.0.0.0.0.0.0. | 666.4 666.7 667.7 | 222 222 222 222 222 222 222 222 222 22 | 0.6.2.4.1.4.0.1.2.0.6.2.4.1.4.0.1.2.4.0.2.4.1.4.0.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4 | 0%%000++4%%4 %%%%%%%%%%%%%%%%%%%%%%%%%%% | 60000000000000000000000000000000000000 | 231 747 747 7422 747 862 118 112 112 14 | 265 295 295 295 295 295 295 295 295 295 29 |
| Education No education Primary Secondary More than secondary | 36.6 35.5 40.5 29.2 | 52.8 55.8 55.1 69.3 | 10.1 7.5 4.3 1.5 | 0.0000000000000000000000000000000000000 | 0.00 0.00 0.00 | 100.0 100.0 100.0 | 001 00.3 0.3 0.3 0.3 | 63.1 71.2 78.9 71.3 | 23.4 16.3 12.2 | 0.2 0.0 0.0 0.0 | 0.42 0.3 0.3 | 100.0 100.0 100.0 | 2,083 1,061 176 273 | 1,845 1,031 244 297 |
| Wealth quintile Lowest Second Middle Fourth Highest | 35.6 33.5 33.5 36.6 38.0 | 54.6 53.9 55.5 54.1 56.3 | 8.9 1.1.1 10.9 8.8 2.2 | 0.00 0.00 0.00 0.00 | 0.8 0.0 0.9 0.5 | 100.0 100.0 100.0 0.0 0.0 | 9.3 7.5 10.1 9.9 | 66.0 62.4 64.2 65.7 72.2 | 20.1 27.1 23.6 21.0 12.5 | <u> </u> | & 4 0 | 100.0 100.0 100.0 100.0 | 576 585 678 674 1,080 | 638 450 504 543 1,282 |
| Total | 35.9 | 55.0 | 8.4 | 0.1 | 9.0 | 100.0 | 10.2 | 6.99 | 19.8 | 1.5 | 1.7 | 100.0 | 3,592 | 3,417 |

Table 14.2.1 also shows that 10 percent of women earn more in cash than their husbands, 67 percent earn less than their husbands, and 20 percent earn about the same amount as their husbands. Only 2 percent of women say that their husbands have no cash earnings.

The likelihood that a currently married woman is the main decision-maker regarding the use of her cash earnings increases with the number of children the woman has. This suggests that women who have more children are more empowered than women with fewer or no children. The table also reveals that older women and women in the highest wealth quintile are more likely than other women to decide by themselves on how their cash earnings are used.

Women in urban areas (40 percent) are more likely than women in rural areas (34 percent) to make independent decisions about the use of the money they earn. In contrast, in both rural and urban areas about the same proportions of currently married women (approximately 55 percent) make joint decisions with their husbands.

There are regional variations in who makes decisions about how women's earnings are used. Among regions the percentage of women who make independent decisions on use of their earnings ranges from 56 percent in Somali to 20 percent in Tigray. Women in Tigray and Affar (both 71 percent) are most likely to decide jointly with their husbands how to spend the money they make. In Benishangul-Gumuz, husbands are the most likely (19 percent) to make decisions on the use of their wives' earnings. The proportion of women who make these decisions jointly with their husbands increases with education.

Women in urban areas are more likely than women in rural areas to earn more than their husbands. Among the regions, Dire Dawa has the highest proportion of women who earn more than their husbands. Similarly, women with more than secondary-level education and those living in households in the highest wealth quintile are more likely than other women to earn more than their husbands. Fourteen percent of women in Somali mentioned that their husbands had no earnings—the highest percentage among the regions.

14.2.2 Control Over Husband's Earnings

Currently married men who receive cash earnings were asked who decides how his cash earnings are spent. As Table 14.2.2 shows, three-fourths of currently married men age 15-49 who receive cash earnings report that they decide jointly with their wives. Twenty-two percent say they mainly make the decisions themselves. Only a small proportion of men (2 percent) say that decisions on how their earnings are used are mainly made by their wives.

Differences in background characteristics have little effect on men's reporting of who decides how a husband's earnings are used.

Sixty-eight percent of currently married women whose husbands receive cash earnings reported that they make joint decisions about how to spend their husbands' earnings. Twenty-seven percent reported that the decision is made by the husband only. Younger women, those living in rural areas, those in the Somali region, those with no education, and those belonging to households in the lowest wealth quintile are the least likely to participate in decision-making about how their husbands' earning are used.

Table 14.2.2 Control over men's cash earnings

Percent distributions of currently married men age 15-49 who receive cash earnings and of currently married women age 15-49 whose husbands receive cash earnings, by person who decides how husband's cash earnings are used, according to background characteristics, Ethiopia 2011

| | | | | Men | | | | | | | Women | | | |
|--|---|--|--|---|---|--|--|---|--|--|---|---|---|---|
| | | erson who band's cas us | h earning | | | | Un- | | who decide | | | | | Un- |
| Background characteristic | Mainly wife | Husband and wife jointly | Mainly husband | Missing | Total | Weighted number of men | weighted number of men | Mainly wife | Husband and wife jointly | Mainly husband | Missing | Total | number | weighted number of women |
| Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | (0.0) 1.5 2.4 1.5 2.2 3.8 2.3 | (71.8) 73.6 74.8 76.3 76.5 73.0 72.1 | (27.7) 22.3 21.6 22.1 20.9 23.1 24.9 | (0.5) 0.0 0.6 0.0 0.4 0.1 0.7 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 37 450 1,252 1,090 1,308 865 734 | 41 458 1,168 1,178 1,190 898 721 | 4.1 3.0 5.0 3.7 3.6 7.4 4.5 | 61.5 69.8 70.0 68.2 67.1 66.6 69.1 | 31.5 26.4 24.9 27.8 29.2 25.8 26.1 | 0.3 0.3 0.1 0.3 0.1 0.2 0.0 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 745 1,747 2,496 1,695 1,583 1,020 891 | 749 1,763 2,454 1,691 1,583 1,024 768 |
| Number of living children 0 1-2 3-4 5+ | 2.5 2.5 2.4 2.0 | 71.3 77.1 76.3 71.5 | 22.2 20.2 21.0 26.3 | 1.2 0.1 0.3 0.3 | 100.0 100.0 100.0 100.0 | 560 1,908 1,672 1,595 | 600 1,972 1,557 1,525 | 4.3 4.4 3.9 4.7 | 64.8 69.4 70.3 66.2 | 28.0 26.1 25.4 29.0 | 0.6 0.1 0.3 0.1 | 100.0 100.0 100.0 100.0 | 992 3,168 2,776 3,241 | 1,065 3,336 2,672 2,959 |
| Residence Urban Rural | 3.6 2.0 | 77.2 74.1 | 19.2 23.1 | 0.0 0.4 | 100.0 100.0 | 1,183 4,553 | 1,511 4,143 | 7.0 3.8 | 73.1 67.1 | 19.8 28.6 | 0.1 0.2 | 100.0 100.0 | 1,811 8,366 | 2,375 7,657 |
| Region Tigray Affar Amhara Oromiya Somali | 4.6 4.9 0.7 3.2 8.2 | 78.8 64.4 84.4 72.7 35.7 | 15.5 30.1 13.0 23.9 55.6 | 0.2 0.4 0.9 0.2 0.0 | 100.0 100.0 100.0 100.0 100.0 | 280 45 1,422 2,322 96 | 443 405 699 876 254 | 4.9 7.9 3.0 4.8 13.0 | 75.5 57.5 73.0 67.7 36.6 | 19.1 33.9 22.9 27.4 49.4 | 0.0 0.0 0.3 0.1 0.4 | 100.0 100.0 100.0 100.0 100.0 | 614 101 2,744 3,935 216 | 975 932 1,316 1,394 630 |
| Benishangul- Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 1.2 1.1 1.9 5.5 3.3 8.7 | 75.5 68.6 79.7 68.1 80.5 69.7 | 23.2 30.2 17.3 26.4 16.2 20.7 | 0.2 0.0 1.0 0.0 0.0 0.8 | 100.0 100.0 100.0 100.0 100.0 100.0 | 68 1,182 26 20 254 20 | 525 801 432 455 435 329 | 2.7 2.8 10.6 11.4 10.0 15.8 | 64.6 63.3 58.1 61.0 76.4 62.3 | 32.5 33.6 31.2 27.0 13.1 21.7 | 0.2 0.2 0.1 0.3 0.5 0.2 | 100.0 100.0 100.0 100.0 100.0 100.0 | 122 2,001 39 28 339 37 | 890 1,281 735 634 629 616 |
| Education No education Primary Secondary More than secondary | 2.3 2.0 1.9 5.6 | 74.6 73.5 79.0 81.4 | 21.9 24.3 19.1 | 0.8 0.0 0.0 | 100.0 100.0 100.0 | 2,299 2,719 355 363 | 2,129 2,559 480 486 | 4.2 4.2 8.3 4.4 | 65.9 71.0 73.3 83.5 | 29.4 24.2 17.9 | 0.2 0.2 0.5 | 100.0 100.0 100.0 | 6,652 2,844 371 | 6,457 2,689 521 365 |
| Wealth quintile Lowest Second Middle Fourth Highest | 1.8 1.9 2.4 1.8 3.5 | 71.2 75.9 75.9 72.3 77.6 | 26.1 21.6 20.8 25.2 18.7 | 0.2 0.5 0.3 0.6 0.0 | 100.0 100.0 100.0 100.0 100.0 | 1,017 1,112 1,130 1,140 1,337 | 1,207 875 897 998 1,677 | 4.8 3.3 3.1 3.5 7.0 | 61.8 69.7 65.8 71.4 72.3 | 32.8 26.4 30.5 24.9 20.3 | 0.0 0.3 0.2 0.2 0.2 | 100.0 100.0 100.0 100.0 100.0 | 2,062 2,095 2,066 1,895 2,060 | 2,665 1,653 1,561 1,561 2,592 |
| Total 15-49 50-59 Total 15-59 | 2.3 2.1 2.3 | 74.8 73.4 74.6 | 22.3 24.0 22.5 | 0.3 0.5 0.3 | 100.0 100.0 100.0 | 5,736 972 6,708 | 5,654 918 6,572 | 4.3 na na | 68.2 na na | 27.0 na na | 0.2 na na | 100.0 na na | 10,177 na na | 10,032 na na |

Note: Figures in parentheses are based on 25-49 unweighted cases na = Not applicable

14.3 Control Over Married Women's Earnings and Relative Size of Husband's and Wife's Earnings

For currently married women who earned cash in the 12 months before the survey, Table 14.3 shows who decides how the woman's cash earnings are used, according to the relative magnitude of the woman's and the husband's cash earnings. Women whose cash earnings exceed their husbands' are more likely to decide for themselves how their earnings are used (46 percent) than women who earn less than their husbands (42 percent) or who earn the same as their husbands (11 percent). In contrast, women who earn the same as their husbands are the most likely to report that decisions on the use of their earnings are mainly made jointly with their husbands (81 percent). Among women whose husbands have no cash earnings, 37 percent say that they mainly make the decisions regarding the use of their earnings, and 59 percent share the decision with their husbands.

Table 14.3 Women's control over their own earnings and over those of their husbands

Percent distribution of currently married women age 15-49 with cash earnings in the last 12 months by person who decides how the wife's cash earnings are used and percent distribution of currently married women age 15-49 whose husbands have cash earnings by person who decides how the husband's cash earnings, Ethiopia 2011

| | Person | who decid | Person who decides how wife's are used: | | cash earnings | | | | Pers | on who dec | Person who decides how husband's cash earnings are used: | usband's ed: | cash | | | |
|---|----------------|--|---|-------|---------------|-------|--------------------------------|----------------------------------|----------------|--------------------------|--|-----------------|---------|-------|--------------------------------|----------------------------------|
| Women's earnings relative to husband's earnings | Mainly wife | Wife and Mainly husband Mainly wife jointly husban | Vife and rusband Mainly jointly husband | Other | Missing | Total | Weighted number of women | Unweighted number of women | Mainly wife | Wife and husband jointly | Mainly husband | Other | Missing | Total | Weighted number of women | Unweighted number of women |
| More than husband | 46.4 | 50.9 | 2.3 | 0.0 | 0.0 | 100.0 | 365 | 388 | 13.5 | 69.3 | 17.1 | 0.0 | 0.0 | 100.0 | 365 | 388 |
| Less than husband | 41.7 | 48.8 | 9.5 | 0.1 | 0.0 | 100.0 | 2,403 | 2,282 | 4.6 | 65.0 | 30.5 | 0.0 | 0.0 | 100.0 | 2,403 | 2,282 |
| Same as husband | 10.7 | 80.9 | 8.3 | 0.1 | 0.0 | 100.0 | 710 | 618 | 3.0 | 83.7 | 13.3 | 0.0 | 0.0 | 100.0 | 710 | 618 |
| Husband has no cash earnings or | | | | | | | | | | | | | | | | |
| did not work | 36.6 | 58.8 | 0.1 | 0.0 | 0.0 | 100.0 | 23 | 9 | пa | na | na | na | na | na | na | na |
| Woman worked but has no cash | | | | | | | | | | | | | | | | |
| earnings | na | na | na | na | na | na | na | na | 3.2 | 71.2 | 24.9 | 0.3 | 0.4 | 100.0 | 2,217 | 1,555 |
| Woman did not work | na | na | na | na | na | na | na | na | 4.3 | 66.1 | 29.0 | 0.5 | 0.2 | 100.0 | 4,421 | 5,125 |
| Total ¹ | 35.9 | 55.0 | 8.4 | 0.1 | 9.0 | 100.0 | 3,592 | 3,417 | 4.3 | 68.2 | 27.0 | 0.3 | 0.2 | 100.0 | 10,177 | 10,032 |

na = Not applicable Includes cases where a woman does not know whether she earned more or less than her husband

Table 14.3 also shows who decides how the husband's cash earnings are used. Women whose cash earnings exceed their husbands' are more likely to report that they themselves decide how their husbands' earning are used (14 percent) than are those who earn less than their husbands (5 percent) or those who earn the same as their husbands (3 percent). Women who earn the same as their husbands are the most likely to report that decisions on the use of their husbands' earnings are mainly made jointly with their husbands (84 percent). Thirty-one percent of women who earn less their husbands say that their husbands decide on the use of their earnings.

14.4 OWNERSHIP OF ASSETS

Lack of assets makes women vulnerable to various forms of violence and affects her decision-making power in the family. Although Ethiopian laws give equal property rights to women, in fact tradition and women's low social and economic status limits their ownership of assets.

Table 14.4.1 shows that 11 percent of women own a house alone, and 45 percent, jointly. Two percent of women own houses both alone and jointly. Sole ownership of a house or land increases with age and decreases with education and wealth. Rural women are more likely to own assets than urban women. For instance, while 66 percent of rural women own a house alone or jointly, only 30 percent of urban women do. Similarly, 60 percent of rural women own land alone or jointly versus 18 percent of urban women.

As Table 14.4.2 shows, men age 15-49 are more likely than women age 15-49 to own a house or land alone and jointly (26-27 percent compared with 12-13 percent, respectively). Men age 35 or older, those living in rural areas, those with no education, and those living in households in the lowest wealth quintile are more likely than other men to own a house or land jointly.

| | Perce | ntage who house: | own a | Per- centage | | Percent | age who ov | wn land: | - Per- | <u> </u> | | Un- |
|---------------------------|-------|------------------|-------------------------|------------------------------|-------|------------|--------------|-------------------------|-----------------------------------|----------|--------------------------------|--------------------------------|
| Background characteristic | Alone | Jointly | Alone and jointly | who do not own a house | Total | Alone | Jointly | Alone and jointly | centage who do not own land | Total | Weighted number of women | weighted number of women |
| Age | | | | | | | | | | | | |
| 15-19 | 2.4 | 12.8 | 0.4 | 84.5 | 100.0 | 3.5 | 10.3 | 0.8 | 85.4 | 100.0 | 4,009 | 3,835 |
| 20-24 | 6.3 | 38.4 | 1.1 | 53.9 | 100.0 | 6.1 | 32.8 | 1.7 | 59.3 | 100.0 | 2,931 | 3,022 |
| 25-29 | 12.2 | 54.2 | 1.9 | 31.5 | 100.0 | 9.9 | 45.4 | 1.8 | 42.9 | 100.0 | 3,147 | 3,185 |
| 30-34 | 12.1 | 61.8 | 2.4 | 23.6 | 100.0 | 11.3 | 52.3 | 1.8 | 34.5 | 100.0 | 2,054 | 2,100 |
| 35-39 | 17.4 | 63.9 | 1.9 | 16.7 | 100.0 | 15.0 | 55.3 | 1.9 | 27.8 | 100.0 | 1,916 | 1,958 |
| 40-44 | 20.8 | 63.9 | 1.9 | 13.4 | 100.0 | 20.0 | 55.5 | 2.1 | 22.2 | 100.0 | 1,261 | 1,314 |
| 45-49 | 27.6 | 59.6 | 2.7 | 9.9 | 100.0 | 25.2 | 53.4 | 2.4 | 19.0 | 100.0 | 1,196 | 1,101 |
| Residence | 7.0 | 04.7 | 4.0 | 00.7 | 400.0 | 4.0 | 40.5 | 0.0 | 04.0 | 400.0 | 0.047 | F 000 |
| Urban | 7.3 | 21.7 | 1.2 | 69.7 | 100.0 | 4.9 | 12.5 | 0.9 | 81.6 | 100.0 | 3,947 | 5,329 |
| Rural | 12.3 | 51.7 | 1.6 | 34.2 | 100.0 | 12.0 | 46.0 | 1.8 | 40.1 | 100.0 | 12,568 | 11,186 |
| Region | 44.4 | 20.0 | 0.0 | 40.4 | 400.0 | 45.5 | 04.7 | 4.4 | F4.0 | 400.0 | 4 404 | 4 700 |
| Tigray | 11.4 | 39.6 | 0.8 | 48.1 | 100.0 | 15.5 | 31.7 | 1.1 | 51.6 | 100.0 | 1,104 | 1,728 |
| Affar | 16.8 | 46.4 | 1.6 | 35.1 | 100.0 | 5.6 | 15.2 | 1.2 | 78.0 | 100.0 | 145 | 1,291 |
| Amhara | 11.4 | 45.6 | 1.6 | 41.3 | 100.0 | 12.0 | 33.7 | 2.0 | 52.4 | 100.0 | 4,433 | 2,087 |
| Oromiya | 14.6 | 42.8 | 1.6 | 40.8 | 100.0 | 12.0 | 40.7 | 1.7 | 45.6 | 100.0 | 6,011 | 2,135 |
| Somali | 7.9 | 51.0 | 2.9 | 38.0 | 100.0 | 5.5 | 32.4 | 3.2 | 58.7 | 100.0 | 329 | 914 |
| Benishangul- | 7.6 | 59.0 | 1 5 | 31.8 | 100.0 | 7.0 | 48.7 | 1.0 | 42.9 | 100.0 | 174 | 4.050 |
| Gumuz SNNP | 7.6 | 59.0 57.2 | 1.5 | | | 7.2 | 46.7 52.9 | | | | | 1,259 |
| | 5.9 | | 1.0 | 36.0 | 100.0 | 6.3 | | 1.2 | 39.6 | 100.0 | 3,236 | 2,034 |
| Gambela | 26.6 | 23.7 | 4.3 | 45.2 | 100.0 | 18.5 | 18.6 | 5.0 | 57.8 | 100.0 | 69 | 1,130 |
| Harari | 7.8 | 22.5 | 7.1 | 62.2 | 100.0 | 5.2 | 17.3 | 6.3 | 71.0 | 100.0 | 49 | 1,101 |
| Addis Ababa | 5.6 | 10.1 | 2.4 0.5 | 81.7 | 100.0 | 2.5 4.2 | 3.4 | 0.8 | 93.2 | 100.0 | 896 | 1,741 |
| Dire Dawa | 7.2 | 24.2 | 0.5 | 68.0 | 100.0 | 4.2 | 17.4 | 0.5 | 77.8 | 100.0 | 69 | 1,095 |
| Education | 16.1 | 60.5 | 1.9 | 21.4 | 100.0 | 15.0 | 52.6 | 2.2 | 30.1 | 100.0 | 8,394 | 8,278 |
| No education | | 31.4 | 1.9 | | | 6.2 | 52.6 27.1 | 0.9 | | 100.0 | | 5,858 |
| Primary | 6.1 | | | 61.4 | 100.0 | | | | 65.8 | | 6,276 | |
| Secondary | 6.2 | 15.2 | 0.8 | 77.7 | 100.0 | 3.1 | 9.3 | 1.3 | 86.1 | 100.0 | 1,117 | 1,395 |
| More than secondary | 5.2 | 19.0 | 2.5 | 73.2 | 100.0 | 2.8 | 7.8 | 0.9 | 88.5 | 100.0 | 728 | 984 |
| • | 5.2 | 19.0 | 2.5 | 13.2 | 100.0 | 2.0 | 7.0 | 0.9 | 00.5 | 100.0 | 120 | 304 |
| Wealth quintile | 110 | EE 0 | 2.2 | 27.4 | 100.0 | 112 | 46 F | 0.4 | 27.0 | 100.0 | 2.000 | 0.744 |
| Lowest | 14.9 | 55.2 | 2.2 | 27.4 | 100.0 | 14.3 | 46.5 | 2.1 2.2 | 37.0 | 100.0 | 2,986 | 3,711 |
| Second | 12.7 | 55.0 | 1.8 | 30.3 | 100.0 | 13.0 | 49.3 | | 35.5 | 100.0 | 3,041 | 2,402 |
| Middle | 11.9 | 52.8 | 1.3 | 34.0 | 100.0 | 11.1 | 47.6 | 1.7 | 39.4 | 100.0 | 3,031 | 2,268 |
| Fourth | 10.6 | 46.4 | 1.3 | 41.7 | 100.0 | 10.0 | 42.3 | 1.2 | 46.5 | 100.0 | 3,215 | 2,505 |
| Highest | 7.1 | 22.2 | 1.3 | 69.3 | 100.0 | 5.3 | 13.8 | 1.0 | 79.9 | 100.0 | 4,242 | 5,629 |
| Total | 11.1 | 44.6 | 1.5 | 42.7 | 100.0 | 10.3 | 38.0 | 1.6 | 50.0 | 100.0 | 16,515 | 16,515 |

Table 14.4.2 Ownership of assets: Men

Percent distribution of men age 15-49 by ownership of housing and land, according to background characteristics, Ethiopia 2011

| | Perce | entage who a house: | own | - | | Percent | age who o | wn land: | | | | |
|---|---|--|---|--|--|---|---|---|--|---|--|---|
| Background characteristic | Alone | Jointly | Alone and jointly | Percentage who do not own a house | Total | Alone | Jointly | Alone and jointly | Percentage who do not own land | Total | Weighted number of men | Unweighted number of men |
| Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 3.7 17.3 31.5 36.8 40.5 38.6 38.8 | 8.3 12.2 29.0 40.0 42.0 45.8 50.1 | 0.2 0.2 0.6 0.4 1.0 1.7 2.0 | 87.8 70.1 39.0 22.8 16.5 13.8 9.1 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 8.2 20.7 29.6 30.0 38.4 37.8 36.6 | 8.2 13.0 25.2 35.2 35.8 39.0 45.7 | 0.2 1.0 1.7 1.5 2.0 2.6 1.5 | 83.3 65.2 43.6 33.3 23.8 20.6 16.1 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 3,013 2,319 2,297 1,483 1,648 1,121 952 | 2,832 2,330 2,274 1,682 1,579 1,210 961 |
| Residence Urban Rural | 14.5 28.5 | 18.3 29.6 | 0.3 0.8 | 66.9 41.1 | 100.0 100.0 | 12.3 29.2 | 9.5 28.5 | 0.6 1.5 | 77.6 40.8 | 100.0 100.0 | 2,882 9,952 | 3,915 8,953 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa Education No education Primary Secondary More than secondary | 10.5 37.6 24.6 29.8 41.2 16.2 24.1 45.4 35.5 9.5 35.2 35.1 22.4 16.0 20.5 | 30.5 17.2 27.3 23.9 14.7 39.8 38.2 3.1 12.2 15.5 4.7 37.6 25.2 15.3 14.9 | 0.4 0.3 0.5 0.7 1.6 1.3 0.8 0.4 0.3 0.2 0.6 | 58.6 44.9 47.6 45.5 42.3 42.7 36.9 51.2 51.9 74.8 59.4 26.5 51.7 68.3 64.5 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 18.0 17.3 21.8 31.9 34.6 12.8 25.3 38.3 24.4 4.6 24.9 33.5 24.0 15.2 17.0 | 21.9 6.0 19.4 24.6 15.0 33.6 40.1 4.9 14.1 3.3 4.3 32.3 24.2 13.2 7.7 | 0.6 0.5 1.0 0.9 3.1 1.7 2.9 1.3 0.1 0.3 1.1 | 59.5 76.2 57.7 42.5 47.0 51.8 31.7 55.5 61.4 91.7 69.7 32.4 50.5 71.0 74.8 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 3,785 6,813 1,296 940 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 3,659 6,334 1,565 1,310 |
| Wealth quintile Lowest Second Middle Fourth Highest | 27.9 27.6 32.8 25.9 15.8 | 36.0 33.2 27.8 26.0 17.0 | 0.4 0.7 1.1 0.8 0.4 | 35.5 38.5 38.4 47.4 66.8 | 100.0 100.0 100.0 100.0 100.0 | 26.9 28.7 32.9 27.3 14.6 | 33.5 32.0 25.5 26.6 9.4 | 1.9 1.0 1.5 1.8 0.5 | 37.6 38.3 40.0 44.3 75.5 | 100.0 100.0 100.0 100.0 100.0 | 2,141 2,362 2,454 2,683 3,194 | 2,563 1,891 1,935 2,203 4,276 |
| Total 15-49 50-59 Total 15-59 | 25.3 44.8 27.1 | 27.1 45.3 28.7 | 0.7 1.3 0.7 | 46.9 8.6 43.4 | 100.0 100.0 100.0 | 25.4 40.8 26.8 | 24.3 42.1 25.9 | 1.3 3.0 1.5 | 49.0 14.1 45.9 | 100.0 100.0 100.0 | 12,834 1,276 14,110 | 12,868 1,242 14,110 |

14.5 WOMEN'S PARTICIPATION IN DECISION-MAKING

Decision-making can be a complex process, and the ability of women to make decisions that affect the circumstances of their own lives an essential aspect of their empowerment.

In order to assess women's decision-making autonomy, the 2011 EDHS collected information on women's participation in three types of household decisions: respondent's own health care, making major household purchases, and visits to family or relatives. Table 14.5 shows the percent distribution of currently married women according to the person in the household who usually makes decisions concerning these matters. Women are considered to participate in a decision if they usually make that decision alone or jointly with their husbands.

The strength of the role of women in decision-making varies with the type of decision. Thirteen percent of currently married women make their own decisions on their own health care, while one woman of every four said that her husband mainly makes such decisions. Decisions on large household purchases are most likely to be made jointly by wife and husband (60 percent), while for almost half that percentage (33 percent) the husband alone mainly makes those decisions. Only 6 percent of women make these decisions by themselves. Sixty-one percent of women said that decisions to visit family or relatives are made jointly with their husbands.

Currently married men also were asked who makes decisions about two specific issues: their own health care and major household purchases. As Table 14.5 shows, 35 percent of currently married men mainly make decisions on their own health, and 29 percent said that they make the decisions on major household purchases. Two-thirds of men make such decisions jointly with their wives. According to men, only in rare instances are wives the chief decision-makers about their husbands' health care (2 percent) or about major household purchases (3 percent).

Table 14.5 Participation in decision-making

Percent distribution of currently married women and currently married men age 15-49 by person who usually makes decisions about various issues, Ethiopia 2011

| Decision | Mainly wife | Wife and husband jointly | Mainly husband | Someone else | Other | Missing | Total | Weighted number of respondents | Unweighted number of respondents |
|---|---------------------|--------------------------|----------------------|-------------------|-------------------|-------------------|-------------------------|--------------------------------------|----------------------------------|
| | | | WC | MEN | | | | | |
| Own health care Major household purchases Visits to her family or relatives | 13.4 5.8 17.2 | 61.0 60.4 60.6 | 24.9 32.8 21.3 | 0.4 0.8 0.6 | 0.2 0.1 0.1 | 0.2 0.2 0.2 | 100.0 100.0 100.0 | 10,287 10,287 10,287 | 10,204 10,204 10,204 |
| | | | M | IEN | | | | | |
| Own health care Major household purchases | 2.0 2.7 | 62.7 67.2 | 34.6 29.2 | 0.5 0.7 | 0.1 0.1 | 0.1 0.1 | 100.0 100.0 | 6,872 6,872 | 6,775 6,775 |

Table 14.6 Women's participation in decision-making by background characteristics

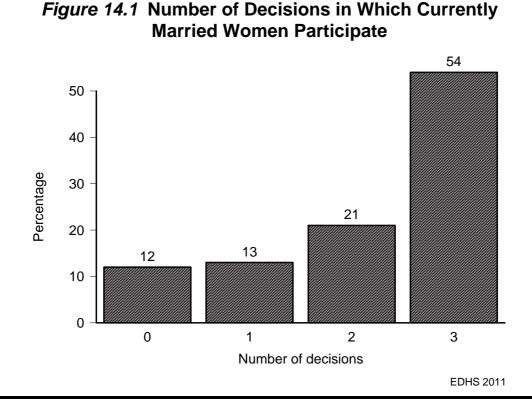
Percentage of currently married women age 15-49 who usually make specific decisions either by themselves or jointly with their husbands, by background characteristics, Ethiopia 2011

| | (| Specific decision | S | | Percentage | | |
|-----------------------------|-------------------------------|--|-----------------------------------|---|--|--------------------------------|----------------------------|
| Background characteristic | Woman's own health care | Making major household purchases | Visits to her family or relatives | Percentage who participate in all three decisions | who participate in none of the three decisions | Weighted number of women | Unweighted number of women |
| Age | | | | | | | |
| 15-19 | 68.8 | 61.0 | 72.8 | 46.6 | 14.7 | 765 | 784 |
| 20-24 | 72.7 | 67.0 | 77.6 | 54.2 | 11.3 | 1,762 | 1,788 |
| 25-29 | 76.0 | 68.0 | 76.9 | 55.4 | 11.3 | 2,511 | 2,480 |
| 30-34 | 74.2 | 67.5 | 80.5 | 54.9 | 10.2 | 1,720 | 1,722 |
| 35-39 | 76.1 | 64.7 | 78.6 | 56.0 | 12.2 | 1,591 | 1,600 |
| 40-44 | 75.2 | 65.1 | 76.6 | 52.9 | 10.8 | 1,033 | 1,047 |
| 45-49 | 73.9 | 65.1 | 79.9 | 56.1 | 11.8 | 905 | 783 |
| Employment (last 12 months) | | | | | | | |
| Not employed | 70.8 | 61.9 | 75.0 | 50.8 | 14.6 | 4,468 | 5,218 |
| Employed for cash | 78.4 | 71.1 | 81.9 | 58.7 | 7.7 | 3,592 | 3,417 |
| Employed not for cash | 75.1 | 66.6 | 76.8 | 54.4 | 11.5 | 2,216 | 1,556 |
| Number of living children | | | | | | | |
| 0 | 73.6 | 67.7 | 76.9 | 53.8 | 12.3 | 1.018 | 1.104 |
| 1-2 | 75.7 | 68.1 | 78.4 | 56.5 | 10.3 | 3,193 | 3,381 |
| 3-4 | 75.0 | 67.6 | 78.6 | 55.1 | 10.7 | 2,809 | 2,718 |
| 5+ | 72.7 | 62.6 | 76.9 | 51.8 | 13.1 | 3,267 | 3,001 |
| Residence | | | | | | | |
| Urban | 86.9 | 79.3 | 87.0 | 70.3 | 4.6 | 1,843 | 2,422 |
| Rural | 71.6 | 63.3 | 75.8 | 50.9 | 13.0 | 8,444 | 7,782 |
| Region | | 00.0 | . 0.0 | 00.0 | | 0, | ., |
| Tigray | 87.1 | 68.9 | 84.1 | 61.3 | 5.9 | 620 | 984 |
| Affar | 72.8 | 64.7 | 70.3 | 51.5 | 14.7 | 104 | 960 |
| Amhara | 79.8 | 67.9 | 80.1 | 58.5 | 9.3 | 2,776 | 1,331 |
| Oromiya | 71.9 | 69.4 | 77.3 | 54.8 | 11.8 | 3,961 | 1,403 |
| Somali | 54.6 | 47.4 | 53.1 | 31.1 | 28.0 | 232 | 664 |
| Benishangul-Gumuz | 70.9 | 62.3 | 72.9 | 50.1 | 15.6 | 124 | 904 |
| SNNP | 67.6 | 55.2 | 75.0 | 44.8 | 15.2 | 2,022 | 1,295 |
| Gambela | 71.3 | 61.7 | 69.6 | 45.0 | 12.1 | 41 | 768 |
| Harari | 81.3 | 75.9 | 84.6 | 65.0 | 5.5 | 28 | 635 |
| Addis Ababa | 90.2 | 87.4 | 91.2 | 77.5 | 1.6 | 342 | 634 |
| Dire Dawa | 80.5 | 77.3 | 78.4 | 64.3 | 9.7 | 38 | 626 |
| Education | | | | | | | |
| No education | 71.1 | 63.2 | 75.3 | 50.8 | 13.7 | 6,735 | 6,569 |
| Primary | 77.5 | 67.6 | 80.3 | 55.8 | 8.8 | 2,862 | 2,739 |
| Secondary | 89.5 | 87.6 | 89.3 | 78.0 | 2.6 | 378 | 528 |
| More than secondary | 97.0 | 90.7 | 96.7 | 88.1 | 0.7 | 313 | 368 |
| Wealth quintile | | | | | | | |
| Lowest | 68.5 | 57.4 | 71.7 | 47.0 | 17.1 | 2,077 | 2.724 |
| Second | 71.8 | 63.8 | 75.7 | 51.4 | 13.2 | 2,117 | 1,676 |
| Middle | 71.8 70.1 | 62.9 | 75.7 75.9 | 49.6 | 12.6 | 2,083 | 1,585 |
| Fourth | 76.6 | 67.3 | 78.8 | 54.7 | 10.1 | 1,923 | 1,590 |
| Highest | 85.1 | 79.4 | 87.1 | 69.1 | 4.4 | 2,087 | 2,629 |
| = | 74.4 | 66.1 | 77.8 | | | | |
| Total | /4.4 | 00.1 | 77.8 | 54.4 | 11.5 | 10,287 | 10,204 |

Note: Total includes 13 cases with missing information on employment in the last 12 months.

Table 14.6 shows the percentage of women who participate in the three decisions (woman's health care, making household purchases, and visits to her family or relatives), by background characteristics. Women's participation in decision-making increases with education. Urban women and women who are in the highest wealth quintile are more likely to participate in decision-making than rural women and those in lower wealth quintiles. Similarly, women who are employed for cash are more likely than women not employed or not employed for cash to participate in decision-making. Among regions women in Addis Ababa are the most involved in decision-making, while women in Somali are the least likely to be involved.

Figure 14.1 shows the number of decisions in which currently married women participate. More than half of currently married women (54 percent) participate in three decisions, 21 percent participate in two of three decisions, and 12 percent do not participate in any decisions. Almost all men participate in decision-making regarding their own health (97 percent) as well as in making major household purchases (96 percent) (data not shown).



14.6 ATTITUDE TOWARDS WIFE BEATING

All violence against women has serious consequences for their mental and physical well-being, including their reproductive and sexual health (WHO, 1999). Wife beating is a form of physical violence that particularly degrades women. It is also a violation of women's human rights. Worldwide, abuse by a husband is one of the most common forms of violence against women (Heise et al., 1999). Acceptance of this practice reflects women's low status and the perception that men are superior to women. In addition to adverse physical health outcomes, this form of violence lowers a woman's self-esteem and her image in society, leading to her disempowerment.

Domestic violence is common in Ethiopia, in both urban and rural families. When a society tolerates and accepts violence against women, its eradication is more difficult. The Government of Ethiopia revised its family law in 2000 and its criminal law in 2005 to protect the rights of women and children and to promote gender equality and equity.

Women who believe that a husband is justified in hitting or beating his wife may believe themselves to be of low status. Such a perception could act as a barrier to accessing health care for themselves and their children, affect their attitude towards contraceptive use, and damage their general well-being.

The 2011 EDHS gathered information on attitudes towards wife beating. Women and men were asked whether a husband is justified in beating his wife in various circumstances: if the wife burns the food, argues with him, goes out without telling him, neglects the children, or refuses sexual intercourse with him.

Table 14.7.1 shows that two women of every three (68 percent) agree that wife beating is justified in at least one of the specified situations. The proportion of women who believe that wife beating is justified for at least one of the specified situations has declined from 81 percent in the 2005 EDHS. This trend suggests that Ethiopian women are less likely to accept wife beating than in the past.

Table 14.7.1 Attitude towards wife beating: Women

Percentage of all women age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, by background characteristics, Ethiopia 2011

| Background characteristic | Burns | | 0 | | Refuses to | Percentage who agree | | |
|--|--------------|--------------------|------------------------------------|--------------------------|--|--|--------------------------------|----------------------------------|
| Age | the food | Argues with him | Goes out without telling him | Neglects the children | have sexual intercourse with him | with at least one specified reason | Weighted number of women | Unweighted number of women |
| | | | | | | | | |
| 15-19 | 41.1 | 39.1 | 35.4 | 45.8 | 31.2 | 64.1 | 4,009 | 3,835 |
| 20-24 | 43.1 | 44.1 | 40.3 | 51.6 | 34.9 | 65.7 | 2,931 | 3,022 |
| 25-29 | 48.9 | 48.0 | 47.4 | 52.7 | 41.5 | 70.1 | 3,147 | 3,185 |
| 30-34 | 49.2 | 46.6 | 44.8 | 53.4 | 41.5 | 69.4 | 2,054 | 2,100 |
| 35-39 40-44 | 52.8 | 48.1 | 49.4 45.4 | 54.6 | 42.0 | 71.2 73.4 | 1,916 | 1,958 |
| 40-44 45-49 | 52.6 56.6 | 47.7 53.4 | 45.4 50.0 | 55.5 57.9 | 43.3 49.0 | 73.4 74.2 | 1,261 1,196 | 1,314 1,101 |
| | 00.0 | 00 | 00.0 | 00 | .0.0 | | ., | ., |
| Employment (last 12 months) Not employed | 48.4 | 46.5 | 43.9 | 53.2 | 40.5 | 68.7 | 6,971 | 7,975 |
| Employed for cash | 42.3 | 41.3 | 39.9 | 47.1 | 34.2 | 63.1 | 6,015 | 6,054 |
| Employed not for cash | 53.7 | 50.2 | 47.3 | 56.8 | 42.2 | 76.9 | 3,508 | 2,469 |
| Number of living children | | | | | | | | |
| 0 | 36.4 | 36.3 | 33.1 | 43.1 | 27.8 | 59.3 | 5,708 | 5,771 |
| 1-2 | 46.3 | 45.1 | 43.3 | 51.2 | 38.6 | 67.7 | 3,987 | 4,257 |
| 3-4 | 55.6 | 51.6 | 50.7 | 57.9 | 46.5 | 75.2 | 3,219 | 3,151 |
| 5+ | 58.2 | 54.3 | 52.2 | 60.6 | 48.5 | 77.6 | 3,601 | 3,336 |
| Marital status | | | | | | | | |
| Never married | 33.2 | 33.3 | 30.1 | 41.4 | 25.0 | 56.6 | 4,469 | 4,413 |
| Married or living together | 53.1 | 50.7 | 49.4 | 56.7 | 44.6 | 73.7 | 10,287 | 10,204 |
| Divorced/separated/widowed | 49.4 | 45.0 | 40.1 | 49.3 | 38.1 | 67.7 | 1,758 | 1,898 |
| Residence | | | | | | | | |
| Urban | 21.9 | 25.6 | 24.3 | 34.7 | 18.1 | 45.8 | 3,947 | 5,329 |
| Rural | 55.3 | 51.6 | 49.1 | 57.1 | 45.0 | 75.5 | 12,568 | 11,186 |
| Region | | 40.0 | | | | o= 4 | | . === |
| Tigray | 38.5 | 42.8 | 37.5 | 54.2 | 24.6 | 67.1 | 1,104 | 1,728 |
| Affar Amhara | 48.5 48.9 | 59.1 47.4 | 54.7 41.0 | 53.2 54.0 | 56.1 35.0 | 72.6 75.2 | 145 4,433 | 1,291 2,087 |
| Oromiya | 47.4 | 42.9 | 42.7 | 48.2 | 41.6 | 65.6 | 6,011 | 2,135 |
| Somali | 48.3 | 62.2 | 59.8 | 66.5 | 59.4 | 82.2 | 329 | 914 |
| Benishangul-Gumuz | 40.4 | 39.0 | 38.7 | 45.8 | 30.6 | 62.4 | 174 | 1,259 |
| SNNP | 60.0 | 56.2 | 55.9 | 63.3 | 49.7 | 76.5 | 3,236 | 2,034 |
| Gambela | 39.5 | 43.1 | 43.9 | 50.1 | 29.1 | 65.9 | 69 | 1,130 |
| Harari | 32.0 | 35.1 | 35.7 | 45.6 | 34.6 | 58.4 | 49 | 1,101 |
| Addis Ababa | 7.2 | 10.5 | 12.0 | 17.0 | 6.5 | 23.9 | 896 | 1,741 |
| Dire Dawa | 25.0 | 27.7 | 32.0 | 33.9 | 25.4 | 46.8 | 69 | 1,095 |
| Education | F0 F | 55.0 | 50.0 | 00.0 | 40.0 | 70.0 | 0.004 | 0.070 |
| No education | 59.5 41.5 | 55.6 | 53.0 | 60.6 47.5 | 48.9 | 78.9 64.6 | 8,394 6,276 | 8,278 |
| Primary Secondary | 41.5 15.3 | 40.5 19.0 | 38.3 18.9 | 47.5 30.7 | 32.8 14.1 | 64.6 41.6 | 6,276 1,117 | 5,858 1,395 |
| More than secondary | 5.9 | 10.1 | 9.4 | 30.7 17.9 | 6.4 | 21.7 | 728 | 984 |
| Wealth quintile | | | | | | | | |
| Lowest | 60.4 | 58.0 | 53.9 | 63.4 | 49.9 | 80.9 | 2,986 | 3,711 |
| Second | 58.9 | 52.4 | 51.1 | 58.8 | 46.4 | 78.0 | 3,041 | 2,402 |
| Middle | 56.3 | 51.4 | 48.8 | 56.1 | 44.0 | 76.0 | 3,031 | 2,268 |
| Fourth | 48.6 | 47.0 | 44.7 | 52.6 | 41.7 | 70.6 | 3,215 | 2,505 |
| Highest | 22.3 | 25.9 | 24.8 | 34.8 | 18.7 | 45.8 | 4,242 | 5,629 |
| Total | 47.3 | 45.4 | 43.2 | 51.8 | 38.6 | 68.4 | 16,515 | 16,515 |

Note: Total includes 17 cases with missing information on employment in the last 12 months.

The proportion of women who believe that a husband is justified in beating his wife increases with the woman's age. Women who are currently married or living together and women who are employed but not for cash are more likely than other women to believe that there are occasions when wife beating is justified. In addition, the more children a woman has, the more likely she is to believe that wife beating is justified.

Women's attitudes towards wife beating were also examined according to residence and region. In rural areas three women of every four (76 percent) agree with at least one specified justification for wife beating, compared with 46 percent of urban women. Among regions there is a large variation in the proportion of women who agree with at least one specified justification for wife beating, from 82 percent in the Somali region to 24 percent in Addis Ababa.

The acceptance of wife beating inversely correlates with education and wealth. Women with no education are more than three times as likely as women with more than secondary education to agree with at least one specified justification for wife beating (79 percent and 22 percent, respectively). Similarly, 81 percent of women in the lowest wealth quintile agree with at least one specified justification for wife beating, compared with 46 percent of women in the highest wealth quintile.

Table 14.7.2 shows men's attitudes towards wife beating. Forty-five percent of men agree that wife beating is justified in at least one of the specified situations. This proportion is slightly lower than in the 2005 EDHS (52 percent). Although the declines are not large, they may indicate that wife beating is increasingly unacceptable among men.

Table 14.7.2 Attitude towards wife beating: Men

Percentage of all men age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, by background characteristics, Ethiopia 2011

| | Н | sband is justifie | ed in hitting or be | eating his wife if s | he: | Percentage | | |
|---|--|---|---|---|---|--|--|---|
| Background characteristic | Burns the food | Argues with him | Goes out without telling him | Neglects the children | Refuses to have sexual intercourse with him | who agree with at least one specified reason | Weighted number of men | Unweighted number of men |
| Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 25.5 22.1 21.1 19.4 20.4 18.8 21.1 | 28.7 25.8 25.1 23.4 25.0 22.7 26.8 | 25.6 25.0 26.4 20.4 26.8 24.7 27.8 | 34.1 32.1 30.8 26.3 25.9 27.8 28.3 | 25.8 21.5 21.0 18.7 19.0 17.9 | 51.0 44.1 44.4 39.4 43.2 42.0 43.0 | 3,013 2,319 2,297 1,483 1,648 1,121 952 | 2,832 2,330 2,274 1,682 1,579 1,210 961 |
| Employment (last 12 months) Not employed Employed for cash Employed not for cash | 12.6 20.9 26.0 | 17.8 25.0 29.2 | 15.7 24.9 28.2 | 28.1 28.6 34.6 | 14.6 20.6 24.5 | 40.9 43.4 49.2 | 680 8,615 3,527 | 951 8,841 3,062 |
| Number of living children 0 1-2 3-4 5+ | 21.6 21.7 21.2 23.6 | 25.0 25.4 27.1 27.3 | 23.5 26.5 27.0 28.0 | 30.2 29.9 29.9 30.8 | 22.2 19.0 20.4 22.4 | 44.4 43.7 47.3 45.4 | 6,465 2,338 2,038 1,994 | 6,534 2,463 1,922 1,949 |
| Marital status Never married Married or living together Divorced/separated/widowed | 21.6 21.9 24.9 | 24.5 26.7 27.8 | 22.9 27.0 28.1 | 29.5 30.4 37.9 | 22.0 20.7 23.9 | 44.1 45.3 49.8 | 5,600 6,872 363 | 5,641 6,775 452 |
| Residence Urban Rural | 5.4 26.6 | 9.7 30.4 | 10.4 29.6 | 14.4 34.8 | 7.4 25.4 | 24.8 50.7 | 2,882 9,952 | 3,915 8,953 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 23.2 23.0 22.6 19.1 18.9 23.6 32.7 16.8 12.8 2.4 8.9 | 25.7 29.6 27.2 23.7 34.0 25.9 33.8 18.3 20.0 4.6 14.8 | 27.5 29.4 29.5 19.6 31.6 30.1 35.9 19.2 18.9 4.5 13.5 | 35.5 29.8 34.3 24.6 38.3 37.4 40.6 26.3 24.2 6.5 15.2 | 19.6 26.8 20.5 21.4 35.3 19.3 27.7 12.7 16.5 2.6 10.2 | 46.0 42.6 51.3 39.5 57.7 48.7 55.5 39.4 36.1 11.2 25.2 | 770 101 3,481 4,957 245 138 2,307 59 40 682 53 | 1,235 910 1,739 1,889 653 1,047 1,550 865 898 1,237 845 |
| Education No education Primary Secondary More than secondary | 31.1 22.0 8.8 1.6 | 36.5 25.7 10.5 3.9 | 37.1 24.1 11.7 4.8 | 40.1 30.5 16.6 7.0 | 29.7 21.6 8.8 3.4 | 58.8 45.2 26.6 11.5 | 3,785 6,813 1,296 940 | 3,659 6,334 1,565 1,310 |
| Wealth quintile Lowest Second Middle Fourth Highest | 33.3 29.1 26.3 20.6 6.4 | 37.6 33.7 30.6 23.5 10.2 | 36.1 33.2 29.6 22.1 11.5 | 41.1 39.9 33.3 28.5 14.8 | 31.0 29.2 24.5 19.9 7.8 | 57.9 55.3 51.5 42.9 24.9 | 2,141 2,362 2,454 2,683 3,194 | 2,563 1,891 1,935 2,203 4,276 |
| Total 15-49 50-59 Total 15-59 | 21.8 21.5 21.8 | 25.8 25.9 25.8 | 25.3 27.9 25.5 | 30.2 29.6 30.1 | 21.3 21.9 21.4 | 44.9 42.8 44.7 | 12,834 1,276 14,110 | 12,868 1,242 14,110 |

Note: Total includes 14 cases with missing information on employment in the last 12 months.

As in the finding for female respondents, there are only small age differentials in men's attitudes towards wife beating. The acceptability of wife beating is slightly higher among divorced, separated, and widowed men than among men who never married or who are currently married or living together with a woman.

As was observed for female respondents, men living in rural areas are more likely than men living in urban areas to accept wife beating (51 percent and 25 percent, respectively). Like women's beliefs, men's beliefs vary greatly among regions. Men in Somali and SNNP are the most likely to agree that wife beating is justified for at least one specified reason (58 percent and 56 percent, respectively).

Among men as among women, the acceptance of wife beating inversely correlates with education and wealth. Fifty-nine percent of men with no education agree with at least one specified reason for wife beating, compared with 12 percent of men with more than secondary education. Likewise, men in the lowest wealth quintile are more than twice as likely as men in the highest quintile to agree with at least one specified reason for wife beating (58 percent and 25 percent, respectively).

14.7 WOMEN'S EMPOWERMENT INDICES

Two women's empowerment indices were created for the 2011 EDHS—namely, women's participation in making household decisions and women's attitudes towards wife beating. The distribution of women by these two indices is then linked to select demographic and health indicators such as contraceptive use, ideal family size, unmet need for family planning, utilization of reproductive health care, and childhood mortality.

The index of women's participation in household decisions ranges in value from 0 to 3 and corresponds with the number of decisions in which women participate alone or jointly with their husbands/partners (see Table 14.6.1 for the list of decisions). This index reflects the degree of decision-making control that women are able to exercise in areas that affect their own lives and environments. A high score on this index indicates a high level of empowerment.

The index of women's attitudes towards wife beating ranges in value from 0 to 5 and corresponds with the total number of reasons for which the respondent feels that a husband is justified in beating his wife (see Table 14.7.1 for the list of reasons). A low score on this index reflects a greater sense of self-worth and higher status of women.

Table 14.8 shows how these two indices relate to each other. In general, the expectation is that women who participate more in making household decisions will be less likely to endorse wife beating. The percentage of women who do not agree with wife beating under any circumstance increases from 15 percent among women who do not participate in any decisions to 33 percent among women who participate in all three decisions. Women who agree with all five justifications for wife beating are the least likely (45 percent) to participate in decision-making, while women who disagree with all of the reasons to justify wife beating are the most likely to participate in all decisions (68 percent). In other words, participation in making household decisions declines as the number of justifications for wife beating increases.

Table 14.8 Indicators of women's empowerment

Percentage of currently married women age 15-49 who participate in all decision-making and the percentage who disagree with all of the reasons justifying wife-beating, by value on each of the indices of women's empowerment, Ethiopia 2011

| Empowerment index | Percentage who participate in all decision- making | Percentage who disagree with all the reasons justifying wife beating | Weighted number of women | Unweighted number of women |
|--|---|---|--------------------------------|----------------------------------|
| Number of decisions in which | | | | |
| women participate ¹ | | | | |
| 0 | na | 14.6 | 1,183 | 1,302 |
| 1-2 | na | 19.4 | 3,513 | 3,520 |
| 3 | na | 33.1 | 5,591 | 5,382 |
| Number of reasons for which wife- beating is justified ² | | | | |
| 0 | 68.4 | na | 2,707 | 2,990 |
| 1-2 | 53.2 | na | 2,266 | 2,122 |
| 3-4 | 50.6 | na | 2,646 | 2,499 |
| 5 | 44.8 | na | 2,669 | 2,593 |

na = Not applicable

14.8 CURRENT USE OF CONTRACEPTION BY WOMEN'S STATUS

A woman's ability to control her fertility and the method of contraception she uses are likely to be affected by her self-image and sense of empowerment. A woman who feels that she is unable to control other aspects of her life may be less likely to feel she can make decisions regarding fertility. She may also feel the need to choose methods that are easier to conceal from her husband or partner.

Table 14.9 shows the relationship of each of the two empowerment indices to current use of contraceptive methods among currently married women age 15-49. The two empowerment indices and contraceptive use are positively associated. For example, the proportion of currently married women who are using any method of contraception rises, from 16 percent among women who do not participate in any household decision-making to 34 percent among women who participate in all three decisions. Use of any method of contraception decreases with the increase in the number of reasons that a woman thinks wife beating is justified. Four women in every ten (41 percent) who do not feel that wife beating is justified for any reason are using a contraceptive method, compared with two in every ten women (20 percent) who believe that wife beating is justified for all five reasons.

¹ See Table 14.6 for the list of decisions.

² See Table 14.7.1 for the list of reasons.

Table 14.9 Current use of contraception by women's empowerment

Percent distribution of currently married women age 15-49 by current contraceptive method, according to selected indices of women's status, Ethiopia 2011

| | | | Mo | odern method | ls | | | | | |
|--|---------------|--------------------------------------|----------------------|---|----------------|------------------------------|---------------------------|-------|--------------------------------|----------------------------|
| Empowerment index | Any method | Any modern method ¹ | Female sterilization | Temporary modern female methods ¹ | Male condom | Any traditional method | Not currently using | Total | Weighted number of women | Unweighted number of women |
| Number of decisions in which women participate ² | | | | | | | | | | |
| 0 | 16.3 | 16.0 | 0.1 | 15.9 | 0.0 | 0.3 | 83.7 | 100.0 | 1,183 | 1,302 |
| 1-2 | 24.6 | 23.6 | 0.4 | 23.0 | 0.1 | 1.1 | 75.4 | 100.0 | 3,513 | 3,520 |
| 3 | 33.7 | 32.1 | 0.6 | 31.3 | 0.3 | 1.6 | 66.3 | 100.0 | 5,591 | 5,382 |
| Number of reasons for which wife-beating is justified ³ | | | | | | | | | | |
| 0 | 40.8 | 37.9 | 1.1 | 36.2 | 0.5 | 2.9 | 59.2 | 100.0 | 2,707 | 2,990 |
| 1-2 | 31.2 | 30.0 | 0.3 | 29.6 | 0.1 | 1.2 | 68.8 | 100.0 | 2,266 | 2,122 |
| 3-4 | 22.8 | 22.3 | 0.2 | 22.1 | 0.0 | 0.5 | 77.2 | 100.0 | 2,646 | 2,499 |
| 5 | 19.8 | 19.3 | 0.2 | 19.1 | 0.0 | 0.5 | 80.2 | 100.0 | 2,669 | 2,593 |
| Total | 28.6 | 27.3 | 0.5 | 26.7 | 0.2 | 1.3 | 71.4 | 100.0 | 10,287 | 10,204 |

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

14.9 IDEAL FAMILY SIZE AND UNMET NEED BY WOMEN'S STATUS

As a woman becomes more empowered, she is more likely to have a say in the number (ideal family size) and spacing of children she desires. Table 14.10 depicts how a woman's ideal family size and her unmet need for family planning vary by the two indices of women's empowerment.

There is a positive relationship between the two indices and women's mean ideal number of children. For instance, women who participate in all three decisions desire an average of 4.7 children, compared with 5.6 children among women who do not participate in any decisions. Similarly, women who accept all five reasons for wife beating have the highest mean ideal number of children, at 5.1, compared with 3.9 children for women who do not justify wife beating for any reason.

Table 14.10 further shows that the percentage of currently married women with an unmet need for family planning decreases with an increase in the number of decisions in which women participate and tends to increase with the number of reasons for which women believe wife beating is justified. For example, 29 percent of women who participate in no household decisions have an unmet need for family planning services, compared with 23 percent of women who participate in all three decisions.

¹ Pill, IUD, injectables, implants, female condom, diaphragm, foam/jelly, and lactational amenorrhea method

² See Table 14.6 for the list of decisions.

See Table 14.7.1 for the list of reasons

Table 14.10 Women's empowerment and ideal number of children, and unmet need for family planning

Mean ideal number of children for women 15-49 and the percentage of currently married women age 15-49 with an unmet need for family planning, by indices of women's empowerment, Ethiopia 2011

| | Mean ideal Weighted | | Unweighted | Percentage of currently married women with an unmet need for family planning ² | | | Weighted | Unweighted |
|--|---|--------|-------------|---|-------|--------------------|--------------------|------------|
| Empowerment index | number of number of children ¹ women | | For spacing | For limiting | Total | number of women | number of women | |
| Number of decisions in which women participate ³ | | | | | | | | |
| 0 | 5.6 | 968 | 1,072 | 20.2 | 8.3 | 28.5 | 1,183 | 1,302 |
| 1-2 | 5.0 | 3,057 | 3,041 | 18.0 | 9.6 | 27.5 | 3,513 | 3,520 |
| 3 | 4.7 | 4,869 | 4,779 | 14.5 | 8.7 | 23.2 | 5,591 | 5,382 |
| Number of reasons for which wife-beating is justified ⁴ | | | | | | | | |
| 0 | 3.9 | 4,845 | 5,404 | 14.0 | 7.5 | 21.4 | 2,707 | 2,990 |
| 1-2 | 4.1 | 3,444 | 3,243 | 15.1 | 10.4 | 25.6 | 2,266 | 2,122 |
| 3-4 | 4.5 | 3,338 | 3,165 | 19.1 | 9.6 | 28.7 | 2,646 | 2,499 |
| 5 | 5.1 | 3,130 | 2,983 | 16.9 | 8.6 | 25.5 | 2,669 | 2,593 |
| Total | 4.3 | 14,757 | 14,795 | 16.3 | 9.0 | 25.3 | 10,287 | 10,204 |

¹ Mean excludes respondents who gave non-numeric responses.

14.10 Women's Status and Reproductive Health Care

In societies where health care is widely available, women's status may not affect their access to health services. In other societies, however, increased empowerment of women is likely to increase their ability to seek and use health services to better meet their own reproductive health needs.

Table 14.11 examines whether the extent to which women receive antenatal, delivery, and postnatal care services from health workers varies by their status as measured on the two women's empowerment indices. The proportion of women who received antenatal care from health personnel for a live birth in the five years before the survey increases with the number of decisions in which the woman participates, from 24 percent of women who do not participate in any decisions to 49 percent of those who have a say in all three decisions.

Similarly, among women who do not justify wife beating for any reason, 58 percent received antenatal care from health personnel, 26 percent received assistance from health personnel at delivery, and 14 percent received postnatal care from a health care provider within the first two days after delivery. In contrast, the corresponding proportions among women who justify wife beating for all five specified reasons were only 33 percent, 5 percent, and 2 percent.

² See Table 7.12.1 for the definition of unmet need for family planning.

Restricted to currently married women. See Table 14.6 for the list of decisions.

See Table 14.7.1 for the list of reasons.

Table 14.11 Reproductive health care by women's empowerment

Percentage of women age 15-49 with a live birth in the five years preceding the survey who received antenatal care, delivery assistance, and postnatal care from health personnel for the most recent birth, by indicators of women's empowerment. Ethiopia 2011

| Empowerment indicator | Received antenatal care from health personnel | Received delivery assistance from health personnel | Received postnatal care from health personnel within the first two days after delivery ¹ | Weighted number of women with a child born in the last five years | Unweighted number of women with a child born in the last five years |
|---|--|--|---|---|---|
| Number of decisions in which women participate ² 0 1-2 3 | 24.1 40.1 48.7 | 3.7 9.0 16.2 | 2.4 5.4 8.1 | 855 2,543 3,787 | 973 2,544 3,526 |
| Number of reasons for which wife-beating is justified ³ 0 1-2 3-4 5 | 58.0 44.8 36.9 32.9 42.6 | 25.9 13.0 8.5 5.0 | 14.1 6.0 5.3 2.4 6.7 | 1,878 1,744 2,108 2,177 7,908 | 2,085 1,582 1,966 2,131 7,764 |

Note: "Health personnel" includes doctor, nurse, or midwife.

14.11 DIFFERENTIALS IN INFANT AND CHILD MORTALITY BY WOMEN'S STATUS

The ability of women to access information, make decisions, and act effectively in their own interest, or in the interest of those who depend on them, are essential aspects of the empowerment of women. If women, the primary caretakers of children, are empowered, the health and survival of their infants will be enhanced. In fact, maternal empowerment fits into Mosley and Chen's framework on child survival as an individual-level variable that affects child survival through the proximate determinants (Mosley and Chen, 1984).

Table 14.12 presents childhood mortality rates by the two indices of women's status—participation household decision-making and attitude towards wife beating. With improvement in empowerment women's status, likelihood of their children surviving increases. For instance, the infant mortality rate and under-five mortality rate are 69 deaths per 1,000 live births and 101 deaths per 1,000 live births, respectively, for children whose mother participates in all three specified decisions. In contrast, for children whose mothers do not participate

| Table 14.12 Early childhood mortality rates by women's status |
|--|
| Infant, child, and under-five mortality rates for the 10-year period preceding the survey, by indices of women's status, Ethiopia 2011 |

| Empowerment index | Infant | Child | Under-five |
|--|-----------|-----------|------------|
| | mortality | mortality | mortality |
| | (190) | (4q1) | (5q0) |
| Number of decisions in which women participate ¹ | 84 | 42 | 122 |
| 1-2 | 78 | 44 | 119 |
| 3 | 69 | 35 | 101 |
| Number of reasons for which wife-beating is justified ² | | | |
| 0 | 73 | 32 | 103 |
| 1-2 | 63 | 41 | 101 |
| 3-4 | 75 | 38 | 110 |
| 5 | 82 | 45 | 122 |

Restricted to currently married women. See Table 14.6 for the list of

in any of the decisions, the infant mortality rate is 84 deaths, and under-five mortality rate is 122 deaths per 1,000 live births.

Includes both women who gave birth in a health facility and those who did not give birth in a health facility.

² Restricted to currently married women. See Table 14.6 for the list of decisions.

³ See Table 14.7.1 for the list of reasons.

decisions.

² See Table 14.7.1 for the list of reasons.

A similar pattern is seen with women's attitude towards wife beating. Infant and under-five mortality rates are lower for the children of women who do not justify wife beating for any reason than for those who justify wife beating for some or all reasons.

14.12 Men's Participation in Household Chores

In the 2011 EDHS currently married women were asked whether their husbands help with household chores. As Table 14.13 shows, 43 percent of currently married women reported that their husbands participate in household chores. However, only one woman of every four (24 percent) mentioned that her husband participates every day in doing household chores, while 59 percent say that their husbands rarely participate in doing household chores.

The participation of husband in doing household chores increases with women's education from 38 percent for women with no education to 70 percent for women with more than secondary education. Similarly, women in the highest wealth quintile (52 percent) are considerably more likely to report that their husbands participate in the household chores than women in the lowest quintile (38 percent). Fifty-four percent of currently married women who reside in urban areas say that their husbands participate in household chores, compared with 41 percent of women in rural areas.

Table 14.13 Men's participation in household chores

Percentage of currently married women age 15-49 who report that their husbands help with the household chores, and, among women whose husbands help with household chores, the frequency of that help, by background characteristics, Ethiopia 2011

| | Women whose husband | | | Among women whose husband participates in household chores, frequency of the chores: | | | | | chores, |
|---|--|--|---|--|--|--|--|--|---|
| Background characteristic | participates in household chores | Weighted number of women | Unweighted number of women | Every day | At least once a week | Rarely | Total | Weighted number of women | Unweighted number of women |
| Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 45.0 47.2 45.2 47.2 40.2 35.4 31.5 | 765 1,762 2,511 1,720 1,591 1,033 905 | 784 1,788 2,480 1,722 1,600 1,047 783 | 22.9 25.9 27.2 20.5 22.7 25.3 16.4 | 16.5 15.6 17.6 19.4 15.3 15.2 18.6 | 60.6 58.5 55.2 60.1 61.9 59.5 64.9 | 100.0 100.0 100.0 100.0 100.0 100.0 | 344 832 1,136 813 639 366 285 | 283 786 1,066 729 637 349 236 |
| Residence Urban Rural | 53.6 40.6 | 1,843 8,444 | 2,422 7,782 | 22.9 24.2 | 15.7 17.4 | 61.4 58.5 | 100.0 100.0 | 987 3,427 | 1,264 2,822 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 58.3 27.1 41.2 38.9 29.1 37.6 48.6 42.4 32.3 58.1 42.7 | 620 104 2,776 3,961 232 124 2,022 41 28 342 38 | 984 960 1,331 1,403 664 904 1,295 768 635 634 626 | 16.9 31.9 22.0 20.8 21.1 21.3 33.5 24.7 32.2 23.9 30.1 | 20.6 12.6 17.2 17.1 26.3 18.9 15.5 19.1 18.5 13.1 18.6 | 62.6 55.5 60.9 62.1 52.6 59.7 51.1 56.0 49.3 63.0 50.8 | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 361 28 1,145 1,542 68 47 983 17 9 198 | 572 226 542 537 185 328 623 258 199 368 248 |
| Education No education Primary Secondary More than secondary | 38.3 48.0 64.5 69.6 | 6,735 2,862 378 313 | 6,569 2,739 528 368 | 24.9 20.0 23.2 36.5 | 18.3 16.2 12.7 11.0 | 56.7 63.8 64.1 52.5 | 100.0 100.0 100.0 100.0 | 2,579 1,375 243 218 | 2,259 1,238 325 264 |
| Wealth quintile Lowest Second Middle Fourth Highest | 38.1 40.8 39.8 44.0 52.0 | 2,077 2,117 2,083 1,923 2,087 | 2,724 1,676 1,585 1,590 2,629 | 23.2 26.2 26.5 19.0 24.4 | 17.8 15.0 15.1 22.4 15.2 | 59.0 58.8 58.4 58.6 60.4 | 100.0 100.0 100.0 100.0 100.0 | 791 863 829 846 1,086 | 814 651 620 635 1,366 |
| Total | 42.9 | 10,287 | 10,204 | 23.9 | 17.0 | 59.1 | 100.0 | 4,415 | 4,086 |

14.13 Law Against Domestic Violence

The Ethiopian Criminal Code of 2005 addresses human rights issues, women's and children's rights in particular. Using various media, concerned government institutions and development partners have been educating the community about these laws, particularly the laws that prevent gender-based violence. The 2011 EDHS collected information on knowledge of the existing law that prevents a husband from beating his wife.

Table 14.14 shows that half of currently married women (49 percent) know there is a law against a husband beating his wife. There are small variations by age in the level of knowledge. Knowledge about the law is positively related to women's education and wealth. For example, 42 percent of women with no education know that there is law against wife beating, compared with 72 percent of women with more than secondary education. Similarly, women belonging to the wealthiest households are nearly twice as likely to know about the law (62 percent) than those in the lowest wealth quintile (37 percent). Knowledge of the law varies with residence and among regions as well. Sixty-two percent of urban women and 45 percent of rural women are aware of the existence of such a law. Among the regions 27 percent in the Somali region know of the law, compared with 72 percent in the Tigray region.

| Table 14.14 Knowledge of law against domestic violence |
|---|
| Percentage of women age 15-49 who know that there is a law in Ethiopia against wife beating, by background characteristics, Ethiopia 2011 |

| | women who know that there | Weighted | Unweighted |
|---------------------|------------------------------|----------------|----------------|
| Background | is a law against | number of | number of |
| characteristic | wife beating | women | women |
| | | | |
| Age | 47.0 | 4.000 | 0.005 |
| 15-19 | 47.3 | 4,009 | 3,835 |
| 20-24 25-29 | 49.7 48.2 | 2,931 | 3,022 |
| 30-34 | 48.4 | 3,147 | 3,185 |
| 35-39 | 46.4 50.2 | 2,054 1,916 | 2,100 1,958 |
| 40-44 | 53.0 | 1,261 | 1,314 |
| 45-49 | 48.8 | | |
| | 40.0 | 1,196 | 1,101 |
| Residence | 0.4 = | | |
| Urban | 61.7 | 3,947 | 5,329 |
| Rural | 44.9 | 12,568 | 11,186 |
| Region | | | |
| Tigray | 72.2 | 1,104 | 1,728 |
| Affar | 30.5 | 145 | 1,291 |
| Amhara | 45.2 | 4,433 | 2,087 |
| Oromiya | 50.8 | 6,011 | 2,135 |
| Somali | 27.2 | 329 | 914 |
| Benishangul-Gumuz | 54.6 | 174 | 1,259 |
| SNNP | 42.9 | 3,236 | 2,034 |
| Gambela | 36.4 | 69 | 1,130 |
| Harari | 43.6 | 49 | 1,101 |
| Addis Ababa | 58.1 | 896 | 1,741 |
| Dire Dawa | 58.3 | 69 | 1,095 |
| Education | | | |
| No education | 42.0 | 8,394 | 8,278 |
| Primary | 52.5 | 6,276 | 5,858 |
| Secondary | 65.6 | 1,117 | 1,395 |
| More than secondary | 71.6 | 728 | 984 |
| Wealth quintile | | | |
| Lowest | 37.4 | 2,986 | 3,711 |
| Second | 43.4 | 3,041 | 2,402 |
| Middle | 47.1 | 3,031 | 2,268 |
| Fourth | 49.0 | 3,215 | 2,505 |
| Highest | 62.2 | 4,242 | 5,629 |
| Total | 48.9 | 16,515 | 16,515 |

Key Findings

- Direct mortality estimates find that the level of adult mortality is slightly higher among men than among women (5.0 deaths and 4.1 deaths per 1,000 population, respectively).
- Sixteen percent of women and 18 percent of men are likely to die between exact ages 15 and 50. These probabilities have decreased for both women and men since 2000, with most of the decreases occurring between 2005 and 2011.
- Maternal deaths account for 30 percent of all deaths to women age 15-49. The maternal
 mortality rate for the seven-year period preceding the survey was 1.14 maternal deaths per
 1,000 woman-years of exposure.
- The maternal mortality ratio was 676 maternal deaths per 100,000 live births for the sevenyear period preceding the survey. This ratio is not significantly different from those reported in the 2005 EDHS and the 2000 EDHS.

dult and maternal mortality rates are key indicators of the health status of a population. In Ethiopia they are also national development indicators. Estimation of these mortality rates requires comprehensive and accurate reporting of adult deaths and maternal deaths. The maternal mortality module included in the EDHS gathers valuable information that fills this gap.

This chapter includes results based on sibling history data collected in the Sibling Survival Module (commonly referred to as the 'Maternal Mortality Module') of the 2011 EDHS Woman's Questionnaire. In addition to adult mortality rates for five-year age groups, this chapter includes a summary measure ($_{35}q_{15}$) that represents the probability of dying between exact ages 15 and 50. For the measurement of trends in adult mortality probabilities, $_{35}q_{15}$ for the 2000 and 2005 EDHS have also been calculated and are presented in Table 15.2.

The term 'maternal mortality' used in this chapter (and in previous EDHS surveys), corresponds to the term 'pregnancy-related mortality' as defined in the latest International Classification of Diseases (ICD-10). The ICD-10 definition of a pregnancy-related death is 'the death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the cause of death.' In keeping with this definition, the Sibling Survival Module used in the DHS surveys measures only the timing of deaths and not the cause of death. The data collected in the EDHS questionnaire are based on information about deaths during the two months following a birth, however, rather than 42 days following a birth.

15.1 ASSESSMENT OF DATA QUALITY

To obtain a sibling history, the 2011 EDHS first asked each female respondent to list all children born to her biological mother, starting with the firstborn. The survey then asked the respondent whether each of these siblings was still alive. For living siblings, the questionnaire asked the current age of each sibling. For deceased siblings, the age at death and the number of years since death were recorded. When a respondent could not provide precise information on age at death or years since death, approximate but quantitative answers were accepted. For sisters who died at age 12 or older, the EDHS asked three questions to determine whether the death was maternal: 'Was [NAME OF SISTER] pregnant when she died?' and, if the response was negative, 'Did she die during

childbirth?' and, if negative again, 'Did she die within two months after the end of a pregnancy or childbirth?'

Table C.8 in Appendix C shows that in the 2011 EDHS a total of 94,361 siblings were recorded in the sibling histories. The survival status was not reported for 91 siblings (0.1 percent). Among surviving siblings current age was not reported for 47 siblings (0.1 percent). For more than 99 percent of deceased siblings, both age at death (AD) and years since death (YSD) were reported. In 0.2 percent of cases both the AD and YSD were missing. The sex ratio of the enumerated siblings (the ratio of brothers to sisters times 100) is 109.4 (Table C.9), which is higher than the expected value of 102-106, a difference that suggests some underreporting of sisters.

15.2 ESTIMATES OF ADULT MORTALITY

One way to assess the quality of data used to estimate maternal mortality is to evaluate the plausibility and stability of overall adult mortality estimates. If the estimated rates of overall adult mortality are implausible, rates based on a subset of deaths—maternal mortality in particular—are likely to have serious problems. Moreover, levels and trends in overall adult mortality have important implications for health and social programmes in Ethiopia in their own right, especially with regard to the potential impact of the AIDS epidemic, other infectious diseases, and noncommunicable diseases.

The direct estimation of adult mortality uses the reported ages at death and years since death of the respondents' brothers and sisters. Mortality rates are calculated by dividing the number of deaths in each age group of women and men by the total person-years of exposure to the risk of dying in that age group during a specified period prior to the survey. To have a sufficiently large number of adult deaths to generate a robust estimate, the rates are calculated for the seven-year period preceding the survey (roughly mid-2004 to mid-2011). Nevertheless, the age-specific mortality rates obtained in this manner are subject to considerable sampling variation.

Table 15.1 shows age-specific mortality rates for women and men age 15-49 for the seven-year period preceding the survey. Overall, the level of adult mortality is slightly higher among men (5.0 deaths per 1,000 population) than among women (4.1 deaths per 1,000 population). Age-specific mortality rates appear to be higher for men than for women in most age groups, but none of the differences are statistically significant. The age-specific mortality rates generally show the expected increases with increasing age, for both women and men. Confidence intervals for these rates can be found in Appendix Table B.16. The confidence intervals for many of the five-year mortality rates overlap.

Table15.1 Adult mortality rates

Direct estimates of female and male mortality for the seven years preceding the survey by five-year age groups, Ethiopia 2011

| Age | Deaths | Exposure years | Mortality rates ¹ |
|---|---|--|---|
| | WOMEN | | |
| 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 92 108 129 188 79 85 51 | 39,187 41,289 36,532 27,449 19,166 11,512 6,899 182,034 | 2.35 2.63 3.53 6.85 4.15 7.37 7.34 4.13 ^a |
| 13-49 | MEN | 102,034 | 4.13 |
| 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | 136 138 189 166 125 86 70 | 40,426 42,577 37,080 28,989 20,030 12,095 7,610 | 3.38 3.25 5.11 5.74 6.22 7.11 9.19 |
| 15-49 | 911 | 188,808 | 5.01 ^a |

¹ Expressed per 1,000 population

Table 15.2 shows a summary measure of the risk of dying between exact ages 15 and 50 (35q15). Based on the 2011 EDHS, 16 percent of women and 18 percent of men are likely to die between age 15 and age 50. Estimates of 35q15 based on the 2000 and 2005 EDHS also show that in 2000 men had a higher probability of dying between exact ages 15 and 50 than women (28 percent of men versus 22 percent of women) and in 2005 they had similar probabilities of dying between these ages (21 percent of men and 22 percent of women). However, in the eleven years between the 2000 and 2011 EDHS surveys, the probability of dying between exact ages 15 and 50 decreased for both women and men, from 22 percent to 16 percent for women and from 28 percent to 18 percent for men, showing a 29 percent decrease for women and a 34 percent decrease for men. For women, much of this decrease is seen in the most recent six years, between 2005 and 2011, whereas for men the largest decrease is observed between 2000 and 2005. Confidence intervals for the 35q15 estimates can be found in Appendix Table B.16.

Table 15.2 Adult mortality probabilities

The probability of dying between exact ages 15 and 50 for women and men for the seven years preceding the survey, Ethiopia 2000, 2005, and 2011

| Survey | Women | Men |
|--|-------|-----|
| ₃₅ q ₁₅ ¹ (2011 EDHS) | 157 | 181 |
| ₃₅ q ₁₅ ¹ (2005 EDHS) | 217 | 207 |
| ₃₅ q ₁₅ ¹ (2000 EDHS) | 221 | 275 |

¹ The probability of dying between exact ages 15 and 50, expressed per 1,000 person-years of exposure

^a Age-adjusted rate

15.3 ESTIMATES OF MATERNAL MORTALITY

preceding the survey Age-adjusted rate

Maternal mortality in Ethiopia and other developing countries can be estimated using two procedures: the sisterhood method (Graham et al., 1989) and a direct estimation variant of the sisterhood method (Rutenberg and Sullivan, 1991). In this report the direct estimation procedure is applied.

Table 15.3 presents direct estimates of maternal mortality for the seven-year period preceding the survey. The maternal mortality rate among women age 15-49 is 1.14 maternal deaths per 1,000 woman-years of exposure. This rate is 15 percent lower than that reported in the 2005 EDHS and 32 percent lower than in the 2000 EDHS. By five-year age groups, the maternal mortality rate is highest among women 30-34 (2.53), followed by those age 35-39 (1.53). Confidence intervals for the maternal mortality rates can be found in Appendix Table B.16. In the 2011 EDHS maternal deaths represent 30 percent of all deaths to women age 15-49, compared with 21 percent in the 2005 EDHS and 25 percent in the 2000 EDHS. The percentage of female deaths that are maternal varies by age and ranges from 10 percent among women 45-49 to 37 percent of all deaths among women 30-39.

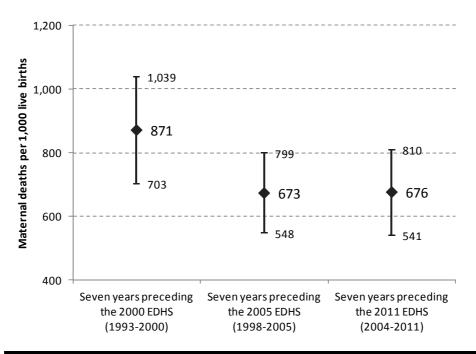
| Table 15.2 Maternal mortality | | | | |
|---|-----------------------------|-------------|------------------|-----------------------------|
| Table 15.3 Maternal mortality Direct estimates of maternal mortali | ity rates for the se | ven vears p | receding the | survey, by five- |
| year age groups, Ethiopia 2011 | , | , | | |
| | Percentage | | | |
| | of female | | | |
| | deaths that | Maternal | Exposure | Maternal |
| Age | are maternal | deaths | years | mortality rate ¹ |
| 15-19 | 21.7 | 20 | 39,187 | 0.52 |
| 20-24 | 36.1 | 39 | 41,289 | 0.94 |
| 25-29 | 28.7 | 37 | 36,532 | 1.03 |
| 30-34 35-39 | 36.7 36.7 | 69 29 | 27,449 | 2.53 1.53 |
| 40-44 | 18.8 | 29 16 | 19,166 11,512 | 1.43 |
| 45-49 | 9.8 | 5 | 6,899 | 0.70 |
| 15-49 | 29.6 | 217 | 182,034 | 1.14 ^a |
| General fertility rate (GFR) ² | 169 ⁶ | a | | |
| Maternal mortality ratio (MMR) ³ | 676 | CI: (541, | 810) | |
| Lifetime risk of maternal death ⁴ | 0.03 | 36 | | |
| | 2005 EDHS | 3 | | |
| Maternal mortality ratio (MMR) ³ | 673 | CI: (548, | 799) | |
| | 2000 EDHS | 3 | | |
| Maternal mortality ratio (MMR) ³ | 871 | CI: (703, | 1,039) | |
| Cl: Confidence interval 1 Expressed per 1,000 woman-year 2 Expressed per 1,000 women age 3 Expressed per 100,000 live births general fertility rate 4 Calculated as 1-(1-MMR) TFR where | 15-49 ; calculated as th | | | |

The maternal mortality rate can be converted to a maternal mortality ratio (expressed as deaths per 100,000 live births) by dividing the maternal mortality rate by the general fertility rate (GFR) of 169 that prevailed during the same time period, and multiplying the result by 100,000. This procedure produces a maternal mortality ratio (MMR) of 676 deaths per 100,000 live births during the seven-year period preceding the survey. In other words, for every 1,000 live births in Ethiopia during the seven years preceding the 2011 EDHS, about seven women (6.76) died during pregnancy, during childbirth, or within two months of childbirth. The lifetime risk of maternal death (0.036) indicates that about 4 percent of women died during pregnancy, during childbirth, or within two months of childbirth.

The estimated maternal mortality ratio is almost the same in the 2011 EDHS (676) as it was in the 2005 EDHS (673). As shown in Table 15.3 and Figure 15.1, the confidence interval surrounding the maternal mortality ratio of 676 deaths per 100,000 live births is 541-810, while the confidence interval for the 2005 ratio of 673 deaths per 100,000 live births is 548-799 deaths. Because the confidence intervals between the two estimates overlap, there is no evidence to suggest that the maternal mortality ratio changed in the six years between surveys. A similar conclusion can be drawn comparing the maternal mortality ratios measured in the 2011 EDHS with those in the 2000 EDHS. Thus, there is no evidence to suggest that the maternal mortality ratio changed decreased in Ethiopia between 2000 and 2011.

It should be kept in mind that maternal mortality is difficult to measure because large sample sizes are required to calculate accurate estimates. The maternal mortality estimates presented here are subject to large sampling errors because cost and time considerations make it impossible to draw a sample large enough to keep sampling errors reasonably small.

Figure 15.1 Maternal Mortality Ratio (MMR) with Confidence Intervals for the Seven Years Preceding the 2000, 2005, and 2011 Ethiopia DHS



REFERENCES

Arimond, M., and Marie T. Ruel. 2003. *Generating Indicators of Appropriate Feeding of Children 6 through 23 Months from the KPC 2000+*. Report of the Food and Nutrition Technical Assistance Project (FANTA). Washington, D.C.: Academy for Educational Development. http://pdf.usaid.gov/pdf_docs/PNACW465.pdf.

Auvert, B., A. Buve, E. Lagarde, M. Kahindo, J. Chege, N. Rutenberg, R. Musonda, M. Laourou, E. Akam, and H. A. Weiss. 2001. Male Circumcision and HIV Infection in Four cities in Sub-Saharan Africa. *AIDS* 15(Supplement 4): S31-S40. doi:10.1097/00002030-200108004-00004.

Bailey, R. C., S. Moses, C. B. Parker, K. Agot, I. Maclean, J. N. Krieger, C. F. Williams, R. T. Campbell, and J. O. Ndinya-Achola. 2007. Male Circumcision for HIV Prevention in Young Men in Kisumu, Kenya: A Randomized Controlled Trial. *Lancet* 369(9562): 643-56. doi:10.1016/S0140-6736(07)60312.

Central Statistical Authority [Ethiopia] and ORC Macro. 2001. *Ethiopia Demographic and Health Survey 2000*. Addis Ababa, Ethiopia, and Calverton, Maryland: Central Statistical Authority and ORC Macro.

Central Statistical Agency [Ethiopia] and ORC Macro. 2006. *Ethiopia Demographic and Health Survey 2005*. Addis Ababa, Ethiopia, and Calverton, Maryland, USA: Central Statistical Agency and ORC Macro.

Central Statistical Agency (CSA). [Ethiopia]. 2008. The 2007 Population and Housing Census of Ethiopia. Statistical Summary Report at National Level. Addis Ababa, Ethiopia: Central Statistical Agency.

Central Statistical Agency (CSA) [Ethiopia]. 2009. *Statistical Abstract of Ethiopia*. Addis Ababa, Ethiopia: Central Statistical Agency.

Graham, W., W. Brass, and R. W. Snow. 1989. Indirect Estimation of Maternal Mortality: The Sisterhood Method. *Studies in Family Planning* 20(3): 125-135. doi:10.2307/1966567.

Gray, R., G. Kigozi, D. Serwadda, F. Makumbi, S. Watya, F. Nalugoda, N. Kiwanuka, L. Moulton, M. Chaudhary, M. Chen, N. Sewankambo, F. Wabwire-Mangen, M. Bacon, C. Williams, P. Opendi, S. Reynolds, O. Laeyendecker, T. Quinn, and M. Wawer. 2007. Male Circumcision for HIV Prevention in Men in Rakai, Uganda: A randomised trial. *Lancet* 369 (9562): 657-66. doi: 10.1016/S0140-6736(07)60313-4.

Gwatkin, D. R., S. Rutstein, K. Johnson, R. P. Pande, and A. Wagstaff. 2000. *Socioeconomic Differences in Health, Nutrition and Poverty*. HNP/Poverty Thematic Group of the World Bank. Washington, D.C.: The World Bank.

Ministry of Finance and Economic Development (MOFED) [Ethiopia]. 2010. *Growth and Transformation Plan*, 20110/11-2014/15. Addis Ababa, Ethiopia: Ministry of Finance and Economic Development.

Ministry of Health (MoH) [Ethiopia]. November 2010. *Health Sector Development Programme IV*, 2010/11-2014/15. Addis Ababa, Ethiopia: Ministry of Health.

Ministry of Information (MOI) [Ethiopia]. 2004. Facts about Ethiopia. Addis Ababa, Ethiopia: Press and Audiovisual Department, Ministry of Information.

National Bank of Ethiopia (NBE). 2010. *Biritu Quarterly Report*. Addis Ababa, Ethiopia: National Bank of Ethiopia.

Pan American Health Organization (PAHO) and World Health Organization (WHO). 2003. *Guiding Principles for Complementary Feeding of the Breastfed Child.* Washington, D.C. and Geneva, Switzerland: PAHO and WHO.

Rutenberg, N., and J. Sullivan. 1991. Direct and Indirect Estimates of Maternal Mortality from the Sisterhood Method. In *Proceedings of the Demographic and Health Surveys World Conference, 3:* 1669-1696. Columbia, Maryland: IRD/Macro International Inc.

Rutstein S. 1999. Wealth versus Expenditure: Comparison between the DHS Wealth Index and Household Expenditures in Four Departments of Guatemala. Calverton, MD: ORC Macro.

Rutstein, S., K. Johnson, and D. Gwatkin. 2000. *Poverty, Health Inequality, and Its Health and Demographic Effects*. Paper presented at the 2000 Annual Meeting of the Population Association of America, Los Angeles, California.

Transitional Government of Ethiopia (TGE). 1993a. *National Population Policy of Ethiopia*. Addis Ababa, Ethiopia: Transitional Government of Ethiopia.

Transitional Government of Ethiopia (TGE). 1993b. *Health Policy of the Transitional Government of Ethiopia*. Addis Ababa, Ethiopia: Transitional Government of Ethiopia.

United Nations General Assembly. 1989. *Convention on the Right of the Child*. New York: United Nations. *http://www2.ohchr.org/english/law/crc.htm*

United Nations General Assembly. 2002. *Road Map towards the Implementation of the United Nations Millennium Declaration: Report of the Secretary-General*. A/56/326. New York: United Nations General Assembly.

World Health Organization (WHO). 2001. *Iron Deficiency Anemia, Assessment, Prevention, and Control. A guide for programme managers*. Geneva, Switzerland. World Health Organization.

World Health Organization (WHO). 2005. *Guiding Principles for Feeding Nonbreastfed Children 6 to 24 Months of Age*, Geneva, Switzerland. http://www.helid.desastres.net/pdf/s13445e/s13445e.pdf.

World Health Organization (WHO), Multicentre Growth Reference Study Group. 2006. WHO Child Growth Standards: Length/Height-for-Age, Weight-for-Length, Weight-for-Height and Body Mass Index-for-Age: Methods and Development. Geneva, Switzerland: WHO.

World Health Organization (WHO). 2008. *Indicators for Assessing Infant and Young Child Feeding Practices. Part I: Definitions*. Conclusions of a consensus meeting held 6-8 November 2007 in Washington, D.C., USA. http://whqlibdoc.who.int/publications/2008/9789241596664_eng.pdf.

World Health Organization (WHO) and UNICEF, Joint Monitoring Program for Water Supply and Sanitation. 2010. *Progress on Sanitation and Drinking Water: 2010 Update*. Geneva and New York: WHO and UNICEF.



A.1. Introduction

The Ethiopia Demographic and Health Survey 2011 (2011 EDHS) is the third DHS in Ethiopia, following the 2000 and 2005 EDHS surveys. A nationally representative sample of 17,817 households was selected. All women 15-49 who were usual residents or who slept in the selected households the night before the survey were eligible for the survey. In the selected households, 17,385 eligible women were identified for individual interview. As with prior EDHS surveys, the main objective of the 2011 EDHS is to provide up-to-date information on fertility and childhood mortality levels; fertility preferences; awareness, approval and use of family planning methods; maternal and child health; and knowledge and attitudes toward HIV/AIDS and other sexually transmitted infections (STIs).

A male survey was also conducted. All men 15-49 who were usual residents or who slept in the selected households the night before the survey were eligible for the male survey. In the selected households, 15,908 eligible men were identified for individual interview.

Height and weight measurements were carried out on women age 15-49, men age 15-59, and children under age 5 in all selected households. Anaemia testing was done for children age 6-59 months, women age 15-49, and men age 15-59, while HIV testing was done for women age 15-49 and men age 15-59 who voluntarily consented to the testing.

The survey is designed to produce representative estimates for the country as a whole, for the urban and the rural areas separately, and for each of the eleven regions.

A.2 SAMPLING FRAME

The sampling frame used for 2011 EDHS is the Population and Housing Census (PHC) conducted in 2007 provided by the Central Statistical Agency (CSA, 2008). CSA has an electronic file consisting of 81,654 Enumeration Areas (EA) created for the 2007 census in 10 of its 11 geographic regions. An EA is a geographic area consisting of a convenient number of dwelling units which served as counting unit for the census. The frame file contains information about the location, the type of residence, and the number of residential households for each of the 81,654 EAs. Sketch maps are also available for each EA which delimitate the geographic boundaries of the EA. The 2007 PHC conducted in the Somali region used a different methodology due to difficulty of access. Therefore, the sampling frame for the Somali region is in a different file and in different format. Due to security concerns in the Somali region, in the beginning it was decided that 2011 EDHS would be conducted only in three of nine zones in the Somali region: Shinile, Jijiga, and Liben, same as in the 2000 and 2005 EDHS. However, a later decision was made to include three other zones: Afder, Gode and Warder. This was the first time that these three zones were included in a major nationwide survey such as the 2011 EDHS. The sampling frame for the 2011 EDHS consists of a total of 85,057 EAs. The sampling frame excluded some special EAs with disputed boundaries. These EAs represent only 0.1% of the total population.

Ethiopia is divided into 11 geographical regions. Each region is sub-divided into zones, each zone into Waredas, each Wareda into towns, and each town into Kebeles. Table A.1 shows the

distribution of the enumeration areas and average EA size in the sampling frame, by region and by residence. Among the 85,057 EAs, 17,548 (21 percent) are in urban areas and 67,509 (79 percent) are in rural areas. The average size of EA in number of households is 169 in an urban EA and 180 in a rural EA, with an overall average of 178 households per EA. Table A.2 shows the distributions of households in the sampling frame, by region and residence. The data show that 81 percent of the Ethiopia's households are concentrated in three regions: Amhara, Oromiya and SNNP, while 4 percent of all households are in the five smallest regions: Afar, Benishangul-Gumuz, Gambela, Harari and Dire Dawa.

Table A.1 Enumeration areas and average EA size in the sampling frame

Distribution of the enumeration areas (EAs) and average EA size in the sampling frame, by region and by residence, Ethiopia 2011

| | Number | of EAs in the frame | e sample | Average EA size | | | |
|---------------------|--------|---------------------|----------|-----------------|-------|-------|--|
| Region | Urban | Rural | Total | Urban | Rural | Total | |
| Tigray | 1,541 | 4,139 | 5,680 | 153 | 177 | 171 | |
| Affar | 260 | 828 | 1,088 | 177 | 233 | 219 | |
| Amhara | 3,391 | 18,016 | 21,407 | 183 | 182 | 182 | |
| Oromiya | 5,030 | 25,800 | 30,830 | 172 | 179 | 178 | |
| Somali ¹ | 526 | 2877 | 3,403 | 141 | 148 | 147 | |
| Benishangul-Gumuz | 188 | 786 | 974 | 140 | 152 | 150 | |
| SNNP | 2,124 | 14,490 | 16,614 | 166 | 184 | 182 | |
| Gambela | 133 | 347 | 480 | 145 | 129 | 134 | |
| Harari | 172 | 98 | 270 | 163 | 180 | 169 | |
| Addis Ababa | 3,865 | | 3,865 | 167 | 0 | 167 | |
| Dire Dawa | 318 | 128 | 446 | 163 | 169 | 165 | |
| Ethiopia | 17,548 | 67,509 | 85,057 | 169 | 180 | 178 | |

¹Including six of the nine zones in the region of Somali

Table A.2 Distribution of households in the sampling frame

Distribution of households in the sampling frame, by region and by residence, Ethiopia 2011

| | Nu | ımber of househ | olds | Prop | ortion |
|---------------------|-----------|-----------------|------------|-------|--------|
| Region | Urban | Rural | Total | Urban | Region |
| Tigray | 235,530 | 734,357 | 969,887 | 0.243 | 0.064 |
| Affar | 45,910 | 192,554 | 238,464 | 0.193 | 0.016 |
| Amhara | 619,796 | 3,284,512 | 3,904,308 | 0.159 | 0.259 |
| Oromiya | 864,303 | 4,630,702 | 5,495,005 | 0.157 | 0.364 |
| Somali ¹ | 74,119 | 425,150 | 499,269 | 0.148 | 0.033 |
| Benishangul-Gumuz | 26,314 | 119,446 | 145,760 | 0.181 | 0.010 |
| SNNP | 353,554 | 2,667,787 | 3,021,341 | 0.117 | 0.200 |
| Gambela | 19,275 | 44,879 | 64,154 | 0.300 | 0.004 |
| Harari | 27,975 | 17,651 | 45,626 | 0.613 | 0.003 |
| Addis Ababa | 646,216 | | 646,216 | 1.000 | 0.043 |
| Dire Dawa | 51,991 | 21,643 | 73,634 | 0.706 | 0.005 |
| Ethiopia | 2,964,983 | 12,138,681 | 15,103,664 | 0.196 | 1.000 |

¹Including six of the nine zones in the region of Somali

A.3. SAMPLE DESIGN AND IMPLEMENTATION

The sample for 2011 EDHS used a stratified sample selected in two stages from the Population and Housing Census (PHC) frame. Stratification was achieved by separating each region into urban and rural areas. The Somali region was split into two parts: the first consisting of the initial three zones, and the second part of the additional three zones that were added later. In total, 23 sampling strata have been created because Addis Ababa region is entirely urban.

The sample points were selected independently in each sampling stratum, by a two-stage selection.

In the first stage, 624 EAs were selected with probability proportional to the EA size and with independent selection in each sampling stratum. Because of the time passed since the 2007 PHC, a household listing operation was carried out in all selected EAs before start of fieldwork. The household listing operation consisted of team of listers visiting each of the 624 selected EAs. The team drew a detailed sketch map of each of the EAs and recorded in the household listing forms all households in the EA, their address, and the name of the head of the household. The list of the households that resulted from listing served as the sampling frame for the selection of households in the second stage.

In the second stage, a fixed number of 30 households were selected for each EA. Table A.3 shows the sample allocation of clusters and households by region, according to residence. Among the 624 selected EAs, 187 are in urban areas and 437 are in rural areas. Of all the selected 18,720 households, 5,610 are in urban areas and 13,110 are in rural areas.

The regional household distribution ranges from less than 1 percent in Harari to 36 percent in Oromiya (Table A.2). Therefore, a proportional allocation provides the best precision for national level indictors, but not for regional level indicators. Regions with especially very small population such as Gambela, Harari and Dire Dawa would be allocated a very small sample size. It is estimated that a minimum number of 800 women 15-49 are necessary to have reliable estimates for most of the EDHS indicators by region. However, because of the low vaccination coverage in Affar and Somali, and the low fertility rates in Gambela, Harari, Addis Ababa and Dire Dawa, it was decided to increase the number of individual women interviews to about 1,300 per region. As a result, the final sample allocation reflected a power allocation that is between the proportional allocation and the equal size allocation. In order for the survey precision in urban areas to be comparable with that in rural areas, urban areas were slightly over sampled.

The cluster and household allocation by region and residence are a function of the average number of women 15-49 per household and of the household and individual response rates (obtained from the 2005 EDHS). According to the 2005 EDHS, the average number of women 15-49 per household was 1.28 in urban areas and 1.00 in rural areas. The average number of men 15-49 per household was 1.05 in urban areas and 0.94 in rural areas. The household response rates are 97% in urban areas and 99% in rural areas, the eligible woman response rates were 94% in urban areas and 96% in rural areas, and the eligible man response rates were 84% in urban areas and 91% in rural areas.

| | Allocation of clusters Allocation of households | | | | | | |
|-------------------|---|-------|-------|-------|--------|--------|--|
| Region | Urban | Rural | Total | Urban | Rural | Total | |
| Tigray | 13 | 47 | 60 | 390 | 1,410 | 1,800 | |
| Affar | 10 | 38 | 48 | 300 | 1,140 | 1,440 | |
| Amhara | 10 | 62 | 72 | 300 | 1,860 | 2,160 | |
| Oromiya | 13 | 62 | 75 | 390 | 1,860 | 2,250 | |
| Somali | 13 | 52 | 65 | 390 | 1,560 | 1,950 | |
| Benishangul-Gumuz | 6 | 42 | 48 | 180 | 1,260 | 1,440 | |
| SNNP | 7 | 65 | 72 | 210 | 1,950 | 2,160 | |
| Gambela | 9 | 37 | 46 | 270 | 1,110 | 1,380 | |
| Harari | 25 | 17 | 42 | 750 | 510 | 1,260 | |
| Addis Ababa | 54 | | 54 | 1,620 | | 1,620 | |
| Dire Dawa | 27 | 15 | 42 | 810 | 450 | 1,260 | |
| Ethiopia | 187 | 437 | 624 | 5,610 | 13,110 | 18,720 | |

Table A.4 Sample allocation of completed interviews with women and men

Sample allocation of expected number of completed interviews with women and men by region, according to residence, Ethiopia 2011

| | Wo | men intervie | wed | IV | Men interviewed | | | |
|--------------------|-------|--------------|--------|-------|-----------------|--------|--|--|
| Statistical Region | Urban | Rural | Region | Urban | Rural | Region | | |
| Tigray | 434 | 1,280 | 1,714 | 326 | 1,186 | 1,512 | | |
| Affar | 333 | 1,035 | 1,368 | 251 | 959 | 1,210 | | |
| Amhara | 333 | 1,689 | 2,022 | 251 | 1,564 | 1,815 | | |
| Oromiya | 434 | 1,689 | 2,123 | 326 | 1,564 | 1,890 | | |
| Somali | 434 | 1417 | 1851 | 326 | 1,312 | 1,638 | | |
| Benishangul-Gumuz | 200 | 1,144 | 1,344 | 150 | 1,060 | 1,210 | | |
| SNNP | 233 | 1,771 | 2,004 | 176 | 1,640 | 1,816 | | |
| Gambela | 299 | 1,008 | 1,307 | 226 | 934 | 1,160 | | |
| Harari | 834 | 463 | 1,297 | 627 | 429 | 1,056 | | |
| Addis Ababa | 1,800 | | 1,800 | 1354 | | 1,354 | | |
| Dire Dawa | 901 | 409 | 1,310 | 677 | 378 | 1,055 | | |
| Ethiopia | 6,235 | 11,905 | 18,140 | 4690 | 11,026 | 15,716 | | |

A.4. SELECTION PROBABILITIES AND SAMPLE WEIGHTS

Due to the non-proportional allocation of the sample to the different regions and to their urban and rural areas, sampling weights are required for any analysis using 2011 EDHS data to ensure representativeness of the survey results at the national and regional level. Since the 2011 EDHS sample is a two-stage stratified cluster sample, sampling weights were calculated based on sampling probabilities separately for each sampling stage and for each cluster. We use the following notations:

 P_{1hi} : first-stage sampling probability of the i^{th} cluster in stratum h

 P_{2hi} : second -stage sampling probability within the i^{th} cluster (household selection)

Let a_h be the number of clusters selected in stratum h, M_{hi} the number of households according to the sampling frame in the i^{th} cluster, and $\sum M_{hi}$ the total number of households in the stratum. The probability of selecting the i^{th} cluster in the 2011 EDHS sample is calculated as follows:

$$\frac{a_h M_{hi}}{\sum M_{hi}}$$

Let b_{hi} be the proportion of households in the selected segment compared to the total number of households in the EA i in stratum h if the EA is segmented, otherwise $b_{hi} = 1$. Then the probability of selecting cluster i in the sample is:

$$P_{Ihi} = \frac{a_h M_{hi}}{\sum M_{hi}} \times b_{hi}$$

Let L_{hi} be the number of households listed in the household listing operation in cluster i in stratum h, let g_{hi} be the number of households selected in the cluster. The second stage's selection probability for each household in the cluster is calculated as follows:

$$P_{2hi} = \frac{g_{hi}}{L_{hi}}$$

The overall selection probability of each household in cluster i of stratum h is therefore the production of the two stages selection probabilities:

$$P_{hi} = P_{1hi} \times P_{2hi}$$

The sampling weight for each household in cluster i of stratum h is the inverse of its overall selection probability:

$$W_{hi} = 1/P_{hi}$$

Design weights were adjusted for household non-response and as well as for individual (women and men) non-response to get the sampling weights. The differences of the household sampling weights and the individual sampling weights are introduced by individual non-response. The final sampling weights (both household and individual weights) were normalized in order to give the total number of unweighted cases equal to the total number of weighted cases at the national level. The normalized weights are relative weights which are valid for estimating means, proportions and ratios, but not valid for estimating population totals and for pooled data. The sampling weights for HIV testing were calculated in a similar way, but the normalization of the individual sampling weights was different compared to the individual survey weights. The HIV testing weights were normalized for women and men together at the national level, so that the HIV prevalence calculated for all adults (women and men) are valid.

Sampling errors were calculated for selected indicators for the national sample, for the urban and rural areas separately, and for each of the eleven regions.

SURVEY IMPLEMENTATION A.5.

Table A.5 Sample implementation

Percent distribution of households and eligible women by results of the household and individual interviews, and household, eligible women and overall women response rates, according to urban-rural residence and region (unweighted), Ethiopia 2011

| | Residence | ence | | | | | | Region | | | | | | |
|---|---|--|---|-----------------------------------|---|---|--|--|---|-----------------------------------|---|----------------------------------|---|--|
| Result | Urban | Rural | Tigray | Affar | Amhara | Oromiya | Somali | Benishangul- Gumuz | SNNP | Gambela | Harari | Addis Ababa | Dire Dawa | Total |
| Selected households Completed (C) | 92.6 | 94.2 | 0.96 | 90.1 | 7:36 | 96.1 | 87.8 | 93.1 | 94.7 | 89.1 | 95.4 | 94.1 | 94.2 | 93.7 |
| rousering present but no competent respondent at home (HP) Postponed (P) Refused (R) Postland (R) | 4.000 4.000 | 0.00 | -000 -1000 | 0.0 0.0 7 | 0.00 | 0.00 8.000 | 4.000 2.004 | 2000 4000 | 0.00 | 4.000 0.000 6.0000 | - 0 0 0 4 0 4 4 | 0.000 0.04 % | 0.002 | 0.0 0.0 0.2 0.2 |
| Household absent (HA) Dwelling vacant/address not a dwelling (DV) Dwelling destroyed (DD) Other (O) | 0.8 0.5 0.5 0.5 | 0 + + + 0 - 6 + 4 4 6 | 0.22 | 4 0 . 4 6 8 2 | | 0.0 + 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | . 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. | 2.1.2 7.2.3 7.4.0 7.4.0 | | 0.4-t-0 0.4-2-0 0.8-3-1 | 00000 | 0.0000 | 0.5 1.3 0.6 0.7 | |
| Total Number of sampled households Household response rate (HRR)¹ | 100.0 5,518 97.0 | 100.0 12,299 98.7 | 100.0 1,802 98.7 | 100.0 1,406 97.6 | 100.0 2,163 99.0 | 100.0 2,252 99.5 | 100.0 1,111 98.1 | 100.0 1,421 97.5 | 100.0 2,160 99.4 | 100.0 1,364 94.9 | 100.0 1,259 98.3 | 100.0 1,620 97.2 | 100.0 1,259 97.1 | 100.0 17,817 98.1 |
| Eligible women Completed (EWC) Not at home (EWNH) Postponed (EWP) Refused (EWR) Partly completed (EWPC) Incapacitated (EWI) Other (EWO) | 94.2 3.8 1.0 1.0 4.0 5.0 | 98. 8.000.000. 9.000.000.0000.0000000000 | 97.2 1.7 0.1 0.0 0.0 0.3 | 96 2.2.2 0.0 0.0 0.0 0.0 | 95.9 2.2 0.3 0.3 6.5 6.5 7.0 6.5 | 7.76 1.8 0.0 0.0 0.0 7.0 7.0 7.0 | 92.6 0.2.2 0.0 0.0 0.3 | 46 9.9.0 9.8.0 6.0.0 8.0.0 8.0.0 8.0.0 | 95.3 2.7 0.0 0.0 0.0 0.0 | 92.0 6.3 0.0 1.2 0.0 0.0 | 8.4.0.4.0.0 8.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0. | 93.7 4.0 1.0 0.1 0.1 | 93. 6.3. 6.0. 6.0. 7.0. 7.0. 7.0. 7.0. | 95.0 0.0 0.0 0.0 0.0 0.0 0.0 |
| Total Number of women Eligible women response rate (EWRR) ² Overall women response rate (ORR) ³ | 100.0 5,656 94.2 91.4 | 100.0 11,729 95.4 94.1 | 100.0 1,778 97.2 95.9 | 100.0 1,340 96.3 94.0 | 2,177 95.9 94.9 | 100.0 2,198 97.1 96.6 | 100.0 987 92.6 90.8 | 100.0 1,326 94.9 92.6 | 100.0 2,134 95.3 94.7 | 100.0 1,228 92.0 87.3 | 1,174 93.8 92.2 | 100.0 1,870 93.1 90.5 | 100.0 1,173 93.4 90.7 | 100.0 17,385 95.0 93.2 |

¹ Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

C + HP + P + R + DNF

100 * C

² The eligible women response rate (EWRR) is equivalent to the percentage of interviews completed (EWC) ³ The overall women response rate (OWRR) is calculated as: OWRR = HRR * EWRR/100

Table A.6 Sample implementation: Men

Percent distribution of households and eligible men by results of the household and individual interviews, and household, eligible men and overall men response rates, according to urban-rural residence and region (unweighted), Ethiopia 2011

| | Residence | ence | | | | | | Region | | | | | | |
|---|--|---|---|---|---|---|--|---|---|--|--|--|--|--|
| Result | Urban | Rural | Tigray | Affar | Amhara | Oromiya | Somali | Benishangul- Gumuz | SNNP | Gambela | Harari | Addis Ababa | Dire Dawa | Total |
| Selected households Completed (C) Household present but no competent | 92.6 | 94.2 | 0.96 | 90.1 | 95.7 | 96.1 | 87.8 | 93.1 | 94.7 | 89.1 | 95.4 | 94.1 | 94.2 | 93.7 |
| respondent at home (HP) Postponed (P) Refused (R) Dwelling not found (DNF) Household absent (HA) Dwelling destroy (DD) Other (Ö) | 2000020 4000020000000000000000000000000 | 0.0001110 | 1.1 0.0 7.0 7.0 0.0 0.2 | 200040 80044-68 | 0.000000000000000000000000000000000000 | 0.000000000000000000000000000000000000 | 2.0000.000.0000.0000.0000.0000.0000.00 | 2.1 0.0 0.0 0.1 0.1 0.1 0.1 | 0.00 0.00 1.7.7 1.9 1.00 | 400001-10 400001-10 | 0.000000000000000000000000000000000000 | 200000000 0.04.6.6.000 | 2.5 0.00 0.2 0.2 0.5 0.6 0.7 | 200001 2000001 200001 200001 200001 200001 200001 200001 200001 200001 2000001 200001 200001 200001 200001 200001 200001 200001 200001 2000001 200001 200001 200001 200001 200001 200001 200001 200001 2000001 200001 200001 200001 200001 200001 200001 200001 200001 2000001 200001 200001 200001 200001 200001 200001 200001 200001 2000001 200001 200001 200001 200001 200001 200001 200001 200001 2000001 200001 200001 200001 200001 200001 200001 200001 200001 2000001 2000001 2000001 2000001 2000001 2000001 2000001 20000001 200000001 200000000 |
| Total Number of sampled households Household response rate (HRR)¹ | 100.0 5,518 97.0 | 100.0 12,299 98.7 | 100.0 1,802 98.7 | 100.0 1,406 97.6 | 100.0 2,163 99.0 | 100.0 2,252 99.5 | 100.0 1,111 98.1 | 100.0 1,421 97.5 | 100.0 2,160 99.4 | 100.0 1,364 94.9 | 100.0 1,259 98.3 | 100.0 1,620 97.2 | 100.0 1,259 97.1 | 100.0 17,817 98.1 |
| Eligible men Completed (EMC) Not at home (EMNH) Postponed (EMP) Refused (EMR) Parity completed (EMPC) Incapacitated (EMI) Other (EMO) | 83.3 13.2 0.2 0.5 0.5 0.5 | 91.2 6.7 0.0 0.0 0.1 0.8 | 90.5 7.4 7.0 1.0 6.0 7.0 7.0 7.0 7.0 7.0 | 89.5 8.7.7 0.0 0.0 0.0 0.0 | 91.0 0.0 0.0 0.0 0.0 0.0 | 94.5 3.7.5 0.0 0.0 0.0 0.0 0.0 0.0 | 82.4 13.5 0.0 2.1 0.6 0.5 | 91.2 6.6 0.0 0.8 0.2 0.7 | 92.7 5.1 0.3 0.3 0.8 0.8 | 86.8 4.11 0.0 0.0 0.0 0.3 | 84.6 12.6 0.1 0.3 0.3 | 79.9 15.6 0.0 3.0 0.0 0.7 | 42.7.7.2.0 1.0.0 1.0.0.1 | 88.7 8.8 0.1 0.1 0.7 0.6 |
| Total Number of men Eligible men response rate (EMRR) ² Overall men response rate (ORR) ³ | 100.0 5,062 83.3 80.8 | 100.0 10,846 91.2 90.0 | 1,530 90.5 89.3 | 100.0 1,117 89.5 87.4 | 2,159 91.0 90.1 | 100.0 2,181 94.5 94.0 | 100.0 868 82.4 80.8 | 100.0 1,249 91.2 88.9 | 100.0 1,832 92.7 92.2 | 100.0 1,083 86.8 82.4 | 100.0 1,149 84.6 83.1 | 1,649 79.9 77.7 | 1,091 84.1 81.7 | 100.0 15,908 88.7 87.1 |

¹ Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

C+HP+P+R+DNF

100 * C

 2 The eligible men response rate (EMRR) is equivalent to the percentage of interviews completed (EMC) 3 The overall men response rate (OMRR) is calculated as: OMRR = HRR * EMRR/100

Table A.7 Coverage of HIV testing by social and demographic characteristics: Women

Percent distribution of interviewed women age 15-49 by HIV testing status, according to social and demographic characteristics (unweighted), Ethiopia 2011

| | | HIV tes | t status | | | |
|--|----------------------------|-------------------|--|--------------------------------|-------------------------|--------------------------|
| Characteristic | DBS tested ¹ | Refused to | Absent at the time of blood collection | Other/ missing ² | Total | Number of women |
| Marital status | | | | | | |
| Never married Ever had sexual intercourse | 91.9 91.0 | 5.6 7.2 | 1.8 1.2 | 0.7 0.6 | 100.0 100.0 | 4,413 489 |
| Never had sexual intercourse Married/living together Divorced or separated | 92.0 95.0 92.5 | 5.4 3.8 4.9 | 1.9 0.6 1.9 | 0.7 0.5 0.7 | 100.0 100.0 100.0 | 3,924 10,204 1,317 |
| Widowed Type of union | 94.0 | 4.5 | 0.3 | 1.2 | 100.0 | 581 |
| In polygynous union In non-polygynous union Not currently in union | 96.6 94.9 92.2 | 2.7 3.9 5.4 | 0.2 0.7 1.7 | 0.5 0.5 0.7 | 100.0 100.0 100.0 | 1,306 8,837 6,311 |
| Ever had sexual intercourse Yes No | 94.6 92.1 | 4.1 5.4 | 0.8 1.8 | 0.6 0.7 | 100.0 100.0 | 12,541 3,957 |
| Currently pregnant Pregnant Not pregnant or not sure | 95.7 93.8 | 3.0 4.5 | 0.5 1.1 | 0.9 0.6 | 100.0 100.0 | 1,277 15,238 |
| Total | 94.0 | 4.4 | 1.0 | 0.6 | 100.0 | 16,515 |

Total includes 61 cases with missing information on type of union and 17 cases with missing information on

Total includes 61 cases with missing information on type of union and 17 cases with missing information on whether they ever had sexual intercourse.

Includes all Dried Blood Samples (DBS) tested at the lab and for which there is a result, i.e. positive, negative, or indeterminate. Indeterminate means that the sample went through the entire algorithm, but the final result was inconclusive.

Includes: 1) other results of blood collection (e.g. technical problem in the field), 2) lost specimens, 3) non corresponding bar codes, and 4) other lab results such as blood not tested for technical reason, not enough blood to complete the algorithm, etc.

Table A.8 Coverage of HIV testing by social and demographic characteristics: Men

Percent distribution of interviewed men 15-49[59] by HIV testing status, according to social and demographic characteristics (unweighted), Ethiopia 2011

| | | HIV tes | t status | | | |
|--|----------------------------|--------------------------|---|--------------------------------|-------|------------------|
| Characteristic | DBS Tested ¹ | Refused to provide blood | Absent at the time of blood collection | Other/ missing ² | Total | Number of men |
| Marital status | | | | | | |
| Never married | 90.9 | 5.6 | 2.6 | 0.9 | 100.0 | 5,653 |
| Ever had sexual intercourse | 88.1 | 8.5 | 2.5 | 0.9 | 100.0 | 1,501 |
| Never had sexual intercourse | 91.9 | 4.5 | 2.7 | 0.9 | 100.0 | 4,152 |
| Married/living together | 93.4 | 4.5 | 1.4 | 0.8 | 100.0 | 7,930 |
| Divorced or separated | 88.3 | 8.4 | 1.9 | 1.4 | 100.0 | 429 |
| Widowed | 92.9 | 5.1 | 1.0 | 1.0 | 100.0 | 98 |
| Type of union | | | | | | |
| In polygynous union | 91.7 | 3.7 | 3.3 | 1.3 | 100.0 | 544 |
| In non-polygynous union | 93.5 | 4.5 | 1.2 | 0.7 | 100.0 | 7,359 |
| Not currently in union | 90.7 | 5.8 | 2.5 | 1.0 | 100.0 | 6,180 |
| Ever had sexual intercourse | | | | | | |
| Yes | 92.4 | 5.2 | 1.6 | 0.8 | 100.0 | 9,919 |
| No | 91.9 | 4.5 | 2.7 | 0.9 | 100.0 | 4,178 |
| Male circumcision | | | | | | |
| Circumcised | 92.2 | 5.2 | 1.8 | 0.9 | 100.0 | 13,004 |
| Not circumcised | 93.3 | 2.9 | 3.4 | 0.5 | 100.0 | 1,069 |
| Times slept away from home in past 12 months | | | | | | |
| None | 91.9 | 5.2 | 2.0 | 0.9 | 100.0 | 7,464 |
| 1-2 | 94.4 | 3.4 | 1.7 | 0.6 | 100.0 | 2,179 |
| 3-4 | 92.8 | 4.5 | 1.9 | 0.8 | 100.0 | 1,300 |
| 5+ | 91.4 | 5.8 | 1.8 | 1.0 | 100.0 | 3,096 |
| Time away in past 12 months | | | | | | |
| Away for more than 1 month | 91.8 | 4.8 | 2.3 | 1.1 | 100.0 | 1,481 |
| Away for less than 1 month | 93.0 | 4.7 | 1.6 | 0.7 | 100.0 | 5,079 |
| No away | 91.9 | 5.2 | 2.0 | 0.9 | 100.0 | 7,464 |
| Total | 92.2 | 5.0 | 1.9 | 0.9 | 100.0 | 14,110 |

Total includes 27 cases with missing information on type of union, 13 cases with missing information on whether ever had sexual intercourse, 71 cases with missing information on times slept away from home in past 12 months, and 86 cases with missing information on time away in past 12 months.

Includes all Dried Blood Samples (DBS) tested at the lab and for which there is a result, i.e. positive, negative, or indeterminate. Indeterminate means that the sample went through the entire algorithm, but the

regalive, of indeterminate indeterminate means that the sample went through the entire algorithm, but the final result was inconclusive.

Includes: 1) other results of blood collection (e.g. technical problem in the field), 2) lost specimens, 3) non corresponding bar codes, and 4) other lab results such as blood not tested for technical reason, not enough blood to complete the algorithm, etc.

Table A.9 Coverage of HIV testing among interviewed women by sexual behavior characteristics: Women

Percent distribution of interviewed women age 15-49 who ever had sexual intercourse by HIV test status, according to sexual behavior characteristics (unweighted), Ethiopia 2011

| | | HIV tes | t status | | | |
|---|---------------------------------------|---------------------------------|---|---------------------------------|---|---|
| Sexual behavior characteristic | DBS Tested ¹ | Refused to provide blood | Absent at the time of blood collection | Other/ missing ² | Total | Number of women |
| Age at first sexual intercourse | | | | | | |
| <16 16-17 18-19 20+ Inconsistent/missing | 95.0 95.8 94.8 91.9 94.4 | 3.8 3.1 3.7 6.2 4.1 | 0.5 0.6 1.0 1.3 0.9 | 0.7 0.5 0.5 0.7 0.6 | 100.0 100.0 100.0 100.0 100.0 | 5,303 2,501 1,925 2,112 700 |
| Multiple sexual partners and partner | | | | | | |
| concurrency in past 12 months 0 1 2+ Has concurrent partners ² None of the partners are concurrent | 92.7 95.0 93.7 100.0 93.2 | 5.1 3.8 5.1 0.0 5.4 | 1.3 0.7 0.0 0.0 0.0 | 0.9 0.5 1.3 0.0 1.4 | 100.0 100.0 100.0 100.0 100.0 | 2,131 10,320 79 5 74 |
| Condom use at last sexual intercourse | | | | | | |
| in past 12 months Used condom Did not use condom No sexual intercourse in last 12 months | 89.9 95.1 92.6 | 8.6 3.7 5.2 | 1.2 0.6 1.3 | 0.3 0.5 0.9 | 100.0 100.0 100.0 | 326 10,070 2,142 |
| Number of lifetime partners | | | | | | |
| 1 2 3-4 5-9 10+ | 94.5 95.0 94.3 93.9 96.3 | 4.1 4.0 3.9 5.1 1.9 | 0.8 0.6 0.7 0.0 0.0 | 0.6 0.4 1.0 1.0 1.9 | 100.0 100.0 100.0 100.0 100.0 | 9,369 2,312 672 98 54 |
| Prior HIV testing | | | | | | |
| Ever tested Received results Did not received results Never tested | 93.7 93.5 95.6 95.3 | 4.8 4.9 2.9 3.5 | 1.0 0.9 1.5 0.6 | 0.6 0.6 0.0 0.6 | 100.0 100.0 100.0 100.0 | 5,450 5,107 343 7,077 |
| Total | 94.6 | 4.1 | 0.8 | 0.6 | 100.0 | 12,541 |

Total includes 11 cases with missing information on multiple sexual partners and partner concurrency in past 12 months, 3 cases with missing information on condom use at last sexual intercourse in past 12 months, 36 cases with missing information on number of lifetime partners, and 14 cases with missing information on prior HIV testing.

Includes all Dried Blood Samples (DBS) tested at the lab and for which there is a result, i.e. positive, negative, or indeterminate. Indeterminate means that the sample went through the entire algorithm, but the final result was

² Includes: 1) other results of blood collection (e.g. technical problem in the field), 2) lost specimens, 3) non corresponding bar codes, and 4) other lab results such as blood not tested for technical reason, not enough blood to complete the algorithm, etc.

³ A respondent is considered to have had concurrent partners if he or she had overlapping sexual partnerships with two or more people during the 12 months before the survey.

Table A.10 Coverage of HIV testing among interviewed men by sexual behavior characteristics: Men

Percent distribution of interviewed men age 15-54[59] who ever had sexual intercourse by HIV test status, according to sexual behavior characteristics (unweighted), Ethiopia 2011

| | | HIV tes | t status | | | | | | |
|--|--------------------------------------|---------------------------------|---|---------------------------------|---|---|--|--|--|
| Sexual behavior characteristic | DBS Tested ¹ | Refused to provide blood | Absent at the time of blood collection | Other/ missing ² | Total | Number of men | | | |
| Age at first sexual intercourse | | | | | | | | | |
| 16-17 18-19 20+ Inconsistent/missing | 93.2 92.0 92.4 92.4 92.3 | 4.5 5.8 4.8 5.4 5.4 | 1.3 1.6 2.0 1.4 0.9 | 1.0 0.7 0.7 0.8 1.4 | 100.0 100.0 100.0 100.0 100.0 | 1,053 1,349 2,116 4,974 427 | | | |
| Multiple sexual partners and partner concurrency in past 12 months | | | | | | | | | |
| 0 | 88.7 | 7.7 | 2.6 | 1.0 | 100.0 | 1,080 | | | |
| 1 | 93.0 | 4.9 | 1.3 | 0.8 | 100.0 | 8,168 | | | |
| 2+ Has concurrent partners ² | 91.5 94.7 | 4.4 2.7 | 2.7 1.9 | 1.4 0.7 | 100.0 100.0 | 655 413 | | | |
| None of the partners are concurrent | 86.0 | 7.4 | 4.1 | 2.5 | 100.0 | 242 | | | |
| Condom use at last sexual intercourse in past 12 months Used condom Did not use condom No sexual intercourse in last 12 months | 87.8 93.4 88.5 | 9.1 4.5 7.9 | 2.1 1.4 2.6 | 1.0 0.8 1.0 | 100.0 100.0 100.0 | 806 8,015 1,096 | | | |
| Paid for sexual intercourse in past 12 months | | | | | | | | | |
| Yes Used condom Did not use condom No/no paid sexual intercourse/no sexual intercourse in last 12 months | 85.6 76.9 87.6 92.5 | 8.6 15.4 7.1 5.2 | 3.6 3.8 3.5 | 2.2 3.8 1.8 | 100.0 100.0 100.0 | 139 26 113 9,780 | | | |
| Number of lifetime partners | | | | | | | | | |
| 1 2 3-4 5-9 10+ | 93.1 91.4 92.3 93.2 92.3 | 4.7 5.4 5.4 5.4 5.6 | 1.4 2.1 1.6 0.6 1.7 | 0.9 1.0 0.7 0.8 0.4 | 100.0 100.0 100.0 100.0 100.0 | 4,540 2,337 1,637 792 533 | | | |
| Prior HIV testing Ever tested Received results Did not received results Never tested | 92.4 92.1 95.9 92.4 | 5.3 5.6 2.0 5.1 | 1.6 1.7 1.5 1.5 | 0.6 0.6 0.6 1.0 | 100.0 100.0 100.0 100.0 | 4,612 4,270 342 5,306 | | | |
| Total | 92.4 | 5.2 | 1.6 | 8.0 | 100.0 | 9,919 | | | |

Total includes 16 cases with missing information on multiple sexual partners and partner concurrency in past 12 months, 2

cases with missing information on multiple sexual partners and partner concurrency in past 12 months, 2 cases with missing information on number of lifetime partners, and 1 case with missing information on prior HIV testing.

Includes all Dried Blood Samples (DBS) tested at the lab and for which there is a result, i.e. positive, negative, or indeterminate. Indeterminate means that the sample went through the entire algorithm, but the final result was inconclusive. Includes: 1) other results of blood collection (e.g. technical problem in the field), 2) lost specimens, 3) non corresponding bar codes, and 4) other lab results such as blood not tested for technical reason, not enough blood to complete the algorithm, etc.

A respondent is considered to have had concurrent partners if he or she had overlapping sexual partnerships with two or more people during the 12 months before the survey. (Respondents with concurrent partners include polygynous men who had overlapping sexual partnerships with two or more wives).

ESTIMATES OF SAMPLING ERRORS

The estimates from a sample survey are affected by two types of errors: (1) nonsampling errors, and (2) sampling errors. Nonsampling errors are the results of mistakes made in implementing data collection and data processing, such as failure to locate and interview the correct household, misunderstanding of the questions on the part of either the interviewer or the respondent, and data entry errors. Although numerous efforts were made during the implementation of the 2011 Ethiopia Demographic and Health Survey (2011 EDHS) to minimize this type of error, nonsampling errors are impossible to avoid and difficult to evaluate statistically.

Sampling errors, on the other hand, can be evaluated statistically. The sample of respondents selected in the 2011 EDHS is only one of many samples that could have been selected from the same population, using the same design and identical size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling error is a measure of the variability between all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

A sampling error is usually measured in terms of the *standard error* for a particular statistic (mean, percentage, etc.), which is the square root of the variance. The standard error can be used to calculate confidence intervals within which the true value for the population can reasonably be assumed to fall. For example, for any given statistic calculated from a sample survey, the value of that statistic will fall within a range of plus or minus two times the standard error of that statistic in 95 percent of all possible samples of identical size and design.

If the sample of respondents had been selected as a simple random sample, it would have been possible to use straightforward formulas for calculating sampling errors. However, the 2011 EDHS sample is the result of a multi-stage stratified design, and, consequently, it was necessary to use more complex formulae. The computer software used to calculate sampling errors for the 2011 EDHS is a SAS program. This program used the Taylor linearization method for variance estimation for survey estimates that are means or proportions. The Jackknife repeated replication method is used for variance estimation of more complex statistics such as fertility and mortality rates.

The Taylor linearization method treats any percentage or average as a ratio estimate, r = y/x, where y represents the total sample value for variable y, and x represents the total number of cases in the group or subgroup under consideration. The variance of r is computed using the formula given below, with the standard error being the square root of the variance:

$$SE^{2}(r) = var(r) = \frac{1}{x^{2}} \sum_{h=1}^{H} \left[(1 - f_{h}) \frac{m_{h}}{m_{h} - 1} \left(\sum_{i=1}^{m_{h}} z_{hi}^{2} - \frac{z_{h}^{2}}{m_{h}} \right) \right]$$

in which

$$z_{hi} = y_{hi} - rx_{hi}$$
, and $z_h = y_h - rx_h$

where h represents the stratum which varies from 1 to H, m_h is the total number of clusters selected in the h^{th} stratum, y_{hi} is the sum of the weighted values of variable y in the i^{th} cluster in the h^{th} stratum, x_{hi} is the sum of the weighted number of cases in the i^{th} cluster in the h^{th} stratum, and

 x_{hi} is the sum of the weighted number of cases in the i^{th} cluster in the h^{th} stratum, is the sampling fraction of PSU in the h^{th} stratum which is small and ignored

The Jackknife repeated replication method derives estimates of complex rates from each of several replications of the parent sample, and calculates standard errors for these estimates using simple formulae. Each replication considers *all but one* cluster in the calculation of the estimates. Pseudo-independent replications are thus created. In the 2011 EDHS, there were 596 non-empty clusters. Hence, 596 replications were created. The variance of a rate *r* is calculated as follows:

$$SE^{2}(r) = var(r) = \frac{1}{k(k-1)} \sum_{i=1}^{k} (r_{i} - r)^{2}$$

in which

$$r_i = kr - (k-1)r_{(i)}$$

where r is the estimate computed from the full sample of 596 clusters,

 $r_{(i)}$ is the estimate computed from the reduced sample of 595 clusters (i^{th} cluster excluded), and

k is the total number of clusters.

In addition to the standard error, the program computes the design effect (DEFT) for each estimate, which is defined as the ratio between the standard error using the given sample design and the standard error that would result if a simple random sample had been used. A DEFT value of 1.0 indicates that the sample design is as efficient as a simple random sample, while a value greater than 1.0 indicates the increase in the sampling error due to the use of a more complex and less statistically efficient design, such as multistage and cluster selection. The program also computes the relative standard error and the confidence limits for the estimates.

Sampling errors for the 2011 EDHS are calculated for selected variables considered to be of primary interest for woman's survey and for man's surveys, respectively. The results are presented in this appendix for the country as a whole, for urban and rural areas separately, and for each of the 11 regions. For each variable, the type of statistic (mean, proportion, or rate) and the base population are given in Table B.1. Tables B.2 to B.16 present the value of the statistic (R), its standard error (SE), the number of unweighted (N-UNWE) and weighted (N-WEIG) cases, the design effect (DEFT), the relative standard error (SE/R), and the 95 percent confidence limits (R±2SE), for each variable. The DEFT is considered undefined when the standard error considering simple random sample is zero (when the estimate is close to 0 or 1). In the case of the total fertility rate, the number of unweighted cases is not relevant, as there is no known unweighted value for woman-years of exposure to child-bearing.

The confidence interval (e.g., as calculated for *children ever born to women over age 40*) can be interpreted as follows: the overall average from the national sample is 6.909 and its standard error is 0.112. Therefore, to obtain the 95 percent confidence limits, one adds and subtracts twice the standard error to the sample estimate, i.e., $6.909\pm2\times0.112$. There is a high probability (95 percent) that the *true* average number of children ever born to all women over age 40 is between 6.685 and 7.133.

For the total sample, the value of the design effect (DEFT), averaged over all variables for the women survey, is 2.037 which means that, due to multistage and clustering of the sample, the average standard error is increased by a factor of 2.037 over that in an equivalent simple random sample.

| Table B.1 List of selected variable | s for sampling errors, Ethiopia 2011 | |
|-------------------------------------|--------------------------------------|-----------------|
| Variable | Estimate | Base population |

| Variable | Estimate | Base population |
|---|--------------------------|---|
| | WOMEN | |
| | D | All 45.40 |
| Urban residence | Proportion | All women 15-49 |
| Literate | Proportion | All women 15-49 |
| No education | Proportion | All women 15-49 |
| Secondary education or higher | Proportion | All women 15-49 |
| Net attendance ratio for primary school Never married/in union | Ratio | Children 7-14 years All women 15-49 |
| | Proportion | |
| Currently married/in union Married before age 20 | Proportion Proportion | All women 15-49 Women age 20-49 |
| Currently pregnant | Proportion | All women 15-49 |
| Children ever born | Mean | All women 15-49 |
| Children surviving | Mean | All women 15-49 |
| Children ever born to women age 40-49 | Mean | Women age 40-49 |
| Knows any contraceptive method | Proportion | All women 15-49 |
| Currently using any contraceptive method | Proportion | Currently married women 15-49 |
| Currently using pill | Proportion | Currently married women 15-49 |
| Currently using IUD | Proportion | Currently married women 15-49 |
| Currently using female sterilization | Proportion | Currently married women 15-49 |
| Currently using rhythm method | Proportion | Currently married women 15-49 |
| Obtained method from public sector source | Proportion | Currently married women 15-49 |
| Want no more children | Proportion | Currently married women 15-49 |
| Want to delay birth at least 2 years | Proportion | Currently married women 15-49 |
| Ideal family size | Mean | All women 15-49 |
| Mothers received tetanus injection for last birth | Proportion | Women with at least 1 live birth in past 5 years |
| Mothers received medical assistance at delivery | Proportion | Births in last 5 years |
| Had diarrhoea in two weeks before survey | Proportion | Children under 5 years |
| Treated with oral rehydration salts (ORS) | Proportion | Children under 5 years with diarrhoea in past two weeks |
| Taken to a health provider | Proportion Proportion | Children with diarrhoea in past two weeks |
| Vaccination card seen | Proportion Proportion | Children age 12-23 months |
| Received BCG vaccination | Proportion | Children age 12-23 months |
| Received DPT vaccination (3 doses) | Proportion | Children age 12-23 months |
| Received polio vaccination (3 doses) | Proportion | Children age 12-23 months |
| Received measles vaccination | Proportion | Children age 12-23 months |
| Received all vaccinations | Proportion | Children age 12-23 months |
| Height-for-age (below -2SD) | Proportion | Children under 5 years who were measured |
| Weight-for-height (below -2SD) | Proportion | Children under 5 years who were measured |
| Weight-for-age (below -2SD) | Proportion | Children under 5 years who were measured |
| Prevalence of anaemia (children 6-59 months) | Proportion | Children 6-59 months who were tested |
| Prevalence of anaemia (women 15-49) | Proportion | All women 15-49 |
| Body Mass Index (BMI) <18.5 | Proportion | All women 15-49 |
| Had 2+ sex partners in past 12 months | Proportion | All women 15-49 |
| Abstinence among youth (never had sex) | Proportion | All never married women 15-24 |
| Sexually active in past 12 months among never-married youth | Proportion | All never married women 15-24 |
| Had an injection in past 12 months | Proportion | All women 15-49 |
| Had an HIV test and received results in past 12 months | Proportion | All women 15-49 |
| Accepting attitudes towards people with HIV | Proportion | All women 15-49 who have heard of HIV/AIDS |
| Knows about condoms | Proportion | All women 15-49 |
| Knows about limiting partners | Proportion | All women 15-49 All interviewed women with Dried Blood Sample (DBS) tested at the lab |
| HIV prevalence among all women 15-49 | Proportion Rate | All interviewed women with Dried Blood Sample (DBS) tested at the lab Women-years of exposure to childbearing |
| Total fertility rate (3 years) Neonatal mortality ¹ | Rate | Children exposed to the risk of mortality |
| Post-neonatal mortality | Rate | Children exposed to the risk of mortality Children exposed to the risk of mortality |
| Infant mortality | Rate | Children exposed to the risk of mortality Children exposed to the risk of mortality |
| Child mortality | Rate | Children exposed to the risk of mortality Children exposed to the risk of mortality |
| Under five mortality ¹ | Rate | Children exposed to the risk of mortality Children exposed to the risk of mortality |
| Ondor my mortality | Nate | Ormaton exposed to the risk of mortality |

| | N | 1EN |
|---|-----------------------|---|
| Urban residence | Proportion | All men 15-59 |
| Literate | Proportion - | All men 15-59 |
| No education | Proportion | All men 15-59 |
| Secondary education or higher | Proportion - | All men 15-59 |
| Never married/in union | Proportion . | All men 15-59 |
| Currently married/in union | Proportion . | All men 15-59 |
| Want no more children | Proportion . | Currently married men 15-59 |
| Want to delay birth at least 2 years | Proportion . | Currently married men 15-59 |
| Ideal family size | Mean | All men 15-59 |
| Had 2+ sex partners in past 12 months | Proportion | All men 15-49 |
| Condom use at last sex | Proportion . | Men 15-49 with 2+ sex partners in past 12 months |
| Abstinence among youth (never had sex) | Proportion | All never married men 15-24 |
| Sexually active in past 12 months among never-married youth | Proportion . | All never married men 15-24 |
| Had an injection in past 12 months | Proportion . | All men 15-49 |
| HIV test and received results past 12 months | Proportion | All men 15-49 |
| Accepting attitudes towards people with HIV | Proportion | All men 15-49 who have heard of HIV/AIDS |
| Knows about condoms | Proportion . | All men 15-49 |
| Knows about limiting partners | Proportion . | All men 15-49 |
| HIV prevalence among all men 15-49 | Proportion . | All interviewed men 15-49 with Dried Blood Sample (DBS) tested at the lab |
| HIV prevalence among all men 15-59 | Proportion Proportion | All interviewed men 15-59 with DBS tested at the lab |
| | MEN AN | D WOMEN |
| HIV prevalence among all respondents 15-49 | Proportion | All interviewed women and men 15-49 with DBS tested at the lab |

| | | | Number | of cases | | | Confide | nce limits |
|--|------------------|---------------------------|------------------------|----------------|----------------------------|-----------------------------|------------------|------------------|
| Variable | Value (R) | Standard error (SE) | Un- weighted (N) | Weighted (WN) | Design effect (DEFT) | Relative error (SE/R) | R-2SE | R+2SE |
| | ` ′ | OMEN | | , | , | | | |
| Urban residence | 0.239 | 0.011 | 16515 | 16515 | 3.280 | 0.046 | 0.217 | 0.261 |
| Literate | 0.384 | 0.011 | 16515 | 16515 | 2.793 | 0.028 | 0.363 | 0.405 |
| No education | 0.508 | 0.011 | 16515 | 16515 | 2.808 | 0.021 | 0.486 | 0.530 |
| Secondary education or higher Net attendance ratio for primary school | 0.112 0.645 | 0.005 0.013 | 16515 18062 | 16515 18932 | 2.079 3.199 | 0.046 0.019 | 0.102 0.620 | 0.122 0.670 |
| Never married/in union | 0.271 | 0.007 | 16515 | 16515 | 2.043 | 0.026 | 0.256 | 0.285 |
| Currently married/in union | 0.623 | 0.008 | 16515 | 16515 | 2.130 | 0.013 | 0.607 | 0.639 |
| Married before age 20 Currently pregnant | 0.767 0.073 | 0.008 0.003 | 9658 16515 | 9575 16515 | 1.924 1.594 | 0.011 0.044 | 0.750 0.067 | 0.783 0.079 |
| Children ever born | 2.882 | 0.044 | 16515 | 16515 | 1.832 | 0.015 | 2.795 | 2.969 |
| Children surviving | 2.423 | 0.034 | 16515 | 16515 | 1.755 | 0.014 | 2.354 | 2.491 |
| Children ever born to women age 40-49 Knows any contraceptive method | 6.909 0.976 | 0.112 0.004 | 2415 10204 | 2457 10287 | 1.848 2.627 | 0.016 0.004 | 6.686 0.968 | 7.133 0.984 |
| Currently using any contraceptive method | 0.976 | 0.004 | 10204 | 10287 | 2.576 | 0.044 | 0.966 | 0.309 |
| Currently using pill | 0.021 | 0.002 | 10204 | 10287 | 1.467 | 0.099 | 0.017 | 0.025 |
| Currently using IUD | 0.003 | 0.001 | 10204 | 10287 | 1.378 | 0.233 | 0.002 | 0.005 |
| Currently using female sterilization Currently using rhythm method | 0.005 0.009 | 0.001 0.002 | 10204 10204 | 10287 10287 | 1.580 1.590 | 0.230 0.163 | 0.002 0.006 | 0.007 0.012 |
| Obtained method from public sector source | 0.820 | 0.002 | 2796 | 3086 | 1.942 | 0.103 | 0.792 | 0.848 |
| Want no more children | 0.370 | 0.010 | 10204 | 10287 | 1.998 | 0.026 | 0.351 | 0.389 |
| Want to delay birth at least 2 years Ideal family size | 0.382 4.317 | 0.009 0.063 | 10204 14795 | 10287 14757 | 1.828 2.750 | 0.023 0.015 | 0.364 4.191 | 0.400 4.444 |
| Mothers received tetanus injection for last birth | 0.483 | 0.003 | 7764 | 7908 | 2.562 | 0.030 | 0.454 | 0.512 |
| Mothers received medical assistance at delivery | 0.100 | 0.007 | 11654 | 11872 | 2.204 | 0.069 | 0.086 | 0.114 |
| Had diarrhoea in two weeks before survey Treated with oral rehydration salts (ORS) | 0.134 0.263 | 0.006 0.017 | 10808 1620 | 11042 1483 | 1.806 1.447 | 0.046 0.065 | 0.122 0.229 | 0.147 0.297 |
| Taken to a health provider | 0.263 | 0.017 | 1620 | 1483 | 1.667 | 0.065 | 0.229 | 0.297 |
| Vaccination card seen | 0.287 | 0.019 | 1927 | 1930 | 1.787 | 0.065 | 0.250 | 0.324 |
| Received BCG vaccination | 0.663 0.365 | 0.021 0.019 | 1927 1927 | 1930 1930 | 1.904 1.748 | 0.031 0.053 | 0.622 0.326 | 0.704 0.404 |
| Received DPT vaccination (3 doses) Received polio vaccination (3 doses) | 0.365 | 0.019 | 1927 | 1930 | 1.748 | 0.053 | 0.326 | 0.404 |
| Received measles vaccination | 0.557 | 0.021 | 1927 | 1930 | 1.854 | 0.038 | 0.515 | 0.600 |
| Received all vaccinations | 0.243 | 0.017 | 1927 | 1930 | 1.713 | 0.069 | 0.209 | 0.277 |
| Height-for-age (below -2SD) Weight-for-height (below -2SD) | 0.444 0.097 | 0.009 0.005 | 10282 10282 | 10883 10883 | 1.787 1.675 | 0.020 0.051 | 0.426 0.087 | 0.462 0.107 |
| Weight-for-age (below -2SD) | 0.287 | 0.009 | 10282 | 10883 | 1.899 | 0.031 | 0.269 | 0.305 |
| Prevalence of anaemia (children 6-59 months) | 0.442 | 0.011 | 9157 | 9800 | 2.087 | 0.025 | 0.420 | 0.464 |
| Prevalence of anaemia (women 15-49) Body Mass Index (BMI) <18.5 | 0.166 0.269 | 0.006 0.007 | 15568 14381 | 15782 14505 | 2.154 1.927 | 0.038 0.026 | 0.153 0.255 | 0.179 0.283 |
| Had 2+ sex partners in past 12 months | 0.004 | 0.001 | 16515 | 16515 | 1.813 | 0.230 | 0.002 | 0.005 |
| Abstinence among youth (never had sex) | 0.944 | 0.005 | 3866 | 4022 | 1.348 | 0.005 | 0.934 | 0.954 |
| Sexually active in past 12 months among never-married youth Had an injection in past 12 months | 0.036 0.395 | 0.005 0.009 | 3866 16515 | 4022 16515 | 1.552 2.450 | 0.129 0.024 | 0.027 0.377 | 0.045 0.414 |
| Had an HIV test and received results in past 12 months | 0.358 | 0.003 | 16515 | 16515 | 3.356 | 0.024 | 0.377 | 0.383 |
| Accepting attitudes towards people with HIV | 0.171 | 0.007 | 15898 | 15934 | 2.445 | 0.043 | 0.157 | 0.186 |
| Knows about condoms | 0.559 | 0.011 | 16515 | 16515 | 2.884 | 0.020 | 0.537 | 0.582 |
| Knows about limiting partners HIV prevalence among all women 15-49 | 0.646 0.019 | 0.012 0.002 | 16515 15517 | 16515 14695 | 3.173 1.728 | 0.018 0.101 | 0.623 0.015 | 0.670 0.022 |
| Total fertility rate (3 years) | 4.803 | 0.154 | 45595 | 45308 | 2.476 | 0.032 | 4.495 | 5.111 |
| Neonatal mortality | 37.420 | 2.678 | 11737 | 11971 | 1.408 | 0.072 | 32.064 | 42.777 |
| Post-neonatal mortality Infant mortality | 21.767 59.187 | 1.945 3.269 | 11752 11762 | 11930 11988 | 1.376 1.414 | 0.089 0.055 | 17.876 52.650 | 25.657 65.725 |
| Child mortality | 30.661 | 2.659 | 11594 | 11656 | 1.548 | 0.087 | 25.343 | 35.979 |
| Under-five mortality | 88.033 | 4.374 | 11947 | 12141 | 1.572 | 0.050 | 79.284 | 96.782 |
| | | MEN | | | | | | |
| Urban residence | 0.225 | 0.011 | 12868 | 12834 | 2.897 | 0.047 | 0.203 | 0.246 |
| Literate | 0.665 | 0.010 | 12868 | 12834 | 2.426 | 0.015 | 0.645 | 0.686 |
| No education Secondary education or higher | 0.295 0.174 | 0.011 0.008 | 12868 12868 | 12834 12834 | 2.653 2.288 | 0.036 0.044 | 0.274 0.159 | 0.316 0.190 |
| Never married/in union | 0.436 | 0.009 | 12868 | 12834 | 2.146 | 0.022 | 0.418 | 0.455 |
| Currently married/in union | 0.535 | 0.009 | 12868 | 12834 | 2.066 | 0.017 | 0.517 | 0.554 |
| Want no more children Want to delay birth at least 2 years | 0.289 0.489 | 0.011 0.010 | 6775 6775 | 6872 6872 | 1.912 1.656 | 0.036 0.021 | 0.268 0.469 | 0.310 0.509 |
| Ideal family size | 4.825 | 0.010 | 11940 | 12068 | 2.488 | 0.021 | 4.660 | 4.990 |
| Had 2+ sex partners in past 12 months | 0.035 | 0.003 | 12868 | 12834 | 1.693 | 0.079 | 0.029 | 0.040 |
| Condom use at last sex Abstinence among youth (never had sex) | 0.155 0.873 | 0.026 0.008 | 564 4446 | 446 4622 | 1.703 1.517 | 0.168 0.009 | 0.103 0.858 | 0.207 0.888 |
| Sexually active in past 12 months among never-married youth | 0.673 | 0.008 | 4446 | 4622 4622 | 1.494 | 0.009 | 0.066 | 0.090 |
| Had an injection in past 12 months | 0.238 | 0.009 | 12868 | 12834 | 2.293 | 0.036 | 0.221 | 0.255 |
| HIV test and received results past 12 months | 0.376 | 0.011 | 12868 | 12834 | 2.490 | 0.028 | 0.354 | 0.397 |
| Accepting attitudes towards people with HIV Knows about condoms | 0.284 0.815 | 0.011 0.009 | 12691 12868 | 12676 12834 | 2.865 2.548 | 0.040 0.011 | 0.261 0.797 | 0.307 0.832 |
| Knows about condoms Knows about limiting partners | 0.739 | 0.012 | 12868 | 12834 | 3.165 | 0.017 | 0.714 | 0.763 |
| HIV prevalence among all men 15-49 | 0.010 | 0.001 | 11869 | 12582 | 1.479 | 0.135 | 0.007 | 0.013 |
| HIV prevalence among all men 15-59 | 0.010 | 0.001 | 13015 | 13837 | 1.450 | 0.128 | 0.007 | 0.012 |
| | MEN AN | ND WOMEN | | | | | | |
| HIV prevalence among all respondents 15-49 | 0.015 | 0.001 | 27386 | 27277 | 1.904 | 0.094 | 0.012 | 0.017 |
| | | | | | | | | |

| | Number of cases | | | | | | Confidence limits | |
|--|------------------|----------------|--------------|------------------|------------------|-----------------|-------------------|----------------|
| | Value | Standard | Un- | \\/aiabtad | Design | Relative | | |
| Variable | Value (R) | error (SE) | (N) | Weighted (WN) | effect (DEFT) | error (SE/R) | R-2SE | R+2SE |
| | W | OMEN | ` ' | , , | , | , , | | |
| Urban residence | 1.000 | 0.000 | 5329 | 3947 | na | 0.000 | 1.000 | 1.000 |
| Literate | 0.690 | 0.018 | 5329 | 3947 | 2.791 | 0.026 | 0.655 | 0.726 |
| No education | 0.222 | 0.016 | 5329 | 3947 | 2.808 | 0.072 | 0.190 | 0.25 |
| Secondary education or higher Net attendance ratio for primary school | 0.352 0.838 | 0.018 0.013 | 5329 3485 | 3947 2793 | 2.811 2.039 | 0.052 0.016 | 0.315 0.811 | 0.38 0.86 |
| Never married/in union | 0.404 | 0.013 | 5329 | 3947 | 2.464 | 0.010 | 0.371 | 0.43 |
| Currently married/in union | 0.467 | 0.021 | 5329 | 3947 | 3.092 | 0.045 | 0.425 | 0.50 |
| Married before age 20 | 0.610 | 0.021 | 2881 | 2070 | 2.288 | 0.034 | 0.568 | 0.65 |
| Currently pregnant | 0.038 | 0.004 | 5329 | 3947 | 1.590 | 0.110 | 0.030 | 0.04 |
| Children ever born Children surviving | 1.643 1.459 | 0.080 0.065 | 5329 5329 | 3947 3947 | 2.577 2.431 | 0.048 0.044 | 1.483 1.330 | 1.80 1.58 |
| Children ever born to women age 40-49 | 4.998 | 0.333 | 588 | 417 | 2.632 | 0.044 | 4.332 | 5.66 |
| Knows any contraceptive method | 0.993 | 0.003 | 2422 | 1843 | 1.601 | 0.003 | 0.988 | 0.99 |
| Currently using any contraceptive method | 0.525 | 0.021 | 2422 | 1843 | 2.060 | 0.040 | 0.483 | 0.56 |
| Currently using pill | 0.067 | 0.008 | 2422 2422 | 1843 | 1.536 | 0.116 | 0.052 | 0.08 |
| Currently using IUD Currently using female sterilization | 0.009 0.015 | 0.002 0.004 | 2422 | 1843 1843 | 1.336 1.782 | 0.293 0.293 | 0.004 0.006 | 0.01 |
| Currently using rhythm method | 0.013 | 0.004 | 2422 | 1843 | 1.883 | 0.244 | 0.000 | 0.02 |
| Obtained method from public sector source | 0.666 | 0.031 | 1273 | 1009 | 2.340 | 0.047 | 0.604 | 0.72 |
| Want no more children | 0.371 | 0.025 | 2422 | 1843 | 2.504 | 0.066 | 0.322 | 0.42 |
| Want to delay birth at least 2 years | 0.350 3.698 | 0.020 0.082 | 2422 4985 | 1843 3708 | 2.041 2.550 | 0.057 0.022 | 0.310 3.535 | 0.39 3.86 |
| Ideal family size Mothers received tetanus injection for last birth | 3.698 0.675 | 0.082 | 4985 1513 | 3708 1188 | 2.550 1.620 | 0.022 | 3.535 0.637 | 0.71 |
| Mothers received medical assistance at delivery | 0.508 | 0.039 | 1986 | 1528 | 2.976 | 0.026 | 0.431 | 0.58 |
| Had diarrhoea in two weeks before survey | 0.110 | 0.012 | 1865 | 1436 | 1.540 | 0.105 | 0.087 | 0.13 |
| Treated with oral rehydration salts (ORS) | 0.446 | 0.061 | 228 | 158 | 1.723 | 0.138 | 0.323 | 0.56 |
| Taken to a health provider | 0.535 0.548 | 0.056 0.050 | 228 350 | 158 274 | 1.616 1.897 | 0.104 0.091 | 0.423 0.448 | 0.64 0.64 |
| Vaccination card seen Received BCG vaccination | 0.546 | 0.030 | 350 350 | 274 274 | 1.897 | 0.091 | 0.448 | 0.64 |
| Received DPT vaccination (3 doses) | 0.605 | 0.049 | 350 | 274 | 1.912 | 0.081 | 0.507 | 0.70 |
| Received polio vaccination (3 doses) | 0.657 | 0.039 | 350 | 274 | 1.554 | 0.059 | 0.578 | 0.73 |
| Received measles vaccination | 0.796 | 0.041 | 350 | 274 | 1.919 | 0.051 | 0.714 | 0.87 |
| Received all vaccinations Height-for-age (below -2SD) | 0.481 0.315 | 0.049 0.026 | 350 1655 | 274 1342 | 1.849 2.192 | 0.101 0.081 | 0.384 0.264 | 0.57 0.36 |
| Weight-for-height (below -2SD) | 0.057 | 0.020 | 1655 | 1342 | 1.413 | 0.141 | 0.204 | 0.07 |
| Weight-for-age (below -2SD) | 0.163 | 0.025 | 1655 | 1342 | 2.645 | 0.151 | 0.114 | 0.21 |
| Prevalence of anaemia (children 6-59 months) | 0.352 | 0.024 | 1388 | 1139 | 1.888 | 0.067 | 0.305 | 0.39 |
| Prevalence of anaemia (women 15-49) | 0.109 | 0.010 | 4780 | 3621 | 2.282 | 0.093 | 0.089 | 0.129 |
| Body Mass Index (BMI) <18.5 Had 2+ sex partners in past 12 months | 0.201 0.007 | 0.017 0.002 | 4752 5329 | 3569 3947 | 2.885 1.928 | 0.083 0.307 | 0.167 0.003 | 0.23 0.01 |
| Abstinence among youth (never had sex) | 0.896 | 0.010 | 1769 | 1366 | 1.426 | 0.012 | 0.875 | 0.91 |
| Sexually active in past 12 months among never-married youth | 0.064 | 0.010 | 1769 | 1366 | 1.722 | 0.157 | 0.044 | 0.08 |
| Had an injection in past 12 months | 0.511 | 0.017 | 5329 | 3947 | 2.450 | 0.033 | 0.477 | 0.54 |
| Had an HIV test and received results in past 12 months Accepting attitudes towards people with HIV | 0.612 0.378 | 0.020 0.017 | 5329 5285 | 3947 3915 | 2.935 2.481 | 0.032 0.044 | 0.573 0.345 | 0.65 0.41 |
| Knows about condoms | 0.766 | 0.017 | 5329 | 3947 | 2.535 | 0.044 | 0.736 | 0.79 |
| Knows about limiting partners | 0.730 | 0.022 | 5329 | 3947 | 3.661 | 0.031 | 0.685 | 0.77 |
| HIV prevalence among all women 15-49 | 0.052 | 0.006 | 4754 | 3512 | 1.878 | 0.116 | 0.040 | 0.06 |
| Total fertility rate (3 years) | 2.634 | 0.201 | 14841 | 10879 | 1.866 | 0.076 | 2.232 | 3.03 |
| Neonatal mortality Post-neonatal mortality | 40.754 18.636 | 5.555 3.132 | 4077 4093 | 3153 3160 | 1.766 1.387 | 0.136 0.168 | 29.645 12.372 | 51.86 24.90 |
| Infant mortality | 59.390 | 7.288 | 4084 | 3158 | 1.931 | 0.100 | 44.814 | 73.96 |
| Child mortality | 25.421 | 5.242 | 4052 | 3147 | 1.605 | 0.206 | 14.937 | 35.90 |
| Under-five mortality | 83.302 | 10.154 | 4100 | 3176 | 2.033 | 0.122 | 62.993 | 103.61 |
| | | MEN | | | | | | |
| Urban residence | 1.000 | 0.000 | 3915 | 2882 | na | 0.000 | 1.000 | 1.00 |
| Literate | 0.900 | 0.012 | 3915 | 2882 | 2.580 | 0.014 | 0.875 | 0.92 |
| No education Secondary education or higher | 0.082 0.497 | 0.013 0.031 | 3915 3915 | 2882 2882 | 2.918 3.812 | 0.156 0.061 | 0.057 0.436 | 0.10 0.55 |
| Secondary education or nigner Never married/in union | 0.497 | 0.031 | 3915 | 2882 2882 | 3.812 | 0.061 | 0.436 | 0.55 |
| Currently married/in union | 0.428 | 0.023 | 3915 | 2882 | 2.946 | 0.054 | 0.382 | 0.47 |
| Want no more children | 0.327 | 0.022 | 1580 | 1235 | 1.849 | 0.067 | 0.284 | 0.37 |
| Want to delay birth at least 2 years | 0.434 | 0.022 | 1580 | 1235 | 1.784 | 0.051 | 0.389 | 0.47 |
| Ideal family size Had 2+ sey partners in past 12 months | 3.791 0.032 | 0.078 0.005 | 3699 3915 | 2767 2882 | 1.611 1.612 | 0.021 0.141 | 3.635 0.023 | 3.94 0.04 |
| Had 2+ sex partners in past 12 months Condom use at last sex | 0.032 | 0.005 | 148 | 93 | 2.305 | 0.141 | 0.023 | 0.04 |
| Abstinence among youth (never had sex) | 0.791 | 0.019 | 1453 | 1152 | 1.784 | 0.024 | 0.753 | 0.82 |
| Sexually active in past 12 months among never-married youth | 0.126 | 0.017 | 1453 | 1152 | 1.966 | 0.136 | 0.092 | 0.16 |
| Had an injection in past 12 months | 0.358 | 0.024 | 3915 | 2882 | 3.138 | 0.067 | 0.310 | 0.40 |
| HIV test and received results past 12 months | 0.563 | 0.020 | 3915 3908 | 2882 2876 | 2.576 | 0.036 | 0.522 | 0.60 0.56 |
| Accepting attitudes towards people with HIV Knows about condoms | 0.511 0.900 | 0.025 0.012 | 3908 3915 | 2876 2882 | 3.168 2.537 | 0.050 0.014 | 0.461 0.876 | 0.56 |
| Knows about condoms Knows about limiting partners | 0.754 | 0.012 | 3915 | 2882 | 3.228 | 0.014 | 0.710 | 0.32 |
| HIV prevalence among all men 15-49 | 0.029 | 0.005 | 3393 | 2825 | 1.689 | 0.167 | 0.019 | 0.03 |
| HIV prevalence among all men 15-59 | 0.029 | 0.005 | 3647 | 3039 | 1.657 | 0.158 | 0.020 | 0.03 |
| | MEN AI | ND WOMEN | 1 | - | | | | |
| HIV prevalence among all respondents 15-49 | 0.042 | 0.005 | 8147 | 6337 | 2.156 | 0.114 | 0.032 | 0.05 |
| , | J.U IL | 3.000 | 5 | 3001 | 00 | 2 | J.00L | 5.00 |

| | | 0 | | of cases | | 5.1.0 | Confide | nce limits |
|---|------------------|-------------------|----------------|----------------|------------------|-------------------|------------------|------------------|
| | Value | Standard error | Un- | Weighted | Design effect | Relative error | | |
| Variable | (R) | (SE) | (N) | (WN) | (DEFT) | (SE/R) | R-2SE | R+2SE |
| | W | OMEN | | | | | | |
| Urban residence | 0.000 0.288 | 0.000 | 11186 11186 | 12568 12568 | na 3.088 | na 0.046 | 0.000 | 0.000 |
| Literate No education | 0.200 | 0.013 0.014 | 11186 | 12568 | 2.923 | 0.046 | 0.261 0.571 | 0.314 0.625 |
| Secondary education or higher | 0.036 | 0.004 | 11186 | 12568 | 2.239 | 0.109 | 0.028 | 0.044 |
| Net attendance ratio for primary school Never married/in union | 0.612 0.229 | 0.014 0.008 | 14577 11186 | 16138 12568 | 3.077 1.996 | 0.023 0.035 | 0.584 0.213 | 0.640 0.245 |
| Currently married/in union | 0.229 | 0.008 | 11186 | 12568 | 1.961 | 0.033 | 0.654 | 0.243 |
| Married before age 20 | 0.810 | 0.009 | 6777 | 7505 | 1.881 | 0.011 | 0.792 | 0.828 |
| Currently pregnant Children ever born | 0.084 3.271 | 0.004 0.046 | 11186 11186 | 12568 12568 | 1.479 1.539 | 0.046 0.014 | 0.076 3.179 | 0.092 3.364 |
| Children surviving | 2.725 | 0.040 | 11186 | 12568 | 1.493 | 0.014 | 2.652 | 2.799 |
| Children ever born to women age 40-49 | 7.300 | 0.117 | 1827 | 2040 | 1.792 | 0.016 | 7.066 | 7.535 |
| Knows any contraceptive method Currently using any contraceptive method | 0.972 0.234 | 0.005 0.013 | 7782 7782 | 8444 8444 | 2.565 2.656 | 0.005 0.054 | 0.962 0.209 | 0.982 0.260 |
| Currently using pill | 0.011 | 0.002 | 7782 | 8444 | 1.512 | 0.162 | 0.008 | 0.015 |
| Currently using IUD | 0.002 | 0.001 | 7782 | 8444 | 1.499 | 0.353 | 0.001 | 0.004 |
| Currently using female sterilization Currently using rhythm method | 0.002 0.006 | 0.001 0.001 | 7782 7782 | 8444 8444 | 1.234 1.516 | 0.290 0.222 | 0.001 0.003 | 0.004 0.009 |
| Obtained method from public sector source | 0.895 | 0.001 | 1523 | 2077 | 1.664 | 0.222 | 0.869 | 0.009 |
| Want no more children | 0.369 | 0.010 | 7782 | 8444 | 1.884 | 0.028 | 0.349 | 0.390 |
| Want to delay birth at least 2 years | 0.389 4.525 | 0.010 0.079 | 7782 9810 | 8444 11049 | 1.737 2.665 | 0.025 0.017 | 0.370 4.368 | 0.408 4.682 |
| Ideal family size Mothers received tetanus injection for last birth | 4.525 0.449 | 0.079 | 9810 6251 | 6720 | 2.578 | 0.017 | 4.368 0.416 | 4.682 0.481 |
| Mothers received medical assistance at delivery | 0.040 | 0.005 | 9668 | 10344 | 2.241 | 0.125 | 0.030 | 0.050 |
| Had diarrhoea in two weeks before survey Treated with oral rehydration salts (ORS) | 0.138 0.241 | 0.007 0.018 | 8943 1392 | 9606 1326 | 1.781 1.395 | 0.050 0.074 | 0.124 0.206 | 0.152 0.277 |
| Taken to a health provider | 0.241 | 0.018 | 1392 | 1326 | 1.664 | 0.074 | 0.200 | 0.277 |
| Vaccination card seen | 0.244 | 0.019 | 1577 | 1656 | 1.724 | 0.079 | 0.205 | 0.282 |
| Received BCG vaccination | 0.638 | 0.023 | 1577 | 1656 | 1.849 | 0.036 | 0.592 | 0.684 0.366 |
| Received DPT vaccination (3 doses) Received polio vaccination (3 doses) | 0.325 0.408 | 0.020 0.023 | 1577 1577 | 1656 1656 | 1.683 1.774 | 0.063 0.055 | 0.284 0.363 | 0.366 |
| Received measles vaccination | 0.518 | 0.023 | 1577 | 1656 | 1.770 | 0.044 | 0.472 | 0.564 |
| Received all vaccinations | 0.204 | 0.017 | 1577 | 1656 | 1.655 | 0.085 | 0.169 | 0.238 |
| Height-for-age (below -2SD) Weight-for-height (below -2SD) | 0.462 0.102 | 0.010 0.006 | 8627 8627 | 9541 9541 | 1.699 1.625 | 0.021 0.054 | 0.443 0.091 | 0.482 0.113 |
| Weight-for-age (below -2SD) | 0.304 | 0.010 | 8627 | 9541 | 1.798 | 0.032 | 0.285 | 0.324 |
| Prevalence of anaemia (children 6-59 months) | 0.454 | 0.012 | 7769 | 8661 | 2.003 | 0.026 | 0.431 | 0.478 |
| Prevalence of anaemia (women 15-49) Body Mass Index (BMI) <18.5 | 0.183 0.291 | 0.008 0.008 | 10788 9629 | 12161 10936 | 2.022 1.646 | 0.041 0.026 | 0.168 0.276 | 0.198 0.306 |
| Had 2+ sex partners in past 12 months | 0.003 | 0.001 | 11186 | 12568 | 1.848 | 0.340 | 0.001 | 0.004 |
| Abstinence among youth (never had sex) | 0.968 | 0.005 | 2097 | 2657 | 1.417 | 0.006 | 0.958 | 0.979 |
| Sexually active in past 12 months among never-married youth Had an injection in past 12 months | 0.022 0.359 | 0.005 0.011 | 2097 11186 | 2657 12568 | 1.504 2.521 | 0.221 0.032 | 0.012 0.336 | 0.031 0.382 |
| Had an HIV test and received results in past 12 months | 0.278 | 0.014 | 11186 | 12568 | 3.408 | 0.052 | 0.249 | 0.307 |
| Accepting attitudes towards people with HIV | 0.104 | 0.007 | 10613 | 12019 | 2.266 | 0.065 | 0.090 | 0.117 |
| Knows about condoms Knows about limiting partners | 0.494 0.620 | 0.013 0.014 | 11186 11186 | 12568 12568 | 2.836 2.942 | 0.027 0.022 | 0.468 0.593 | 0.521 0.647 |
| HIV prevalence among all women 15-49 | 0.008 | 0.001 | 10763 | 11183 | 1.511 | 0.162 | 0.005 | 0.011 |
| Total fertility rate (3 years) | 5.463 | 0.167 | 30754 | 34429 | 2.442 | 0.031 | 5.130 | 5.797 |
| Neonatal mortality Post-neonatal mortality | 42.847 33.069 | 2.315 2.254 | 19582 19589 | 20940 20922 | 1.334 1.566 | 0.054 0.068 | 38.218 28.561 | 47.477 37.576 |
| Infant mortality | 75.916 | 3.460 | 19614 | 20922 | 1.588 | 0.046 | 68.995 | 82.837 |
| Child mortality | 41.711 | 2.948 | 19563 | 20792 | 1.730 | 0.071 | 35.815 | 47.608 |
| Under-five mortality | 114.460 | 4.373 | 19812 | 21171 | 1.657 | 0.038 | 105.72 | 123.210 |
| | | /IEN | | | | | | |
| Urban residence | 0.000 | 0.000 | 8953 | 9952 | na 2.264 | na 0.004 | 0.000 | 0.000 |
| Literate No education | 0.598 0.357 | 0.012 0.013 | 8953 8953 | 9952 9952 | 2.364 2.632 | 0.021 0.037 | 0.573 0.330 | 0.622 0.383 |
| Secondary education or higher | 0.081 | 0.007 | 8953 | 9952 | 2.281 | 0.081 | 0.068 | 0.094 |
| Never married/in union | 0.408 | 0.010 | 8953 | 9952 | 1.994 | 0.025 | 0.387 | 0.429 |
| Currently married/in union Want no more children | 0.566 0.280 | 0.010 0.012 | 8953 5195 | 9952 5637 | 1.948 1.874 | 0.018 0.042 | 0.546 0.257 | 0.587 0.304 |
| Want to delay birth at least 2 years | 0.501 | 0.012 | 5195 | 5637 | 1.594 | 0.022 | 0.479 | 0.523 |
| Ideal family size | 5.132 | 0.103 | 8241 | 9302 | 2.494 | 0.020 | 4.926 | 5.338 |
| Had 2+ sex partners in past 12 months Condom use at last sex | 0.035 0.055 | 0.003 0.017 | 8953 416 | 9952 353 | 1.671 1.539 | 0.092 0.315 | 0.029 0.020 | 0.042 0.089 |
| Abstinence among youth (never had sex) | 0.900 | 0.008 | 2993 | 3470 | 1.532 | 0.009 | 0.884 | 0.003 |
| Sexually active in past 12 months among never-married youth | 0.062 | 0.006 | 2993 | 3470 | 1.368 | 0.098 | 0.050 | 0.074 |
| Had an injection in past 12 months HIV test and received results past 12 months | 0.203 0.321 | 0.009 0.012 | 8953 8953 | 9952 9952 | 2.174 2.466 | 0.045 0.038 | 0.185 0.297 | 0.222 0.346 |
| Accepting attitudes towards people with HIV | 0.321 | 0.012 | 8783 | 9800 | 2.969 | 0.036 | 0.192 | 0.340 |
| Knows about condoms | 0.790 | 0.011 | 8953 | 9952 | 2.476 | 0.013 | 0.769 | 0.811 |
| Knows about limiting partners HIV prevalence among all men 15-49 | 0.735 0.005 | 0.014 | 8953 8476 | 9952 9757 | 3.101 1.352 | 0.020 | 0.706 | 0.764 0.007 |
| HIV prevalence among all men 15-59 | 0.005 | 0.001 0.001 | 9368 | 10798 | 1.352 | 0.217 0.211 | 0.003 0.002 | 0.007 |
| <u> </u> | | ID WOMEN | | - | - | | - | |
| LIIV providence among all recognitions 45, 45, 40 | | | | 200.40 | 1 500 | 0.400 | 0.005 | 0.000 |
| HIV prevalence among all respondents 15-49 | 0.006 | 0.001 | 19239 | 20940 | 1.509 | 0.136 | 0.005 | 0.008 |

| | | | Number | of cases | | | Confider | nce limits |
|--|------------------|----------------|--------------|------------------|------------------|-----------------|------------------|----------------|
| | \/alua | Standard | Un- | \Maightad | Design | Relative | | |
| Variable | Value (R) | error (SE) | (N) | Weighted (WN) | effect (DEFT) | error (SE/R) | R-2SE | R+2SE |
| | W | OMEN | | | | | | |
| Jrban residence | 0.270 | 0.019 | 1728 | 1104 | 1.804 | 0.071 | 0.232 | 0.30 |
| Literate No education | 0.450 0.494 | 0.022 0.021 | 1728 1728 | 1104 1104 | 1.841 1.768 | 0.049 0.043 | 0.406 0.451 | 0.49 0.53 |
| Secondary education or higher | 0.434 | 0.021 | 1728 | 1104 | 2.004 | 0.043 | 0.431 | 0.33 |
| Net attendance ratio for primary school | 0.748 | 0.025 | 1847 | 1180 | 2.182 | 0.034 | 0.697 | 0.79 |
| Never married/in union | 0.264 | 0.017 | 1728 | 1104 | 1.565 | 0.063 | 0.231 | 0.29 |
| Currently married/in union | 0.561 0.789 | 0.018 0.020 | 1728 966 | 1104 610 | 1.535 1.550 | 0.033 0.026 | 0.525 0.749 | 0.59 0.83 |
| Married before age 20 Currently pregnant | 0.769 | 0.020 | 1728 | 1104 | 1.313 | 0.026 | 0.749 | 0.03 |
| Children ever born | 2.788 | 0.071 | 1728 | 1104 | 1.012 | 0.025 | 2.646 | 2.92 |
| Children surviving | 2.372 | 0.058 | 1728 | 1104 | 0.999 | 0.025 | 2.256 | 2.48 |
| Children ever born to women age 40-49 | 6.449 | 0.153 | 283 | 176 | 0.947 | 0.024 | 6.144 | 6.75 |
| Knows any contraceptive method Currently using any contraceptive method | 0.991 0.222 | 0.003 0.019 | 984 984 | 620 620 | 0.959 1.400 | 0.003 0.084 | 0.985 0.185 | 0.99 0.25 |
| Currently using pill | 0.021 | 0.005 | 984 | 620 | 1.039 | 0.228 | 0.011 | 0.03 |
| Currently using IUD | 0.000 | 0.000 | 984 | 620 | na | na | 0.000 | 0.00 |
| Currently using female sterilization | 0.003 | 0.003 | 984 | 620 | 1.603 | 0.996 | 0.000 | 0.00 |
| Currently using rhythm method Obtained method from public sector source | 0.008 0.877 | 0.003 0.041 | 984 267 | 620 172 | 1.009 2.050 | 0.354 0.047 | 0.002 0.794 | 0.01 0.96 |
| Want no more children | 0.877 | 0.041 | 267 984 | 620 | 2.050 1.150 | 0.047 | 0.794 | 0.90 |
| Want to delay birth at least 2 years | 0.462 | 0.020 | 984 | 620 | 1.270 | 0.044 | 0.422 | 0.50 |
| Ideal family size | 4.803 | 0.099 | 1519 | 973 | 1.583 | 0.021 | 4.606 | 5.00 |
| Mothers received tetanus injection for last birth | 0.680 | 0.022 | 847 | 530 | 1.351 | 0.032 | 0.637 | 0.72 |
| Mothers received medical assistance at delivery Had diarrhoea in two weeks before survey | 0.116 0.134 | 0.019 0.012 | 1202 1123 | 753 702 | 1.795 1.115 | 0.162 0.090 | 0.079 0.110 | 0.15 0.15 |
| Treated with oral rehydration salts (ORS) | 0.292 | 0.035 | 152 | 94 | 0.902 | 0.120 | 0.222 | 0.36 |
| Taken to a health provider | 0.341 | 0.050 | 152 | 94 | 1.259 | 0.146 | 0.241 | 0.44 |
| Vaccination card seen | 0.583 | 0.041 | 203 | 129 | 1.164 | 0.070 | 0.502 | 0.66 |
| Received BCG vaccination Received DPT vaccination (3 doses) | 0.959 0.734 | 0.015 0.038 | 203 203 | 129 129 | 1.095 1.237 | 0.016 0.052 | 0.928 0.657 | 0.98 0.81 |
| Received polio vaccination (3 doses) | 0.764 | 0.034 | 203 | 129 | 1.147 | 0.032 | 0.695 | 0.83 |
| Received measles vaccination | 0.837 | 0.030 | 203 | 129 | 1.154 | 0.036 | 0.778 | 0.89 |
| Received all vaccinations | 0.589 | 0.045 | 203 | 129 | 1.281 | 0.076 | 0.500 | 0.67 |
| Height-for-age (below -2SD) | 0.514 | 0.019 | 1140 | 733 733 | 1.191 1.092 | 0.036 | 0.477 | 0.55 0.12 |
| Weight-for-height (below -2SD) Weight-for-age (below -2SD) | 0.103 0.351 | 0.010 0.022 | 1140 1140 | 733 | 1.410 | 0.098 0.063 | 0.083 0.307 | 0.12 |
| Prevalence of anaemia (children 6-59 months) | 0.375 | 0.018 | 1027 | 661 | 1.167 | 0.048 | 0.339 | 0.41 |
| Prevalence of anaemia (women 15-49) | 0.124 | 0.011 | 1688 | 1077 | 1.392 | 0.090 | 0.102 | 0.14 |
| Body Mass Index (BMI) <18.5 | 0.400 0.009 | 0.018 0.005 | 1565 1728 | 1001 1104 | 1.493 2.105 | 0.046 0.538 | 0.363 | 0.43 0.01 |
| Had 2+ sex partners in past 12 months Abstinence among youth (never had sex) | 0.009 | 0.003 | 418 | 276 | 1.224 | 0.014 | 0.000 0.918 | 0.01 |
| Sexually active in past 12 months among never-married youth | 0.041 | 0.010 | 418 | 276 | 1.030 | 0.243 | 0.021 | 0.06 |
| Had an injection in past 12 months | 0.401 | 0.021 | 1728 | 1104 | 1.793 | 0.053 | 0.358 | 0.44 |
| Had an HIV test and received results in past 12 months | 0.555 | 0.025 | 1728 | 1104 | 2.117 | 0.046 | 0.504 | 0.60 |
| Accepting attitudes towards people with HIV Knows about condoms | 0.252 0.739 | 0.016 0.017 | 1723 1728 | 1100 1104 | 1.510 1.577 | 0.063 0.023 | 0.221 0.706 | 0.28 0.77 |
| Knows about limiting partners | 0.816 | 0.019 | 1728 | 1104 | 2.085 | 0.024 | 0.777 | 0.85 |
| HIV prevalence among all women 15-49 | 0.022 | 0.005 | 1685 | 982 | 1.306 | 0.212 | 0.013 | 0.03 |
| Total fertility rate (3 years) | 4.565 | 0.248 | 4682 | 2991 | 1.439 | 0.054 | 4.069 | 5.06 |
| Neonatal mortality Post-neonatal mortality | 43.835 20.005 | 5.677 3.086 | 2411 2413 | 1499 1500 | 1.097 1.038 | 0.130 0.154 | 32.481 13.833 | 55.19 26.17 |
| Infant mortality | 63.840 | 6.225 | 2413 | 1500 | 1.038 | 0.134 | 51.390 | 76.29 |
| Child mortality | 22.789 | 3.395 | 2385 | 1481 | 1.021 | 0.149 | 15.999 | 29.57 |
| Under-five mortality | 85.175 | 7.258 | 2425 | 1506 | 1.098 | 0.085 | 70.658 | 99.69 |
| | N | ИEN | | | | | | |
| Jrban residence | 0.244 | 0.025 | 1235 | 770 | 2.003 | 0.100 | 0.195 | 0.29 |
| Literate No education | 0.718 0.307 | 0.022 0.023 | 1235 1235 | 770 770 | 1.687 1.714 | 0.030 0.073 | 0.675 0.262 | 0.76 0.35 |
| No education Secondary education or higher | 0.307 | 0.023 | 1235 | 770 770 | 1.714 | 0.073 | 0.262 | 0.35 |
| Never married/in union | 0.468 | 0.022 | 1235 | 770 | 1.580 | 0.048 | 0.423 | 0.51 |
| Currently married/in union | 0.489 | 0.023 | 1235 | 770 | 1.615 | 0.047 | 0.443 | 0.53 |
| Want no more children | 0.224 | 0.023 | 613 | 377 | 1.337 | 0.101 | 0.179 | 0.26 |
| Nant to delay birth at least 2 years deal family size | 0.588 4.686 | 0.025 0.126 | 613 1136 | 377 708 | 1.247 1.598 | 0.042 0.027 | 0.539 4.433 | 0.63 4.93 |
| Had 2+ sex partners in past 12 months | 0.017 | 0.126 | 1235 | 708 770 | 1.032 | 0.027 | 0.010 | 0.02 |
| Condom use at last sex | 0.521 | 0.097 | 21 | 13 | 0.874 | 0.186 | 0.327 | 0.71 |
| Abstinence among youth (never had sex) | 0.837 | 0.021 | 490 | 309 | 1.235 | 0.025 | 0.795 | 0.87 |
| Sexually active in past 12 months among never-married youth | 0.118 | 0.018 | 490 1235 | 309 | 1.233 | 0.152 | 0.082 | 0.15 |
| Had an injection in past 12 months HIV test and received results past 12 months | 0.215 0.491 | 0.016 0.023 | 1235 1235 | 770 770 | 1.355 1.611 | 0.074 0.047 | 0.184 0.445 | 0.24 0.53 |
| Accepting attitudes towards people with HIV | 0.491 | 0.023 | 1233 | 768 | 1.664 | 0.047 | 0.445 | 0.38 |
| Knows about condoms | 0.899 | 0.014 | 1235 | 770 | 1.601 | 0.015 | 0.871 | 0.92 |
| Knows about limiting partners | 0.847 | 0.020 | 1235 | 770 | 1.952 | 0.024 | 0.807 | 0.88 |
| HIV prevalence among all men 15-49 HIV prevalence among all men 15-59 | 0.013 0.011 | 0.004 0.003 | 1188 1331 | 755 845 | 1.139 1.140 | 0.293 0.293 | 0.005 0.005 | 0.02 0.01 |
| Try providence among all mon 10-05 | | ID WOMEN | | 0-10 | 1.140 | 0.230 | 0.000 | 0.01 |
| III/ providence among all recoper 34- 45 40 | | | | 4700 | 1 110 | 0.400 | 0.044 | 0.00 |
| HIV prevalence among all respondents 15-49 | 0.018 | 0.004 | 2873 | 1738 | 1.443 | 0.199 | 0.011 | 0.02 |

| | | | Number | of cases | | | Confide | nce limits |
|--|------------------|-------------------|--------------|------------|------------------|-------------------|------------------|------------------|
| Voriable | Value | Standard error | | Weighted | Design effect | Relative error | D OCE | D.205 |
| Variable | (R) | (SE) OMEN | (N) | (WN) | (DEFT) | (SE/R) | R-2SE | R+2SE |
| Urban residence | 0.270 | 0.030 | 1291 | 145 | 2.433 | 0.112 | 0.209 | 0.330 |
| Literate | 0.203 | 0.020 | 1291 | 145 | 1.776 | 0.098 | 0.163 | 0.243 |
| No education | 0.746 | 0.024 | 1291 | 145 | 1.983 | 0.032 | 0.698 | 0.794 |
| Secondary education or higher Net attendance ratio for primary school | 0.068 0.518 | 0.012 0.042 | 1291 1517 | 145 163 | 1.689 2.429 | 0.174 0.080 | 0.045 0.435 | 0.092 0.601 |
| Never married/in union | 0.171 | 0.015 | 1291 | 145 | 1.441 | 0.088 | 0.141 | 0.202 |
| Currently married/in union | 0.722 | 0.020 | 1291 | 145 | 1.604 | 0.028 | 0.682 | 0.762 |
| Married before age 20 Currently pregnant | 0.766 0.099 | 0.026 0.010 | 777 1291 | 86 145 | 1.726 1.151 | 0.034 0.097 | 0.713 0.080 | 0.818 0.118 |
| Children ever born | 3.198 | 0.125 | 1291 | 145 | 1.424 | 0.039 | 2.949 | 3.447 |
| Children surviving | 2.605 | 0.096 | 1291 | 145 | 1.358 | 0.037 | 2.413 | 2.797 |
| Children ever born to women age 40-49 Knows any contraceptive method | 7.255 0.861 | 0.269 0.023 | 206 960 | 22 104 | 1.365 2.025 | 0.037 0.026 | 6.716 0.816 | 7.793 0.906 |
| Currently using any contraceptive method | 0.001 | 0.023 | 960 | 104 | 1.835 | 0.183 | 0.060 | 0.130 |
| Currently using pill | 0.013 | 0.004 | 960 | 104 | 1.090 | 0.312 | 0.005 | 0.020 |
| Currently using IUD Currently using female sterilization | 0.000 0.000 | 0.000 0.000 | 960 960 | 104 104 | na na | na | 0.000 0.000 | 0.000 |
| Currently using remaie sternization Currently using rhythm method | 0.000 | 0.000 | 960 | 104 | 1.333 | na 0.999 | 0.000 | 0.000 |
| Obtained method from public sector source | 0.802 | 0.052 | 71 | 11 | 1.087 | 0.065 | 0.698 | 0.906 |
| Want no more children Want to delay hirth at least 2 years | 0.151 0.310 | 0.017 0.021 | 960 960 | 104 104 | 1.477 1.397 | 0.113 0.067 | 0.117 0.268 | 0.185 0.352 |
| Want to delay birth at least 2 years Ideal family size | 7.358 | 0.021 | 1118 | 104 | 2.067 | 0.067 | 6.705 | 8.011 |
| Mothers received tetanus injection for last birth | 0.267 | 0.034 | 714 | 78 | 2.038 | 0.127 | 0.199 | 0.335 |
| Mothers received medical assistance at delivery Had diarrhoea in two weeks before survey | 0.072 0.127 | 0.017 0.014 | 1130 1033 | 121 112 | 1.897 1.274 | 0.242 0.111 | 0.037 0.099 | 0.107 0.155 |
| Treated with oral rehydration salts (ORS) | 0.127 | 0.014 | 128 | 14 | 1.523 | 0.111 | 0.099 | 0.155 |
| Taken to a health provider | 0.399 | 0.060 | 128 | 14 | 1.373 | 0.151 | 0.278 | 0.520 |
| Vaccination card seen | 0.135 | 0.030 0.051 | 174 | 18 | 1.133 | 0.226 | 0.074 | 0.196 |
| Received BCG vaccination Received DPT vaccination (3 doses) | 0.381 0.103 | 0.051 | 174 174 | 18 18 | 1.333 1.133 | 0.134 0.263 | 0.279 0.049 | 0.484 0.158 |
| Received polio vaccination (3 doses) | 0.184 | 0.032 | 174 | 18 | 1.039 | 0.172 | 0.120 | 0.247 |
| Received measles vaccination | 0.303 | 0.046 | 174 | 18 | 1.259 | 0.150 | 0.212 | 0.394 |
| Received all vaccinations Height-for-age (below -2SD) | 0.086 0.502 | 0.025 0.022 | 174 962 | 18 105 | 1.130 1.287 | 0.291 0.044 | 0.036 0.458 | 0.135 0.545 |
| Weight-for-height (below -2SD) | 0.195 | 0.013 | 962 | 105 | 0.958 | 0.067 | 0.169 | 0.221 |
| Weight-for-age (below -2SD) | 0.402 | 0.025 | 962 | 105 | 1.464 | 0.061 | 0.353 | 0.451 |
| Prevalence of anaemia (children 6-59 months) Prevalence of anaemia (women 15-49) | 0.747 0.348 | 0.020 0.023 | 877 1260 | 95 141 | 1.289 1.710 | 0.026 0.066 | 0.708 0.302 | 0.787 0.393 |
| Body Mass Index (BMI) <18.5 | 0.435 | 0.023 | 1102 | 125 | 1.611 | 0.055 | 0.387 | 0.483 |
| Had 2+ sex partners in past 12 months | 0.000 | 0.000 | 1291 | 145 | na | na | 0.000 | 0.000 |
| Abstinence among youth (never had sex) Sexually active in past 12 months among never-married youth | 0.965 0.035 | 0.019 0.019 | 190 190 | 23 23 | 1.427 1.427 | 0.020 0.550 | 0.927 0.000 | 1.003 0.073 |
| Had an injection in past 12 months | 0.033 | 0.019 | 1291 | 145 | 1.600 | 0.075 | 0.223 | 0.301 |
| Had an HÍV test and received results in past 12 months | 0.294 | 0.031 | 1291 | 145 | 2.462 | 0.106 | 0.232 | 0.357 |
| Accepting attitudes towards people with HIV Knows about condoms | 0.244 0.361 | 0.034 0.033 | 1250 1291 | 140 145 | 2.778 2.493 | 0.139 0.093 | 0.176 0.294 | 0.312 0.428 |
| Knows about condoms Knows about limiting partners | 0.323 | 0.033 | 1291 | 145 | 2.503 | 0.093 | 0.257 | 0.428 |
| HIV prevalence among all women 15-49 | 0.020 | 0.007 | 1249 | 129 | 1.682 | 0.337 | 0.006 | 0.033 |
| Total fertility rate (3 years) | 4.951 | 0.304 | 3570 | 401 | 1.319 | 0.061 | 4.342 | 5.559 |
| Neonatal mortality Post-neonatal mortality | 33.496 30.268 | 4.514 4.910 | 2226 2233 | 240 240 | 1.070 1.147 | 0.135 0.162 | 24.468 20.448 | 42.523 40.089 |
| Infant mortality | 63.764 | 6.861 | 2229 | 240 | 1.198 | 0.108 | 50.042 | 77.486 |
| Child mortality Under-five mortality | 67.450 | 8.584 10.903 | 2273 | 243 | 1.312 | 0.127 | 50.281 | 84.618 |
| Onder-nive mondainty | 126.910 | | 2252 | 242 | 1.306 | 0.086 | 105.110 | 148.720 |
| Urban rasidanas | | MEN 0.030 | 040 | 101 | 2.460 | 0.447 | 0.050 | 0.407 |
| Urban residence Literate | 0.330 0.525 | 0.039 0.030 | 910 910 | 101 101 | 2.468 1.797 | 0.117 0.057 | 0.253 0.466 | 0.407 0.585 |
| No education | 0.489 | 0.035 | 910 | 101 | 2.079 | 0.071 | 0.420 | 0.558 |
| Secondary education or higher | 0.169 | 0.019 | 910 | 101 | 1.538 | 0.113 | 0.131 | 0.207 |
| Never married/in union Currently married/in union | 0.448 0.518 | 0.023 0.023 | 910 910 | 101 101 | 1.393 1.407 | 0.051 0.045 | 0.402 0.471 | 0.494 0.565 |
| Want no more children | 0.080 | 0.023 | 492 | 52 | 1.013 | 0.155 | 0.055 | 0.104 |
| Want to delay birth at least 2 years | 0.419 | 0.055 | 492 | 52 | 2.467 | 0.132 | 0.309 | 0.530 |
| ldeal family size Had 2+ sex partners in past 12 months | 9.103 0.077 | 0.537 0.013 | 840 910 | 94 101 | 1.922 1.513 | 0.059 0.173 | 8.028 0.051 | 10.178 0.104 |
| Condom use at last sex | 0.202 | 0.056 | 78 | 8 | 1.218 | 0.173 | 0.031 | 0.104 |
| Abstinence among youth (never had sex) | 0.694 | 0.044 | 296 | 35 | 1.633 | 0.063 | 0.606 | 0.782 |
| Sexually active in past 12 months among never-married youth Had an injection in past 12 months | 0.259 0.261 | 0.047 0.033 | 296 910 | 35 101 | 1.837 2.286 | 0.182 0.128 | 0.165 0.194 | 0.353 0.328 |
| HIV test and received results past 12 months | 0.261 | 0.033 | 910 | 101 | 1.824 | 0.128 | 0.194 | 0.328 |
| Accepting attitudes towards people with HIV | 0.303 | 0.027 | 898 | 100 | 1.781 | 0.090 | 0.249 | 0.358 |
| Knows about condoms | 0.736 | 0.029 | 910 | 101 | 1.995 | 0.040 | 0.678 | 0.794 |
| Knows about limiting partners HIV prevalence among all men 15-49 | 0.629 0.017 | 0.035 0.005 | 910 861 | 101 99 | 2.152 1.121 | 0.055 0.290 | 0.560 0.007 | 0.698 0.027 |
| HIV prevalence among all men 15-59 | 0.017 | 0.005 | 946 | 109 | 1.145 | 0.284 | 0.007 | 0.026 |
| | MEN AN | ID WOMEN | | | | | | |
| | | | | | | | | |

| | | | Number | of cases | | | Confide | nce limits |
|--|-------------------|----------------|-----------------|------------------|------------------|-----------------|------------------|-------------------|
| | | Standard | Un- | | Design | Relative | | |
| Variable | Value (R) | error (SE) | weighted (N) | Weighted (WN) | effect (DEFT) | error (SE/R) | R-2SE | R+2SE |
| | | OMEN | | | | , , | | |
| Urban residence | 0.215 | 0.036 | 2087 | 4433 | 4.006 | 0.168 | 0.143 | 0.287 |
| Literate | 0.364 | 0.019 | 2087 | 4433 | 1.790 | 0.052 | 0.326 | 0.402 |
| No education Secondary education or higher | 0.614 0.092 | 0.019 0.010 | 2087 2087 | 4433 4433 | 1.816 1.654 | 0.032 0.114 | 0.575 0.071 | 0.653 0.113 |
| Net attendance ratio for primary school | 0.685 | 0.023 | 2177 | 4548 | 2.179 | 0.034 | 0.638 | 0.732 |
| Never married/in union | 0.231 | 0.014 | 2087 | 4433 | 1.500 | 0.060 | 0.203 | 0.258 |
| Currently married/in union Married before age 20 | 0.626 0.876 | 0.017 0.015 | 2087 1211 | 4433 2545 | 1.613 1.582 | 0.027 0.017 | 0.592 0.845 | 0.660 0.906 |
| Currently pregnant | 0.047 | 0.006 | 2087 | 4433 | 1.205 | 0.119 | 0.036 | 0.058 |
| Children ever born | 2.854 | 0.092 | 2087 | 4433 | 1.383 | 0.032 | 2.670 | 3.039 |
| Children surviving Children ever born to women age 40-49 | 2.379 6.920 | 0.069 0.173 | 2087 369 | 4433 736 | 1.270 1.146 | 0.029 0.025 | 2.240 6.575 | 2.517 7.266 |
| Knows any contraceptive method | 0.992 | 0.002 | 1331 | 2776 | 1.028 | 0.023 | 0.987 | 0.997 |
| Currently using any contraceptive method | 0.339 | 0.022 | 1331 | 2776 | 1.725 | 0.066 | 0.294 | 0.384 |
| Currently using pill Currently using IUD | 0.015 0.003 | 0.004 0.002 | 1331 1331 | 2776 2776 | 1.084 1.029 | 0.240 0.504 | 0.008 0.000 | 0.022 0.006 |
| Currently using for Currently using female sterilization | 0.006 | 0.002 | 1331 | 2776 | 1.402 | 0.486 | 0.000 | 0.000 |
| Currently using rhythm method | 0.005 | 0.003 | 1331 | 2776 | 1.599 | 0.641 | 0.000 | 0.011 |
| Obtained method from public sector source Want no more children | 0.870 0.396 | 0.021 0.019 | 463 1331 | 1001 2776 | 1.334 1.416 | 0.024 0.048 | 0.829 0.358 | 0.912 0.434 |
| Want to delay birth at least 2 years | 0.396 | 0.019 | 1331 | 2776 | 1.416 | 0.048 | 0.303 | 0.434 |
| Ideal family size | 4.004 | 0.101 | 1860 | 3968 | 1.703 | 0.025 | 3.802 | 4.205 |
| Mothers received tetanus injection for last birth | 0.432 | 0.029 | 965 | 1991 | 1.796 | 0.067 | 0.374 | 0.489 |
| Mothers received medical assistance at delivery Had diarrhoea in two weeks before survey | 0.101 0.137 | 0.016 0.014 | 1294 1203 | 2656 2478 | 1.726 1.398 | 0.156 0.105 | 0.069 0.108 | 0.133 0.165 |
| Treated with oral rehydration salts (ORS) | 0.276 | 0.041 | 172 | 339 | 1.142 | 0.148 | 0.195 | 0.358 |
| Taken to a health provider | 0.254 | 0.039 | 172 | 339 | 1.146 | 0.156 | 0.175 | 0.333 |
| Vaccination card seen Received BCG vaccination | 0.311 0.677 | 0.039 0.039 | 222 222 | 446 446 | 1.224 1.218 | 0.125 0.058 | 0.234 0.598 | 0.389 0.756 |
| Received DPT vaccination (3 doses) | 0.384 | 0.040 | 222 | 446 | 1.199 | 0.105 | 0.303 | 0.464 |
| Received polio vaccination (3 doses) | 0.470 | 0.042 | 222 | 446 | 1.213 | 0.089 | 0.387 | 0.554 |
| Received measles vaccination Received all vaccinations | 0.620 0.263 | 0.044 0.039 | 222 222 | 446 446 | 1.313 1.286 | 0.071 0.149 | 0.532 0.184 | 0.708 0.341 |
| Height-for-age (below -2SD) | 0.203 | 0.039 | 1120 | 2325 | 1.021 | 0.149 | 0.184 | 0.552 |
| Weight-for-height (below -2SD) | 0.099 | 0.011 | 1120 | 2325 | 1.199 | 0.110 | 0.077 | 0.121 |
| Weight-for-age (below -2SD) Prevalence of anaemia (children 6-59 months) | 0.334 0.351 | 0.018 0.017 | 1120 1041 | 2325 2148 | 1.177 1.119 | 0.053 0.049 | 0.299 0.316 | 0.369 0.385 |
| Prevalence of anaemia (women 15-49) | 0.331 | 0.017 | 1989 | 4219 | 1.503 | 0.049 | 0.310 | 0.363 |
| Body Mass Index (BMI) <18.5 | 0.298 | 0.018 | 1871 | 3985 | 1.680 | 0.060 | 0.262 | 0.333 |
| Had 2+ sex partners in past 12 months Abstinance among youth (never had sex) | 0.003 0.947 | 0.001 0.010 | 2087 421 | 4433 949 | 1.119 0.945 | 0.477 0.011 | 0.000 0.926 | 0.005 0.967 |
| Abstinence among youth (never had sex) Sexually active in past 12 months among never-married youth | 0.947 | 0.010 | 421 | 949 | 1.122 | 0.334 | 0.920 | 0.967 |
| Had an injection in past 12 months | 0.375 | 0.015 | 2087 | 4433 | 1.421 | 0.040 | 0.344 | 0.405 |
| Had an HIV test and received results in past 12 months | 0.345 0.164 | 0.028 0.017 | 2087 2002 | 4433 4272 | 2.664 2.047 | 0.081 0.103 | 0.289 0.130 | 0.400 0.198 |
| Accepting attitudes towards people with HIV Knows about condoms | 0.164 | 0.017 | 2002 | 4433 | 2.422 | 0.103 | 0.130 | 0.196 |
| Knows about limiting partners | 0.589 | 0.032 | 2087 | 4433 | 2.930 | 0.054 | 0.526 | 0.652 |
| HIV prevalence among all women 15-49 | 0.022 4.1530 | 0.005 0.231 | 1973 5642 | 3945 11982 | 1.592 1.380 | 0.241 0.056 | 0.011 | 0.032 4.615 |
| Total fertility rate (3 years) Neonatal mortality | 53.695 | 5.414 | 2666 | 5450 | 1.101 | 0.036 | 3.692 42.866 | 64.524 |
| Post-neonatal mortality | 22.725 | 3.150 | 2657 | 5426 | 1.031 | 0.139 | 16.426 | 29.025 |
| Infant mortality | 76.421 | 7.239 | 2667 | 5452 | 1.273 | 0.095 | 61.943 | 90.898 |
| Child mortality Under-five mortality | 34.460 108.250 | 4.718 9.421 | 2710 2701 | 5531 5518 | 1.145 1.353 | 0.137 0.087 | 25.024 89.410 | 43.896 127.090 |
| , | | MEN | | | | | | |
| Urban residence | | | 1739 | 3481 | 3.207 | 0.156 | 0.135 | 0.258 |
| Literate | 0.196 0.619 | 0.031 0.021 | 1739 | 3481 | 3.207 1.787 | 0.156 | 0.135 | 0.258 |
| No education | 0.451 | 0.020 | 1739 | 3481 | 1.703 | 0.045 | 0.410 | 0.492 |
| Secondary education or higher | 0.115 | 0.013 | 1739 | 3481 | 1.660 | 0.110 | 0.090 | 0.141 |
| Never married/in union Currently married/in union | 0.419 0.536 | 0.020 0.018 | 1739 1739 | 3481 3481 | 1.697 1.533 | 0.048 0.034 | 0.379 0.500 | 0.459 0.573 |
| Want no more children | 0.348 | 0.019 | 936 | 1867 | 1.245 | 0.056 | 0.309 | 0.386 |
| Want to delay birth at least 2 years | 0.431 | 0.018 | 936 | 1867 | 1.135 | 0.043 | 0.394 | 0.468 |
| Ideal family size Had 2+ sex partners in past 12 months | 4.053 0.015 | 0.089 0.004 | 1554 1739 | 3133 3481 | 1.484 1.201 | 0.022 0.231 | 3.874 0.008 | 4.232 0.022 |
| Condom use at last sex | 0.243 | 0.122 | 25 | 54 | 1.372 | 0.504 | 0.000 | 0.488 |
| Abstinence among youth (never had sex) | 0.929 | 0.011 | 656 | 1327 | 1.062 | 0.011 | 0.908 | 0.951 |
| Sexually active in past 12 months among never-married youth Had an injection in past 12 months | 0.046 0.178 | 0.010 0.017 | 656 1739 | 1327 3481 | 1.177 1.882 | 0.208 0.097 | 0.027 0.144 | 0.066 0.213 |
| HIV test and received results past 12 months | 0.178 | 0.017 | 1739 | 3481 | 1.771 | 0.097 | 0.144 | 0.213 |
| Accepting attitudes towards people with HIV | 0.251 | 0.018 | 1706 | 3418 | 1.748 | 0.073 | 0.214 | 0.288 |
| Knows about condoms | 0.790 | 0.017 | 1739 | 3481 | 1.710 | 0.021 | 0.756 | 0.823 |
| Knows about limiting partners HIV prevalence among all men 15-49 | 0.664 0.010 | 0.024 0.003 | 1739 1624 | 3481 3419 | 2.112 1.090 | 0.036 0.269 | 0.616 0.005 | 0.711 0.015 |
| HIV prevalence among all men 15-59 | 0.009 | 0.002 | 1832 | 3835 | 1.093 | 0.262 | 0.004 | 0.014 |
| | MEN AN | D WOMEN | | | | | | |
| HIV prevalence among all respondents 15-49 | 0.016 | 0.004 | 3597 | 7364 | 1.759 | 0.228 | 0.009 | 0.024 |

| | | | Number | of cases | | | Confidence limits | | |
|--|------------------|----------------|--------------|--------------|----------------|----------------|-------------------|------------------|--|
| | | Standard | Un- | | Design | Relative | | | |
| M. C.L. | Value | error | weighted | | effect | error | D 005 | D 00F | |
| Variable | (R) | (SE) OMEN | (N) | (WN) | (DEFT) | (SE/R) | R-2SE | R+2SE | |
| | | | 0405 | 0044 | 4.400 | 0.000 | 0.407 | 0.475 | |
| Urban residence Literate | 0.156 0.380 | 0.009 0.023 | 2135 2135 | 6011 6011 | 1.198 2.182 | 0.060 0.060 | 0.137 0.334 | 0.175 0.426 | |
| No education | 0.494 | 0.023 | 2135 | 6011 | 2.096 | 0.046 | 0.448 | 0.539 | |
| Secondary education or higher | 0.092 | 0.009 | 2135 | 6011 | 1.386 | 0.094 | 0.075 0.550 | 0.110 | |
| Net attendance ratio for primary school Never married/in union | 0.602 0.259 | 0.026 0.014 | 2530 2135 | 7246 6011 | 2.323 1.479 | 0.043 0.054 | 0.530 | 0.654 0.288 | |
| Currently married/in union | 0.659 | 0.016 | 2135 | 6011 | 1.558 | 0.024 | 0.627 | 0.691 | |
| Married before age 20 | 0.772 | 0.016 | 1240 | 3479 | 1.301 | 0.020 | 0.741 | 0.803 | |
| Currently pregnant Children ever born | 0.083 3.042 | 0.006 0.083 | 2135 2135 | 6011 6011 | 1.069 1.238 | 0.077 0.027 | 0.071 2.877 | 0.096 3.207 | |
| Children surviving | 2.564 | 0.066 | 2135 | 6011 | 1.200 | 0.026 | 2.431 | 2.696 | |
| Children ever born to women age 40-49 | 7.119 | 0.256 | 304 | 844 | 1.472 | 0.036 | 6.606 | 7.631 | |
| Knows any contraceptive method Currently using any contraceptive method | 0.966 0.262 | 0.010 0.022 | 1403 1403 | 3961 3961 | 2.006 1.841 | 0.010 0.083 | 0.946 0.219 | 0.985 0.305 | |
| Currently using pill | 0.022 | 0.004 | 1403 | 3961 | 1.059 | 0.190 | 0.013 | 0.030 | |
| Currently using IUD | 0.003 | 0.001 | 1403 | 3961 | 0.962 | 0.499 | 0.000 | 0.005 | |
| Currently using female sterilization Currently using rhythm method | 0.002 0.011 | 0.001 0.003 | 1403 1403 | 3961 3961 | 0.956 1.067 | 0.554 0.275 | 0.000 0.005 | 0.004 0.016 | |
| Obtained method from public sector source | 0.826 | 0.003 | 375 | 1056 | 1.404 | 0.273 | 0.003 | 0.881 | |
| Want no more children | 0.371 | 0.018 | 1403 | 3961 | 1.425 | 0.050 | 0.334 | 0.407 | |
| Want to delay birth at least 2 years | 0.401 | 0.017 | 1403 | 3961 | 1.274 | 0.042 | 0.368 | 0.435 | |
| Ideal family size Mothers received tetanus injection for last birth | 4.258 0.459 | 0.141 0.028 | 1893 1100 | 5342 3116 | 2.166 1.866 | 0.033 0.061 | 3.977 0.403 | 4.540 0.515 | |
| Mothers received medical assistance at delivery | 0.439 | 0.028 | 1761 | 5014 | 1.496 | 0.138 | 0.403 | 0.104 | |
| Had diarrhoea in two weeks before survey | 0.113 | 0.010 | 1637 | 4665 | 1.277 | 0.092 | 0.093 | 0.134 | |
| Treated with oral rehydration salts (ORS) | 0.238 0.353 | 0.031 0.042 | 195 195 | 529 529 | 0.967 1.203 | 0.129 0.120 | 0.177 0.268 | 0.300 0.438 | |
| Taken to a health provider Vaccination card seen | 0.353 | 0.042 | 290 | 529 811 | 1.203 | 0.120 | 0.266 | 0.436 | |
| Received BCG vaccination | 0.574 | 0.039 | 290 | 811 | 1.324 | 0.067 | 0.496 | 0.651 | |
| Received DPT vaccination (3 doses) | 0.268 | 0.032 | 290 | 811 | 1.195 | 0.118 | 0.205 | 0.331 | |
| Received polio vaccination (3 doses) Received measles vaccination | 0.358 0.459 | 0.036 0.037 | 290 290 | 811 811 | 1.278 1.247 | 0.101 0.080 | 0.285 0.385 | 0.430 0.532 | |
| Received all vaccinations | 0.459 | 0.037 | 290 | 811 | 1.221 | 0.168 | 0.303 | 0.332 | |
| Height-for-age (below -2SD) | 0.414 | 0.016 | 1619 | 4723 | 1.292 | 0.039 | 0.381 | 0.446 | |
| Weight-for-height (below -2SD) | 0.097 | 0.009 | 1619 | 4723 | 1.179 | 0.092 | 0.079 | 0.115 | |
| Weight-for-age (below -2SD) Prevalence of anaemia (children 6-59 months) | 0.260 0.517 | 0.016 0.021 | 1619 1442 | 4723 4199 | 1.359 1.582 | 0.061 0.041 | 0.228 0.474 | 0.291 0.560 | |
| Prevalence of anaemia (women 15-49) | 0.192 | 0.013 | 2068 | 5834 | 1.547 | 0.070 | 0.165 | 0.218 | |
| Body Mass Index (BMI) <18.5 | 0.269 | 0.012 | 1872 | 5258 | 1.149 | 0.044 | 0.246 | 0.293 | |
| Had 2+ sex partners in past 12 months Abstinance among youth (never had sex) | 0.002 0.953 | 0.001 0.009 | 2135 515 | 6011 1445 | 1.036 0.923 | 0.450 0.009 | 0.000 0.936 | 0.005 0.971 | |
| Abstinence among youth (never had sex) Sexually active in past 12 months among never-married youth | 0.933 | 0.009 | 515 | 1445 | 1.159 | 0.009 | 0.936 | 0.971 | |
| Had an injection in past 12 months | 0.416 | 0.020 | 2135 | 6011 | 1.883 | 0.048 | 0.375 | 0.456 | |
| Had an HIV test and received results in past 12 months | 0.325 | 0.025 | 2135 | 6011 | 2.434 | 0.076 | 0.275 | 0.374 | |
| Accepting attitudes towards people with HIV Knows about condoms | 0.166 0.521 | 0.014 0.020 | 2032 2135 | 5716 6011 | 1.681 1.878 | 0.084 0.039 | 0.138 0.481 | 0.193 0.562 | |
| Knows about condoms Knows about limiting partners | 0.646 | 0.020 | 2135 | 6011 | 1.844 | 0.039 | 0.608 | 0.685 | |
| HIV prevalence among all women 15-49 | 0.013 | 0.003 | 2065 | 5348 | 1.067 | 0.206 | 0.008 | 0.018 | |
| Total fertility rate (3 years) | 5.640 | 0.324 | 5847 | 16472 | 1.878 | 0.057 | 4.992 | 6.287 | |
| Neonatal mortality Post-neonatal mortality | 40.374 32.452 | 3.517 3.866 | 3506 3498 | 9899 9876 | 0.934 1.193 | 0.087 0.119 | 33.340 24.721 | 47.407 40.184 | |
| Infant mortality | 72.826 | 5.707 | 3511 | 9913 | 1.157 | 0.078 | 61.413 | 84.239 | |
| Child mortality | 42.463 | 5.428 | 3434 | 9674 | 1.313 | 0.128 | 31.608 | 53.318 | |
| Under-five mortality | 112.200 | 7.227 | 3541 | 9995 | 1.193 | 0.064 | 97.74 | 126.65 | |
| | | MEN | | | | | | | |
| Urban residence | 0.142 | 0.012 | 1889 | 4957 | 1.504 | 0.085 | 0.118 | 0.166 | |
| Literate No education | 0.668 0.261 | 0.020 0.022 | 1889 1889 | 4957 4957 | 1.830 2.138 | 0.030 0.083 | 0.628 0.218 | 0.707 0.305 | |
| Secondary education or higher | 0.156 | 0.014 | 1889 | 4957 | 1.640 | 0.088 | 0.129 | 0.184 | |
| Never married/in union | 0.428 | 0.018 | 1889 | 4957 | 1.541 | 0.041 | 0.393 | 0.464 | |
| Currently married/in union Want no more children | 0.552 0.263 | 0.018 0.019 | 1889 1040 | 4957 2738 | 1.537 1.417 | 0.032 0.074 | 0.517 0.224 | 0.587 0.302 | |
| Want no more children Want to delay birth at least 2 years | 0.263 | 0.019 | 1040 | 2738 2738 | 1.417 | 0.074 | 0.224 | 0.302 | |
| Ideal family size | 5.145 | 0.177 | 1830 | 4798 | 2.062 | 0.034 | 4.791 | 5.498 | |
| Had 2+ sex partners in past 12 months | 0.041 | 0.006 | 1889 | 4957 | 1.237 | 0.139 | 0.029 | 0.052 | |
| Condom use at last sex Abstinence among youth (never had sex) | 0.108 0.874 | 0.037 0.016 | 81 661 | 201 1714 | 1.064 1.252 | 0.342 0.018 | 0.034 0.842 | 0.182 0.907 | |
| Sexually active in past 12 months among never-married youth | 0.074 | 0.010 | 661 | 1714 | 1.161 | 0.160 | 0.050 | 0.907 | |
| Had an injection in past 12 months | 0.232 | 0.017 | 1889 | 4957 | 1.704 | 0.071 | 0.199 | 0.266 | |
| HIV test and received results past 12 months | 0.319 | 0.021 | 1889 | 4957 | 1.954 | 0.066 | 0.277 | 0.361 | |
| Accepting attitudes towards people with HIV Knows about condoms | 0.336 0.820 | 0.025 0.017 | 1863 1889 | 4890 4957 | 2.298 1.870 | 0.075 0.020 | 0.286 0.787 | 0.387 0.853 | |
| Knows about condoms Knows about limiting partners | 0.795 | 0.017 | 1889 | 4957 | 2.422 | 0.028 | 0.750 | 0.833 | |
| HIV prevalence among all men 15-49 | 0.006 | 0.002 | 1798 | 4853 | 1.331 | 0.393 | 0.001 | 0.011 | |
| HIV prevalence among all men 15-59 | 0.006 | 0.002 | 1964 | 5291 | 1.277 | 0.357 | 0.002 | 0.011 | |
| | MEN A | ND WOMEN | <u> </u> | | | | | | |
| HIV prevalence among all respondents 15-49 | 0.010 | 0.002 | 3863 | 10202 | 1.281 | 0.208 | 0.006 | 0.014 | |

| | | | Number | of cases | | | Confider | nce limits |
|--|-------------------|---------------------------|------------------------|---------------|----------------------------|-----------------------------|-------------------|-------------------|
| Variable | Value (R) | Standard error (SE) | Un- weighted (N) | Weighted (WN) | Design effect (DEFT) | Relative error (SE/R) | R-2SE | R+2SE |
| variable | | OMEN | (11) | (****) | (DLI I) | (OL/IT) | IV ZOL | TTTECL |
| Urban residence | 0.447 | 0.041 | 914 | 329 | 2.475 | 0.091 | 0.366 | 0.529 |
| Literate | 0.198 | 0.027 | 914 | 329 | 2.072 | 0.138 | 0.143 | 0.253 |
| No education | 0.742 0.051 | 0.038 0.018 | 914 914 | 329 329 | 2.611 2.473 | 0.051 0.356 | 0.666 0.015 | 0.818 0.087 |
| Secondary education or higher Net attendance ratio for primary school | 0.580 | 0.018 | 1389 | 488 | 1.704 | 0.356 | 0.519 | 0.641 |
| Never married/in union | 0.195 | 0.016 | 914 | 329 | 1.211 | 0.081 | 0.164 | 0.227 |
| Currently married/in union | 0.704 | 0.022 | 914 | 329 | 1.427 | 0.031 | 0.661 | 0.747 |
| Married before age 20 Currently pregnant | 0.764 0.124 | 0.022 0.016 | 579 914 | 208 329 | 1.234 1.438 | 0.029 0.127 | 0.720 0.093 | 0.807 0.155 |
| Children ever born | 3.806 | 0.176 | 914 | 329 | 1.552 | 0.046 | 3.454 | 4.158 |
| Children surviving Children svor born to women ago 40,49 | 3.221 | 0.134 0.253 | 914 138 | 329 49 | 1.387 1.029 | 0.042 0.032 | 2.954 7.389 | 3.489 8.400 |
| Children ever born to women age 40-49 Knows any contraceptive method | 7.895 0.783 | 0.233 | 664 | 232 | 2.000 | 0.032 | 0.719 | 0.847 |
| Currently using any contraceptive method | 0.043 | 0.018 | 664 | 232 | 2.219 | 0.407 | 0.008 | 0.078 |
| Currently using pill | 0.008 | 0.003 | 664 | 232 | 0.863 | 0.364 | 0.002 | 0.015 |
| Currently using IUD Currently using female sterilization | 0.000 0.000 | 0.000 0.000 | 664 664 | 232 232 | na na | na na | 0.000 0.000 | 0.000 |
| Currently using rhythm method | 0.005 | 0.003 | 664 | 232 | 1.105 | 0.613 | 0.000 | 0.011 |
| Obtained method from public sector source | 0.461 | 0.094 | 28 | 10 | 0.977 | 0.203 | 0.274 | 0.648 |
| Want no more children Want to delay birth at least 2 years | 0.107 0.347 | 0.021 0.030 | 664 664 | 232 232 | 1.729 1.607 | 0.194 0.086 | 0.065 0.287 | 0.149 0.406 |
| Ideal family size | 9.737 | 0.423 | 619 | 217 | 2.044 | 0.043 | 8.891 | 10.583 |
| Mothers received tetanus injection for last birth | 0.337 | 0.041 | 559 | 198 | 2.052 | 0.122 | 0.255 | 0.420 |
| Mothers received medical assistance at delivery Had diarrhoea in two weeks before survey | 0.084 0.195 | 0.028 0.021 | 1027 951 | 364 339 | 2.558 1.500 | 0.335 0.110 | 0.028 0.152 | 0.141 0.238 |
| Treated with oral rehydration salts (ORS) | 0.306 | 0.059 | 179 | 66 | 1.533 | 0.192 | 0.189 | 0.423 |
| Taken to a health provider | 0.197 | 0.062 | 179 | 66 | 1.922 | 0.313 | 0.074 | 0.320 |
| Vaccination card seen Received BCG vaccination | 0.237 0.457 | 0.062 0.063 | 150 150 | 51 51 | 1.701 1.489 | 0.263 0.137 | 0.112 0.331 | 0.361 0.582 |
| Received DPT vaccination (3 doses) | 0.457 | 0.058 | 150 | 51 | 1.619 | 0.137 | 0.136 | 0.370 |
| Received polio vaccination (3 doses) | 0.279 | 0.051 | 150 | 51 | 1.341 | 0.181 | 0.178 | 0.380 |
| Received measles vaccination Received all vaccinations | 0.395 0.166 | 0.067 0.041 | 150 150 | 51 51 | 1.622 1.319 | 0.170 0.248 | 0.260 0.084 | 0.530 0.248 |
| Height-for-age (below -2SD) | 0.100 | 0.041 | 798 | 278 | 1.242 | 0.248 | 0.084 | 0.246 |
| Weight-for-height (below -2SD) | 0.222 | 0.019 | 798 | 278 | 1.221 | 0.087 | 0.183 | 0.260 |
| Weight-for-age (below -2SD) Provalence of anaemia (children 6.50 months) | 0.335 0.687 | 0.025 0.020 | 798 691 | 278 241 | 1.352 1.126 | 0.073 0.030 | 0.286 0.647 | 0.384 0.728 |
| Prevalence of anaemia (children 6-59 months) Prevalence of anaemia (women 15-49) | 0.667 | 0.020 | 813 | 292 | 2.014 | 0.030 | 0.647 | 0.728 |
| Body Mass Index (BMI) <18.5 | 0.327 | 0.023 | 717 | 255 | 1.309 | 0.071 | 0.281 | 0.373 |
| Had 2+ sex partners in past 12 months | 0.006 | 0.004 | 914 | 329 | 1.483 | 0.639 | 0.000 | 0.013 |
| Abstinence among youth (never had sex) Sexually active in past 12 months among never-married youth | 0.976 0.024 | 0.014 0.014 | 161 161 | 60 60 | 1.185 1.185 | 0.015 0.601 | 0.948 0.000 | 1.005 0.052 |
| Had an injection in past 12 months | 0.184 | 0.026 | 914 | 329 | 2.027 | 0.141 | 0.132 | 0.236 |
| Had an HIV test and received results in past 12 months | 0.106 0.144 | 0.029 0.032 | 914 724 | 329 269 | 2.853 2.409 | 0.275 | 0.048 | 0.164 0.208 |
| Accepting attitudes towards people with HIV Knows about condoms | 0.144 | 0.032 | 914 | 329 | 2.353 | 0.219 0.152 | 0.081 0.145 | 0.208 |
| Knows about limiting partners | 0.363 | 0.045 | 914 | 329 | 2.801 | 0.123 | 0.273 | 0.452 |
| HIV prevalence among all women 15-49 | 0.016 | 0.007 | 804 2544 | 293 918 | 1.520 | 0.418 | 0.003 | 0.030 |
| Total fertility rate (3 years) Neonatal mortality | 7.074 34.275 | 0.481 5.704 | 2108 | 753 | 1.511 1.008 | 0.068 0.166 | 6.112 22.868 | 8.036 45.683 |
| Post-neonatal mortality | 36.437 | 4.005 | 2107 | 753 | 0.866 | 0.110 | 28.426 | 44.447 |
| Infant mortality | 70.712 | 6.693 | 2114 | 755 | 0.943 | 0.095 | 57.325 | 84.098 |
| Child mortality Under-five mortality | 55.710 122.480 | 6.372 7.339 | 2062 2140 | 738 766 | 0.997 0.889 | 0.114 0.060 | 42.965 107.810 | 68.454 137.160 |
| | | MEN | | . 50 | 0.000 | 0.000 | | |
| Urban residence | 0.370 | 0.046 | 653 | 245 | 2.430 | 0.125 | 0.278 | 0.463 |
| Literate | 0.512 | 0.048 | 653 | 245 | 1.427 | 0.125 | 0.457 | 0.463 |
| No education | 0.424 | 0.036 | 653 | 245 | 1.881 | 0.086 | 0.351 | 0.497 |
| Secondary education or higher Never married/in union | 0.160 0.367 | 0.038 0.022 | 653 653 | 245 245 | 2.619 1.170 | 0.236 0.060 | 0.085 0.322 | 0.236 0.411 |
| Currently married/in union | 0.593 | 0.022 | 653 | 245 | 1.170 | 0.040 | 0.546 | 0.411 |
| Want no more children | 0.040 | 0.013 | 391 | 145 | 1.348 | 0.337 | 0.013 | 0.066 |
| Want to delay birth at least 2 years | 0.383 | 0.039 | 391 447 | 145 163 | 1.573 | 0.101 | 0.305 | 0.460 |
| ldeal family size Had 2+ sex partners in past 12 months | 12.917 0.062 | 0.878 0.013 | 447 653 | 163 245 | 1.728 1.378 | 0.068 0.211 | 11.161 0.036 | 14.673 0.088 |
| Condom use at last sex | 0.056 | 0.054 | 39 | 15 | 1.422 | 0.962 | 0.000 | 0.163 |
| Abstinence among youth (never had sex) | 0.888 | 0.024 | 199 | 76 76 | 1.076 | 0.027 | 0.840 | 0.936 |
| Sexually active in past 12 months among never-married youth Had an injection in past 12 months | 0.035 0.121 | 0.015 0.022 | 199 653 | 76 245 | 1.163 1.740 | 0.434 0.184 | 0.005 0.076 | 0.065 0.165 |
| HIV test and received results past 12 months | 0.171 | 0.026 | 653 | 245 | 1.747 | 0.151 | 0.119 | 0.222 |
| Accepting attitudes towards people with HIV | 0.219 | 0.028 | 602 | 228 | 1.660 | 0.128 | 0.163 | 0.275 |
| Knows about condoms Knows about limiting partners | 0.512 0.599 | 0.046 0.028 | 653 653 | 245 245 | 2.353 1.450 | 0.090 0.046 | 0.420 0.544 | 0.604 0.655 |
| HIV prevalence among all men 15-49 | 0.004 | 0.028 | 551 | 240 | 1.045 | 0.706 | 0.000 | 0.033 |
| HIV prevalence among all men 15-59 | 0.008 | 0.004 | 601 | 263 | 1.194 | 0.559 | 0.000 | 0.016 |
| | MEN AN | ID WOMEN | | | | | | |
| | | | | | | | | |

| | | | Number | of cases | | | | Confidence limits | |
|--|-------------------|---------------------------|------------------------|------------------|----------------------------|-----------------------------|------------------|-------------------|--|
| Variable | Value (R) | Standard error (SE) | Un- weighted (N) | Weighted (WN) | Design effect (DEFT) | Relative error (SE/R) | R-2SE | R+2SE | |
| variable | . , | OMEN | (14) | (۷۷۱۷) | (DLIT) | (OL/IV) | N-ZOL | IX+ZOL | |
| Urban residence | 0.224 | 0.025 | 1259 | 174 | 2.142 | 0.112 | 0.174 | 0.275 | |
| Literate | 0.294 | 0.032 | 1259 | 174 | 2.496 | 0.109 | 0.230 | 0.358 | |
| No education | 0.577 | 0.032 | 1259 | 174 | 2.267 | 0.055 | 0.514 | 0.640 | |
| Secondary education or higher Net attendance ratio for primary school | 0.094 0.698 | 0.025 0.026 | 1259 1420 | 174 189 | 3.038 1.822 | 0.266 0.037 | 0.044 0.646 | 0.14 0.74 | |
| Never married/in union | 0.030 | 0.020 | 1259 | 174 | 1.146 | 0.067 | 0.163 | 0.74 | |
| Currently married/in union | 0.714 | 0.016 | 1259 | 174 | 1.278 | 0.023 | 0.681 | 0.74 | |
| Married before age 20 Currently pregnant | 0.836 | 0.018 0.011 | 745 1259 | 102 174 | 1.313 | 0.021 | 0.801 | 0.87 0.12 | |
| Currently pregnant Children ever born | 0.102 3.040 | 0.011 | 1259 | 174 | 1.324 1.344 | 0.111 0.037 | 0.079 2.816 | 3.26 | |
| Children surviving | 2.414 | 0.082 | 1259 | 174 | 1.278 | 0.034 | 2.250 | 2.57 | |
| Children ever born to women age 40-49 | 6.634 | 0.259 | 182 | 23 | 1.211 | 0.039 | 6.116 | 7.15 | |
| Knows any contraceptive method Currently using any contraceptive method | 0.912 0.270 | 0.022 0.027 | 904 904 | 124 124 | 2.376 1.849 | 0.025 0.101 | 0.867 0.216 | 0.95 0.32 | |
| Currently using pill | 0.027 | 0.006 | 904 | 124 | 1.069 | 0.213 | 0.016 | 0.03 | |
| Currently using IUD | 0.000 | 0.000 | 904 | 124 | na | na | 0.000 | 0.00 | |
| Currently using female sterilization | 0.006 0.006 | 0.003 0.004 | 904 904 | 124 124 | 1.187 1.641 | 0.517 0.692 | 0.000 0.000 | 0.01 0.01 | |
| Currently using rhythm method Obtained method from public sector source | 0.677 | 0.004 | 223 | 35 | 1.531 | 0.032 | 0.581 | 0.01 | |
| Want no more children | 0.344 | 0.022 | 904 | 124 | 1.398 | 0.064 | 0.300 | 0.38 | |
| Want to delay birth at least 2 years | 0.393 | 0.022 | 904 | 124 | 1.323 | 0.055 | 0.350 | 0.43 | |
| Ideal family size Mothers received tetanus injection for last birth | 4.888 0.481 | 0.157 0.032 | 1146 674 | 160 92 | 1.784 1.651 | 0.032 0.066 | 4.573 0.418 | 5.20 0.54 | |
| Mothers received medical assistance at delivery | 0.089 | 0.012 | 1020 | 140 | 1.153 | 0.132 | 0.065 | 0.11 | |
| Had diarrhoea in two weeks before survey | 0.227 | 0.021 | 925 | 127 | 1.498 | 0.093 | 0.185 | 0.27 | |
| Treated with oral rehydration salts (ORS) Taken to a health provider | 0.287 0.501 | 0.039 0.047 | 204 204 | 29 29 | 1.245 1.303 | 0.136 0.094 | 0.209 0.407 | 0.36 0.59 | |
| Vaccination card seen | 0.301 | 0.047 | 170 | 23 | 1.294 | 0.054 | 0.407 | 0.38 | |
| Received BCG vaccination | 0.687 | 0.064 | 170 | 23 | 1.790 | 0.094 | 0.558 | 0.81 | |
| Received DPT vaccination (3 doses) | 0.417 | 0.054 | 170 | 23 | 1.406 | 0.129 | 0.309 | 0.52 | |
| Received polio vaccination (3 doses) Received measles vaccination | 0.457 0.672 | 0.049 0.045 | 170 170 | 23 23 | 1.264 1.236 | 0.107 0.067 | 0.359 0.582 | 0.55 0.76 | |
| Received all vaccinations | 0.236 | 0.043 | 170 | 23 | 1.293 | 0.180 | 0.151 | 0.32 | |
| Height-for-age (below -2SD) | 0.486 | 0.022 | 893 | 123 | 1.281 | 0.046 | 0.441 | 0.53 | |
| Weight-for-height (below -2SD) Weight-for-age (below -2SD) | 0.099 0.319 | 0.011 0.025 | 893 893 | 123 123 | 1.130 1.602 | 0.113 0.079 | 0.076 0.268 | 0.12 | |
| Prevalence of anaemia (children 6-59 months) | 0.465 | 0.024 | 808 | 111 | 1.340 | 0.051 | 0.417 | 0.51 | |
| Prevalence of anaemia (women 15-49) | 0.191 | 0.016 | 1213 | 167 | 1.388 | 0.082 | 0.159 | 0.22 | |
| Body Mass Index (BMI) <18.5 Had 2+ sex partners in past 12 months | 0.278 0.005 | 0.014 0.002 | 1063 1259 | 148 174 | 1.017 0.935 | 0.050 0.383 | 0.250 0.001 | 0.30 | |
| Abstinence among youth (never had sex) | 0.003 | 0.002 | 221 | 31 | 1.159 | 0.020 | 0.904 | 0.00 | |
| Sexually active in past 12 months among never-married youth | 0.045 | 0.017 | 221 | 31 | 1.193 | 0.370 | 0.012 | 0.07 | |
| Had an injection in past 12 months Had an HIV test and received results in past 12 months | 0.420 0.367 | 0.019 0.032 | 1259 1259 | 174 174 | 1.384 2.362 | 0.046 0.088 | 0.382 0.303 | 0.45 0.43 | |
| Accepting attitudes towards people with HIV | 0.367 | 0.032 | 1154 | 161 | 1.900 | 0.000 | 0.303 | 0.43 | |
| Knows about condoms | 0.535 | 0.031 | 1259 | 174 | 2.182 | 0.057 | 0.474 | 0.59 | |
| Knows about limiting partners | 0.532 | 0.034 | 1259 | 174 | 2.440 | 0.065 | 0.463 | 0.60 | |
| HIV prevalence among all women 15-49 Total fertility rate (3 years) | 0.017 5.197 | 0.006 0.413 | 1213 3463 | 155 478 | 1.510 1.809 | 0.333 0.080 | 0.006 4.371 | 0.02 6.02 | |
| Neonatal mortality | 62.477 | 5.847 | 2054 | 279 | 0.895 | 0.094 | 50.783 | 74.17 | |
| Post-neonatal mortality | 38.706 | 5.146 | 2049 | 279 | 1.046 | 0.133 | 28.414 | 48.99 | |
| Infant mortality Child mortality | 101.180 75.860 | 7.630 8.692 | 2058 2064 | 280 279 | 0.902 1.183 | 0.075 0.115 | 85.920 58.477 | 116.44 93.24 | |
| Under-five mortality | 169.370 | 13.102 | 2092 | 284 | 1.230 | 0.077 | 143.160 | 195.57 | |
| | N | ИEN | | | | | | | |
| Urban residence | 0.245 | 0.041 | 1047 | 138 | 3.042 | 0.166 | 0.164 | 0.326 | |
| Literate | 0.623 | 0.027 | 1047 | 138 | 1.831 | 0.044 | 0.568 | 0.678 | |
| No education Secondary education or higher | 0.316 0.139 | 0.024 0.025 | 1047 1047 | 138 138 | 1.681 2.307 | 0.076 0.178 | 0.268 0.090 | 0.369 0.188 | |
| Never married/in union | 0.139 | 0.023 | 1047 | 138 | 1.272 | 0.050 | 0.340 | 0.10 | |
| Currently married/in union | 0.586 | 0.021 | 1047 | 138 | 1.351 | 0.035 | 0.544 | 0.62 | |
| Want no more children | 0.265 | 0.026 | 614 614 | 81 91 | 1.462 | 0.098 | 0.213 | 0.31 | |
| Want to delay birth at least 2 years Ideal family size | 0.475 5.297 | 0.024 0.217 | 614 991 | 81 131 | 1.198 1.466 | 0.051 0.041 | 0.426 4.863 | 0.52 5.73 | |
| Had 2+ sex partners in past 12 months | 0.084 | 0.012 | 1047 | 138 | 1.361 | 0.139 | 0.060 | 0.10 | |
| Condom use at last sex | 0.037 | 0.019 | 90 | 12 | 0.952 | 0.513 | 0.000 | 0.07 | |
| Abstinence among youth (never had sex) Sexually active in past 12 months among never-married youth | 0.878 0.083 | 0.023 0.021 | 356 356 | 47 47 | 1.329 1.410 | 0.026 0.249 | 0.832 0.042 | 0.92 0.12 | |
| Had an injection in past 12 months | 0.350 | 0.021 | 1047 | 138 | 1.419 | 0.060 | 0.308 | 0.39 | |
| HIV test and received results past 12 months | 0.399 | 0.035 | 1047 | 138 | 2.293 | 0.087 | 0.329 | 0.46 | |
| Accepting attitudes towards people with HIV Knows about condoms | 0.223 0.779 | 0.021 0.023 | 1013 1047 | 135 138 | 1.617 1.827 | 0.095 0.030 | 0.181 0.732 | 0.26 0.82 | |
| Knows about condoms Knows about limiting partners | 0.779 | 0.023 | 1047 | 138 | 2.654 | 0.030 | 0.732 | 0.82 | |
| HIV prevalence among all men 15-49 | 0.008 | 0.005 | 987 | 135 | 1.728 | 0.612 | 0.000 | 0.01 | |
| HIV prevalence among all men 15-59 | 0.007 | 0.005 | 1076 | 146 | 1.739 | 0.614 | 0.000 | 0.01 | |
| | MEN AN | ID WOMEN | | | | | | | |
| HIV prevalence among all respondents 15-49 | 0.013 | 0.005 | 2200 | 290 | 2.050 | 0.386 | 0.003 | 0.02 | |

| Urban residence 0.166 0.016 2034 3236 1.040 0.007 0.132 1.014 1.0 | | Number of cases | | | | | | | nce limits |
|--|---|-----------------|-------|----------|--------|--------|-------|-------|------------------|
| Urban residence 0.1565 0.176 2034 3236 1.548 0.087 0.133 0.087 0.089 0.099 2034 3236 1.548 0.087 0.133 0.089 0.099 2034 3236 1.548 0.087 0.148 0.089 0.099 2034 3236 1.548 0.089 0.099 2034 3236 1.548 0.089 0.099 2034 3236 1.548 0.089 0.099 2034 3236 1.548 0.089 0.099 2034 3236 1.549 0.089 0.099 2034 3236 1.549 0.089 0.099 0.093 0.093 0.093 2034 3236 1.547 0.089 0.093 0.093 0.093 0.093 0.093 0.093 3236 1.321 0.023 0.093 | Variable | | error | weighted | | effect | error | R-2SE | R+2SE |
| Librarate 0.389 0.019 2034 3236 1.836 1.836 0.061 0.272 0.060 0.0000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | | ` ′ | | () | (****) | () | (=,, | | |
| No education One description of higher secondary optication or higher secondary optication or higher contractions and the secondary optication or secondary optication of secondary optication or secondary optication or secondary optication or secondary optication of secondary optication opticatio | Urban residence | 0.165 | 0.016 | 2034 | 3236 | 1.949 | 0.097 | 0.133 | 0.197 |
| Secondary education or higher (| | | | | | | | | 0.347 |
| Net attendance ratio for primary school 0.632 0.018 2947 4486 1.803 0.029 0.955 0.271 Currently pregnant 0.001 0.015 2024 3.235 1.478 0.050 0.271 Currently pregnant 0.093 0.005 2.034 3.236 0.031 0.021 Currently pregnant 0.093 0.006 2.034 3.236 0.031 0.080 0.080 Children surviving 0.083 0.003 2.034 3.236 0.031 0.080 0.080 Children surviving 0.083 0.006 0.083 0.006 0.080 0.080 0.080 Children surviving 0.083 0.006 0.083 0.006 0.080 0.080 0.080 Children surviving 0.083 0.006 0.080 0.080 0.080 0.080 Children surviving 0.083 0.006 0.080 0.080 0.080 0.080 Children surviving 0.083 0.006 0.002 0.003 0.006 0.000 Currently using purport 0.007 0.002 0.003 0.006 0.000 Currently using purport 0.007 0.002 0.003 0.006 0.000 0.000 Currently using purport 0.007 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Currently using purport 0.007 0.000 0. | | | | | | | | | 0.515 0.108 |
| Currently using furthmenthod currently using female sterilization Currently using furthmenthod currently currently using female sterilization Currently using furthmenthod curren | | | | | | | | | 0.668 |
| Married before age 20 0.693 0.022 1245 1960 1,655 0.031 0,649 0.060 1.060 0.000 1.065 0.0000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0 | | | | | | | | | 0.331 |
| Currently using print method control of the property of the pr | • | | | | | | | | 0.653 0.736 |
| Childrien surviving Children surviving Children ever born to women age 40-49 7.21 0.202 3.27 0.01 1.228 0.028 0.286 0.877 7.76 Knows any contraceptive method 0.387 0.002 1.289 0.022 1.045 0.022 1.045 0.023 0.028 0.877 7.76 Knows any contraceptive method 0.387 0.002 0.002 1.289 0.002 1.289 0.002 1.289 0.002 1.289 0.002 0.003 0.002 1.285 0.002 1.285 0.002 0.003 0.002 0.002 1.285 0.002 0.003 0.002 0.002 1.285 0.002 0.003 0.002 0.003 0.002 1.285 0.002 0.003 0.003 0.002 0.003 0.002 1.285 0.002 0.003 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.003 0.002 0.003 0.00 | | | | | | | | | 0.105 |
| Children ever born to women age 40-49 Knows any contraceptive method O.97 Coursetly using any contraceptive method O.254 Currently using any contraceptive method O.255 O.023 Currently using any contraceptive method O.256 O.023 Currently using pail O.030 O.032 Currently using pail O.030 O.032 Currently using pail O.030 O.032 Currently using pail O.030 Currently using pail O.030 O.030 Currently using pail O.030 O.030 Currently using pail O.030 Currently using termale sterilization O.030 O.030 Currently using termale sterilization O.030 Currently using termale sterilization O.030 Oblatined method from public sector source O.045 Oblatined method sterilization O.030 Oblatined sterilization oblatic sterilization o | | | | | | | | | 3.277 |
| Knows any contraceptive method | | | | | | | | | 2.736 7.685 |
| Currenty using juli U 0.003 1.025 2.022 1.027 0.970 0.228 0.008 0.007 0. | | | | | | | | | 1.000 |
| Currenty using IUD | | | | | | | | | 0.305 |
| Currently using female sterilization | | | | | | | | | 0.020 0.007 |
| Obtained method from public sector source 0.845 0.040 317 533 1.977 0.048 0.784 Want to delay birth at least 2 years 0.397 0.017 1295 2022 1.218 0.040 0.380 0.080 Want to delay birth at least 2 years 0.397 0.017 1295 2022 1.218 0.043 0.33 Mothers received transus injection for least birth 0.309 0.013 1834 2322 1.880 0.024 4.189 Mothers received transus injection for least birth 0.500 0.013 1834 2432 1.880 0.042 4.181 Mothers received medical assistance at delivery 0.164 0.012 1.491 2.295 1.28 0.075 0.139 Treated with oral rehydration salts (CRS) 0.251 0.034 225 378 1.132 0.146 0.184 Vaccination card seen 0.234 0.035 223 391 1.241 0.048 0.664 Received DFT vaccination (3 doses) 0.382 233 391 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.009</td></td<> | | | | | | | | | 0.009 |
| Want no more children" Want to delay bith at least 2 years 1097 0.017 1295 2022 1.217 0.040 0.360 0.061 1deal family size 1.0987 0.017 1295 2022 1.280 0.043 0.03 | Currently using rhythm method | | | | | | | | 0.011 |
| Want to delay birth at least 2 years | | | | | | | | | 0.926 0.447 |
| Ideal family size 4.396 0.103 1834 2932 1.860 0.024 4.189 4. | Want to delay birth at least 2 years | 0.397 | 0.017 | 1295 | 2022 | 1.268 | 0.043 | 0.363 | 0.432 |
| Mothers received medical assistance at delivery 0.661 0.013 1614 2494 1.910 0.207 0.036 0.014 dididrinos in two weeks before survey 0.164 0.012 1491 2305 1.206 0.075 0.139 0.075 0.036 255 378 1.138 0.134 0.184 0.134 0.184 0.134 0.184 0.036 0.035 0.03 | Ideal family size | | | | | | | | 4.603 |
| Had diarrhoea in two weeks before survey | | | | | | | | | 0.560 0.086 |
| Taken to a health provider Vaccination card seen 0.234 (0.034 255 378 1.132 0.115 0.239 0 Received BCG vaccination 0.734 (0.035 253 391 1.235 0.146 0.166 0 Received BCG vaccination (3 doses) 0.381 (0.041 253 391 1.241 0.048 0.664 0 Received PCI vaccination (3 doses) 0.469 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccination (3 doses) 0.469 (0.034 253 391 1.049 0.072 0.402 0 Received polio vaccination (3 doses) 0.461 (0.034 253 391 1.095 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.066 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.064 0.501 0 Received polio vaccinations 0.241 (0.034 253 391 1.205 0.064 0.501 0 Received polio vaccinations 0.248 0.017 1.317 2.311 1.341 0.043 0.063 0.063 0 Received polio vaccinations 0.248 0.017 1.352 0.011 1.335 0.012 0.012 0 Received polio vaccinations 0.248 0.017 1.352 0.011 1.225 0.046 0.035 0.044 0.045 0 Received polio vaccinations 0.248 0.017 1.352 0.011 1.225 0.046 0.035 0 Received polio vaccinations 0.259 0.017 2.343 309 1.225 0.046 0.035 0 Received polio vaccinations over polio vac | | | | | | | | | 0.189 |
| Vaccination card seen | | | | | | | | | 0.318 |
| Received BCG vaccination 0.734 0.035 253 391 1.241 0.048 0.664 0.664 0.664 0.047 vaccination (3 doses) 0.381 0.041 253 391 1.203 0.070 0.300 0.040 0.034 253 391 1.005 0.066 0.051 0.040 0.034 253 391 1.205 0.066 0.051 0.040 0.034 253 391 1.205 0.066 0.051 0.040 0.034 0.040 0.043 0.040 | | | | | | | | | 0.381 0.302 |
| Received polio vaccination (3 doses) | | | | | | | | | 0.804 |
| Received measles vaccination | | | | | | | | | 0.462 |
| Received all vaccinations 0.241 0.034 253 391 1.255 0.142 0.172 0.146 0.146 0.147 0.141 0.043 0.45 0.45 | | | | | | | | | 0.536 0.655 |
| Weight-for-sieght (below -2SD) | | | | | | | | | 0.309 |
| Weight-for-age (below -2SD) | Height-for-age (below -2SD) | | | | | | | | 0.478 |
| Prevalence of anaemia (children 6-59 months) | | | | | | | | | 0.092 0.318 |
| Body Mass Index (BMI) < 18.5 0.203 | | | | | | | | | 0.403 |
| Had 2+ sex partners in past 12 months | | | | | | | | | 0.131 |
| Abstinence among youth (never had sex) Sexually active in past 12 months among never-married youth 0.029 0.010 530 864 1.219 0.011 0.332 0.009 0 Had an injection in past 12 months 0.359 0.017 2034 3236 1.627 0.048 0.325 0.099 0 Had an injection in past 12 months 0.359 0.017 2034 3236 1.627 0.048 0.325 0.009 0 Had an injection in past 12 months 0.305 0.022 2034 3236 2.135 0.071 0.262 0 Caccepting attitudes towards people with HIV 0.076 0.012 2007 3197 1.994 0.155 0.052 0 Knows about condoms 0.561 0.021 2034 3236 2.146 0.030 0.675 0 Knows about limiting partners 0.718 0.021 2034 3236 2.146 0.030 0.675 0 HIV prevalence among all women 15-49 0.010 0.003 1943 2880 1.116 0.246 0.005 0 Total fertility rate (3 years) Neonatal mortality 37.617 3.950 3431 5301 1.056 0.105 29.717 48 Post-neonatal mortality 37.617 3.950 3431 5301 1.056 0.105 29.717 48 Infant mortality 78.169 6.050 3439 5312 1.179 0.077 66.068 9 Infant mortality 40,4947 4.555 3446 5334 1.125 0.112 31.78 50 Under-five mortality 115.920 7.991 3469 5358 1.262 0.069 99.930 131 WICHAIT residence Uite and the second of the seco | | | | | | | | | 0.229 0.008 |
| Sexually active in past 12 months among never-married youth Had an injection in past 12 months Had an injection in past 12 months O.359 0.017 2034 3236 1.627 0.048 0.352 0.098 Had an HIV test and received results in past 12 months O.369 0.022 2034 3236 2.135 0.071 0.262 0.000 Had an HIV test and received results in past 12 months O.076 0.012 2007 3197 1.994 0.155 0.052 0.052 Coppling attitudes towards people with HIV O.076 0.012 2007 3197 1.994 0.155 0.052 0.052 Coppling attitudes towards people with HIV O.076 0.012 2034 3236 1.994 0.155 0.052 0.052 Coppling attitudes towards people with HIV O.076 0.012 2034 3236 1.994 0.155 0.052 0.052 Coppling attitudes towards people with HIV O.076 0.012 2034 3236 1.994 0.155 0.052 0.052 Coppling attitudes towards people with HIV O.076 0.012 2034 3236 1.160 0.030 0.675 0.052 Coppling attitudes towards people with HIV O.076 0.012 2034 3236 1.162 0.030 0.675 0.052 Coppling attitudes towards people with HIV O.077 0.012 0.026 0.026 0.027 Coppling attitudes towards people with HIV O.077 0.015 0.027 Coppling attitudes towards people with HIV O.077 0.015 0.027 Coppling attitudes towards people with HIV O.077 0.015 0.027 Coppling attitudes towards people with HIV O.077 0.020 0.020 0.020 Coppling attitudes towards people with HIV O.077 0.020 0.020 0.020 Coppling attitudes towards people with HIV O.077 0.020 0.020 0.020 Coppling attitudes towards people with HIV O.077 0.020 0.020 0.020 Coppling attitudes towards people with HIV O.077 0.020 0.020 0.020 0.020 Coppling attitudes towards people with HIV O.077 0.020 0.020 0.020 0.020 Coppling attitudes towards people with HIV O.078 0.020 0.020 0.020 0.020 0.020 Coppling attitudes towards people with HIV O.079 0.020 0.020 0.020 0.020 0.020 0.020 Coppling attitudes towards people with HIV O.070 0.020 | | | | | | | | | 0.000 |
| Had an HİV test and received results in past 12 months Accepting affitudes towards people with HIV 0.076 | | | | | | | | | 0.050 |
| Accepting attitudes towards people with HIV | | | | | | | | | 0.394 0.349 |
| Knows about limiting partners | | | | | | | | | 0.100 |
| HIV prevalence among all women 15-49 O.010 | | | | | | | | | 0.603 |
| Total fertility rate (3 years) | | | | | | | | | 0.761 0.016 |
| Neonatal mortality | | | | | | | | | 5.412 |
| Infant mortality 78,169 6,050 3439 5312 1.179 0.077 66,068 90 Child mortality 40,947 4.585 3446 5334 1.125 0.112 31.778 50 MEN MEN War Wer Urban residence 0.166 0.021 1550 2307 2.214 0.126 0.124 0 Literate 0.648 0.017 1550 2307 1.434 0.027 0.614 0 No education 0.190 0.018 1550 2307 1.434 0.027 0.614 0 Secondary education or higher 0.172 0.020 1550 2307 1.845 0.097 0.153 0 Secondary education or higher 0.172 0.020 1550 2307 1.322 0.038 0.399 0 Currently married/in union 0.433 0.017 1550 2307 1.322 0.038 | Neonatal mortality | | | | | | | | 45.517 |
| Child mortality | | | | | | | | | 49.335 90.269 |
| Urban residence | | | | | | | | | 50.209 |
| Urban residence | | | | | | | | | 131.900 |
| Literate | | N | ИEN | | | | | | |
| No education | | | | | | | | | 0.208 |
| Secondary education or higher 0.172 0.020 1550 2307 2.079 0.116 0.132 0.00 Never married/in union 0.433 0.017 1550 2307 1.322 0.038 0.399 0 Currently married/in union 0.554 0.017 1550 2307 1.322 0.030 0.521 0 Want no more children 0.314 0.021 870 1279 1.315 0.066 0.273 0 Want to delay birth at least 2 years 0.508 0.019 870 1279 1.110 0.037 0.470 0 Ideal family size 4.957 0.149 1504 2242 1.832 0.030 4.659 5 Had 2+ sex partners in past 12 months 0.050 0.007 1550 2307 1.263 0.140 0.036 0 Sexually active in past 12 months among never-married youth 0.054 0.034 79 115 1.312 0.622 0.000 HIV test and received results past 12 months 0.257 | | | | | | | | | 0.683 |
| Never married/in union | | | | | | | | | 0.226 0.212 |
| Want no more children 0.314 0.021 870 1279 1.315 0.066 0.273 0.006 Want to delay birth at least 2 years 0.508 0.019 870 1279 1.110 0.037 0.470 0.007 Ideal family size 4.957 0.149 1504 2242 1.832 0.030 4.659 5 Had 2+ sex partners in past 12 months 0.050 0.007 1550 2307 1.263 0.140 0.036 0 Condom use at last sex 0.054 0.034 79 115 1.312 0.622 0.000 0 Abstinence among youth (never had sex) 0.868 0.014 542 814 0.988 0.017 0.839 0 Sexually active in past 12 months among never-married youth 0.073 0.011 542 814 0.988 0.017 0.839 0 Had an injection in past 12 months 0.257 0.014 1550 2307 1.293 0.056 0.228 0 HIV test and received results past 12 months 0.363 0.019 1550 2307 1.520 0.051 | Never married/in union | 0.433 | 0.017 | 1550 | 2307 | 1.322 | 0.038 | 0.399 | 0.466 |
| Want to delay birth at least 2 years 0.508 0.019 870 1279 1.110 0.037 0.470 0.037 Ideal family size 4.957 0.149 1504 2242 1.832 0.030 4.659 5 Had 2+ sex partners in past 12 months 0.050 0.007 1550 2307 1.263 0.140 0.036 0 Condom use at last sex 0.054 0.034 79 115 1.312 0.622 0.000 0 Abstinence among youth (never had sex) 0.868 0.014 542 814 0.988 0.017 0.839 0 Sexually active in past 12 months among never-married youth 0.073 0.011 542 814 1.002 0.153 0.051 0 HIV test and received results past 12 months 0.257 0.014 1550 2307 1.293 0.056 0.228 0 Accepting attitudes towards people with HIV 0.167 0.015 1547 2303 1.564 0.089 0.137 0 Knows about condoms 0.812 0.020 1550 2307 2.023 0.025 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.588</td> | | | | | | | | | 0.588 |
| Ideal family size | | | | | | | | | 0.356 0.546 |
| Condom use at last sex | Ideal family size | 4.957 | 0.149 | 1504 | 2242 | 1.832 | 0.030 | 4.659 | 5.256 |
| Abstinence among youth (never had sex) O.868 O.014 542 814 O.988 O.017 O.839 O.869 O.017 O.839 O.051 O.055 O.055 O.055 O.056 O.228 O.056 O.228 O.057 O.014 O.057 O.015 O.057 O | | | | | | | | | 0.064 |
| Sexually active in past 12 months among never-married youth 0.073 0.011 542 814 1.002 0.153 0.051 0 Had an injection in past 12 months 0.257 0.014 1550 2307 1.293 0.056 0.228 0 HIV test and received results past 12 months 0.363 0.019 1550 2307 1.520 0.051 0.326 0 Accepting attitudes towards people with HIV 0.167 0.015 1547 2303 1.564 0.089 0.137 0 Knows about condoms 0.812 0.020 1550 2307 2.023 0.025 0.771 0 Knows about limiting partners 0.729 0.028 1550 2307 2.461 0.038 0.674 0 HIV prevalence among all men 15-49 0.006 0.002 1454 2261 0.940 0.308 0.002 0 MEN AND WOMEN MEN AND WOMEN | | | | | | | | | 0.122 0.897 |
| HIV test and received results past 12 months | Sexually active in past 12 months among never-married youth | 0.073 | 0.011 | 542 | 814 | 1.002 | 0.153 | 0.051 | 0.096 |
| Accepting attitudes towards people with HIV 0.167 0.015 1547 2303 1.564 0.089 0.137 0.000 0.812 0.020 1550 2307 2.023 0.025 0.771 0.000 0. | Had an injection in past 12 months | 0.257 | | 1550 | 2307 | | 0.056 | 0.228 | 0.286 |
| Knows about condoms 0.812 0.020 1550 2307 2.023 0.025 0.771 0.025 Knows about limiting partners 0.729 0.028 1550 2307 2.461 0.038 0.674 0.06 HIV prevalence among all men 15-49 0.006 0.002 1454 2261 0.940 0.308 0.002 0.002 HIV prevalence among all men 15-59 0.006 0.002 1596 2475 0.935 0.306 0.002 0.002 MEN AND WOMEN | | | | | | | | | 0.400 0.196 |
| Knows about limiting partners 0.729 0.028 1550 2307 2.461 0.038 0.674 0.01 HIV prevalence among all men 15-49 0.006 0.002 1454 2261 0.940 0.308 0.002 0 | | | | | | | | | 0.190 |
| HIV prevalence among all men 15-59 0.006 0.002 1596 2475 0.935 0.306 0.002 0 MEN AND WOMEN | Knows about limiting partners | 0.729 | 0.028 | 1550 | 2307 | 2.461 | 0.038 | 0.674 | 0.785 |
| MEN AND WOMEN | | | | | | | | | 0.010 0.009 |
| | p. statonos among an mon 10 00 | | | | 2710 | 0.000 | 3.000 | J.002 | 0.009 |
| HIV prevalence among all respondents 15-49 0.009 0.002 3397 5141 1.105 0.203 0.005 0 | 1007 | | | | F4 | 4 40- | 0.000 | 0.00= | |
| | HIV prevalence among all respondents 15-49 | 0.009 | 0.002 | 3397 | 5141 | 1.105 | 0.203 | 0.005 | 0.012 |

| | | 0 | | of cases | | 5 1 4 | Confide | nce limits |
|--|------------------|---------------------------|------------------------|------------------|----------------------------|-----------------------------|------------------|----------------------------|
| Variable | Value (R) | Standard error (SE) | Un- weighted (N) | Weighted (WN) | Design effect (DEFT) | Relative error (SE/R) | R-2SE | R+2SE |
| | W | OMEN | , , | | | , , | | |
| Jrban residence | 0.307 | 0.068 | 1130 | 69 | 4.928 | 0.223 | 0.170 | 0.44 |
| Literate | 0.363 | 0.035 | 1130 | 69 | 2.457 | 0.097 | 0.293 | 0.433 |
| No education | 0.307 | 0.037 | 1130 | 69 | 2.671 | 0.120 | 0.234 | 0.38 |
| Secondary education or higher Net attendance ratio for primary school | 0.130 0.803 | 0.028 0.033 | 1130 1349 | 69 59 | 2.774 2.418 | 0.214 0.042 | 0.075 0.737 | 0.186 0.870 |
| Never married/in union | 0.234 | 0.039 | 1130 | 69 | 3.069 | 0.166 | 0.156 | 0.311 |
| Currently married/in union | 0.586 | 0.079 | 1130 | 69 | 5.301 | 0.134 | 0.429 | 0.744 |
| Married before age 20 | 0.760 0.057 | 0.025 0.010 | 674 1130 | 34 69 | 1.519 1.388 | 0.033 0.169 | 0.710 0.038 | 0.810 |
| Currently pregnant Children ever born | 2.060 | 0.365 | 1130 | 69 | 5.154 | 0.109 | 1.329 | 0.076 2.79 |
| Children surviving | 1.725 | 0.294 | 1130 | 69 | 5.066 | 0.170 | 1.137 | 2.312 |
| Children ever born to women age 40-49 | 5.551 | 0.271 | 165 | 7 | 1.357 | 0.049 | 5.010 | 6.093 |
| Knows any contraceptive method | 0.938 | 0.018 | 768 | 41 | 2.044 | 0.019 | 0.902 | 0.974 |
| Currently using any contraceptive method Currently using pill | 0.338 0.044 | 0.050 0.007 | 768 768 | 41 41 | 2.896 0.956 | 0.147 0.161 | 0.239 0.030 | 0.437 0.058 |
| Currently using IUD | 0.007 | 0.007 | 768 | 41 | 2.061 | 0.921 | 0.000 | 0.036 |
| Currently using female sterilization | 0.005 | 0.003 | 768 | 41 | 1.177 | 0.614 | 0.000 | 0.011 |
| Currently using rhythm method | 0.006 | 0.004 | 768 | 41 | 1.517 | 0.704 | 0.000 | 0.015 |
| Obtained method from public sector source Want no more children | 0.384 0.300 | 0.128 0.027 | 228 768 | 23 41 | 3.833 1.626 | 0.333 0.090 | 0.129 0.246 | 0.639 0.354 |
| Want to delay birth at least 2 years | 0.300 | 0.027 | 768 | 41 | 1.020 | 0.052 | 0.246 | 0.332 |
| Ideal family size | 4.367 | 0.362 | 1090 | 67 | 3.777 | 0.083 | 3.642 | 5.091 |
| Mothers received tetanus injection for last birth | 0.584 | 0.044 | 608 | 31 | 2.160 | 0.076 | 0.496 | 0.673 |
| Mothers received medical assistance at delivery Had diarrhoea in two weeks before survey | 0.274 0.226 | 0.036 0.028 | 851 782 | 40 37 | 2.037 1.664 | 0.132 0.122 | 0.202 0.171 | 0.346 0.281 |
| Treated with oral rehydration salts (ORS) | 0.453 | 0.028 | 177 | 8 | 1.631 | 0.122 | 0.171 | 0.580 |
| Taken to a health provider | 0.477 | 0.055 | 177 | 8 | 1.356 | 0.116 | 0.366 | 0.587 |
| Vaccination card seen | 0.237 | 0.057 | 151 | 8 | 1.616 | 0.240 | 0.123 | 0.351 |
| Received BCG vaccination | 0.720 | 0.062 | 151 151 | 8 8 | 1.686 | 0.087 0.175 | 0.595 | 0.845 0.373 |
| Received DPT vaccination (3 doses) Received polio vaccination (3 doses) | 0.276 0.415 | 0.048 0.049 | 151 | 8 | 1.310 1.196 | 0.175 | 0.180 0.318 | 0.513 |
| Received measles vaccination | 0.517 | 0.054 | 151 | 8 | 1.308 | 0.105 | 0.409 | 0.626 |
| Received all vaccinations | 0.155 | 0.054 | 151 | 8 | 1.823 | 0.351 | 0.046 | 0.263 |
| Height-for-age (below -2SD) | 0.273 | 0.024 | 735 | 33 | 1.283 | 0.088 | 0.225 | 0.321 |
| Weight-for-height (below -2SD) Weight-for-age (below -2SD) | 0.125 0.207 | 0.021 0.025 | 735 735 | 33 33 | 1.451 1.490 | 0.166 0.122 | 0.084 0.157 | 0.167 0.258 |
| Prevalence of anaemia (children 6-59 months) | 0.509 | 0.046 | 637 | 29 | 1.993 | 0.091 | 0.416 | 0.601 |
| Prevalence of anaemia (women 15-49) | 0.194 | 0.023 | 1092 | 67 | 1.927 | 0.119 | 0.148 | 0.240 |
| Body Mass Index (BMI) <18.5 | 0.310 | 0.049 | 1001 | 63 | 3.381 | 0.158 | 0.212 | 0.408 |
| Had 2+ sex partners in past 12 months Abstinence among youth (never had sex) | 0.112 0.509 | 0.087 0.143 | 1130 187 | 69 15 | 8.968 3.750 | 0.781 0.280 | 0.000 0.223 | 0.286 0.794 |
| Sexually active in past 12 months among never-married youth | 0.399 | 0.157 | 187 | 15 | 4.176 | 0.394 | 0.225 | 0.734 |
| Had an injection in past 12 months | 0.585 | 0.068 | 1130 | 69 | 4.576 | 0.116 | 0.450 | 0.721 |
| Had an HIV test and received results in past 12 months | 0.466 | 0.041 | 1130 | 69 | 2.780 | 0.089 | 0.383 | 0.549 |
| Accepting attitudes towards people with HIV Knows about condoms | 0.176 0.551 | 0.016 0.039 | 1086 1130 | 68 69 | 1.365 2.624 | 0.090 0.071 | 0.144 0.473 | 0.207 0.629 |
| Knows about condoms Knows about limiting partners | 0.463 | 0.039 | 1130 | 69 | 1.556 | 0.050 | 0.473 | 0.023 |
| HIV prevalence among all women 15-49 | 0.079 | 0.030 | 1092 | 61 | 3.623 | 0.375 | 0.020 | 0.139 |
| Total fertility rate (3 years) | 3.951 | 0.555 | 3121 | 190 | 3.646 | 0.140 | 2.841 | 5.061 |
| Neonatal mortality | 39.298 | 7.264 | 1717 | 81 | 1.264 | 0.185 | 24.770 | 53.826 |
| Post-neonatal mortality Infant mortality | 36.453 75.751 | 7.730 12.706 | 1717 1722 | 82 82 | 1.290 1.480 | 0.212 0.168 | 20.993 50.340 | 51.912 101.162 |
| Child mortality | 51.139 | 8.100 | 1741 | 83 | 1.074 | 0.158 | 34.940 | 67.339 |
| Under-five mortality | 123.020 | 15.578 | 1733 | 82 | 1.400 | 0.127 | 91.860 | 154.170 |
| | N | ЛEN | | | | | | |
| Urban residence | 0.317 | 0.103 | 865 | 59 | 6.330 | 0.324 | 0.112 | 0.522 |
| Literate | 0.733 | 0.015 | 865 | 59 | 1.010 | 0.021 | 0.702 | 0.763 |
| No education | 0.128 | 0.018 | 865 865 | 59 | 1.560 | 0.139 | 0.093 | 0.164 |
| Secondary education or higher Never married/in union | 0.331 0.449 | 0.028 0.058 | 865 865 | 59 59 | 1.751 3.398 | 0.085 0.129 | 0.274 0.333 | 0.387 0.565 |
| Currently married/in union | 0.443 | 0.061 | 865 | 59 | 3.570 | 0.123 | 0.360 | 0.604 |
| Want no more children | 0.178 | 0.022 | 488 | 29 | 1.288 | 0.125 | 0.133 | 0.223 |
| Want to delay birth at least 2 years | 0.511 | 0.029 | 488 | 29 | 1.266 | 0.056 | 0.454 | 0.568 |
| ldeal family size Had 2+ sex partners in past 12 months | 4.933 0.085 | 0.505 0.012 | 845 865 | 58 59 | 2.828 1.283 | 0.102 0.143 | 3.923 0.060 | 5.943 0.109 |
| Condom use at last sex | 0.085 | 0.012 | 72 | 59 5 | 1.263 | 0.143 | 0.060 | 0.108 |
| Abstinence among youth (never had sex) | 0.593 | 0.025 | 259 | 20 | 0.815 | 0.042 | 0.543 | 0.643 |
| Sexually active in past 12 months among never-married youth | 0.332 | 0.040 | 259 | 20 | 1.348 | 0.119 | 0.253 | 0.411 |
| Had an injection in past 12 months | 0.387 | 0.034 | 865 865 | 59 | 2.029 | 0.087 | 0.320 | 0.455 |
| HIV test and received results past 12 months Accepting attitudes towards people with HIV | 0.519 0.419 | 0.042 0.022 | 865 855 | 59 59 | 2.485 1.293 | 0.082 0.052 | 0.435 0.376 | 0.60 ² 0.463 |
| Knows about condoms | 0.419 | 0.022 | 865 | 59 59 | 1.021 | 0.032 | 0.834 | 0.463 |
| Knows about limiting partners | 0.724 | 0.017 | 865 | 59 | 1.104 | 0.023 | 0.691 | 0.758 |
| HIV prevalence among all men 15-49 | 0.049 | 0.009 | 817 | 58 | 1.247 | 0.192 | 0.030 | 0.068 |
| HIV prevalence among all men 15-59 | 0.048 | 0.009 | 889 | 62 | 1.274 | 0.191 | 0.029 | 0.066 |
| | MEN AN | ID WOMEN | | | | | | |
| HIV prevalence among all respondents 15-49 | 0.065 | 0.018 | 1909 | 119 | 3.171 | 0.276 | 0.029 | 0.10 |

| | | | Number | of cases | | | Confidence limits | | |
|--|------------------|-------------------|--------------|----------|------------------|-------------------|-------------------|-----------------|--|
| Variable | Value | Standard error | | Weighted | Design effect | Relative error | D 20E | D.OCE | |
| Variable | (R) | (SE) OMEN | (N) | (WN) | (DEFT) | (SE/R) | R-2SE | R+2SE | |
| Urban residence | 0.617 | 0.019 | 1101 | 49 | 1.319 | 0.031 | 0.578 | 0.656 | |
| Literate | 0.540 | 0.019 | 1101 | 49 | 1.413 | 0.031 | 0.378 | 0.582 | |
| No education | 0.356 | 0.022 | 1101 | 49 | 1.504 | 0.061 | 0.312 | 0.399 | |
| Secondary education or higher | 0.303 | 0.022 | 1101 | 49 | 1.554 | 0.071 | 0.260 | 0.34 | |
| Net attendance ratio for primary school Never married/in union | 0.739 0.301 | 0.036 0.017 | 1048 1101 | 46 49 | 2.157 1.253 | 0.049 0.058 | 0.666 0.266 | 0.81 | |
| Currently married/in union | 0.575 | 0.017 | 1101 | 49 49 | 1.205 | 0.036 | 0.200 | 0.33 | |
| Married before age 20 | 0.670 | 0.020 | 630 | 28 | 1.087 | 0.030 | 0.629 | 0.71 | |
| Currently pregnant | 0.067 | 0.009 | 1101 | 49 | 1.147 | 0.129 | 0.050 | 0.08 | |
| Children ever born | 2.236 | 0.116 | 1101 | 49 | 1.423 | 0.052 | 2.004 | 2.46 | |
| Children surviving | 1.917 | 0.079 0.354 | 1101 146 | 49 7 | 1.163 | 0.041 | 1.760 4.803 | 2.07 6.21 | |
| Children ever born to women age 40-49 Knows any contraceptive method | 5.511 0.995 | 0.354 | 635 | 28 | 1.251 1.095 | 0.064 0.003 | 0.989 | 1.00 | |
| Currently using any contraceptive method | 0.333 | 0.003 | 635 | 28 | 1.400 | 0.003 | 0.303 | 0.40 | |
| Currently using pill | 0.067 | 0.012 | 635 | 28 | 1.183 | 0.175 | 0.044 | 0.09 | |
| Currently using IUD | 0.012 | 0.004 | 635 | 28 | 0.942 | 0.341 | 0.004 | 0.02 | |
| Currently using female sterilization | 0.003 | 0.002 | 635 | 28 | 1.009 | 0.711 | 0.000 | 0.00 | |
| Currently using rhythm method Obtained method from public sector source | 0.029 0.635 | 0.008 0.037 | 635 220 | 28 10 | 1.259 1.149 | 0.288 0.059 | 0.012 0.560 | 0.04 0.71 | |
| Want no more children | 0.035 | 0.037 | 635 | 28 | 1.149 | 0.059 | 0.312 | 0.71 | |
| Want to delay birth at least 2 years | 0.384 | 0.022 | 635 | 28 | 1.148 | 0.058 | 0.340 | 0.42 | |
| Ideal family size | 4.666 | 0.156 | 1070 | 47 | 1.802 | 0.033 | 4.353 | 4.97 | |
| Mothers received tetanus injection for last birth | 0.695 | 0.037 | 440 | 19 | 1.652 | 0.053 | 0.622 | 0.76 | |
| Mothers received medical assistance at delivery Had diarrhoea in two weeks before survey | 0.325 0.118 | 0.028 0.015 | 659 616 | 29 27 | 1.249 1.148 | 0.085 0.130 | 0.270 0.087 | 0.38 0.14 | |
| Treated with oral rehydration salts (ORS) | 0.116 | 0.013 | 73 | 3 | 1.097 | 0.166 | 0.007 | 0.14 | |
| Taken to a health provider | 0.450 | 0.062 | 73 | 3 | 1.034 | 0.137 | 0.326 | 0.57 | |
| Vaccination card seen | 0.371 | 0.053 | 115 | 5 | 1.151 | 0.143 | 0.264 | 0.47 | |
| Received BCG vaccination | 0.729 | 0.062 | 115 | 5 | 1.430 | 0.084 | 0.606 | 0.85 | |
| Received DPT vaccination (3 doses) | 0.518 | 0.059 | 115 | 5 | 1.233 | 0.113 | 0.401 | 0.63 | |
| Received polio vaccination (3 doses) Received measles vaccination | 0.596 0.647 | 0.057 0.061 | 115 115 | 5 5 | 1.217 1.325 | 0.096 0.094 | 0.482 0.526 | 0.71 0.76 | |
| Received all vaccinations | 0.341 | 0.052 | 115 | 5 | 1.139 | 0.054 | 0.238 | 0.70 | |
| Height-for-age (below -2SD) | 0.298 | 0.024 | 537 | 23 | 1.185 | 0.081 | 0.249 | 0.34 | |
| Weight-for-height (below -2SD) | 0.091 | 0.016 | 537 | 23 | 1.308 | 0.172 | 0.059 | 0.12 | |
| Weight-for-age (below -2SD) | 0.215 | 0.025 | 537 | 23 | 1.385 | 0.118 | 0.164 | 0.26 | |
| Prevalence of anaemia (children 6-59 months) | 0.555 0.194 | 0.025 0.016 | 451 980 | 19 43 | 1.033 1.291 | 0.046 0.084 | 0.504 0.161 | 0.609 0.220 | |
| Prevalence of anaemia (women 15-49) Body Mass Index (BMI) <18.5 | 0.194 | 0.016 | 949 | 43 42 | 1.291 | 0.064 | 0.188 | 0.25 | |
| Had 2+ sex partners in past 12 months | 0.001 | 0.001 | 1101 | 49 | 0.961 | 0.998 | 0.000 | 0.00 | |
| Abstinence among youth (never had sex) | 0.923 | 0.016 | 281 | 13 | 1.022 | 0.018 | 0.891 | 0.95 | |
| Sexually active in past 12 months among never-married youth | 0.059 | 0.014 | 281 | 13 | 1.025 | 0.245 | 0.030 | 0.08 | |
| Had an injection in past 12 months | 0.384 0.554 | 0.017 0.021 | 1101 1101 | 49 49 | 1.127 1.388 | 0.043 0.038 | 0.351 0.512 | 0.417 0.590 | |
| Had an HIV test and received results in past 12 months Accepting attitudes towards people with HIV | 0.334 | 0.021 | 1096 | 49 49 | 1.300 | 0.056 | 0.312 | 0.39 | |
| Knows about condoms | 0.585 | 0.020 | 1101 | 49 | 1.334 | 0.034 | 0.545 | 0.62 | |
| Knows about limiting partners | 0.531 | 0.022 | 1101 | 49 | 1.471 | 0.042 | 0.486 | 0.57 | |
| HIV prevalence among all women 15-49 | 0.038 | 0.007 | 980 | 43 | 1.228 | 0.198 | 0.023 | 0.053 | |
| Total fertility rate (3 years) | 3.816 | 0.371 | 3095 | 137 | 1.190 | 0.097 | 3.075 | 4.55 | |
| Neonatal mortality Post-neonatal mortality | 35.333 29.157 | 5.045 4.782 | 1328 1336 | 58 59 | 0.757 0.961 | 0.143 0.164 | 25.243 19.593 | 45.423 38.72 | |
| Infant mortality | 64.490 | 7.095 | 1330 | 58 | 0.890 | 0.110 | 50.300 | 78.68 | |
| Child mortality | 32.067 | 6.408 | 1322 | 58 | 1.200 | 0.200 | 19.251 | 44.88 | |
| Under-five mortality | 94.489 | 10.247 | 1337 | 59 | 1.037 | 0.108 | 73.994 | 114.98 | |
| | N | ΛEN | | | | | | | |
| Urban residence | 0.621 | 0.021 | 898 | 40 | 1.327 | 0.035 | 0.578 | 0.664 | |
| Literate | 0.821 | 0.018 | 898 | 40 | 1.430 | 0.022 | 0.784 | 0.85 | |
| No education | 0.130 | 0.018 | 898 | 40 40 | 1.602 | 0.139 | 0.094 | 0.16 | |
| Secondary education or higher Never married/in union | 0.421 0.457 | 0.020 0.018 | 898 898 | 40 40 | 1.232 1.065 | 0.048 0.039 | 0.381 0.422 | 0.46 0.49 | |
| Currently married/in union | 0.505 | 0.018 | 898 | 40 | 1.065 | 0.035 | 0.469 | 0.54 | |
| Want no more children | 0.280 | 0.026 | 460 | 20 | 1.237 | 0.093 | 0.228 | 0.33 | |
| Want to delay birth at least 2 years | 0.501 | 0.030 | 460 | 20 | 1.273 | 0.059 | 0.441 | 0.56 | |
| Ideal family size | 4.497 | 0.217 | 860 | 38 | 1.538 | 0.048 | 4.063 | 4.93 | |
| Had 2+ sex partners in past 12 months Condom use at last sex | 0.017 0.363 | 0.005 0.079 | 898 15 | 40 1 | 1.062 0.630 | 0.267 0.218 | 0.008 0.204 | 0.02 | |
| Abstinence among youth (never had sex) | 0.363 | 0.079 | 281 | 13 | 1.108 | 0.216 | 0.204 | 0.32 | |
| Sexually active in past 12 months among never-married youth | 0.141 | 0.023 | 281 | 13 | 1.093 | 0.161 | 0.096 | 0.18 | |
| Had an injection in past 12 months | 0.268 | 0.020 | 898 | 40 | 1.368 | 0.076 | 0.228 | 0.30 | |
| HIV test and received results past 12 months | 0.428 | 0.025 | 898 | 40 | 1.542 | 0.060 | 0.377 | 0.47 | |
| Accepting attitudes towards people with HIV | 0.466 | 0.026 | 896 | 40 | 1.563 | 0.056 | 0.414 | 0.51 | |
| Knows about condoms Knows about limiting partners | 0.750 0.493 | 0.021 0.037 | 898 898 | 40 40 | 1.487 2.187 | 0.029 0.074 | 0.707 0.419 | 0.79 0.56 | |
| HIV prevalence among all men 15-49 | 0.493 | 0.037 | 765 | 39 | 1.128 | 0.074 | 0.419 | 0.02 | |
| HIV prevalence among all men 15-59 | 0.017 | 0.005 | 826 | 43 | 1.085 | 0.287 | 0.007 | 0.02 | |
| | MEN AN | ID WOMEN | | | | | | | |
| | | | | | | | | | |

| | | | Number | of cases | | | Confider | nce limits |
|--|------------------|----------------|-----------------|------------|----------------|----------------|-----------------|------------------|
| | Value | Standard error | Un- weighted | Weighted | Design effect | Relative error | | |
| Variable | (R) | (SE) | (N) | (WN) | (DEFT) | (SE/R) | R-2SE | R+2SE |
| | | OMEN | | | | | | |
| Urban residence Literate | 1.000 0.797 | 0.000 0.015 | 1741 1741 | 896 896 | na 1.573 | 0.000 0.019 | 1.000 0.767 | 1.000 0.827 |
| No education | 0.149 | 0.013 | 1741 | 896 | 1.532 | 0.013 | 0.123 | 0.027 |
| Secondary education or higher | 0.435 | 0.024 | 1741 | 896 | 2.008 | 0.055 | 0.387 | 0.483 |
| Net attendance ratio for primary school Never married/in union | 0.847 0.497 | 0.012 0.017 | 892 1741 | 466 896 | 0.968 1.419 | 0.014 0.034 | 0.823 0.463 | 0.871 0.531 |
| Currently married/in union | 0.381 | 0.019 | 1741 | 896 | 1.625 | 0.050 | 0.343 | 0.419 |
| Married before age 20 | 0.432 | 0.023 | 939 | 483 | 1.391 | 0.052 | 0.387 | 0.477 |
| Currently pregnant Children ever born | 0.036 1.055 | 0.006 0.053 | 1741 1741 | 896 896 | 1.235 1.362 | 0.154 0.050 | 0.025 0.950 | 0.047 1.161 |
| Children surviving | 0.981 | 0.047 | 1741 | 896 | 1.317 | 0.048 | 0.887 | 1.074 |
| Children ever born to women age 40-49 | 3.267 1.000 | 0.196 0.000 | 171 634 | 83 342 | 1.103 | 0.060 0.000 | 2.874 1.000 | 3.660 1.000 |
| Knows any contraceptive method Currently using any contraceptive method | 0.625 | 0.000 | 634 | 342 | na 1.044 | 0.000 | 0.585 | 0.665 |
| Currently using pill | 0.109 | 0.018 | 634 | 342 | 1.443 | 0.164 | 0.073 | 0.145 |
| Currently using IUD Currently using female sterilization | 0.026 0.023 | 0.007 0.006 | 634 634 | 342 342 | 1.085 1.073 | 0.266 0.278 | 0.012 0.010 | 0.039 0.036 |
| Currently using rentale sternization Currently using rhythm method | 0.023 | 0.000 | 634 | 342 | 1.127 | 0.276 | 0.010 | 0.030 |
| Obtained method from public sector source | 0.566 | 0.032 | 408 | 222 | 1.297 | 0.056 | 0.503 | 0.630 |
| Want no more children Want to delay birth at least 2 years | 0.344 0.349 | 0.023 0.028 | 634 634 | 342 342 | 1.226 1.502 | 0.067 0.082 | 0.298 0.292 | 0.390 0.406 |
| Ideal family size | 3.349 | 0.028 | 1673 | 861 | 1.333 | 0.062 | 3.229 | 3.468 |
| Mothers received tetanus injection for last birth | 0.823 | 0.022 | 348 | 193 | 1.077 | 0.026 | 0.779 | 0.866 |
| Mothers received medical assistance at delivery Had diarrhoea in two weeks before survey | 0.839 0.094 | 0.030 0.018 | 400 386 | 222 214 | 1.557 1.093 | 0.036 0.187 | 0.779 0.059 | 0.900 0.129 |
| Treated with oral rehydration salts (ORS) | 0.434 | 0.097 | 36 | 20 | 1.110 | 0.223 | 0.240 | 0.628 |
| Taken to a health provider | 0.472 | 0.087 | 36 | 20 | 1.002 | 0.184 | 0.298 | 0.645 |
| Vaccination card seen Received BCG vaccination | 0.799 0.975 | 0.037 0.017 | 81 81 | 43 43 | 0.815 0.972 | 0.046 0.018 | 0.725 0.941 | 0.872 1.009 |
| Received DPT vaccination (3 doses) | 0.892 | 0.039 | 81 | 43 | 1.123 | 0.044 | 0.814 | 0.970 |
| Received polio vaccination (3 doses) | 0.817 | 0.042 | 81 | 43 | 0.964 | 0.051 | 0.733 | 0.901 |
| Received measles vaccination Received all vaccinations | 0.935 0.787 | 0.027 0.043 | 81 81 | 43 43 | 0.964 0.924 | 0.029 0.054 | 0.881 0.702 | 0.988 0.872 |
| Height-for-age (below -2SD) | 0.220 | 0.025 | 357 | 194 | 1.042 | 0.111 | 0.171 | 0.269 |
| Weight-for-height (below -2SD) | 0.046 | 0.012 | 357 | 194 | 1.103 | 0.259 | 0.022 | 0.069 |
| Weight-for-age (below -2SD) Prevalence of anaemia (children 6-59 months) | 0.064 0.332 | 0.015 0.024 | 357 281 | 194 155 | 1.121 0.897 | 0.226 0.073 | 0.035 0.283 | 0.093 0.381 |
| Prevalence of anaemia (women 15-49) | 0.093 | 0.010 | 1525 | 788 | 1.350 | 0.108 | 0.073 | 0.113 |
| Body Mass Index (BMI) <18.5 | 0.144 0.002 | 0.010 0.001 | 1583 1741 | 810 896 | 1.084 0.936 | 0.067 0.564 | 0.125 0.000 | 0.163 0.003 |
| Had 2+ sex partners in past 12 months Abstinence among youth (never had sex) | 0.878 | 0.001 | 653 | 329 | 1.065 | 0.016 | 0.851 | 0.003 |
| Sexually active in past 12 months among never-married youth | 0.084 | 0.012 | 653 | 329 | 1.077 | 0.139 | 0.061 | 0.108 |
| Had an injection in past 12 months Had an HIV test and received results in past 12 months | 0.573 0.652 | 0.018 0.013 | 1741 1741 | 896 896 | 1.504 1.116 | 0.031 0.020 | 0.537 0.626 | 0.608 0.677 |
| Accepting attitudes towards people with HIV | 0.449 | 0.012 | 1739 | 895 | 0.970 | 0.026 | 0.426 | 0.472 |
| Knows about condoms | 0.824 | 0.011 | 1741 | 896 | 1.222 | 0.014 | 0.802 | 0.847 |
| Knows about limiting partners HIV prevalence among all women 15-49 | 0.654 0.060 | 0.018 0.007 | 1741 1517 | 896 797 | 1.578 1.151 | 0.028 0.117 | 0.618 0.046 | 0.690 0.074 |
| Total fertility rate (3 years) | 1.512 | 0.106 | 4908 | 2532 | 1.393 | 0.070 | 1.299 | 1.724 |
| Neonatal mortality | 21.098 | 5.987 | 835 | 456 455 | 0.944 | 0.284 | 9.125 | 33.071 |
| Post-neonatal mortality Infant mortality | 18.915 40.013 | 4.885 7.511 | 834 835 | 455 456 | 0.985 0.948 | 0.258 0.188 | 9.144 24.991 | 28.685 55.035 |
| Child mortality | 13.508 | 4.816 | 814 | 441 | 1.144 | 0.357 | 3.876 | 23.141 |
| Under-five mortality | 52.980 | 9.449 | 837 | 457 | 1.065 | 0.178 | 34.082 | 71.879 |
| | <u> </u> | MEN | | | | | | |
| Urban residence Literate | 1.000 0.945 | 0.000 0.010 | 1237 1237 | 682 682 | na 1.556 | 0.000 0.011 | 1.000 0.924 | 1.000 0.965 |
| No education | 0.945 | 0.010 | 1237 | 682 682 | 1.556 | 0.011 | 0.924 | 0.965 |
| Secondary education or higher | 0.572 | 0.030 | 1237 | 682 | 2.106 | 0.052 | 0.512 | 0.631 |
| Never married/in union Currently married/in union | 0.588 0.380 | 0.025 0.026 | 1237 1237 | 682 682 | 1.789 1.858 | 0.043 0.068 | 0.537 0.328 | 0.638 0.431 |
| Want no more children | 0.360 | 0.026 | 442 | 259 | 1.073 | 0.068 | 0.326 | 0.431 |
| Want to delay birth at least 2 years | 0.431 | 0.030 | 442 | 259 | 1.269 | 0.069 | 0.372 | 0.491 |
| Ideal family size Had 2+ sex partners in past 12 months | 3.163 0.032 | 0.077 0.006 | 1187 1237 | 654 682 | 1.613 1.294 | 0.024 0.202 | 3.008 0.019 | 3.318 0.045 |
| Condom use at last sex | 0.032 | 0.000 | 42 | 22 | 1.425 | 0.202 | 0.515 | 0.043 |
| Abstinence among youth (never had sex) | 0.682 | 0.029 | 460 | 251 | 1.335 | 0.043 | 0.624 | 0.740 |
| Sexually active in past 12 months among never-married youth Had an injection in past 12 months | 0.191 0.543 | 0.026 0.018 | 460 1237 | 251 682 | 1.433 1.246 | 0.138 0.033 | 0.138 0.507 | 0.243 0.578 |
| HIV test and received results past 12 months | 0.589 | 0.017 | 1237 | 682 | 1.187 | 0.028 | 0.556 | 0.623 |
| Accepting attitudes towards people with HIV | 0.508 | 0.015 | 1237 | 682 | 1.028 | 0.029 | 0.479 | 0.537 |
| Knows about condoms Knows about limiting partners | 0.941 0.707 | 0.008 0.031 | 1237 1237 | 682 682 | 1.170 2.411 | 0.008 0.044 | 0.925 0.644 | 0.957 0.769 |
| HIV prevalence among all men 15-49 | | | | | ۷.→۱۱ | 0.044 | | |
| HIV prevalence among all men 15-59 | 0.043 | 0.007 | 1079 | 669 | 1.116 | 0.161 | 0.029 | 0.057 |
| | | ID WOMEN | | | | | | |
| HIV prevalence among all respondents 15-49 | 0.052 | 0.006 | 2596 | 1466 | 1.378 | 0.115 | 0.040 | 0.064 |

| | | | Number | of cases | | | Confide | nce limits |
|--|------------------|----------------|--------------|-----------|----------------|----------------|------------------|-------------------|
| | | Standard | Un- | 01 00000 | Design | Relative | | noo minto |
| W. C.L. | Value | error | weighted | Weighted | effect | error | D 005 | D 00E |
| Variable | (R) | (SE) | (N) | (WN) | (DEFT) | (SE/R) | R-2SE | R+2SE |
| | | OMEN | 400= | | | | | |
| Urban residence Literate | 0.730 0.508 | 0.018 0.038 | 1095 1095 | 69 69 | 1.347 2.527 | 0.025 0.075 | 0.694 0.432 | 0.766 0.585 |
| No education | 0.370 | 0.034 | 1095 | 69 | 2.307 | 0.091 | 0.302 | 0.437 |
| Secondary education or higher | 0.278 | 0.033 | 1095 | 69 | 2.445 | 0.119 | 0.211 | 0.344 |
| Net attendance ratio for primary school Never married/in union | 0.748 0.327 | 0.023 0.019 | 1046 1095 | 61 69 | 1.465 1.368 | 0.030 0.059 | 0.702 0.288 | 0.793 0.366 |
| Currently married/in union | 0.548 | 0.023 | 1095 | 69 | 1.536 | 0.042 | 0.501 | 0.594 |
| Married before age 20 | 0.577 | 0.020 | 652 | 41 | 1.043 | 0.035 | 0.537 | 0.617 |
| Currently pregnant Children ever born | 0.072 1.997 | 0.009 0.115 | 1095 1095 | 69 69 | 1.155 1.564 | 0.125 0.058 | 0.054 1.767 | 0.090 2.227 |
| Children surviving | 1.702 | 0.090 | 1095 | 69 | 1.491 | 0.053 | 1.522 | 1.882 |
| Children ever born to women age 40-49 | 4.837 | 0.357 | 124 626 | 8 | 1.285 0.979 | 0.074 | 4.122 0.987 | 5.552 |
| Knows any contraceptive method Currently using any contraceptive method | 0.993 0.339 | 0.003 0.031 | 626 | 38 38 | 1.650 | 0.003 0.092 | 0.967 | 1.000 0.401 |
| Currently using pill | 0.047 | 0.010 | 626 | 38 | 1.207 | 0.218 | 0.026 | 0.067 |
| Currently using IUD | 0.011 0.002 | 0.004 0.002 | 626 626 | 38 38 | 0.976 1.166 | 0.362 0.993 | 0.003 0.000 | 0.020 0.007 |
| Currently using female sterilization Currently using rhythm method | 0.002 | 0.002 | 626 | 38 | 1.163 | 0.322 | 0.000 | 0.007 |
| Obtained method from public sector source | 0.621 | 0.051 | 196 | 13 | 1.461 | 0.082 | 0.519 | 0.723 |
| Want no more children Want to delay birth at least 2 years | 0.372 0.363 | 0.027 0.024 | 626 626 | 38 38 | 1.412 1.242 | 0.074 0.066 | 0.317 0.315 | 0.426 0.411 |
| Ideal family size | 4.552 | 0.024 | 626 973 | 38 62 | 2.024 | 0.066 | 4.083 | 5.021 |
| Mothers received tetanus injection for last birth | 0.587 | 0.035 | 456 | 26 | 1.465 | 0.059 | 0.517 | 0.656 |
| Mothers received medical assistance at delivery | 0.403 0.078 | 0.034 0.012 | 696 661 | 39 37 | 1.426 1.089 | 0.085 0.156 | 0.335 0.054 | 0.471 0.103 |
| Had diarrhoea in two weeks before survey Treated with oral rehydration salts (ORS) | 0.078 | 0.012 | 49 | 3 | 0.701 | 0.156 | 0.054 | 0.103 |
| Taken to a health provider | 0.464 | 0.068 | 49 | 3 | 0.948 | 0.147 | 0.327 | 0.601 |
| Vaccination card seen | 0.521 | 0.043 | 118 | 7 | 0.899 | 0.082 | 0.435 | 0.606 |
| Received BCG vaccination Received DPT vaccination (3 doses) | 0.875 0.753 | 0.040 0.043 | 118 118 | 7 7 | 1.283 1.057 | 0.046 0.058 | 0.794 0.666 | 0.955 0.839 |
| Received polio vaccination (3 doses) | 0.793 | 0.038 | 118 | 7 | 0.991 | 0.048 | 0.717 | 0.869 |
| Received measles vaccination | 0.799 | 0.040 | 118 | 7 | 1.049 | 0.050 | 0.719 | 0.879 |
| Received all vaccinations Height-for-age (below -2SD) | 0.586 0.363 | 0.051 0.025 | 118 644 | 7 35 | 1.098 1.180 | 0.088 0.069 | 0.484 0.313 | 0.689 0.413 |
| Weight-for-height (below -2SD) | 0.123 | 0.016 | 644 | 35 | 1.159 | 0.133 | 0.090 | 0.155 |
| Weight-for-age (below -2SD) | 0.276 | 0.027 | 644 | 35 | 1.350 | 0.098 | 0.222 | 0.330 |
| Prevalence of anaemia (children 6-59 months) Prevalence of anaemia (women 15-49) | 0.629 0.288 | 0.025 0.019 | 550 997 | 30 63 | 1.091 1.321 | 0.039 0.066 | 0.580 0.250 | 0.678 0.326 |
| Body Mass Index (BMI) <18.5 | 0.249 | 0.018 | 927 | 59 | 1.242 | 0.070 | 0.214 | 0.284 |
| Had 2+ sex partners in past 12 months | 0.001 | 0.001 | 1095 | 69 | 1.067 | 1.009 | 0.000 | 0.003 |
| Abstinence among youth (never had sex) Sexually active in past 12 months among never-married youth | 0.896 0.073 | 0.022 0.022 | 289 289 | 19 19 | 1.245 1.426 | 0.025 0.299 | 0.852 0.029 | 0.941 0.117 |
| Had an injection in past 12 months | 0.331 | 0.017 | 1095 | 69 | 1.185 | 0.051 | 0.298 | 0.365 |
| Had an HIV test and received results in past 12 months | 0.629 | 0.023 | 1095 | 69 | 1.558 | 0.036 | 0.584 | 0.675 |
| Accepting attitudes towards people with HIV Knows about condoms | 0.379 0.646 | 0.028 0.026 | 1085 1095 | 68 69 | 1.898 1.792 | 0.074 0.040 | 0.323 0.594 | 0.435 0.698 |
| Knows about limiting partners | 0.695 | 0.027 | 1095 | 69 | 1.956 | 0.039 | 0.641 | 0.750 |
| HIV prevalence among all women 15-49 | 0.043 | 0.008 | 996 | 61 | 1.282 | 0.192 | 0.026 | 0.059 |
| Total fertility rate (3 years) Neonatal mortality | 3.362 30.406 | 0.329 4.956 | 3056 1377 | 192 79 | 1.260 0.917 | 0.098 0.163 | 2.705 20.495 | 4.019 40.317 |
| Post-neonatal mortality | 29.669 | 6.434 | 1385 | 79 | 1.132 | 0.217 | 16.801 | 42.537 |
| Infant mortality | 60.075 | 7.483 | 1380 | 79 | 0.933 | 0.125 | 45.109 | 75.041 |
| Child mortality Under-five mortality | 39.141 96.864 | 5.866 9.509 | 1364 1385 | 78 79 | 0.938 0.990 | 0.150 0.098 | 27.408 77.847 | 50.873 115.882 |
| onder in a mortality | | MEN | 1000 | | 0.000 | 0.000 | 77.017 | 110.002 |
| Lithan residence | | | 0.45 | F0 | 1 110 | 0.000 | 0.050 | 0.747 |
| Urban residence Literate | 0.703 0.786 | 0.022 0.025 | 845 845 | 53 53 | 1.416 1.788 | 0.032 0.032 | 0.658 0.736 | 0.747 0.837 |
| No education | 0.161 | 0.021 | 845 | 53 | 1.678 | 0.132 | 0.118 | 0.203 |
| Secondary education or higher | 0.439 | 0.035 | 845 | 53 | 2.026 | 0.079 | 0.370 | 0.509 |
| Never married/in union Currently married/in union | 0.473 0.476 | 0.021 0.023 | 845 845 | 53 53 | 1.242 1.319 | 0.045 0.048 | 0.430 0.430 | 0.516 0.521 |
| Want no more children | 0.255 | 0.023 | 429 | 25 | 1.316 | 0.109 | 0.200 | 0.311 |
| Want to delay birth at least 2 years | 0.507 | 0.031 | 429 | 25 | 1.268 | 0.061 | 0.445 | 0.568 |
| Ideal family size Had 2+ sex partners in past 12 months | 4.714 0.027 | 0.247 0.006 | 746 845 | 48 53 | 1.534 1.025 | 0.052 0.212 | 4.219 0.016 | 5.208 0.038 |
| Condom use at last sex | 0.630 | 0.000 | 22 | 1 | 0.923 | 0.212 | 0.436 | 0.824 |
| Abstinence among youth (never had sex) | 0.749 | 0.031 | 246 | 16 | 1.127 | 0.042 | 0.687 | 0.812 |
| Sexually active in past 12 months among never-married youth Had an injection in past 12 months | 0.145 0.294 | 0.025 0.020 | 246 845 | 16 53 | 1.097 1.255 | 0.170 0.067 | 0.096 0.255 | 0.195 0.333 |
| HIV test and received results past 12 months | 0.294 | 0.020 | 845 | 53 53 | 1.722 | 0.067 | 0.233 | 0.660 |
| Accepting attitudes towards people with HIV | 0.511 | 0.022 | 842 | 53 | 1.274 | 0.043 | 0.467 | 0.555 |
| Knows about limiting partners | 0.869 | 0.015 | 845 845 | 53 53 | 1.259 | 0.017 | 0.840 | 0.898 |
| Knows about limiting partners HIV prevalence among all men 15-49 | 0.824 0.037 | 0.029 0.009 | 845 745 | 53 53 | 2.231 1.246 | 0.036 0.234 | 0.766 0.019 | 0.883 0.054 |
| HIV prevalence among all men 15-59 | 0.038 | 0.008 | 804 | 57 | 1.187 | 0.211 | 0.022 | 0.054 |
| | MEN A | ND WOMEN | | | | | | |
| | | | | | | | | |

| Table B.16 Sampling errors for adult and ma | ternal mortalit | ty rates, Ethio | , | | | | 0 | !!!*- |
|---|--|--|--|--|--|--|--|--|
| Variable | Value (R) | Standard Error (SE) | Un- weighted Number | Weighted Number | Design Effect DEFT | Relative Error SE/R | Lower R-2SE | Upper R+2SE |
| | | WC | OMEN | | | | | |
| Adult mortality rates 15-19 20-24 25-29 30-34 35-39 40-44 45-49 15-49 (age-adjusted) | 2.347 2.628 3.531 6.845 4.145 7.366 7.342 4.136 | 0.350 0.401 0.412 0.727 0.682 1.350 1.526 0.249 | 37580 40262 35158 26029 18089 10725 6307 174152 | 39187 41289 36532 27449 19166 11512 6899 182034 | 1.427 1.562 1.311 1.410 1.450 1.652 1.498 1.474 | 0.149 0.153 0.117 0.106 0.165 0.183 0.208 0.060 | 1.647 1.825 2.708 5.391 2.780 4.667 4.290 3.638 | 3.047 3.430 4.355 8.299 5.510 10.065 10.394 4.633 |
| Adult mortality probabilities 35q15 2011 35q15 2005 35q15 2000 | 157 217 221 | 10 11 11 | 174152 143091 152279 | 182033 147433 156334 | 2.158 1.893 1.852 | 0.065 0.051 0.049 | 137 195 200 | 178 239 243 |
| Maternal mortality rates 15-19 20-24 25-29 30-34 35-39 40-44 45-49 15-49 (age-adjusted) | 0.522 0.937 1.025 2.529 1.526 1.433 0.701 1.140 | 0.161 0.241 0.224 0.440 0.362 0.719 0.406 0.114 | 37580 40262 35158 26029 18089 10725 6307 174152 | 39187 41289 36532 27449 19166 11512 6899 182034 | 1.364 1.599 1.337 1.451 1.267 2.036 1.273 1.476 | 0.308 0.257 0.218 0.174 0.237 0.501 0.579 0.100 | 0.200 0.455 0.578 1.649 0.802 0.000 0.000 0.913 | 0.843 1.418 1.473 3.408 2.250 2.870 1.514 1.367 |
| Maternal mortality ratio (MMR) 2011 Maternal mortality ratio (MMR) 2005 Maternal mortality ratio (MMR) 2000 | 676 673 871 | 67 63 84 | 174152 143091 152279 | 182033 147433 156334 | 1.477 1.373 1.380 | 0.100 0.093 0.097 | 541 548 703 | 810 799 1039 |
| | | N | MEN | | | | | |
| Adult mortality rates 15-19 20-24 25-29 30-34 35-39 40-44 45-49 15-49 (age-adjusted) | 3.376 3.251 5.109 5.739 6.224 7.105 9.187 5.014 | 0.536 0.461 0.962 0.649 0.825 0.997 1.548 0.277 | 38716 40774 35803 27891 19582 12002 7172 181940 | 40426 42577 37080 28989 20030 12095 7610 188808 | 1.683 1.565 2.519 1.388 1.429 1.254 1.378 1.684 | 0.159 0.142 0.188 0.113 0.133 0.140 0.168 0.055 | 2.303 2.329 3.184 4.442 4.574 5.111 6.092 4.461 | 4.448 4.172 7.033 7.037 7.875 9.100 12.283 5.567 |
| Adult mortality probabilities 35q15 2011 35q15 2005 35q16 2000 | 181 207 275 | 10 11 13 | 181941 150979 153736 | 188808 157613 158429 | 2.442 1.849 2.321 | 0.053 0.053 0.046 | 162 184 250 | 201 229 301 |

DATA QUALITY TABLES

Table C.1 Household age distribution

Single-year age distribution of the de facto household population by sex (weighted), Ethiopia 2011 $\,$

| Ethiopia 2011 | Wo | men | M | en |
|--------------------|----------------|------------|----------------|------------|
| Age | Number | Percent | Number | Percent |
| 0 | 1,240 | 3.2 2.3 | 1,254 | 3.4 2.8 |
| 2 | 915 1,025 | 2.3 | 1,024 1,104 | 3.0 |
| 3 4 | 1,353 1,201 | 3.4 3.1 | 1,337 1,310 | 3.6 3.5 |
| 5 | 1,049 | 2.7 | 1,138 | 3.1 |
| 6 7 | 1,417 1,340 | 3.6 3.4 | 1,342 1,412 | 3.6 3.8 |
| 8 9 | 1,401 | 3.6 | 1,362 | 3.7 |
| 10 | 1,030 1,416 | 2.6 3.6 | 1,102 1,378 | 3.0 3.7 |
| 11 12 | 753 1,352 | 1.9 3.4 | 818 1,342 | 2.2 3.6 |
| 13 | 1,175 | 3.0 | 1,270 | 3.4 |
| 14 15 | 704 1,041 | 1.8 2.7 | 904 773 | 2.4 2.1 |
| 16 | 872 | 2.2 | 748 | 2.0 |
| 17 18 | 726 1,113 | 1.9 2.8 | 603 867 | 1.6 2.3 |
| 19 | 569 | 1.5 3.0 | 458 992 | 1.2 |
| 20 21 | 1,188 389 | 1.0 | 343 | 2.7 0.9 |
| 22 23 | 686 509 | 1.7 1.3 | 614 442 | 1.7 1.2 |
| 24 | 498 | 1.3 | 445 | 1.2 |
| 25 26 | 1,225 603 | 3.1 1.5 | 867 507 | 2.3 1.4 |
| 27 | 432 | 1.1 | 428 | 1.2 |
| 28 29 | 761 304 | 1.9 0.8 | 592 220 | 1.6 0.6 |
| 30 31 | 1,002 | 2.6 0.5 | 846 | 2.3 |
| 32 | 186 433 | 1.1 | 185 387 | 0.5 1.0 |
| 33 34 | 271 213 | 0.7 0.5 | 194 211 | 0.5 0.6 |
| 35 | 927 | 2.4 | 742 | 2.0 |
| 36 37 | 307 219 | 0.8 0.6 | 325 292 | 0.9 0.8 |
| 38 | 398 | 1.0 0.4 | 390 158 | 1.1 0.4 |
| 39 40 | 152 634 | 1.6 | 672 | 1.8 |
| 41 42 | 138 249 | 0.4 0.6 | 131 240 | 0.4 0.6 |
| 43 | 193 | 0.5 | 163 | 0.4 |
| 44 45 | 117 471 | 0.3 1.2 | 153 460 | 0.4 1.2 |
| 46 | 162 | 0.4 | 139 | 0.4 |
| 47 48 | 126 199 | 0.3 0.5 | 135 187 | 0.4 0.5 |
| 49 50 | 141 200 | 0.4 0.5 | 108 360 | 0.3 1.0 |
| 51 | 209 | 0.5 | 87 | 0.2 |
| 52 53 | 408 281 | 1.0 0.7 | 159 109 | 0.4 0.3 |
| 54 55 | 170 | 0.4 1.2 | 77 242 | 0.2 |
| 56 | 475 220 | 0.6 | 141 | 0.7 0.4 |
| 57 58 | 133 191 | 0.3 0.5 | 62 143 | 0.2 0.4 |
| 59 | 59 | 0.2 | 38 | 0.1 |
| 60 61 | 456 50 | 1.2 0.1 | 207 97 | 0.6 0.3 |
| 62 | 103 | 0.3 | 194 | 0.5 |
| 63 64 | 60 31 | 0.2 0.1 | 161 120 | 0.4 0.3 |
| 65 66 | 242 50 | 0.6 | 358 72 | 1.0 |
| 67 | 58 | 0.1 0.1 | 89 | 0.2 0.2 |
| 68 69 | 77 18 | 0.2 0.0 | 102 60 | 0.3 0.2 |
| 70+ | 897 | 2.3 | 1,075 | 2.9 |
| Don't know/missing | 5 | 0.0 | 9 | 0.0 |
| Total | 39,219 | 100.0 | 37,077 | 100.0 |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview.

Table C.2.1 Age distribution of eligible and interviewed women

De facto household population of women age 10-54 and interviewed women age 15-49; and percent distribution and percentage of eligible women who were interviewed (weighted), by five-year age groups, Ethiopia 2011

| Age group | Household population of women age 10-54 | | ved women 15-49 | Percentage of eligible women interviewed |
|---|---|---|--|--|
| | | Number | Percentage | |
| 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 | 5,401 4,321 3,271 3,324 2,105 2,004 1,331 1,099 1,268 | na 4,125 3,124 3,193 2,041 1,930 1,284 1,074 na | na 24.6 18.6 19.0 12.2 11.5 7.7 6.4 na | na 95.5 95.5 96.0 97.0 96.3 96.5 97.7 na |
| 15-49 | 17,455 | 16,772 | 100.0 | 96.1 |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both household population of women and interviewed women are household weights. Age is based on the Household Questionnaire. na = Not applicable

Table C.2.2 Age distribution of eligible and interviewed men

De facto household population of men age 10-64 and interviewed men age 15-59; and percent distribution and percentage of eligible men who were interviewed (weighted), by five-year age groups, Ethiopia 2011

| | Household | Interviewed i | men age 15-59 | Percentage of | | |
|-----------|-----------------------------|---------------|---------------|-----------------------------|--|--|
| Age group | population of men age 10-64 | Number | Percentage | eligible men interviewed | | |
| 10-14 | 5,712 | na | na | na | | |
| 15-19 | 3,449 | 3,174 | 21.0 | 92.0 | | |
| 20-24 | 2,837 | 2,535 | 16.8 | 89.4 | | |
| 25-29 | 2,616 | 2,390 | 15.8 | 91.4 | | |
| 30-34 | 1,824 | 1,680 | 11.1 | 92.1 | | |
| 35-39 | 1,906 | 1,780 | 11.8 | 93.4 | | |
| 40-44 | 1,358 | 1,239 | 8.2 | 91.2 | | |
| 45-49 | 1,029 | 977 | 6.5 | 95.0 | | |
| 50-54 | 792 | 726 | 4.8 | 91.7 | | |
| 55-59 | 625 | 597 | 4.0 | 95.5 | | |
| 60-64 | 780 | na | na | na | | |
| 15-59 | 16,435 | 15,098 | 100.0 | 91.9 | | |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both household population of men and interviewed men are household weights. Age is based on the Household Questionnaire.

na = Not applicable

Table C.3 Completeness of reporting

Percentage of observations missing information for selected demographic and health questions (weighted), Ethiopia 2011

| Subject | Reference group | Percentage with information missing | Number of cases |
|---|--|--|----------------------------|
| Birth date Month Only Month and Year | Births in the 15 years preceding the survey Births in the 15 years preceding the survey | 1.62 0.14 | 33,929 33,929 |
| Age at Death | Deceased children born in the 15 years preceding the survey | 0.05 | 4,043 |
| Age/date at first union ¹ | Ever married women age 15-49 Ever married men age 15-54 | 0.44 0.34 | 12,046 8,505 |
| Respondent's education Diarrhoea in last 2 weeks | All women age 15-49 All men age 15-59 Living children 0-59 months | 0.00 0.05 0.87 | 16,515 14,110 11,042 |
| Anthropometry Height Weight Height or weight | Living children age 0-59 months (from the Household Questionnaire) | 5.19 4.66 5.19 | 11,805 11,805 11,805 |
| Anemia Children Women Men | Living children age 6-59 months (from the Household Questionnaire) All women (from the Household Questionnaire) All men (from the Household Questionnaire) | 6.59 8.07 13.28 | 10,492 17,455 16,435 |

Table C.4 Births by calendar years

Number of births, percentage with complete birth date, sex ratio at birth, and calendar year ratio by Meskerem calendar year, according to living, dead, and total children (weighted), Ethiopia 2011

| Calendar year | Number of births | | | Percen | Percentage with complete birth date ¹ | | | Sex ratio at birth ² | | | Calendar year ratio ³ | | |
|---------------|------------------|-------|--------|--------|--|-------|--------|---------------------------------|-------|--------|----------------------------------|-------|--|
| (Meskerem) | Living | Dead | Total | Living | Dead | Total | Living | Dead | Total | Living | Dead | Total | |
| 2003 | 1,356 | 82 | 1,438 | 100.0 | 100.0 | 100.0 | 113.3 | 187.4 | 116.5 | na | na | na | |
| 2002 | 2,139 | 139 | 2,278 | 100.0 | 100.0 | 100.0 | 96.9 | 155.9 | 99.7 | na | na | na | |
| 2001 | 1,918 | 133 | 2,051 | 100.0 | 100.0 | 100.0 | 110.5 | 179.0 | 113.9 | 84.6 | 76.7 | 84.0 | |
| 2000 | 2,398 | 207 | 2,605 | 100.0 | 100.0 | 100.0 | 98.7 | 135.8 | 101.2 | 114.9 | 133.1 | 116.2 | |
| 1999 | 2,255 | 178 | 2,433 | 100.0 | 99.9 | 100.0 | 107.0 | 101.2 | 106.6 | 99.7 | 97.5 | 99.6 | |
| 1998 | 2,124 | 159 | 2,282 | 100.0 | 100.0 | 100.0 | 108.8 | 159.9 | 111.7 | 92.2 | 64.2 | 89.5 | |
| 1997 | 2,352 | 317 | 2,668 | 98.6 | 97.2 | 98.5 | 99.5 | 153.8 | 104.7 | 107.9 | 140.9 | 111.0 | |
| 1996 | 2,235 | 291 | 2,525 | 98.5 | 92.9 | 97.8 | 109.1 | 114.1 | 109.7 | 97.4 | 85.2 | 95.8 | |
| 1995 | 2,235 | 366 | 2,601 | 97.3 | 93.9 | 96.8 | 89.7 | 108.1 | 92.1 | 109.8 | 123.1 | 111.4 | |
| 1994 | 1,839 | 304 | 2,142 | 97.4 | 93.1 | 96.8 | 111.2 | 156.8 | 116.7 | 83.5 | 79.9 | 82.9 | |
| 1999-2003 | 10,065 | 739 | 10,805 | 100.0 | 100.0 | 100.0 | 104.2 | 140.8 | 106.4 | na | na | na | |
| 1994-1998 | 10,784 | 1,435 | 12,219 | 98.4 | 94.9 | 98.0 | 103.0 | 133.2 | 106.1 | na | na | na | |
| 1989-1993 | 8,503 | 1,731 | 10,235 | 97.8 | 91.7 | 96.8 | 106.0 | 118.2 | 107.9 | na | na | na | |
| 1984-1988 | 5,284 | 1,562 | 6,846 | 97.4 | 92.0 | 96.2 | 95.8 | 144.7 | 105.1 | na | na | na | |
| <1983 | 5,373 | 2,122 | 7,495 | 95.5 | 93.1 | 94.8 | 107.5 | 126.2 | 112.4 | na | na | na | |
| All | 40,010 | 7,589 | 47,599 | 98.1 | 93.6 | 97.4 | 103.5 | 130.5 | 107.4 | na | na | na | |

NA = Not applicable

¹ Both year and month of birth given

² (Bm/Bf)x100, where Bm and Bf are the numbers of male and female births, respectively

³ [2Bx/(Bx-1+Bx+1)]x100, where Bx is the number of births in calendar year x

Table C.5 Reporting of age at death in days

Distribution of reported deaths under one month of age by age at death in days and the percentage of neonatal deaths reported to occur at ages 0-6 days, for five-year periods of birth preceding the survey (weighted), Ethiopia 2011

| Age at death | | | of years the survey | / | Total |
|--|--------|---------|------------------------|--------|-----------------------|
| (days) | 0-4 | 5-9 | 10-14 | 15-19 | 0-19 |
| <1 | 181 | 197 | 174 | 137 | 689 |
| 1 | 63 | 70 | 61 | 33 | 227 |
| 2 | 21 | 31 | 32 | 28 | 112 |
| 3 | 40 | 56 | 61 | 38 | 195 |
| 4 | 20 | 17 | 17 | 7 | 61 |
| 5 | 18 | 30 | 21 | 18 | 87 |
| 6 | 4 | 2 | 8 | 6 | 21 |
| 7 | 31 | 28 | 45 | 38 | 143 |
| 8 | 4 | 7 | 15 | 8 | 34 |
| 9 | 4 | 10 | 6 | 4 | 24 |
| 10 | 4 | 15 | 9 | 14 | 43 |
| 11 | 0 | 0 | 3 | 1 | 4 |
| 12 13 | 2 0 | 3 | 0 | 4 | 9 7 |
| 13 | 11 | 4 9 | 0 11 | 3 3 | 7 34 |
| 15 | 11 | 9 40 | 26 | 37 | 3 4 114 |
| 16 | 2 | 40 2 | ∠6 4 | 1 | 9 |
| 17 | 3 | 7 | 2 | 5 | 17 |
| 17 | 1 | 0 | 0 | 0 | 2 |
| 19 | 0 | 0 | 0 | 0 | 0 |
| 20 | 4 | 12 | 16 | 9 | 42 |
| 21 | 9 | 14 | 7 | 12 | 43 |
| 22 | 2 | 0 | 0 | 0 | |
| 23 | 0 | Ö | 7 | Ö | 2 7 |
| 25 | Ö | Ö | 2 | 2 | 5 |
| 26 | 0 | 2 | 0 | 0 | 2 |
| 27 | 0 | 0 | 0 | 0 | 0 |
| 28 | 1 | 7 | 0 | 1 | 10 |
| 29 | 0 | 1 | 0 | 2 2 | 3 |
| 30 | 0 | 0 | 0 | 2 | 2 |
| 31+ | 0 | 5 | 2 | 0 | 7 |
| Total 0-30 | 438 | 566 | 528 | 414 | 1,946 |
| Percentage early neonatal ¹ | 79.3 | 71.4 | 70.9 | 64.4 | 71.6 |

¹ ≤6 days/≤30 days

Table C.6 Reporting of age at death in months

Distribution of reported deaths under two years of age by age at death in months and the percentage of infant deaths reported to occur at age under one month, for five-year periods of birth preceding the survey, Ethiopia 2011

| Age at death | Number | of years p | receding th | ne survey | Total |
|--|-----------------------|---------------|-------------|-------------|---------------|
| (months) | 0-4 | 5-9 | 10-14 | 15-19 | 0-19 |
| <1 | 438 | 566 | 528 | 414 | 1,946 |
| 1 | 58 | 87 | 108 | 82 | 335 |
| 2 | 20 | 74 | 71 | 43 | 208 |
| 2 3 | 22 | 57 | 38 | 31 | 148 |
| 4 | 26 | 35 | 25 | 21 | 108 |
| 5 | 19 | 30 | 39 | 28 | 116 |
| 5 6 7 | 43 | 51 | 54 | 36 | 183 |
| 7 | 12 | 33 | 34 | 22 | 100 |
| 8 | 9 | 37 | 25 | 22 | 93 |
| 9 | 11 | 35 | 35 | 22 | 104 |
| 10 | 3 | 11 | 4 | 13 | 32 |
| 11 | 8 | 17 | 14 | 19 | 59 |
| 12 | 25 | 60 | 75 | 69 | 229 |
| 13 | 3 | 11 | 4 | 6 | 25 |
| 14 | 6 | 19 | 14 | 13 | 51 |
| 15 | 5 | 7 | 6 | 10 | 28 |
| 16 | 0 | 0 | 5 | 14 | 19 |
| 17 | 7 | 4 | 8 | 5 | 24 |
| 18 | 3 | 25 | 26 4 | 28 | 82 |
| 19 20 | 2 | 6 2 | 1 | 4 4 | 16 10 |
| 21 | 3 2 3 5 3 | 1 | 0 | 1 | 10 7 |
| 22 | 3 | 4 | 4 | 1 | 13 |
| 23 | 4 | | 7 | 1 | 16 |
| 24+ | 1 | 3 2 | 0 | 0 | 4 |
| 1 Year | 11 | 18 | 43 | 18 | 90 |
| | | | | | |
| Total 0-11 Percentage neonatal ¹ | 669 65.4 | 1,033 54.8 | 977 54.1 | 754 55.0 | 3,432 56.7 |

^a Includes deaths under one month reported in days ¹ Under one month/under one year

Table C.7 Nutritional status of children based on NCHS/CDC/WHO International Reference Population

Percentage of children under five years classified as malnourished according to three anthropometric indices of nutritional status: height-for-age, weight-for-height, and weight-for-age, by background characteristics, based on NCHS/CDC/WHO International Reference Population, Ethiopia 2011

| | Height-for-age ¹ | | Weight-for-height | | | | Weight-for-age | | | | | Un- | |
|---|---|--|--|---|---|---|--|--|---|---|--|--|---|
| Background characteristic | Per- centage below -3 SD | Per- centage below -2 SD ² | Mean Z-score (SD) | Per- centage below -3 SD | Per- centage below -2 SD ² | Per- centage above +2 SD | Mean Z-score (SD) | Per- centage below -3 SD | Per- centage below -2 SD ² | Per- centage above +2 SD | Mean Z-score (SD) | Weighted number of children | weighted number of children |
| Age in months | | | | | | | | | | | | | |
| <6 6-8 9-11 12-17 18-23 24-35 36-47 48-59 | 0.6 1.8 10.9 13.5 20.7 19.0 18.7 21.6 | 3.5 8.6 27.8 37.5 48.9 42.7 48.0 46.1 | 0.0 -0.5 -1.3 -1.5 -1.9 -1.8 -2.0 -2.0 | 0.3 1.1 1.0 1.6 2.3 1.4 0.7 1.0 | 3.4 9.3 13.0 16.7 16.7 8.6 5.5 | 3.5 0.9 1.8 0.9 2.2 0.8 0.2 0.7 | -0.1 -0.7 -0.9 -1.0 -0.9 -0.9 -0.7 | 0.0 1.8 10.2 12.1 9.9 14.0 8.0 7.2 | 2.1 11.5 41.0 40.0 45.5 41.8 37.3 36.2 | 5.0 0.6 0.3 1.2 1.2 0.3 0.2 0.1 | 0.1 -0.9 -1.7 -1.7 -1.7 -1.8 -1.7 | 1,050 585 501 1,008 904 2,090 2,480 2,356 | 1,014 572 430 1,040 826 2,074 2,306 2,212 |
| Sex Male Female | 16.1 16.0 | 39.1 37.7 | -1.6 -1.6 | 1.3 1.0 | 9.2 7.6 | 0.7 0.8 1.4 | -0.7 -0.8 -0.7 | 8.3 8.7 | 34.8 33.7 | 0.6 1.1 | -1.7 -1.5 -1.5 | 5,638 5,336 | 5,349 5,125 |
| Birth interval in months ³ First birth ⁴ <24 24-47 48+ | 13.6 20.7 16.9 12.4 | 37.3 45.6 39.0 32.7 | -1.5 -1.7 -1.5 -1.4 | 1.1 0.8 1.3 0.8 | 8.1 9.1 9.1 7.6 | 1.7 1.7 0.8 1.0 | -0.6 -0.6 -0.7 -0.6 | 7.2 9.6 9.5 6.7 | 32.3 38.1 36.2 30.2 | 0.7 1.0 0.9 0.9 | -1.4 -1.5 -1.5 -1.3 | 1,854 1,618 4,912 1,760 | 1,818 1,643 4,407 1,722 |
| Size at birth ³ Very small Small Average or larger | 20.4 17.0 14.8 | 44.9 38.8 36.8 | -1.7 -1.7 -1.4 | 1.3 1.8 0.9 | 11.4 10.5 7.7 | 1.1 1.1 1.2 | -0.9 -0.8 -0.6 | 14.2 10.2 6.7 | 44.9 42.5 30.8 | 0.7 0.6 1.0 | -1.7 -1.7 -1.3 | 2,089 904 7,129 | 2,157 857 6,548 |
| Mother's interview status Interviewed Not interviewed but in household Not interviewed, and not in the household ⁵ | 16.1 13.6 16.6 | 38.6 28.7 40.0 | -1.5 -3.6 -2.1 | 1.1 2.1 1.2 | 8.7 5.5 5.2 | 1.1 0.2 0.2 | -0.7 -3.0 -1.0 | 8.6 10.0 6.0 | 34.8 27.3 29.1 | 0.9 1.6 0.0 | -1.4 -3.5 -1.9 | 10,144 305 525 | 9,590 373 511 |
| Mother's nutritional status ⁶ Thin (BMI<18.5) Normal (BMI 18.5-24.9) Overweight/obese (BMI ≥ 25) Missing | 17.6 16.3 6.8 11.6 | 42.5 38.5 22.0 27.7 | -1.6 -1.5 -0.9 -4.0 | 1.5 1.0 0.2 2.5 | 13.2 7.5 5.0 9.9 | 0.6 1.2 3.4 0.0 | -1.0 -0.6 -0.2 -3.6 | 12.1 8.1 0.7 10.6 | 45.0 33.1 13.8 27.7 | 0.3 0.9 3.9 0.0 | -1.7 -1.4 -0.7 -4.0 | 2,138 7,561 456 250 | 2,549 6,509 561 305 |
| Residence Urban Rural | 9.7 17.0 | 25.7 40.2 | -1.3 -1.6 | 0.2 1.2 | 4.7 9.0 | 2.4 0.9 | -0.6 -0.8 | 4.6 9.1 | 20.3 36.2 | 1.8 0.7 | -1.2 -1.6 | 1,353 9,620 | 1,692 8,782 |
| Region Tigray Affar Amhara Oromiya Somali Benishangul-Gumuz SNNP Gambela Harari Addis Ababa Dire Dawa | 16.2 25.2 17.7 14.2 11.7 22.6 19.3 8.7 8.5 4.2 15.3 | 45.1 43.7 44.3 35.7 27.9 42.8 39.2 20.5 24.4 16.0 31.9 | -1.8 -1.7 -1.9 -1.4 -1.2 -1.8 -1.7 -1.5 -1.2 -0.9 -1.5 | 1.0 2.6 1.2 1.2 2.8 1.0 0.7 1.6 0.7 0.6 1.1 | 8.3 16.3 9.3 8.1 20.4 8.2 6.9 10.6 7.1 3.6 11.4 | 0.7 1.4 1.1 0.9 1.2 1.0 1.3 0.9 1.1 3.6 1.3 | -0.8 -1.0 -0.8 -0.7 -1.3 -0.8 -0.6 -1.5 -1.0 -0.4 -1.0 | 9.4 16.8 9.6 7.3 11.8 9.3 7.7 4.5 1.2 9.9 | 41.2 44.6 39.6 31.7 37.2 38.0 33.4 21.7 24.6 9.5 31.6 | 0.2 0.9 0.4 0.9 1.6 0.5 1.2 1.1 1.3 3.6 0.8 | -1.7 -1.8 -1.4 -1.7 -1.7 -1.5 -1.8 -1.4 -0.8 -1.6 | 735 105 2,343 4,749 286 124 2,338 36 24 198 36 | 1,142 970 1,129 1,627 816 900 1,496 812 556 363 663 |
| Mother's education No education Primary Secondary More than secondary | 17.9 13.0 4.8 2.6 | 40.9 35.2 14.8 12.6 | -1.7 -1.4 -1.3 -0.9 | 1.3 0.8 0.1 0.0 | 9.6 6.8 1.9 2.8 | 0.9 1.1 3.5 5.4 | -0.8 -0.6 -0.7 -0.4 | 9.8 6.6 0.4 1.0 | 37.7 29.8 13.0 5.6 | 0.7 1.1 2.7 2.5 | -1.6 -1.3 -1.1 -0.8 | 7,259 2,795 241 153 | 6,972 2,498 323 169 |
| Wealth quintile Lowest Second Middle Fourth Highest | 21.0 18.4 16.1 12.9 9.4 | 43.2 41.8 40.2 38.0 24.0 | -1.8 -1.7 -1.6 -1.6 -1.3 | 1.6 1.7 1.2 0.6 0.2 | 9.7 11.4 8.7 6.7 4.1 | 1.0 1.0 0.7 0.9 2.0 | -0.9 -0.8 -0.7 -0.7 -0.5 | 11.5 10.7 9.0 5.1 4.4 | 41.0 39.8 34.9 30.9 19.4 | 0.9 0.5 0.9 0.5 1.6 | -1.7 -1.6 -1.5 -1.5 -1.1 | 2,485 2,394 2,303 2,185 1,606 | 3,260 1,900 1,721 1,743 1,850 |
| Total | 16.1 | 38.4 | -1.6 | 1.1 | 8.4 | 1.1 | -0.7 | 8.5 | 34.3 | 0.8 | -1.5 | 10,974 | 10,474 |

Note: Table is based on children who slept in the household the night before the interview. Each of the indices is expressed in standard deviation units (SD) from the median of the NCHS/CDC/WHO International Reference Population. Table is based on children with valid dates of birth (month and year) and valid measurement of both height and weight.

1 Includes children who are below -3 standard deviations (SD) from the International Reference Population median

Excludes children whose mothers were not interviewed

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

⁵ Excludes children whose mothers were not weighed and measured. Mother's nutritional status in terms of BMI (Body Mass Index) is presented in Table 11.10

⁶ For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire

Table C.8 Completeness of Information on Siblings

Completeness of data on survival status of sisters and brothers reported by interviewed women, age of living siblings and age at death (AD) and years since death (YSD) of dead siblings, (unweighted), Ethiopia 2011

| | Sis | ters | Brot | hers | All si | blings |
|-------------------------|--------|---------|--------|---------|--------|---------|
| | Number | Percent | Number | Percent | Number | Percent |
| All siblings | 45,066 | 100.0 | 49,295 | 100.0 | 94,361 | 100.0 |
| Living | 34,984 | 77.6 | 36,796 | 74.6 | 71,780 | 76.1 |
| Dead | 10,054 | 22.3 | 12,436 | 25.2 | 22,490 | 23.8 |
| Survival status unknown | 28 | 0.1 | 63 | 0.1 | 91 | 0.1 |
| Living siblings | 34,984 | 100.0 | 36,796 | 100.0 | 71,780 | 100.0 |
| Age reported | 34,966 | 99.9 | 36,767 | 99.9 | 71,733 | 99.9 |
| Age missing | 18 | 0.1 | 29 | 0.1 | 47 | 0.1 |
| Dead siblings | 10,054 | 100.0 | 12,436 | 100.0 | 22,490 | 100.0 |
| AD and YSD reported | 9,988 | 99.3 | 12,351 | 99.3 | 22,339 | 99.3 |
| Missing only AD | 38 | 0.4 | 29 | 0.2 | 67 | 0.3 |
| Missing only YSD | 7 | 0.1 | 21 | 0.2 | 28 | 0.1 |
| Missing AD and YSD | 21 | 0.2 | 35 | 0.3 | 56 | 0.2 |

Table C.9 Sibship size and sex ratio of siblings

Mean sibship size and sex ratio of siblings at birth, Ethiopia 2011 $\,$

| | Mean sibship size ¹ | Sex ratio of siblings at birth ² |
|--------------------|--------------------------------------|---|
| Age of respondents | | |
| 15-19 · | 6.9 | 109.4 |
| 20-24 | 6.9 | 110.2 |
| 25-29 | 7.0 | 107.0 |
| 30-34 | 7.1 | 108.4 |
| 35-39 | 7.1 | 114.1 |
| 40-44 | 7.0 | 108.4 |
| 45-49 | 7.0 | 109.6 |
| Total | 7.0 | 109.4 |

¹ Includes the respondent ² Excludes the respondent

PERSONS INVOLVED IN THE 2011 ETHIOPIA DEMOGRAPHIC AND HEALTH SURVEY



CENTRAL STATISTICAL AGENCY

Ms. Samia Zekaria, Director General (Project Director)
Ato Gebeyehu Abelti, Survey Director
Ato Yakob Mudesir, National Statistics System Coordination
& Operation Deputy Director General
Ato Yasin Mussa, Statistical Surveys and Census Deputy Director General

ICF INTERNATIONAL

Dr. Pav Govindasamy, Regional Coordinator Dr. Ann Way, Vice President and Deputy Director Mr. Guillermo Rojas, Chief of Data Processing Dr. Dean Garrett, Biomarker Specialist Ms. Lyndsey Wilson-Williams, Country Manager Dr. Ruilin Ren, Sampling Specialist Mr. Elliott Hoel, Data Processing Specialist Mr. Blake Zachhary, GIS Specialist Mr. Bernard Ghaleb, Consultant Ms. Alemtsehay Beru, Consultant Dr. Fred Arnold, Senior Fellow Ms. Zhuzhi Moore, Senior Research Associate Ms. Joy Fishel, Country Manager (Report Reviewer) Ms. Anjushree Pradhan, Country Manager (Report Reviewer) Ms. Velma Lopez, Country Manager (Report Reviewer) Ms. Sri Poedjastoeti, Country Manager (Report Reviewer) Dr. Jean de Dieu Bizimana, Country Manager (Report Reviewer) Ms. Sarah Schneider, Communication Specialist Ms. Nancy Johnson, Editor Ms. Audrey Shenett, Document Production

JURA EDITORIAL SERVICES

Mr. Ward Rinehart, Editor Mr. Bryant Robey, Editor

MINISTRY OF HEALTH/ ETHIOPIAN HEALTH AND NUTRITION RESEARCH INSTITUTE/CDC ETHIOPIA

Dr. Kesetebrihan Admassu State Minister, Federal Ministry of Health

Dr. Amha Kebede Acting Director General, EHNRI

Ms. Wegene Tamene Surveillance and Survey Coordinator, EHNRI Dr. Almaz Abebe Director Infectious and Non-infectious Diseases

Research Directorate, EHNRI

Dr. Tsehaynesh Messele Former Director General, EHNRI

Dr. Aseged Woldu Former Surveillance and Survey Coordinator, EHNRI

Mr. Tesfaye Tilahun Laboratory Mentor, EHNRI Ms. Yodit Alemayehu Laboratory Technologist, EHNRI Laboratory Technologist, EHNRI Mr. Mesfin Nigussie Mr. Nigussie Gezhaegn Laboratory Technologist, EHNRI Mr. G/Medhin G/Micheal Laboratory Technologist, EHNRI Mr. Tefera Gebeyehu Laboratory Technologist, EHNRI Laboratory Technologist, EHNRI Mr. Atsebeha G/Egziabher Laboratory Technologist, EHNRI

Mr. Feyissa Challa Mr. Ermias Hailu Laboratory Technologist, EHNRI Ms. Mullu Girma

Laboratory Technologist, EHNRI Laboratory Technologist, EHNRI Mr. Asfaw Adane

Associate Director of the Laboratory, CDC Ethiopia Mr. Peter Fonjungo

Mr. Yenew Kebede Laboratory Branch Head, CDC Ethiopia

Ato Yihalem Tamiru Senior HCT Advisor, Federal Ministry of Health

EDHS STEERING COMMITTEE AND TECHNICAL COMMITTEE

| Ms. Samia Zekaria | CSA | Ms. Premila Bartlett | USAID |
|-----------------------|--------|-----------------------|--------------|
| Mr. Gebeyehu Abelti | CSA | Mr. Daniel Alemu | UNFPA |
| Mr. Jelaludin Ahmed | CDC | Mr. Garoma Kena | USAID |
| Mr. Ashenafi Haile | CDC | Mr. Kassahun Deneke | USAID |
| Dr. Amha Kebede | EHNRI | Dr. Aseged Woldu | EHNRI |
| Mr. Roger Pearson | UNICEF | Mr. Mekonnen Ashenafi | UNICEF |
| Ms. Genet Mengistu | MoFED | Mr. Mengistu Kefale | EHNRI |
| Ms. Gezu Berhanu | CORHA | Dr. Kristin Soarlas | USAID |
| Ms. Eleni Seyoum | HAPCO | Mr. Ghaleb Bernard | ICF |
| Ms. Jeanne Rideout | USAID | Ms. Alemtsehay Beru | ICF |
| Ms. Meron Tewfik | UNFPA | Mr. Sahilu Tilahun | CSA |
| Mr. Yihalem Tamiru | MOH | Ms. Wegene Tamene | EHNRI |
| Dr. Sofonias Getachew | WHO | Ms. Martha Kibur | UNICEF |

VOLUNTARY COUNSELLING AND TESTING TASK FORCE

Mr. Yihalem Tamiru MOH Mr. Gebevehu Abelti **CSA** Ms. Premila Bartlet **USAID** Dr.Tekeste Kebede **CDC** Mr. Jelaludin Ahmed **CDC**

Ms. Alemtsehay Beru ICF International

HOUSEHOLD LISTING STAFF

| Team 1: Tigray Region | Position | Team 8: Somali Region | | |
|-------------------------|------------|---------------------------------|------------|--|
| Hilaye Gebru | Supervisor | <u>Jijiga Zone</u> | | |
| Atebeha Mebrhatu | Lister | Bekele Abdi | Supervisor | |
| Zenabu Ayalew | Lister | Wegayeu Kidane | Lister | |
| Amdom Girmaye | Lister | Yilma Lakew | Lister | |
| Ashnafi Asebeha | Lister | Abdurazak Ali | Lister | |
| Team 2: Affar Region | | Afework Tekle | Lister | |
| Eskender Mekonnen | Supervisor | Gode Zone | | |
| Temesgen Eshetu | Lister | Bahiru Sinke | Supervisor | |
| Tsegaye Melaku | Lister | Shimeles Asefa | Lister | |
| Seid Yemer | Lister | Habetamu legesse | Lister | |
| Team 3: Amhara region | | Mesfin H/Selase | Lister | |
| Tsegaye Haile | Supervisor | Alemayeu Husen | Lister | |
| Sileshi Alemkere | Lister | Afder Zone | | |
| Mohammed Getachew | Lister | Ayele Worku | Supervisor | |
| Birikti G/Selase | Lister | H/Micheal Dibore | Lister | |
| Abel Amare | Lister | Newaye Hiruye | Lister | |
| Aynekulu Yalew | Lister | Tewodros Mesfin | Lister | |
| Yedeg Agomas | Lister | Moges Melese | Lister | |
| Team 4: Oromiya Region | | Team 9: Benshangul Gumuz | | |
| Assefa Tesema | Supervisor | Fiyessa Bulte | Supervisor | |
| Derege Gobena | Lister | Deressa Woyosa | Lister | |
| Yassin Abadura | Lister | Tesfaye Bezyneh | Lister | |
| Getahun Girma | Lister | Team 10: Addis Ababa | | |
| Shimeles Degene | Lister | Bulcha Gurmessa | Supervisor | |
| Yishak Tegene | Lister | Legesse Mekeksa | Lister | |
| Getnet Kumbi | Lister | Mesfin H/Selasse | Lister | |
| Team 5: Gambella Region | | Teshome Zewde | Lister | |
| Getachew Worku | Supervisor | Alemayeu Hussen | Lister | |
| Tariku Kena | Lister | Team 11: SNNPR | | |
| Belaye Shifiraw | Lister | Ayele Worku | Supervisor | |
| Girma Assefa | Lister | Dagem Desalegn | Lister | |
| Tamre Yesuf | Lister | H/Micheal Gebre | Lister | |
| Getnet Kumbi | Lister | Amare Melaku | Lister | |
| Team 6 : Harari | | Newaye Hiruye | Lister | |
| Bahiru Sinke | Supervisor | Tewodrows Mesfin | Lister | |
| Shimeles Asefa | Lister | Mogos Meles | Lister | |
| Habtamu Legesse | Lister | Listing Trainers & Field coords | inators | |
| Team 7: Dire Dawa | | Legesse Hadish | | |
| Fisha Aklilu | Supervisor | Munir Nureden | | |
| Shewangzaw Behabtu | Lister | Bichaka Geleti | | |
| Mesfin Getachew | Lister | | | |

PRETEST

| Team 1: Tigray | |
|-----------------------|------------------|
| Abrhan Mesele | Field Coordinato |
| Gedeye Mekonen | Interviewer |
| Abrha G/Giorgise | Interviewer |
| Enyew Leyew | Biomarker |
| Ataklt Gebreegziabher | Interviewer |
| Seid Abdulkader | Interviewer |
| Regibe G/Eyesus | Interviewer |
| | |

or Berhanu Mogos Biomarker

| Team 2: Oromiya | |
|-------------------|---------------------|
| Teshale Edossa | Field Coordinator |
| Kassahun Mengistu | Expert/main office/ |
| Dawit Tessientu | Field Coordinator |
| Elsabet Getahun | Interviewer |
| Faiza Abubeker | Interviewer |
| Obssa Guduru | Interviewer |
| Teshome Kebeta | Interviewer |
| Mulu Bekele | Biomarker |
| Demessew Bogale | Biomarker |
| Sebele Mulugeta | Interviewer |
| | |

| Team 3: Addis Ababa | |
|---------------------|---------------------|
| Mesfin Tadesse | Field Coordinator |
| Desalegn Getachew | Field Coordinator |
| Girum Haile | Expert /main office |
| Hussen Beshir | Interviewer |
| Abrham Ayele | Interviewer |
| Hiwot Alemayeu | Interviewer |
| Tewodros Tamiru | Biomarker |
| Zegale Hibiltu | Biomarker |
| - | |

| Team 4: Amhara | |
|-------------------|---------------------|
| Eshete Taddesse | Field Coordinator |
| Endeshaw feleke | Expert /Main Office |
| Endale Gebre | Interviewer |
| Hiwot Garedew | Interviewer |
| Bisrat Taddesse | Interviewer |
| Meseret Mamo | Interviewer |
| H/Biorgise Gedamu | Biomarker |
| Solomon Gizaw | Biomarker |
| | |

| Team 5: Amhara | |
|-------------------|----------------------|
| Yohannes Tilahun | Field Coordinator |
| Mekonnen Abegaz | Expert /main office/ |
| Abatihun Mulugeta | Interviewer |
| Eden Amare | Interviewer |
| Melkam Ayenew | Interviewer |
| Meaza Genetu | Biomarker |
| Brook Daniel | Biomarker |
| | |

| Team 6: SNNP | |
|--------------------|-----------------------|
| Wondwessen Negassa | Field Coordinator |
| Wondwessen Demisse | Expert / main office/ |
| Edmealem Abatyihun | Field Coordinator |
| Fisum Tariku | Interviewer |
| Seifu Yineda | Interviewer |
| Tigist Abera | Interviewer |
| Bezawit W/Yohannes | Biomarker |

| Team 7: SNNP | |
|---------------------|----------------------|
| Bement Woldu | Field Coordinator |
| Teketelew Behayilu | Expert/ main office/ |
| Dawit Demissie | Interviewer |
| Mahilet Sentayehu | Interviewer |
| Abdulmegid Mohammed | Interviewer |
| Elisabeth Tasew | Biomarker |
| Zelalem Taddese | Biomarker |

TECHNICAL AND BIOMARKER TRAINERS

| Girum Haile | C SA | Wondessen Negassa | C SA |
|-------------------|-------------------|-----------------------|--------------------|
| Teketelew Behalu | C SA | Mekonnen Zebene | C SA |
| Kassahun Mengistu | C SA | Mesfin Tadesse | C SA |
| Menur Hussein | C SA | Eshetie Tadesse | C SA |
| Dawit Tesintu | C SA | Endeshaw Feleke | C SA |
| Desalegn Getachew | C SA | Bement Woldu | C SA |
| Teshale Edosa | C SA | Atakilit G/Egeziabher | C SA |
| Abrha Mesele | C SA | Edimealem Abateneh | C SA |
| Wondessen Demise | C SA | Tesfaye Tilahun | EHNRI (Biomarker) |
| Nigussie Gezhaegn | EHNRI (Biomarker) | Dr. Aseged Woldu | EHNRI (Biomarker) |
| Mulu Girma | EHNRI (Biomarker) | | |

REGIONAL FIELD COORDINATORS

| Abrham Mesele | Wondwessen Negassa | Teketelew Behailu |
|-----------------------|--------------------|-------------------|
| Mesfin Tadesse | Tagel Assefa | Endesahw Feleke |
| Teshale Edossa | Dawit Tessientu | |
| Bement Woldu | Desalegn Getachew | |
| Eshete Taddesse | Edmealem Abatyihun | |
| Ataklt Gebreegziabher | | |

INTERVIEWER QUALITY CONTROL TEAM

| Hiwot Garedew Gedeye Mekonen Abrha G/Giorgise Sied Abdulkader Regebe G/Eyesus Elsabet Getahun Hiwot Alemayeu Faiza Abubeke | Fitsum Tariku Teshome Kebeta Endale Gebre Bisrat Taddesse Meseret Mamo Melkam Ayene Tigist Abera Dawit Demissie |
|--|---|
| | |
| • | |
| Elsabet Getahun | Melkam Ayene |
| Hiwot Alemayeu | 9 |
| Faiza Abubeke | Dawit Demissie |
| Eden Amare | Mahilet Sentayeu |
| Obssa Guduru | Abdulmegid Mohammed |
| Seifu Yineda | Abatihun Mulugeta |

BIOMARKER QUALITY CONTROL

| Bezwit W/Yohannes | Zelalem Tadesse |
|-------------------|-------------------|
| Mulu Bekele | Solomon Gizaw |
| Enyew Leyew | H/Giorgise Gedamu |
| Demeisew Bogale | Meaza Genetu |
| Elisabeth Teshome | Berhanu Mogos |
| Brook Daniel | - |

EDHS FIELD TEAMS (35 TEAMSs)

| TIGRAY: Team 1 | | AFFAR: Team 1 | |
|-------------------------------|---------------------|--------------------------------|-----------------------|
| | Companying | | C |
| Mengistu Eyasu | Supervisor | Seyoum Haile | Supervisor |
| Adeyam Tsegaye Woldu Kiros | Editor Biomarker | Birtukan Alemu Dubale Yemer | Editor Interviewer |
| | Biomarker | | |
| Gedete Tebeje | | Mohamed Ali | Biomarker |
| Gideye Fissha | Biomarker | Toyba Hussen | Interviewer |
| G/selase Aregawi | Interviewer | Alem Seid | Interviewer |
| Sinedu Mehari | Interviewer | Sofia Yimam | Biomarker |
| Tsehaynesh Teklu | Interviewer | Hiwot Zemene | Biomarker |
| TIGRAY: Team 2 | | AFFAR: Team 2 | |
| Hamid Sied | Supervisor | Mulugeta Beweketu | Supervisor |
| Tsige Gezai | Editor | Toyba Sied | Interviewer |
| Tekue G/Yohannes | Biomarker | Mekonnen Tadesse | Interviewer |
| Sisay W/Giorgise | Biomarker | Ayele Shimeles | Biomarker |
| Mebrhit Tsegaye | Biomarker | Gezework Nega | Biomarker |
| Abdulkader Ahemed | Interviewer | Tigist Desalegn | Biomarker |
| Senayet Girmaye | Interviewer | Rahel Getachew | Interviewer |
| Awtash G/Michelal | Interviewer | Senknesh Feleke | |
| Samrawit Tsegay | Interviewer | | |
| | | | |
| TIGRAY: Team 3 | | AFFAR: Team 3 | |
| Berhane G/Mariam | Supervisor | Tewodros Mulatu | Supervisor |
| Rahel Ezra | Editor | Woynshet Amha | Editor |
| Haftom Wolday | Biomarker | Anwar Habibe | Biomarker |
| Genet G/Kidan | Biomarker | Abubker Habib | Interviewer |
| Hiwot G/Meskel | Biomarker | Birtukan Haile | Biomarker |
| G/Meskel Hadera | Interviewer | Hawa Adm | Interviewer |
| Zewdu Sertse | Interviewer | Hassena Ali | Biomarker |
| Genet Teklay | Interviewer | Ayechew Gesite | Interviewer |
| AMHARA: Team 1 | | OROMIYA: Team 1 | |
| Aseged G/Mariam | Supervisor | Eshetu Alemayhu | Supervisor |
| Maheder Adamu | Editor | Hensene Gomera | Editor |
| Gizachew Aklaw | Interviewer | Wagari Ayana | Biomarker |
| Andualem Demisse | Biomarker | Mulugeta Leta | Interviewer |
| Aden Geremew | Interviewer | Zeyneba Abatemam | Biomarker |
| Semera Endris | Biomarker | Fikirte Senkneh | Interviewer |
| Helen Ayalew | Biomarker | Fantu Dabi | Biomarker |
| Serawork Asreda | Interviewer | Azeb Arega | Interviewer |
| | | 0.00.000 | |
| AMHARA: Team 2 | G : | OROMIYA: Team 2 | . |
| Teshome Gizaw | Supervisor | Mamedteyib Mussa | Supervisor |
| Martha Yassin | Editor | Aster Shimelis | Editor |
| Lebsework Abebaw | Biomarker | Kadi Hussen | Biomarker |
| Aseged Geberu | Interviewer | Mohammed Redi | Interviewer |
| Ikram Sebri | Biomarker | Woyeneshet Taye | Biomarker |
| Worke Alem | Biomarker | Nejat Abdela | Biomarker |
| Tege Derseh | Interviewer | Seblewengel Habtamu | Interviewer |
| Fetfete Meteke | Interviewer | Alemtsehay Tadesse | Interviewer |
| Aberash Teshome | Interviewer | Meresa Teshome | Interviewer |

| AMHARA: Team 3 | | OROMIYA: Team 3 | |
|-------------------------|-------------|---------------------|-------------|
| Mulusew Admasu | Supervisor | Bacha Olkeba | Supervisor |
| Bantayeu Zeleke | Editor | Mahilet Adugna | Editor |
| Petros Belete | Biomarker | Abdulaziz Yenus | Biomarker |
| Befekadu Mekuria | Interviewer | Abdulahi Abdi | Interviewer |
| Tigist Abetew | Biomarker | Belaynesh Mamo | Interviewer |
| Rehana Kedir | Biomarker | Emebet Taye | Biomarker |
| Serawit Asreda | Interviewer | Tiru Bekele | Biomarker |
| Tafach Getnet | Interviewer | Yirgalem Abdisa | Interviewer |
| AMHARA: Team 4 | | OROMIYA: Team 4 | |
| Desta Hagos | Supervisor | Zerihun Kura | Supervisor |
| Mahelet Negasa | Editor | Kebebush Chala | Editor |
| Desalege Bayessa | Interviewer | Nasir Kelifa | Biomarker |
| Hassen Besher | Biomarker | Habib Beriso | Interviewer |
| Seada Abdi | Biomarker | Ayelech Tafese | Biomarker |
| Tiruken Melese | Biomarker | Aynalem Daba | Biomarker |
| Seida Endres | Interviewer | Sufe Leta | Interviewer |
| Tizita Goshu | Interviewer | Aynalem Kindenew | Interviewer |
| AMHARA: Team 5 | | OROMIYA : Team 5 | |
| Hiwot Timerga | Supervisor | Kassahun Beneber | Supervisor |
| Tigist Jegnaw | Editor | Mekdes Shemelis | Editor |
| Adane Dagnaw | Biomarker | Alemseged Assefa | Biomarker |
| Tefera Semachew | Biomarker | Mesfin Bekele | Interviewer |
| Nurseba Mohammed | Interviewer | Tsegereda Asefa | Biomarker |
| Yamlakerk Takele | Interviewer | Lensa Melaku | Biomarker |
| Rabia Hussen | Biomarker | Senayit Degefu | Interviewer |
| Kedan Mola | Biomarker | Meseret Lemma | Interviewer |
| Teketaye Achaw | Supervisor | Semira Osman | Interviewer |
| Meleak Abera | Interviewer | | |
| SOMALI: Team 1 | | SNNPR: Team 1 | |
| Muhamed Abdulahi | Supervisor | Muhaba Adege | Supervisor |
| Emebet Alemayeu | Editor | Selamawit Yihsak | Editor |
| Danel Abebe | Interviewer | Yehualawork Tilahun | Biomarker |
| Danachew Sheferaw | Biomarker | Bantayeu Negash | Interviewer |
| Dereb Molla | Biomarker | Meklit Wondimu | Biomarker |
| Gelela Tilahun | Biomarker | Tsehaynesh Tirchafo | Interviewer |
| Tigist Eliyas | Interviewer | Samrawit Gomoro | Biomarker |
| Sofiya Sied | Interviewer | Meaza Daei | Interviewer |
| SOMALI: Team 2 | | SNNPR: Team 2 | |
| Alemu tesfaye | Supervisor | Tsegaye Chele | Supervisor |
| Bizunesh Lakew | Editor | Zeneb Legesse | Editor |
| Abera Esubalew | Interviewer | Tesfaye Dengiya | Interviewer |
| Wondemu Legesse | Biomarker | Muluwork Egegu | Biomarker |
| Tigist Worku | Biomarker | Mahlet Ayele | Biomarker |
| Selam Mamo | Biomarker | Merema Mohammed | Interviewer |
| Lina Ibrahim | Interviewer | Ayelech Belgu | Interviewer |
| N A - 1- 11 - 4 N A - 1 | I 4 | | |

Mahilet Mekonnen

Interviewer

| SOMALI: Team 3 | | SNNPR: Team 3 | |
|----------------------------------|----------------------|---------------------------------|----------------------|
| Omer Abdulahi | Supervisor | Melkamu Tekele | Supervisor |
| Tena Tesfaye | Editor | Hawi Belete | Editor |
| Begashaw Tekele | Biomarker | Wondimu Abebe | Interviewer |
| Getahun Abegaz | Interviewer | Wondwessen Ayele | Biomarker |
| Fetiya Reshid | Biomarker | Wessen Million | Biomarker |
| Mebrat Abrha | Interviewer | Meskerm Tadesse | Biomarker |
| Muluembet Egegu | Biomarker | Manyahelshal Tilaye | Interviewer |
| DENCHANCHI CUMUZ. | Таат 1 | CNINIDD. Tooms 4 | |
| BENSHANGUL-GUMUZ: | | SNNPR: Team 4 Selamu Bulado | Cumamican |
| Zekariyas Beyene | Supervisor Editor | | Supervisor Editor |
| Tsega G/Selase Meresa Teshome | Biomarker | Zeyneba Hussen Ayele Tsegaye | Biomarker |
| Wondmu Heluf | Interviewer | Maze Gsalo | Interviewer |
| Meseret Emana | Interviewer | Asegash Asefa | Biomarker |
| Selamawit Abera | Biomarker | Tigist Debebe | Biomarker |
| Emebet Petros | Interviewer | Tirunesh Teshome | Interviewer |
| Birtukan Ayeru | Biomarker | Aster Eyob | Interviewer |
| Ditukan Ayeru | Diomarker | Astel Lyou | interviewer |
| BENSHANGUL-GUM: Tea | nm 2 | HARAR: Team 1 | |
| Tesfahun Tessema | Supervisor | Kumera Mekonnen | Supervisor |
| Mekoya Tarekegn | Editor | Gojam Tilahun | Editor |
| Chemdessa Kenia | Biomarker | Yemaneh Gizaw | Biomarker |
| Addisu Kenate | Interviewer | Feleke Taye | Interviewer |
| Eskdar Melkamu | Biomarker | Hiwot Mulugeta | Biomarker |
| Etaferahu Benti | Interviewer | Shartu Nure | Biomarker |
| Terefwork Kassahun | Biomarker | Tsehay Mesfin | Interviewer |
| | | Senayit Mebratu | Interviewer |
| GAMBELLA: Team 1 | | HARAR: Team 2 | |
| Mebrhatu Abrham | Supervisor | Gebeyehu Gadissa | Supervisor |
| Feleku Zwede | Editor | Frehiwot Getahun | Editor |
| Amare Mesganaw | Biomarker | Behalu Tesfaye | Biomarker |
| Melaku Gebre | Interviewer | Bisrat Getachew | Interviewer |
| Abyot Tadele | Biomarker | Asnakech Debasu | Biomarker |
| Tigist Amare | Biomarker | Hana Tesfaye | Interviewer |
| Yakuta Hassen | Interviewer | Meka Hassen | Interviewer |
| Yeshiembet Mengistu | Interviewer | Hiwot Zelalem | Biomarker |
| GAMBELLA: Team 2 | | GAMBELLA :Team 3 | |
| Fekadu Zeleke | Supervisor | Solomon Danel | Supervisor |
| Gebeyanesh Mersha | Editor | Atekelt Mulualem | Editor |
| Benyam Degefu | Biomarker | Belelegn W/Giorgise | Interviewer |
| Gutema Etana | Biomarker | Gidaye Beyene | Biomarker |
| Meteke Endeshaw | Biomarker | Tigist Abera | Biomarker |
| Hirut Alemayeu | Interviewer | Sutume Befekadu | Biomarker |
| Salelesh Dubale | Interviewer | Mugela kedanemariam | Interviewer |
| Gelela Kassaye | Biomarker | Haymanot W/Mariam | Interviewer |
| Ocicia Rassaye | Diomarket | raymanot w/wanam | THICH VIEWEL |

DIRE DAWA: Team 1

ADDIS ABABA: Team 1 Dagnu Solomon Supervisor Ayana Bezabeh Supervisor Editor Mahelet Tesfaye Berut Begna Editor Interviewer Mesfin Girma Damte Zena Interviewer Ibrahim Kiyar Biomarker Atikelt G/Tadik Biomarker Gelela Negede Biomarker Martha Asfaw Biomarker Meskerem Abebe Interviewer konjet Gizaw Biomarker Selam Kebede Biomarker Hilena Lakew Interviewer Banchiayeu Andualem Hiwot Abyneh Interviewer Interviewer

DIRE DAWA: Team2

| Asheber Fekadu | Supervisor | Aynalem |
|--------------------|-------------|-----------|
| Fisum Fekadu | Editor | Munira S |
| Wosenseged Abdisa | Biomarker | Tewdros |
| G/Mikael Tolossa | Interviewer | Mohamm |
| Aklelework Tadesse | Biomarker | Wobalem |
| Fikerte Workalemau | Interviewer | Hilina Ke |
| Tigist Gizaw | Interviewer | Eyerusale |
| Wegen Teshome | Biomarker | Amleset l |
| | | |

ADDIS ABABA: Team 3

| Tamrat Deneke | Supervisor |
|-------------------|-------------|
| Bizunesh Alemayu | Editor |
| Keflu Lesane | Biomarker |
| Samuel Shumye | Interviewer |
| Rahel Tadele | Biomarker |
| Sentayeu Gurmessa | Biomarker |
| Aden Sahelemariam | Interviewer |
| Ayneshet Wodajo | Interviewer |

ADDIS ABABA: Team 2

| Aynalem Nesere | Supervisor |
|---------------------|-------------|
| Munira Sultan | Editor |
| Tewdros Seyoum | Biomarker |
| Mohammed Adam | Interviewer |
| Wobalem Workeye | Biomarker |
| Hilina Kebede | Biomarker |
| Eyerusalem Getachew | Interviewer |
| Amleset K/Mariam | Interviewer |

EDHS DATA PROCESSING AND GIS STAFF

| Data Processing Supervisors | GIS STAFF |
|-----------------------------|------------------|
| Abbas Shelemew | Sisay Guta |
| Asres Abayneh | Abiy Wegderess |
| Etalemahu Gebre | Meron Mebrtu |
| Negatu Legesse | Atreshewal Girma |

DATA ENTRY TEAM

Abel G/ Alif Addisalem Mindaye Alemtsehay Ayalew Alemtsehayb Kesela Ali Indris Ayda Yohannes Beluynesh Fekadu Bruktawit Wondimagegen Biruk Yehenew Belen Tesfaye Elsa G/Medhin Elias Kassa Fasika Workieye Firehiwot Tamiru Frehiwot Tesfaye Getachew Tafese Getent Hailu Hanna G/Yohannes Hagere W/Mariam Marta G/Cherkos Mekdes Girma Miraf Tesfave Meaza G/Medhin Meskerem Ferissa Meskerm Zenebe Meheret Berhe Mihret Asfaw Meaza Beyene Meskerem Wendafrash Meseret Mamao Miskark Tadesse Samuel Tesfaye Sisaye Kassaye Timnit Kidane Tigist Eshetu

Data Entry Supervisors

Yeworkwha Mohamed Zemed Wolde Frehiwot Legesse Meseret Tegegn Ashenafi T/Birhan **Office Editors**

Yohanes Fekere Selase

Berhanu Hailegeorgis Alemseged Tekletsion Nurhussen Issa Habtamu Bilew Fekeremariam Dega Genet Berhanu

CENTRAL STATISTICAL AGENCY 2010 ETHIOPIA DEMOGRAPHIC AND HEALTH SURVEY HOUSEHOLD QUESTIONNAIRE

IMPLEMENTING ORGANIZATION: CSA

| | | IDENTIFICATION | | |
|---------------------------------------|-----------------------------|---------------------------|----------|----------------------------|
| LOCALITY NAME | | | | |
| NAME OF HOUSEHOLD | HEAD | | | |
| CLUSTER NUMBER | | | | |
| HOUSEHOLD NUMBER | | | | |
| REGION | | | | |
| ALTITUDE (METRES) | | | | |
| | | | | |
| | <u> </u> | INTERVIEWER VISITS | i | |
| | 1 | 2 | 3 | FINAL VISIT |
| DATE | | | | DAY |
| | | | | MONTH |
| | | | | YEAR |
| INTERVIEWER'S NAME | | | | INT. NUMBER |
| RESULT* | | | | RESULT |
| NEXT VISIT: DATE | | | | TOTAL NUMBER |
| TIME | | | | OF VISITS |
| *RESULT CODES: 1 COMPL | _ETED | | | TOTAL PERSONS |
| 2 NO HO AT HON | NT RESPONDENT | IN HOUSEHOLD | | |
| 3 ENTIRE 4 POSTP | OF TIME | TOTAL ELIGIBLE | | |
| | ING VACANT OR ADDR | ESS NOT A DWELLING | | WOMEN |
| 8 DWELL | ING DESTROYED ING NOT FOUND | | | TOTAL ELIGIBLE |
| 9 OTHER | | (SPECIFY) | _ | MEN |
| LANGUAGE OF | LANGUAGE O | DE TIAN | GUAGE OF | LINE NO. OF RESPONDENT |
| QUESTIONNAIRE: | <u> </u> | | PONDENT: | TO HOUSEHOLD QUESTIONNAIRE |
| LANGUAGE CODES: AM | ARIGNA = 1, OROMIGNA | A = 2, TIGRIGNA = 3, OTHE | ER = 6 | COLO HOLL WILL |
| TRANSLATOR USED: (YES = 1, NO = 2) | | | | |
| , , , | | | | |
| SUPERVI | SOR | FIELD EDIT | OR | OFFICE KEYED BY EDITOR |
| NAME | | NAME | | |
| DATE | | DATE | | |

Hello. My name is ______ and I am working with the Central Statistical Agency (CSA). We are conducting a national survey about various health issues. We would very much appreciate your participation in this survey. This information will help the government to plan health services. The survey usually takes between 10 and 15 minutes to complete. As part of the survey we would first like to ask some questions about your household. Whatever information you provide will be kept strictly confidential, and will not be shared with anyone other than members of our survey team. Participation in this survey is voluntary, and if we should come to any question you don't want to answer, just let me know and I will go on to the next question; or you can stop the interview at any time. However, we hope you will participate in the survey since your views are important. At this time, do you want to ask me anything about the survey? May I begin the interview now? Signature of interviewer: _______ Date: _______ RESPONDENT AGREES TO BE INTERVIEWED ... 1 RESPONDENT DOES NOT AGREE TO BE INTERVIEWED ... 2 — END

Introduction and Consent

HOUSEHOLD SCHEDULE

| | | HOUSEHOLD SCHEDULE | | | | | | | | | |
|-------------|--|--|------------------------------------|--|---|---|---|---|---|---|--|
| | | | | | | | IF AGE 15 OR OLDER | | | | |
| LINE NO. | USUAL RESIDENTS AND VISITORS | RELATIONSHIP TO HEAD OF HOUSEHOLD | SEX | RESI | DENCE | AGE | MARITAL STATUS | | ELIGIBILI | ГҮ | |
| | Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household. AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE. THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-19 FOR EACH PERSON. | What is the relationship of (NAME) to the head of the household? SEE CODES BELOW. | Is (NAME) male or female? | Does (NAME) usually live here? | Did (NAME) stay here last night? | How old is (NAME)? IF 95 OR MORE, RECORD '95'. | What is (NAME'S) current marital status? 1 = MARRIED 2 = LIVING TOGETHER 3 = DIVORCED/ SEPARATED 4 = WIDOWED 5 = NEVER- MARRIED AND NEVER LIVED TOGETHER | CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49 | CIRCLE LINE NUMBER OF ALL MEN AGE 15-59 | CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5 | CIRCLE LINE NUMBER OF ALL CHILDREN AGE 5-14 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (11A) |
| 01 | | | M F 1 2 | Y N 1 2 | Y N 1 2 | IN YEARS | | 01 | 01 | 01 | 01 |
| 02 | | | 1 2 | 1 2 | 1 2 | | | 02 | 02 | 02 | 02 |
| 03 | | | 1 2 | 1 2 | 1 2 | | | 03 | 03 | 03 | 03 |
| 04 | | | 1 2 | 1 2 | 1 2 | | | 04 | 04 | 04 | 04 |
| 05 | | | 1 2 | 1 2 | 1 2 | | | 05 | 05 | 05 | 05 |
| 06 | | | 1 2 | 1 2 | 1 2 | | | 06 | 06 | 06 | 06 |
| 07 | | | 1 2 | 1 2 | 1 2 | | | 07 | 07 | 07 | 07 |
| 08 | | | 1 2 | 1 2 | 1 2 | | | 08 | 08 | 08 | 08 |
| 09 | | | 1 2 | 1 2 | 1 2 | | | 09 | 09 | 09 | 09 |
| 10 | | | 1 2 | 1 2 | 1 2 | | | 10 | 10 | 10 | 10 |
| 10 | S FOR O 3: RFI ATIONSHIP TO | | 1 2 | | | | | | | | |

CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD

- 01 = HEAD
 01 = HEAD
 02 = WIFE OR HUSBAND
 03 = SON OR DAUGHTER
 04 = SON-IN-LAW OR
 DAUGHTER-IN-LAW
 05 = GRANDCHILD
 06 = PARENT
 07 = PARENT-IN-LAW
 07 = PARENT-IN-LAW

| | | IF AGE (| -17 YEARS | | IF AGE 18-59 | | GE 5 YEARS DR OLDER | IF AG | E 5-24 YEARS |
|-------------|---|---|--|--|--|--|--|---|---|
| LINE NO. | SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS | | | | CHRONIC ILLNESS | | | CURRENT SCHOOL ATTENDANCE | |
| | Is (NAME)'s natural mother alive? | Does (NAME)'s natural mother usually live in this household or was she a guest last night? IF YES: What is her name? RECORD MOTHER'S LINE IF NO, RECORD '00'. | Is (NAME)'s natural father alive? | Does (NAME)'s natural father usually live in this household or was he a guest last night? IF YES: What is his name? RECORD FATHER'S LINE NUMBER. IF NO, RECORD '00'. | Has (NAME) been very sick for at least 3 months in the last 12 months? By very sick I mean has (NAME) been too sick to work or to carry out his/her normal activities at home? | Has (NAME) ever attended school? | What is the highest level of school (NAME) has attended? SEE CODES BELOW. What is the highest grade/ number of years (NAME) completed at that level? SEE CODES BELOW. | Did (NAME) attend school at any time during the 2003 E.C. school year? | During this school year, what level and grade/year is (NAME) attending? SEE CODES BELOW. |
| | (12) | (13) | (14) | (15) | (15A) | (16) | (17) | (18) | (19) |
| 01 | Y N DK 1 2 8 GO TO 14 | | Y N DK 1 2 8 GO TO 16 | | Y N DK 1 2 8 | Y N 1 2 ↓ NEXT LINE | LEVEL GRADE | Y N 1 2 ↓ NEXT LINE | LEVEL GRADE |
| 02 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 th | | 1 2 8 | 1 2 NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 03 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 04 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 05 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 06 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 07 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 08 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 09 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 10 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |

CODES FOR Qs. 17 AND 19: EDUCATION

- 1 = PRIMARY 2 = SECONDARY 3 = TECHNICAL/VOCATIONAL 4 = HIGHER 8 = DON'T KNOW

GRADE

00 = LESS THAN 1 YEAR COMPLETED

(USE '00' FOR Q. 17 ONLY.

THIS CODE IS NOT ALLOWED

FOR Q. 19)

98 = DON'T KNOW

NOTE:

IF PRIMARY OR SECONDARY, RECORD COMPLETED GRADE.

IF TECHNICAL/VOCATIONAL OR HIGHER, RECORD YEARS COMPLETED.

| | | | | | | | IF AGE 15 OR OLDER | | | | |
|---|--|--|------------------------------------|--|---|--|---|---|---|---|--|
| LINE NO. | USUAL RESIDENTS AND VISITORS | RELATIONSHIP TO HEAD OF HOUSEHOLD | SEX | RESI | DENCE | AGE | MARITAL STATUS | | ELIGIBILIT | ГҮ | |
| | Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household. AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE. THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-19 FOR EACH PERSON. | What is the relationship of (NAME) to the head of the household? SEE CODES BELOW. | Is (NAME) male or female? | Does (NAME) usually live here? | Did (NAME) stay here last night? | How old is (NAME)? IF 95 OR MORE, RECORD 95'. | What is (NAME'S) current marital status? 1 = MARRIED 2 = LIVING TOGETHER 3 = DIVORCED/ SEPARATED 4 = WIDOWED 5 = NEVER- MARRIED AND NEVER LIVED TOGETHER | CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49 | CIRCLE LINE NUMBER OF ALL MEN AGE 15-59 | CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5 | CIRCLE LINE NUMBER OF ALL CHILDREN AGE 5-14 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (11A) |
| 11 | | | M F 1 2 | Y N 1 2 | Y N 1 2 | IN YEARS | | 11 | 11 | 11 | 11 |
| 12 | | | 1 2 | 1 2 | 1 2 | | | 12 | 12 | 12 | 12 |
| 13 | | | 1 2 | 1 2 | 1 2 | | | 13 | 13 | 13 | 13 |
| 14 | | | 1 2 | 1 2 | 1 2 | | | 14 | 14 | 14 | 14 |
| 15 | | | 1 2 | 1 2 | 1 2 | | | 15 | 15 | 15 | 15 |
| 16 | | | 1 2 | 1 2 | 1 2 | | | 16 | 16 | 16 | 16 |
| 17 | | | 1 2 | 1 2 | 1 2 | | | 17 | 17 | 17 | 17 |
| 18 | | | 1 2 | 1 2 | 1 2 | | | 18 | 18 | 18 | 18 |
| 19 | | | 1 2 | 1 2 | 1 2 | | | 19 | 19 | 19 | 19 |
| 20 | | | 1 2 | 1 2 | 1 2 | | | 20 | 20 | 20 | 20 |
| TICK H | ERE IF CONTINUATION SHEET | USED | | | | CODES F | OR Q. 3: RELATIO | NSHIP TO H | EAD OF HO | USEHOLD | - |
| 2A) Just to make sure that I have a complete listing. Are there any other persons such as small children or infants that we have not listed? YES TABLE 2B) Are there any other people who may not be members of your family, such as domestic servants, lodgers, or friends who usually live here? YES TABLE 2C) Are there any guest or temporary visitors staying here, or anyone else who stayed here last YES TABLE TABLE 1. | | | | TO NO | | 03 = SON 0 04 = SON-II DAUG 05 = GRAN 06 = PAREI | HTER-IN-LAW DCHILD NT | 09 = NIECI 10 = OTHE 11 = ADOF | | E | |
| | | | | | | | | | | | |

| | | IF AGE (| 1-17 YEARS | | IF AGE 18-59 | | GE 5 YEARS OR OLDER | IF AG | E 5-24 YEARS |
|-------------|-----------------------------------|---|-----------------------------------|--|--|--|--|---|---|
| LINE NO. | SUI | | IND RESIDENCE AL PARENTS | OF | CHRONIC ILLNESS | | R ATTENDED SCHOOL | | CURRENT OOL ATTENDANCE |
| | Is (NAME)'s natural mother alive? | Does (NAME)'s natural mother usually live in this household or was she a guest last night? IF YES: What is her name? RECORD MOTHER'S LINE IF NO, RECORD '00'. | Is (NAME)'s natural father alive? | Does (NAME)'s natural father usually live in this household or was he a guest last night? IF YES: What is his name? RECORD FATHER'S LINE NUMBER. IF NO, RECORD '00'. | Has (NAME) been very sick for at least 3 months in the last 12 months? By very sick I mean has (NAME) been too sick to work or to carry out his/her normal activities at home? | Has (NAME) ever attended school? | What is the highest level of school (NAME) has attended? SEE CODES BELOW. What is the highest grade/ number of years (NAME) completed at that level? SEE CODES BELOW. | Did (NAME) attend school at any time during the 2003 E.C. school year? | During this school year, what level and grade/year is (NAME) attending? |
| | (12) | (13) | (14) | (15) | (15A) | (16) | (17) | (18) | (19) |
| 11 | Y N DK 1 2 8 GO TO 14 | | Y N DK 1 2 8 GO TO 16 | | Y N DK 1 2 8 | Y N 1 2 ↓ NEXT LINE | LEVEL GRADE | Y N 1 2 ↓ NEXT LINE | LEVEL GRADE |
| 12 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 13 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 14 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 VEXT LINE | | 1 2 ↓ NEXT LINE | |
| 15 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 16 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 17 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 18 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 19 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |
| 20 | 1 2 8 GO TO 14 | | 1 2 8 GO TO 16 | | 1 2 8 | 1 2 ↓ NEXT LINE | | 1 2 ↓ NEXT LINE | |

CODES FOR Qs. 17 AND 19: EDUCATION

GRADE

1 = PRIMARY

2 = SECONDARY 3 = TECHNICAL/VOC CERTIF 4 = HIGHER

8 = DON'T KNOW

00 = LESS THAN 1 YEAR COMPLETED

(USE '00' FOR Q. 17 ONLY. THIS CODE IS NOT ALLOWED FOR Q. 19).

98 = DON'T KNOW

NOTE:

IF PRIMARY OR SECONDARY, RECORD COMPLETED GRADE.
IF TECHNICAL/VOCATIONAL OR HIGHER, RECORD YEARS COMPLETED.

QUESTIONS ON CHILD LABOUR FOR CHILDREN AGE 5-14

| 20 | CHECK COLUMN 11A. RECORD THE LINE NUMBER AND AGE FOR ALL ELIGIBLE CHILDREN 5-14 YEARS IN QUESTION 21. IF MORE THAN THREE CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). THEN PROCEED TO ASK QUESTIONS 22-28 OF MOTHERS OR CARETAKERS OF THE CHILDREN. | | | | | | | |
|----|---|---|---|---|--|--|--|--|
| | | CHILD 1 | CHILD 2 | CHILD 3 | | | | |
| 21 | LINE NUMBER FROM COLUMN 1 | LINE NUMBER | LINE NUMBER | LINE NUMBER | | | | |
| | NAME FROM COLUMN 2 | NAME | NAME | NAME | | | | |
| 22 | During the past week, did (NAME) do any kind of work for someone who is not a member of this household? IF YES: Was (NAME) paid in cash, kind, or not paid? | YES, PAID IN CASH/ KIND | YES, PAID IN CASH/ KIND | YES, PAID IN CASH/ KIND | | | | |
| 23 | During the past week about how many hours did (NAME) do this work for someone who is not a member of this household? IF MORE THAN ONE JOB INCLUDE ALL HOURS AT ALL JOBS | NO OF HOURS | NO OF HOURS | NO OF HOURS | | | | |
| 24 | At any time during the past year did (NAME) do any kind of work for someone who is not a member of this household? IF YES: Was (NAME) paid in cash, kind, or not paid? | YES, PAID IN CASH/ KIND | YES, PAID IN CASH/ KIND | YES, PAID IN CASH/ KIND | | | | |
| 25 | During the past week did (NAME) help with household chores such as shopping, collecting fire wood, cleaning, or fetching water? | YES | YES | YES | | | | |
| 26 | During the past week how many hours did (NAME) spend doing these chores? | NO OF HOURS | NO OF HOURS | NO OF HOURS | | | | |
| 27 | During the past week did (NAME) do any other family work, such as on the farm or in a business or selling goods in the street? | YES | YES | YES | | | | |
| 28 | During the past week how many hours did (NAME) do this work? | NO OF HOURS (GO BACK TO 22 IN NEXTCOLUMN; OR IF NO MORE CHILDREN GO TO 101) | NO OF HOURS (GO BACK TO 22 IN NEXTCOLUMN ; OR IF NO MORE CHILDREN GO TO 101) | NO OF HOURS (GO BACK TO 22 IN THE FIRST COLUMN OF THE NEXT PAGE;OR, IF NO MORE CHILDREN, GO TO 101) | | | | |

QUESTIONS ON CHILD LABOUR FOR CHILDREN AGE 5-14

| 20 | CHECK COLUMN 11A. RECORD THE LINE NUMBER AND AGE FOR ALL ELIGIBLE CHILDREN 5-14 YEARS IN QUESTION 21. IF MORE THAN THREE CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). THEN PROCEED TO ASK QUESTIONS 22-28 OF MOTHERS OR CARETAKERS OF THE CHILDREN. | | | | | | |
|----|---|--|--|---|--|--|--|
| | | CHILD 4 | CHILD 5 | CHILD 6 | | | |
| 21 | LINE NUMBER FROM COLUMN 1 | LINE NUMBER | LINE NUMBER | LINE NUMBER | | | |
| | NAME FROM COLUMN 2 | NAME | NAME | NAME | | | |
| 22 | During the past week, did (NAME) do any kind of work for someone who is not a member of this household? IF YES: Was (NAME) paid in cash, kind, or not paid? | YES, PAID IN CASH/ KIND | YES, PAID IN CASH/ KIND | YES, PAID IN CASH/ KIND | | | |
| 23 | During the past week about how many hours did (NAME) do this work for someone who is not a member of this household? IF MORE THAN ONE JOB INCLUDE ALL HOURS AT ALL JOBS | NO OF HOURS | NO OF HOURS | NO OF HOURS | | | |
| 24 | At any time during the past year did (NAME) do any kind of work for someone who is not a member of this household? IF YES: Was (NAME) paid in cash, kind, or not paid? | YES, PAID IN CASH/ KIND | YES, PAID IN CASH/ KIND | YES, PAID IN CASH/ KIND | | | |
| 25 | During the past week did (NAME) help with household chores such as shopping, collecting fire wood, cleaning, or fetching water? | YES | YES 1 NO 2 (GO TO 27) | YES | | | |
| 26 | During the past week how many hours did (NAME) spend doing these chores? | NO OF HOURS | NO OF HOURS | NO OF HOURS | | | |
| 27 | During the past week did (NAME) do any other family work, such as on the farm or in a business or selling goods in the street? | YES | YES | YES | | | |
| 28 | During the past week how many hours did (NAME) do this work? | NO OF HOURS (GO BACK TO 22 IN NEXTCOLUMN; OR IF NO MORE CHILDREN GO TO 101) | NO OF HOURS (GO BACK TO 22 IN NEXTCOLUMN; OR IF NO MORE CHILDREN GO TO 101) | NO OF HOURS (GO BACK TO 22 IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE; OR, IF NO MORE CHILDREN, GO TO 101 | | | |

HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|---|---|-------------------|
| 101 | How often does anyone smoke inside your house? Would you say daily, weekly, monthly, less than monthly, or never? | DAILY 1 WEEKLY 2 MONTHLY 3 LESS THAN MONTHLY 4 NEVER 5 | |
| 102 | What is the main source of drinking water for members of your household? | PIPED WATER PIPED INTO DWELLING 11 PIPED TO YARD/PLOT 12 PUBLIC TAP/STANDPIPE 13 BOREHOLE 21 DUG WELL PROTECTED WELL 31 UNPROTECTED WELL 32 WATER FROM SPRING PROTECTED SPRING 41 UNPROTECTED SPRING 51 TANKER TRUCK 61 CART WITH SMALL TANK 71 SURFACE WATER RIVER/LAKE/POND/STREAM/DAM 81 BOTTLED WATER 91 OTHER 96 (SPECIFY) | 105 103 103 |
| 102A | What is the main source of water used by your household for other purposes such as cooking and handwashing? | PIPED WATER PIPED INTO DWELLING 11 PIPED TO YARD/PLOT 12 PUBLIC TAP/STANDPIPE 13 BOREHOLE 21 DUG WELL PROTECTED WELL 31 UNPROTECTED WELL 32 WATER FROM SPRING PROTECTED SPRING 41 UNPROTECTED SPRING 51 TANKER TRUCK 61 CART WITH SMALL TANK 71 SURFACE WATER RIVER/LAKE/POND/STREAM/DAN 81 OTHER 96 | 105 |
| 103 | Where is that water source located? | IN OWN DWELLING 1 IN OWN YARD/PLOT 2 ELSEWHERE 3 | 105 |
| 104 | How long does it take to go there, get water, and come back? | MINUTES | |
| 104A | Who usually goes to this source to fetch the water for your household? | ADULT WOMAN 1 ADULT MAN 2 FEMALE CHILD UNDER 15 YEARS OLD 3 MALE CHILD UNDER 15 YEARS OLD 4 OTHER 6 (SPECIFY) | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|---|-------|
| 105 | Do you do anything to the water to make it safer to drink? | YES | 107 |
| 106 | What do you usually do to make the water safer to drink? | BOIL A ADD BLEACH/CHLORINE/ WATER GUARD/PUR/ | |
| | Anything else? | BISHAN GARI/AQUATABS B STRAIN THROUGH A CLOTH C BIO SAND /COMPOSITE/ CERAMIC POT FILTER D | |
| | RECORD ALL MENTIONED. | SOLAR DISINFECTION E LET IT STAND AND SETTLE F | |
| | | OTHER X (SPECIFY) Z | |
| 107 | What kind of toilet facility do members of your household usually use? IF THE RESPONDENT DOES NOT UNDERSTAND WHICH TYPE OF TOILET THEY HAVE, ASK TO OBSERVE THE TOILET FACILITY AND CIRCLE THE APPROPRIATE CODE. | FLUSH OR POUR FLUSH TOILET FLUSH TO PIPED SEWER SYSTEM | → 110 |
| 108 | Do you share this toilet facility with other households? | YES | → 110 |
| 109 | How many households use this toilet facility? | NO. OF HOUSEHOLDS IF LESS THAN 10 0 10 OF MORE HOUSEHOLDS | |
| 110 | Does your household have: Electricity? A watch/clock? A radio? A television? A mobile telephone? A non-mobile telephone? A refrigerator? A table? A chair? A bed with cotton/sponge/spring mattress? An electric mitad? A kerosene lamp/pressure lamp? | YES NO | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|---|--------------|
| 111 | What type of fuel does your household mainly use for cooking? | ELECTRICITY 01 LPG 02 NATURAL GAS 03 BIOGAS 04 KEROSENE 05 CHARCOAL 06 WOOD 07 STRAW/SHRUBS/GRASS 08 AGRICULTURAL CROP 09 ANIMAL DUNG 10 NO FOOD COOKED IN HOUSEHOLD 95 OTHER 96 (SPECIFY) | > 114 |
| 112 | Is the cooking usually done in the house, in a separate building, or outdoors? | IN THE HOUSE | → 114 |
| 113 | Do you have a separate room which is used as a kitchen? | YES | |
| 114 | MAIN MATERIAL OF THE FLOOR. RECORD OBSERVATION. | NATURAL FLOOR | |
| 115 | MAIN MATERIAL OF THE ROOF. RECORD OBSERVATION. | NATURAL ROOFING NO ROOF 11 THATCH/LEAF/MUD 12 RUDIMENTARY ROOFING 12 RUSTIC MAT/PLASTIC SHEETS 21 REED/BAMBOO 22 WOOD PLANKS 23 CARDBOARD 24 FINISHED ROOFING 31 CORRUGATED IRON /METAL 31 WOOD 32 ASBESTOS/CEMENT FIBER 33 CEMENT/CONCRETE 34 ROOFING SHINGLES 35 OTHER 96 (SPECIFY) | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | |
|-----|---|--|--------------|
| 116 | MAIN MATERIAL OF THE EXTERIOR WALLS. | NATURAL WALLS NO WALLS | |
| | RECORD OBSERVATION. | CANE/TRUNKS/BAMBOO/REED12 | |
| | | DIRT13 RUDIMENTARY WALLS | |
| | | BAMBOO/WOOD WITH MUD | |
| | | UNCOVERED ADOBE | |
| | | PLYWOOD | |
| | | REUSED WOOD | |
| | | CEMENT | |
| | | BRICKS33 | |
| | | CEMENT BLOCKS 34 COVERED ADOBE 35 | |
| | | WOOD PLANKS/SHINGLES36 | |
| | | OTHER96 (SPECIFY) | |
| | | (SPECIFT) | |
| 117 | How many rooms in this household are used for sleeping? | ROOMS | |
| 118 | Does any member of this household own: | YES NO | |
| | A bicycle? | BICYCLE 1 2 | |
| | A motorcycle or motor scooter? An animal-drawn cart? | MOTORCYCLE/SCOOTER 1 2 ANIMAL-DRAWN CART 1 2 | |
| | A car or truck? | CAR/TRUCK 1 2 | |
| 119 | Does any member of this household own any agricultural land? | YES | → 121 |
| 120 | How many (LOCAL UNITS) of agricultural land do members of this household own? | | |
| | LOCAL UNITS | | |
| | (SPECIFY) | LOCAL UNITS | |
| | IF 95 OR MORE CIRCLE '950' | 95 OR MORE LOCAL UNITS | |
| 121 | Does this household own any livestock, herds, other farm animals, or poultry? | YES | → 123 |
| 122 | How many of the following animals does this household | | |
| | own? IF NONE, ENTER '00'. | | |
| | IF MORE THAN 95, ENTER '95'. IF UNKNOWN, ENTER '98'. | | |
| | Milk cows, oxen or bulls? | COWS/BULLS/OXEN | |
| | Horses, donkeys, or mules? | HORSES/DONKEYS/MULES | |
| | Camels? | CAMELS | |
| | Goats? | GOATS | |
| | Sheep? | SHEEP | |
| | Chickens? | CHICKENS | |
| | Beehives? | BEEHIVES | |
| | | | |
| 123 | Does any member of this household have a bank or | YES 1 | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|--|------|
| 124 | Please show me where members of your household most often wash their hands. | OBSERVED | 127 |
| 125 | OBSERVATION ONLY: OBSERVE PRESENCE OF WATER AT THE SPECIFIC PLACE FOR HANDWASHING. | WATER IS AVAILABLE | |
| 126 | OBSERVATION ONLY: OBSERVE PRESENCE OF SOAP. | SOAP OR DETERGENT (BAR, LIQUID, POWDER, PASTE) A ASH, MUD, SAND B NONE C | |
| 127 | ASK RESPONDENT FOR A TEASPOONFUL OF COOKING SALT. TEST SALT FOR IODINE. | IODINE PRESEN* | |

WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5

| 201 | CHECK COLUMN 11. RECORD THE LINE NUMBER AND AGE FOR ALL ELIGIBLE CHILDREN 0-5 YEARS IN QUESTION 202. IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). | | | | |
|-----|--|--|---|--|--|
| | | CHILD 1 | CHILD 2 | CHILD 3 | |
| 202 | LINE NUMBER FROM COLUMN 11 NAME FROM COLUMN 2 | LINE NUMBER | LINE NUMBER | LINE NUMBER | |
| 203 | IF MOTHER INTERVIEWED, COPY MONTH AND YEAR FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK: What is (NAME'S) birth date? | DAY MONTH YEAR | DAY MONTH YEAR | DAY MONTH YEAR | |
| 204 | CHECK 203: CHILD BORN IN MESKEREM 1998 OR LATER? | YES | YES | YES | |
| 205 | WEIGHT IN KILOGRAMS. | KG | KG | KG | |
| | | REFUSED 9995 OTHER 9996 | REFUSED 9995 OTHER 9996 | REFUSED 9995 OTHER 9996 | |
| 206 | HEIGHT IN CENTIMETERS | см | см | см | |
| | | NOT PRESENT 9994 REFUSED 9995 OTHER 9996 | NOT PRESENT 9994 REFUSED 9995 OTHER 9996 | NOT PRESENT 9994 REFUSED 9995 OTHER 9996 | |
| 207 | MEASURED LYING DOWN OR STANDING UP? | LYING DOWN | LYING DOWN | LYING DOWN | |
| 208 | CHECK 203: IS CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR FIVE PREVIOUS MONTHS? | 0-5 MONTHS | 0-5 MONTHS | 0-5 MONTHS | |
| 209 | LINE NUMBER OF PARENT/OTHER ADULT RESPONSIBLE FOR THE CHILD (COLUMN 1 OF HOUSEHOLD SCHEDULE) RECORD '00' IF NOT LISTED. | LINE NUMBER | LINE NUMBER | LINE NUMBER | |
| 210 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT IDENTIFIED IN 209 AS RESPONSIBLE FOR CHILD. | Anemia is a serious health pro | asking people all over the countr blem that usually results from po y will assist the government to d | oor nutrition, infection, | |
| | | part of this survey and give a | orn in Meskerem 1998 or later pa few drops of blood from a finge d completely safe. It has never b test. | r. The equipment used | |
| | | | emia immediately, and the result confidential and will not be share eam. | | |
| | | | you can say no. It is up to you t | | |
| 211 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED 1 (SIGN) | GRANTED 1 | GRANTED 1 (SIGN) | |
| 212 | RECORD HEMOGLOBIN LEVEL | REFUSED 2 | REFUSED 2 | REFUSED 2 | |
| | HERE AND IN THE ANEMIA PAMPHLET. | G/DL | G/DL | G/DL | |
| | | REFUSED995 OTHER996 | REFUSED | REFUSED995 OTHER996 | |
| 213 | GO BACK TO 203 IN NEXT COLUMN OF CHILDREN, GO TO 214. | THIS QUESTIONNAIRE OR IN | THE FIRST COLUMN OF THE N | NEXT PAGE; IF NO MORE | |

WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5

| | | CHILD 4 | CHILD 5 | CHILD 6 | | |
|-----|--|--|--|---|--|--|
| 202 | LINE NUMBER FROM COLUMN 11 | LINE | LINE | LINE | | |
| | NAME FROM COLUMN 2 | NUMBER NAME | NUMBER NAME | NUMBER NAME | | |
| 203 | IF MOTHER INTERVIEWED, COPY MONTH AND YEAR FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK: What is (NAME'S) birth date? | MONTH | MONTH | MONTH | | |
| 204 | CHECK 203: CHILD BORN IN MESKEREM 1998 OR LATER | YES | YES | YES | | |
| 205 | WEIGHT IN KILOGRAMS. | KG | KG | KG | | |
| 206 | HEIGHT IN CENTIMETERS | CM | CM | CM | | |
| 207 | MEASURED LYING DOWN OR STANDING UP? | LYING DOWN | LYING DOWN | LYING DOWN | | |
| 208 | CHECK 203: IS CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR FIVE PREVIOUS MONTHS? | 0-5 MONTHS | 0-5 MONTHS | 0-5 MONTHS 1 (GO TO 203 IN FIRST COLUMN OF NEW QUESTIONNAIRE; OR, ↓ IF NO MORE CHILDREN, GO TO 214) OLDER 2 | | |
| 209 | LINE NUMBER OF PARENT/ OTHER ADULT RESPONSIBLE FOR THE CHILD (FROM COLUMN 1 OF HOUSEHOLD SCHEDULE) RECORD '00' IF NOT LISTED. | LINE NUMBER | LINE NUMBER | LINE NUMBER | | |
| 210 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT IDENTIFIED IN 209 AS RESPONSIBLE FOR CHILD. | Anemia is a serious health pro or chronic disease. This surve prevent and treat anemia. We request that all children bc part of this survey and give a in taking the blood is clean and will be thrown away after each The blood will be tested for an The result will be kept strictly than members of our survey te Do you have any questions? You can say yes to the test, or | emia immediate confidential and will not be share | for nutrition, infection, evelop programs to surticipate in the anemia testing r. The equipment used een used before and add with anyone other to decide. | | |
| 211 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED 1 (SIGN) 1 REFUSED | GRANTED 1 (SIGN) REFUSED 2 | GRANTED | | |
| 212 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA PAMPHLET. GO BACK TO 203 IN NEXT COLUMN IN T | G/DL | G/DL | G/DL | | |
| 213 | GO BACK TO 203 IN NEXT COLUMN IN THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF THE ADDITIONAL QUESTIONNAIRE IF NO MORE CHILDREN, GO TO 214. | | | | | |

WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR WOMEN AGE 15-49 214 CHECK COLUMN 9 IN HOUSEHOLD SCHEDULE, RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE WOMEN IN 215. IF THERE ARE MORE THAN THREE WOMEN, USE ADDITIONAL QUESTIONNAIRE(S), WOMAN 3 WOMAN 1 WOMAN 2 LINE NUMBER 215 LINE LINE LINE NUMBER NUMBER NUMBER (COLUMN 9) NAME (COLUMN 2) NAME NAME NAME 216 WEIGHT IN KILOGRAMS KG. KG KG NOT PRESENT 99994 NOT PRESENT 99994 NOT PRESENT 99994 REFUSED 99995 REFUSED REFUSED 99995 99995 OTHER OTHER 99996 OTHER 99996 99996 HEIGHT IN CENTIMETERS CM. CM. CM. NOT PRESENT NOT PRESENT NOT PRESENT 9994 9994 9994 REFUSED REFUSED REFUSED 9995 9995 9995 OTHER 9996 OTHER 9996 OTHER 9996 15-17 YEARS 15-17 YEARS 15-17 YEARS 218 AGE: CHECK 18-49 YEARS 18-49 YEARS 18-49 YEARS COLUMN 7. (GO TO 223) ← (GO TO 223) 귙 CODE 5 (NEVER IN UNION) 1 CODE 5 (NEVER IN UNION) 1 219 MARITAL STATUS: CODE 5 (NEVER IN UNION) 1 (GO TO 223) ← OTHER (GO TO 223) ← OTHER OTHER CHECK COLUMN 8. (GO TO 223) 🚚 220 RECORD LINE NUMBER OF PARENT/OTHER ADULT RESPON-SIBLE FOR LINE NUMBER OF LINE NUMBER OF LINE NUMBER OF ADOLESCENT. PARENT OR OTHER PARENT OR OTHER PARENT OR OTHER RECORD '00' RESPONSIBLE ADULT RESPONSIBLE ADULT RESPONSIBLE ADULT IF NOT LISTED. ASK CONSENT As part of this survey, we are asking people all over the country to take an anemia test. FOR Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. ANEMIA TEST FROM PARENT/ This survey will assist the government to develop programs to prevent and treat anemia. OTHER ADULT For the anemia testing, we will need a few drops of blood from a finger. IDENTIFIED IN 220 The equipment used in taking the blood is clean and completely safe. AS RESPONSIBLE It has never been used before and will be thrown away after each test. FOR The blood will be tested for anemia immediately, and the result told to you and to (NAME OF ADOLESCENT) right away. NEVER IN LINION The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team. WOMEN AGE 15-17. Do you have any questions? You can say yes to the test for (NAME OF ADOLESCENT), or you can say no. It is up to you to decide.

Will you allow (NAME OF ADOLESCENT) to take the anemia test?

PARENT/OTHER RESPONSIBLE

(SIGN)

ADULT REFUSED 2

(IF REFUSED, GO TO 228)

GRANTED

PARENT/OTHER RESPONSIBLE

(SIGN)

ADULT REFUSED 2

(IF REFUSED, GO TO 228).

GRANTED

PARENT/OTHER RESPONSIBLE

ADULT REFUSED

(SIGN)

(IF REFUSED, GO TO 228).

CIRCLE THE

CODE AND

SIGN YOUR NAME.

APPROPRIATE

2

| | | WOMAN 1 | WOMAN 2 | WOMAN 3 | |
|-----|---|--|---|--|--|
| | LINE NUMBER (COLUMN 9) | LINE NUMBER | LINE NUMBER | LINE NUMBER | |
| | NAME (COLUMN 2) | NAME | NAME | NAME | |
| 223 | ASK CONSENT FOR ANEMIA TEST FROM RESPONDENT. | This survey will assist the government to de For the anemia testing, we will need a few of The equipment used in taking the blood is of It has never been used before and will be th The blood will be tested for anemia immedia | ually results from poor nutrition, infection, or chevelop programs to prevent and treat anemia. drops of blood from a finger. lean and completely safe. srown away after each test. ately, and the result told to you right away. The one other than members of our survey team. | | |
| 224 | CIRCLE THE APPROPRIATE CODE AND SIGN | GRANTED | GRANTED | GRANTED | |
| | YOUR NAME. | (SIGN) | (SIGN) | (SIGN) | |
| | | (IF REFUSED, GO TO 226). | (IF REFUSED, GO TO 226). | (IF REFUSED, GO TO 226). | |
| 225 | PREGNANCY STATUS: CHECK 226 IN WOMAN'S QUESTIONNAIRE OR ASK: Are you pregnant? | YES | YES | YES | |
| 226 | AGE: CHECK CHECK 218. | 15-17 YEARS | 15-17 YEARS | 15-17 YEARS | |
| 227 | MARITAL STATUS: CHECK 219. | CODE 5 (NEVER IN UNION) | CODE 5 (NEVER IN UNION) | CODE 5 (NEVER IN UNION) 1 OTHER 2 (GO TO 230) ← | |
| 228 | ASK CONSENT FOR DBS COLLECTION FROM PARENT/ OTHER ADULT IDENTIFIED IN 220 AS RESPONSIBLE FOR NEVER IN UNION WOMEN AGE 15-17. | For the HIV test, we need a few (more) drop safe. It has never been used before and will you the test results. No one else will be able wants to know her HIV status, I can provide voucher for free services that can be used a FOR SAMPLE CLUSTERS IN WHICH MOE has also arranged for health workers to offe The kebele leader will know when and wher Do you have any questions? If you want to ask more questions later or w due to the study, I can give you information | BILE VCT SERVICES WILL BE AVAILABLE: r VCT services in this community shortly after re the VCT service will be available. ant to know who to talk with if (NAME OF ADO about how to contact the Regional Office of th MATION FOR CSA REGIONAL OFFICE IF RIND. It is up to you to decide. | to take the blood is clean and completely ill be attached so we will not be able to tell sults either. If (NAME OF ADOLESCENT) and testing for HIV. I will also give her a The Ministry of Health our survey team leaves the area. DLESCENT) has any problem in CSA. | |
| 229 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED 1— PARENT/OTHER RESPONSIBLE ADULT REFUSED 2— (SIGN) (IF REFUSED, GO TO 239) | GRANTED 1— PARENT/OTHER RESPONSIBLE ADULT REFUSED 2— (SIGN) (IF REFUSED, GO TO 239) | GRANTED 1— PARENT/OTHER RESPONSIBLE ADULT REFUSED 2— (SIGN) (IF REFUSED, GO TO 239) | |

| | | WOMAN 1 | WOMAN 2 | WOMAN 3 | |
|-----|---|--|--|--|--|
| | LINE NUMBER (COLUMN 9) | LINE NUMBER | LINE NUMBER | LINE NUMBER | |
| | NAME (COLUMN 2) | NAME | NAME | NAME | |
| 230 | ASK CONSENT FOR DBS COLLECTION FROM RESPONDENT. | For the HIV test, we need a few (more) drop safe. It has never been used before and will you the test results. No one else will be able you with a list of [nearby] facilities offering of for your partner if you want) that you can use FOR SAMPLE CLUSTERS IN WHICH MORE has also arranged for health workers to offe The kebele leader will know when and where Do you have any questions? If you want to ask more questions later or we due to the study, I can give you information | BILE VCT SERVICES WILL BE AVAILABLE: r VCT services in this community shortly after re the VCT service will be available. ant to know who to talk with if you have any prabout how to contact the Regional Office of the MATION FOR CSA REGIONAL OFFICE IF RE | to take the blood is clean and completely II be attached so we will not be able to tell to know whether you have HIV, I can provide you a voucher for free services for you (and The Ministry of Health our survey team leaves the area. | |
| 231 | CIRCLE THE APPROPRIATE CODE, SIGN YOUR NAME, AND ENTER YOUR INTERVIEWER NUMBER. | GRANTED 1 RESPONDENT REFUSED 2 (SIGN) (IF REFUSED, GO TO 239) | GRANTED 1 RESPONDENT REFUSED 2 (SIGN) (IF REFUSED, GO TO 239) | GRANTED 1 RESPONDENT REFUSED 2 (SIGN) (IF REFUSED, GO TO 239) | |
| 232 | AGE: CHECK 218. | 15-17 YEARS | 15-17 YEARS | 15-17 YEARS | |
| 233 | MARITAL STATUS: CHECK 219. | CODE 5 (NEVER IN UNION) | CODE 5 (NEVER IN UNION) | CODE 5 (NEVER IN UNION) | |
| 234 | ASK CONSENT FOR ADDITIONAL TESTING FROM PARENT/OTHER ADULT IDENTIFIED IN 220 AS RESPONSIBLE FOR NEVER-IN-UNION WOMEN AGE 15-17. | not certain about what additional tests migh The blood sample will not have any name o not be able to tell (NAME OF ADOLESCEN | o store part of the blood sample at the laborate to be done. r other data attached that could identify (NAMIT) the results of any test that is done. You do a you can still participate in the HIV testing in this | E OF ADOLESCENT). Therefore, we will not have to agree. If you do not want the | |
| 235 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED 1— PARENT/OTHER RESPONSIBLE ADULT REFUSED 2— (SIGN) (IF REFUSED, GO TO 238) | GRANTED 1— PARENT/OTHER RESPONSIBLE ADULT REFUSED 2— (SIGN) (IF REFUSED, GO TO 238) | GRANTED 1— PARENT/OTHER RESPONSIBLE ADULT REFUSED 2— (SIGN) (IF REFUSED, GO TO 238) | |

| | | WOMAN 1 | WOMAN 2 | WOMAN 3 |
|-----|---|--|--|--|
| | LINE NUMBER (COLUMN 9) | LINE NUMBER | LINE NUMBER | LINE NUMBER |
| | NAME (COLUMN 2) | NAME | NAME | NAME |
| 236 | ASK CONSENT FOR ADDITIONAL TESTING FROM RESPONDENT. | not certain about what additional tests might The blood sample will not have any name o | o store part of the blood sample at the laborate to be done. r other data attached that could identify you. Ying, you can still participate in the HIV testing in | ou do not have to agree. If you do not want |
| 237 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED 1 RESPONDENT REFUSED 2 (SIGN) | GRANTED 1 RESPONDENT REFUSED 2 (SIGN) | GRANTED 1 RESPONDENT REFUSED 2 (SIGN) |
| | | (IF GRANTED, GO TO 239) | (IF GRANTED, GO TO 239) | (IF GRANTED, GO TO 239) |
| 238 | ADDITIONAL TESTS | CHECK 235 AND 237: IF CONSENT HAS NOT BEEN GRANTED WRITE "NO ADDITIONAL TEST" ON THE FILTER PAPER. | CHECK 235 AND 237: IF CONSENT HAS NOT BEEN GRANTED WRITE "NO ADDITIONAL TEST" ON THE FILTER PAPER. | CHECK 235 AND 237: IF CONSENT HAS NOT BEEN GRANTED WRITE "NO ADDITIONAL TEST" ON THE FILTER PAPER. |
| 239 | PREPARE EQUIPME | NT AND SUPPLIES ONLY FOR THE TEST(S |) FOR WHICH CONSENT HAS BEEN OBTAI | NED AND PROCEED WITH THE TEST(S). |
| 240 | RECORD HEMO- GLOBIN LEVEL HERE AND IN ANEMIA PAMPHLET | G/DL | G/DL | G/DL |
| 241 | BAR CODE LABEL | PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT 99994 REFUSED 99995 OTHER 99996 PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM. | PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT 99994 REFUSED 99995 OTHER 99996 PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM. | PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT 99994 REFUSED 99995 OTHER 99996 PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM. |
| 242 | GO BACK TO 216 IN I WOMEN, GO TO 243. | NEXT COLUMN OF THIS QUESTIONNAIRE | OR IN THE FIRST COLUMN OF AN ADDITIO | DNAL QUESTIONNAIRE; IF NO MORE |

MINIMUM HEMOGLOBIN LEVELS FOR ANEMIA

CHECK THE COVER PAGE OF THE HOUSEHOLD QUESTIONNAIRE FOR THE ALTITUDE MEASUREMENT OF THE HOUSEHOLD ADJUST THE CUTOFF POINT OF THE READING FROM THE HEMOCUE MACHINE BASED ON THE ALTITUDE MEASUREMENT

| HEMOGLOBIN ADJUSTMENTS FOR ALTITUDE | | | | | | |
|-------------------------------------|-----------|----------|------------------------|--------------------|---------------------------|-----------------------|
| Altitude of the Place | Severe | Moderate | Mild (non-pregnant) | Mild (pregnant) | Not anemic (non-pregnant) | Not anemic (pregnant) |
| Less than 1000 metres | <7.0 g/dl | 7.0-9.9 | 10.0-11.9 | 10.0-10.9 | 12.0> | 11.0> |
| 1000 metres – 1499 metres | <7.2 g/dl | 7.2-10.1 | 10.2-12.1 | 10.2-11.1 | 12.2> | 11.2> |
| 1500 metres – 1999 metres | <7.5 g/dl | 7.5-10.4 | 10.5-12.4 | 10.5-11.4 | 12.5> | 11.5> |
| 2000 metres – 2499 metres | <7.8 g/dl | 7.8-10.7 | 10.8-12.7 | 10.8-11.7 | 12.8> | 11.8> |
| 2500 metres – 2999 metres | <8.3 g/dl | 8.3-11.2 | 11.3-13.2 | 11.3-12.2 | 13.3> | 12.3> |
| 3000 metres – 3499 metres | <8.9 g/dl | 8.9-11.8 | 11.9-13.8 | 11.9-12.8 | 13.9> | 12.9> |
| 3500 metres – 3999 metres | <9.7 g/dl | 9.7-12.6 | 12.7-14.6 | 12.7-13.6 | 14.7> | 13.7> |

WEIGHT HEIGHT HEMOGLOBIN MEASUREMENT AND HIV TESTING FOR MEN AGE 15-59

| | WEIGHT, HEIMOGLOBIN MEASUREMENT AND HIV TESTING FOR MEN AGE 15-59 | | | | |
|-----|--|--|--|--|--|
| 243 | | IN HOUSEHOLD SCHEDULE. RECORD THE E THAN THREE MEN, USE ADDITIONAL QU | | BLE MEN IN 244. | |
| | | MAN 1 | MAN 2 | MAN 3 | |
| 244 | LINE NUMBER FROM COLUMN 10 NAME FROM COLUMN 2 | LINE NUMBER NAME | LINE NUMBER NAME | NAME | |
| 245 | WEIGHT IN KILOGRAMS | KG | KG | KG | |
| 246 | HEIGHT IN CENTIMETERS | CM. 9994 NOT PRESENT 9995 REFUSED 9995 OTHER 9996 | CM. . NOT PRESENT 9994 REFUSED 9995 OTHER 9996 | CM 9994 REFUSED 9995 OTHER 9996 | |
| 247 | AGE: CHECK COLUMN 7. | 15-17 YEARS | 15-17 YEARS | 15-17 YEARS | |
| 248 | MARITAL STATUS: CHECK COLUMN 8. | CODE 5 (NEVER IN UNION) 1 OTHER 2 (GO TO 252) ← J | CODE 5 (NEVER IN UNION) 1 OTHER | CODE 5 (NEVER IN UNION) | |
| 249 | RECORD LINE NUMBER OF PARENT/OTHER ADULT RESPON- SIBLE FOR ADOLESCENT. RECORD '00' IF NOT LISTED. | LINE NUMBER OF PARENT OR OTHER RESPONSIBLE ADULT | LINE NUMBER OF PARENT OR OTHER RESPONSIBLE ADULT | LINE NUMBER OF PARENT OR OTHER RESPONSIBLE ADULT | |
| 250 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/ OTHER ADULT IDENTIFIED IN 249 AS RESPONSIBLE FOR NEVER IN UNION MEN AGE 15-17. | As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia. For the anemia testing, we will need a few drops of blood from a finger. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The blood will be tested for anemia immediately, and the result will be told to you and (NAME OF ADOLESCENT) right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team. Do you have any questions? You can say yes to the test for (NAME OF ADOLESCENT), or you can say no. It is up to you to decide. Will you allow (NAME OF ADOLESCENT) to take the anemia test? | | | |
| 251 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED | GRANTED | GRANTED 1→ PARENT/OTHER RESPONSIBLE ADULT REFUSED 2→ | |
| | | (SIGN) (IF REFUSED, GO TO 256) | (SIGN) (IF REFUSED, GO TO 256) | (SIGN) (IF REFUSED, GO TO 256) | |

| | | MAN 1 | MAN 2 | MAN 3 | |
|-----|---|---|---|---|--|
| | LINE NUMBER FROM COLUMN 10 | LINE NUMBER | LINE NUMBER | LINE NUMBER | |
| | NAME FROM COLUMN 2 | NAME | NAME | NAME | |
| 252 | ASK CONSENT FOR ANEMIA TEST FROM RESPONDENT. | results from poor nutrition, infection, or chrot treat anemia. For the anemia testing, we will need a few d safe. It has never been used before and will | all over the country to take an anemia test. Ar nic disease. This survey will assist the governr rops of blood from a finger. The equipment us be thrown away after each test. The blood will alt will be kept strictly confidential and will not b no. It is up to you to decide. | nent to develop programs to prevent and ed to take the blood is clean and completely be tested for anemia immediately, and the | |
| 253 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED 1 RESPONDENT REFUSED 2 (SIGN) | GRANTED 1 RESPONDENT REFUSED 2 (SIGN) | GRANTED 1—RESPONDENT REFUSED 2—(SIGN) | |
| 254 | AGE: CHECK COLUMN 7. | 15-17 YEARS | 15-17 YEARS | 15-17 YEARS | |
| 255 | MARITAL STATUS: CHECK COLUMN 8. | CODE 5 (NEVER IN UNION) 1 OTHER 2 (GO TO 258) ← J | CODE 5 (NEVER IN UNION) | CODE 5 (NEVER IN UNION) 1 OTHER | |
| 256 | ASK CONSENT FOR DBS COLLECTION FROM PARENT/ OTHER ADULT IDENTIFIED IN 247 AS RESPONSIBLE FOR NEVER IN UNION MEN AGE 15-17. | very serious illness. The HIV test is being do For the HIV test, we need a few (more) drop safe. It has never been used before and will you the test results. No one else will be able wants to know his HIV status, I can provide voucher for free services that can be used a FOR SAMPLE CLUSTERS IN WHICH MOE has also arranged for health workers to offer The kebele leader will know when and where Do you have any questions? If you want to ask more questions later or we due to the study, I can give you information a | BILE VCT SEERVICES WILL BE AVAILABLE: r VCT services in this communicty shortly after e the VCT service will be available. ant to know who to talk with if (NAME OF ADO about how to contact the Regional Office of the MATION FOR CSA REGIONAL OFFICE IF RE no. It is up to you to decide. | to take the blood is clean and completely be attached so we will not be able to tell sults either. If (NAME OF ADOLESCENT) and testing for HIV. I will also give him a The Ministry of Health our survey team leaves the area. | |
| 257 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED 1 PARENT/OTHER RESPONSIBLE ADULT REFUSED 2 (SIGN) | GRANTED 1 PARENT/OTHER RESPONSIBLE ADULT REFUSED 2 (SIGN) | GRANTED 1 PARENT/OTHER RESPONSIBLE ADULT REFUSED 2 (SIGN) | |
| | | (IF REFUSED, GO TO 267) | (IF REFUSED, GO TO 267) | (IF REFUSED, GO TO 267) | |

| | | MAN 1 | MAN 2 | MAN 3 | |
|-----|---|--|---|--|--|
| | LINE NUMBER FROM COLUMN 10 | LINE NUMBER | LINE NUMBER | LINE NUMBER | |
| | NAME FROM | NUMBER | NONIBER | NOWIDER | |
| | COLUMN 2 | NAME | NAME | NAME | |
| 258 | ASK CONSENT FOR DBS COLLECTION FROM RESPONDENT. | As part of the survey we are also asking people all over the country to take an HIV test. HIV is the virus that causes AIDS. AIDS is a very serious illness. The HIV test is being done to see how big the AIDS problem is in Ethiopia. For the HIV test, we need a few (more) drops of blood from a finger. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. No names will be attached so we will not be able to tell you the test results. No one else will be able to know your test results either. If you want to know whether you have HIV, I can provide you with a list of [nearby] facilities offering counseling and testing for HIV. I will also give you a voucher for free services for you (and for your partner if you want) that you can use at any of these facilities. FOR SAMPLE CLUSTERS IN WHICH MOBILE VCT SERVICES WILL BE AVAILABLE: The Ministry of Health has also arranged for health workers to offer VCT services in this community shortly after our survey team leaves the area. The kebele leader will know when and where the VCT service will be available. Do you have any questions? | | | |
| | | due to the study, I can give you information | rant to know who to talk with if you have any proabout how to contact the Regional Office of the MATION FOR CSA REGIONAL OFFICE IF RE | e CSA. | |
| 259 | CIRCLE THE APPROPRIATE CODE, SIGN YOUR NAME, | GRANTED 1 RESPONDENT REFUSED 2 | GRANTED | GRANTED 1 RESPONDENT REFUSED 2 | |
| | AND ENTER YOUR INTERVIEWER NUMBER. | (SIGN) | (SIGN) | (SIGN) | |
| | | (IF REFUSED, GO TO 267) | (IF REFUSED, GO TO 267) | (IF REFUSED, GO TO 267) | |
| 260 | AGE: CHECK COLUMN 7. | 15-17 YEARS | 15-17 YEARS | 15-17 YEARS | |
| 261 | MARITAL STATUS: CHECK COLUMN 8. | CODE 5 (NEVER IN UNION) 1 OTHER | CODE 5 (NEVER IN UNION) 1 OTHER | CODE 5 (NEVER IN UNION) | |
| 262 | ASK CONSENT FOR ADDITIONAL TESTING FROM PARENT/OTHER ADULT IDENTIFIED IN 220 AS RESPONSIBLE FOR NEVER-IN-UNION MEN AGE 15-17. | not certain about what additional tests might The blood sample will not have any name or be able to tell (NAME OF ADOLESCENT) the | o store part of the blood sample at the laborate to be done. r other data attached that could identify (NAME he results of any test that is done. You do not he still participate in the HIV testing in this surve | E OF ADOLESCENT). Therefore, we will not have to agree. If you do not want the blood | |
| 263 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED 1— PARENT/OTHER RESPONSIBLE ADULT REFUSED 2— (SIGN) | GRANTED | GRANTED 1— PARENT/OTHER RESPONSIBLE ADULT REFUSED 2 (SIGN) | |
| | | (IF REFUSED, GO TO 266) | (IF REFUSED, GO TO 266) | (IF REFUSED, GO TO 266) | |
| 264 | ASK CONSENT FOR ADDITIONAL TESTING FROM RESPONDENT. | not certain about what additional tests might The blood sample will not have any name or | o store part of the blood sample at the laborate to be done. r other data attached that could identify you. You, you can still participate in the HIV testing in | ou do not have to agree. If you do not want | |

| | | MAN 1 | MAN 2 | MAN 3 |
|-----|--|---|---|---|
| | LINE NUMBER FROM COLUMN 10 NAME FROM | LINE NUMBER | LINE NUMBER | LINE NUMBER |
| | COLUMN 2 | NAME | NAME | NAME |
| 265 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. | GRANTED 1— RESPONDENT REFUSED 2— | GRANTED 1 — RESPONDENT REFUSED 2 — | GRANTED 1— RESPONDENT REFUSED 2— |
| | | (SIGN) | (SIGN) | (SIGN) |
| | | (IF GRANTED, GO TO 267) | (IF GRANTED, GO TO 267) | (IF GRANTED, GO TO 267) |
| 266 | ADDITIONAL TESTS | CHECK 263 AND 265: | CHECK 263 AND 265: | CHECK 263 AND 265: |
| | | IF CONSENT HAS NOT BEEN GRANTED WRITE "NO ADDITIONAL TEST" ON THE FILTER PAPER. | IF CONSENT HAS NOT BEEN GRANTED WRITE "NO ADDITIONAL TEST" ON THE FILTER PAPER. | IF CONSENT HAS NOT BEEN GRANTED WRITE "NO ADDITIONAL TEST" ON THE FILTER PAPER. |
| 267 | PREPARE EQUIPMEN | NT AND SUPPLIES ONLY FOR THE TEST(S |) FOR WHICH CONSENT HAS BEEN OBTAIL | NED AND PROCEED WITH THE TEST(S). |
| 268 | RECORD HEMO- GLOBIN LEVEL HERE AND IN ANEMIA PAMPHLET | G/DL | G/DL | G/DL |
| 269 | BAR CODE LABEL | | | |
| | | NOT PRESENT | PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT | NOT PRESENT |
| 270 | GO BACK TO 245 IN I MEN, END INTERVIE | | OR IN THE FIRST COLUMN OF AN ADDITIO | NAL QUESTIONNAIRE; IF NO MORE |

CENTRAL STATISTICAL AGENCY 2010 ETHIOPIA DEMOGRAPHIC AND HEALTH SURVEY WOMAN'S QUESTIONNAIRE

IMPLEMENTING ORGANIZATION: CSA

| IMPLEMENTING ORGANIZA | | IDENTIFICATION | | |
|--|----------------------|--|----------|-------------------------|
| LOCALITY NAME | | | | _ |
| NAME OF HOUSEHOLD F | HEAD | | | _ |
| CLUSTER NUMBER | | | | |
| HOUSEHOLD NUMBER | | | | |
| REGION | | | | |
| NAME AND LINE NUMBEI | R OF WOMAN | | | |
| | | INTERVIEWER VISITS | <u> </u> | |
| | 1 | 2 | 3 | FINAL VISIT |
| DATE | | _ | | DAY MONTH |
| INTERVIEWER'S NAME RESULT* | | - | | YEAR INT. NUMBER RESULT |
| NEXT VISIT: DATE | | _ | | TOTAL NUMBER OF VISITS |
| *RESULT CODES: 1 COMPLET 2 NOT AT H 3 POSTPON | OME 5 PAR | FUSED RTLY COMPLETED CAPACITATED | 7 OTHER | (SPECIFY) |
| LANGUAGE OF QUESTIONNAIRE: | 6 LANGUAGE INTERVIEW | | | UAGE OF ONDENT: |
| LANGUAGE CODES: AMA | ARIGNA = 1, OROMIGN | NA = 2, TIGRIGNA = 3, OTHER | 3 = 6 | |
| TRANSLATOR USED: (YES = 1, NO = 2) | | | | |
| SUPERVIS | SOR | FIELD EDIT | OR | OFFICE KEYED BY EDITOR |
| NAME | _ | NAME | | |
| DATE | | DATE | [] | |

SECTION 1. RESPONDENT'S BACKGROUND

INTRODUCTION AND CONSENT

| INFORM | MED CONSENT | | | |
|--|---|---|--------------|--|
| Hello. My name is and I am working with the Central Statistical Agency (CSA). We are conducting a survey about health all over Ethiopia. The information we collect will help the government to plan health services. Your household was selected for the survey. The survey usually takes about 30 to 60 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time. | | | | |
| | have any questions? egin the interview now? | | | |
| Signatu | re of interviewer: | Date: | _ | |
| RESPO | NDENT AGREES TO BE INTERVIEWED 1 RESPONDENT ↓ | DOES NOT AGREE TO BE INTERVIEWED | 2→ END | |
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP | |
| 101 | RECORD THE TIME. MORNING = 1 | MORNING/EVENING | | |
| | EVENING = 2 | MINUTES | | |
| 101A | COLLECT ANY RELEVANT DOCUMENTS THAT MAY HAVE INFORMATION ON THE RESPONDENT AND HER CHILDREN'S AGE AND IMMUNIZATIONS. | | | |
| 102 | In what month and year were you born? | MONTH | | |
| 103 | How old were you at your last birthday? COMPARE AND CORRECT 102 AND/OR 103 IF INCONSISTENT. | AGE IN COMPLETED YEARS | | |
| 104 | Have you ever attended school? | YES | → 108 | |
| 105 | What is the highest level of school you attended: primary, secondary, technical/vocational or higher? | PRIMARY 1 SECONDARY 2 TECHNICAL/VOCATIONAL 3 HIGHER 4 | | |
| 106 | What is the highest grade/number of years you completed at that level? IF COMPLETED PRIMARY OR SECONDARY, RECORD COMPLETED GRADE. IF TECHNICAL/VOCATIONAL OR HIGHER, RECORD YEARS COMPLETED. IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL RECORD '00'. | GRADE/NUMBER OF YEARS | | |
| 107 | CHECK 105: PRIMARY SECONDARY AND ABOVE | | → 110 | |
| 107A | Have you ever attended a Bible school or Koranic school or any other informal school that involves learning to read and/or write (not including primary school)? | YES | | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|---|--------------|
| 108 | Now I would like you to read this sentence to me. SHOW CARD TO RESPONDENT. IF RESPONDENT CANNOT READ WHOLE SENTENCE, PROBE: Can you read any part of the sentence to me? | CANNOT READ AT ALL | |
| 109 | CHECK 108: CODE '2', '3' OR '4' CIRCLED CODE '1' OR '5' CIRCLED | | → 111 |
| 110 | Do you read a newspaper or magazine at least once a week, less than once a week or not at all? | AT LEAST ONCE A WEEK | |
| 111 | Do you listen to the radio at least once a week, less than once a week or not at all? | AT LEAST ONCE A WEEK | |
| 112 | Do you watch television at least once a week, less than once a week or not at all? | AT LEAST ONCE A WEEK | |
| 113 | What is your religion? | ORTHODOX 1 CATHOLIC 2 PROTESTANT 3 MOSLEM 4 TRADITIONAL 5 OTHER 6 (SPECIFY) | |
| 114 | What is your ethnicity? RECORD THE MAJOR ETHNIC GROUP. CODE FOR ETHNIC GROUP WILL BE FILLED IN BY OFFICE EDITOR. | | |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|---------------------------------|--------------|
| 201 | Now I would like to ask about all the births you have had during your life. Have you ever given birth? | YES | → 206 |
| 202 | Do you have any sons or daughters to whom you have given birth who are now living with you? | YES | → 204 |
| 203 | How many sons live with you? And how many daughters live with you? IF NONE, RECORD '00'. | SONS AT HOME DAUGHTERS AT HOME | |
| 204 | Do you have any sons or daughters to whom you have given birth who are alive but do not live with you? | YES | → 206 |
| 205 | How many sons are alive but do not live with you? And how many daughters are alive but do not live with you? IF NONE, RECORD '00'. | SONS ELSEWHERE | |
| 206 | Have you ever given birth to a boy or girl who was born alive but later died? IF NO, PROBE: Any baby who cried or showed signs of life but did not survive? | YES | → 208 |
| 207 | How many boys have died? And how many girls have died? IF NONE, RECORD '00'. | BOYS DEAD | |
| 208 | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'. | TOTAL | |
| 209 | CHECK 208: Just to make sure that I have this right: you have had in TOTAL births during your life. Is that correct? PROBE AND CORRECT 201-208 AS NECESSARY. | | |
| 210 | CHECK 208: ONE OR MORE BIRTHS NO BIRTHS | | → 226 |

| RECO | ORD NAME | S OF ALL 1 | e names of all your THE BIRTHS IN 212 NN 12 BIRTHS, USE | . RECORE | TWINS AND | TRIPLETS C | N SEPARATE F | • | /). |
|--|----------------------------|---------------------------------|---|---------------------------|--|--|---|---|--|
| What name was given to your (first/next) baby? | Is (NAME) a boy or a girl? | Were any of these births twins? | In what month and year was (NAME) born? PROBE: When is his/her birthday? | Is (NAME) still alive? | 217 IF ALIVE: How old was (NAME) at his/her last birthday? RECORD AGE IN COM- PLETED YEARS. | 218 IF ALIVE: Is (NAME) living with you? | 219 IF ALIVE: RECORD HOUSE- HOLD LINE NUMBER OF CHILD (RECORD '00' IF CHILD NOT LISTED IN HOUSE- HOLD). | 220 IF DEAD: How old was (NAME) when he/she died? IF '1 YR', PROBE: How many months old was (NAME)? RECORD DAYS IF LESS THAN 1 MONTH; MONTHS IF LESS THAN TWO YEARS; OR YEARS. | Were there any other live births between (NAME OF PREVIOUS BIRTH) and (NAME), including any children who died after birth? |
| 01 | BOY 1 GIRL 2 | SING 1 | YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 NO 2 | (NEXT BIRTH) | DAYS 1 MONTHS 2 YEARS 3 | |
| 02 | BOY 1 | SING 1 | YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 NO 2 | LINE NUMBER (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD BIRTH NO 2 NEXT BIRTH |
| 03 | BOY 1 GIRL 2 | SING 1 | MONTH YEAR | YES 1 NO 2 ↓ 220 | AGE IN YEARS | YES 1 | LINE NUMBER (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD BIRTH NO 2 NEXT BIRTH |
| 04 | BOY 1 GIRL 2 | SING 1 | YEAR | YES 1 NO 2 ↓ 220 | AGE IN YEARS | YES 1 NO 2 | LINE NUMBER (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD BIRTH NO 2 NEXT BIRTH |
| 05 | BOY 1 | SING 1 | YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 NO 2 | LINE NUMBER (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD BIRTH NO 2 NEXT BIRTH |
| 06 | BOY 1 GIRL 2 | SING 1 | MONTH YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 NO 2 | LINE NUMBER (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD BIRTH NO 2 NEXT BIRTH |
| 07 | BOY 1 GIRL 2 | SING 1 | MONTH YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 NO 2 | LINE NUMBER (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD BIRTH NO 2 NEXT BIRTH |

| 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 |
|---|-------------------------------------|---|---|---------------------------------|--|---|---|---|---|
| What name was given to your next baby? | Is (NAME) a boy or a girl? | Were any of these births twins? | In what month and year was (NAME) born? PROBE: When is his/her birthday? | Is (NAME) still alive? | IF ALIVE: How old was (NAME) at his/her last birthday? RECORD AGE IN COM- PLETED YEARS. | IF ALIVE: Is (NAME) living with you? | IF ALIVE: RECORD HOUSE- HOLD LINE NUMBER OF CHILD (RECORD '00' IF CHILD NOT LISTED IN HOUSE- HOLD). | IF DEAD: How old was (NAME) when he/she died? IF '1 YR', PROBE: How many months old was (NAME)? RECORD DAYS IF LESS THAN 1 MONTH; MONTHS IF LESS THAN TWO YEARS; OR YEARS. | Were there any other live births between (NAME OF PREVIOUS BIRTH) and (NAME), including any children who died |
| (NAME) | | | | | | | | | after birth? |
| 08 | BOY 1 | SING 1 | YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 NO 2 | (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD ◀ BIRTH NO 2 NEXT ◀ BIRTH |
| 09 | BOY 1 GIRL 2 | SING 1 | MONTH YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 NO 2 | LINE NUMBER (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD ♣ BIRTH NO 2 NEXT ♣ BIRTH |
| 10 | BOY 1 GIRL 2 | SING 1 | YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 | (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD ◀ BIRTH NO 2 NEXT ◀ BIRTH |
| 11 | BOY 1 | SING 1 MULT 2 | YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 NO 2 | LINE NUMBER (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD ◀ BIRTH NO 2 NEXT ◀ BIRTH |
| 12 | BOY 1 | SING 1 | YEAR | YES 1 NO 2 220 | AGE IN YEARS | YES 1 NO 2 | LINE NUMBER (GO TO 221) | DAYS 1 MONTHS 2 YEARS 3 | YES 1 ADD BIRTH NO 2 NEXT BIRTH |
| 222 | | | births since the birth ORD BIRTH(S) IN T | | | | | | |
| 223 | COMPARE NUMBE ARE SA | ERS _ | NUMBER OF BIRTH NUMBERS AI DIFFERE | RE _ | 1 | ND MARK: E AND REC | ONCILE) | | |
| | | | ER THE NUMBER (| OF BIRTHS | 6 IN 1998 E.C. (| OR LATER. | NONE | 0> 226 | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|--|--|-------|
| 225 | FOR EACH BIRTH SINCE MESKEREM 1998, ENTER 'B' IN T CALENDAR. WRITE THE NAME OF THE CHILD TO THE LEI ASK THE NUMBER OF MONTHS THE PREGNANCY LASTE PRECEDING MONTHS ACCORDING TO THE DURATION OF OF 'P'S MUST BE ONE LESS THAN THE NUMBER OF MONTH | FT OF THE 'B' CODE. FOR EACH BIRTH, D AND RECORD 'P' IN EACH OF THE F PREGNANCY. (NOTE: THE NUMBER | |
| 226 | Are you pregnant now? | YES 1 NO 2 UNSURE 8 | 230 |
| 227 | How many months pregnant are you? RECORD NUMBER OF COMPLETED MONTHS. ENTER 'P's IN THE CALENDAR, BEGINNING WITH THE MONTH OF INTERVIEW AND FOR THE TOTAL | MONTHS | |
| 228 | NUMBER OF COMPLETED MONTHS. When you got pregnant, did you want to get pregnant at that time? | YES | → 230 |
| 229 | Did you want to have a baby later on or did you not want any (more) children? | LATER | |
| 230 | Have you ever had a pregnancy that miscarried, was aborted, or ended in a stillbirth? | YES | → 238 |
| 231 | When did the last such pregnancy end? | MONTH YEAR | |
| 231A | Did you seek medical advice or treatment when this pregnancy ended? IF YES: Where did you seek medical advice or treatment? | HEALTH FACILITY 1 TRADITIONAL HEALER 2 NO ADVICE/TREATMENT 3 OTHER 6 (SPECIFY) | |
| 232 | CHECK 231: LAST PREGNANCY ENDED IN MESKEREM 1998 OR LATER LAST PREGNANCY ENDED BEFORE MESKEREM 1998 | | → 238 |
| 233 | How many months pregnant were you when the last such pregnancy ended? RECORD NUMBER OF COMPLETED MONTHS. ENTER T' IN THE CALENDAR IN THE MONTH THAT THE PREGNANCY TERMINATED AND 'P' FOR THE REMAINING NUMBER OF COMPLETED MONTHS. | MONTHS | |
| 234 | Since Meskerem 1998, have you had any other pregnancies that did not result in a live birth? | YES | → 236 |
| 235 | ASK THE DATE AND THE DURATION OF PREGNANCY FOR EACH BACK TO MESKEREM 1998 ENTER 'T' IN THE CALENDAR IN THE MONTH THAT EACH FOR THE REMAINING NUMBER OF COMPLETED MONTHS | PREGNANCY TERMINATED AND 'P' | |
| 236 | Did you have any miscarriages, abortions or stillbirths that ended before 1998 E.C.? | YES | → 238 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|---|------|
| 237 | When did the last such pregnancy that terminated before 1998 E.C. end? | MONTH YEAR | |
| 238 | When did your last menstrual period start? (DATE, IF GIVEN) | DAYS AGO | |
| 239 | From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant if she has sexual relations? | YES 1 NO 2 DON'T KNOW 8 | 301 |
| 240 | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods? | JUST BEFORE HER PERIOD BEGINS | |

SECTION 3. CONTRACEPTION

| 301 | Now I would like to talk about family planning - the various ways or meth pregnancy. Have you ever heard of (METHOD)? | ods that a couple can use to delay or avoid a |
|-----|--|---|
| 01 | Female sterilization PROBE: Women can have an operation to avoid having any more children. | YES |
| 02 | Male sterilization PROBE: Men can have an operation to avoid having any more children. | YES |
| 03 | IUD PROBE: Women can have a loop or coil placed inside them by a doctor or a nurse. | YES |
| 04 | Injectables PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months. | YES |
| 05 | Implants (Implanon/Jadelle/ Norplants) PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years. | YES |
| 06 | Pill PROBE: Women can take a pill every day to avoid becoming pregnant. | YES |
| 07 | Male condom PROBE Men can put a rubber sheath on their penis before sexual intercourse. | YES |
| 08 | Female Condom PROBE Women can place a sheath in their vagina before sexual intercourse. | YES |
| 09 | Standard Days Method PROBE: Women can use a cycle of beads to count the days they are most likely to get pregnant and avoid sexual intercourse during those days. | YES |
| 09A | Lactational Amenorrhea Method (LAM) | YES |
| 10 | Rhythm Method PROBE: Every month that a woman is sexually active she can avoid pregnancy by not having sexual intercourse on the days of the month she is most likely to get pregnant. | YES |
| 11 | Withdrawal PROBE: Men can be careful and pull out before climax. | YES |
| 12 | Emergency Contraception PROBE: As an emergency measure, within three days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy | YES |
| 13 | Have you heard of any other ways or methods that women or men can use to avoid pregnancy? | YES 1 |
| | | (SPECIFY) |
| | | (SPECIFY) NO |
| 302 | CHECK 226: NOT PREGNANT OR UNSURE PREGNANT | → 311 |
| 303 | Are you currently doing something or using any method to delay or avoid getting pregnant? | YES |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|--|--|-----------------|
| 304 | Which method are you using? | FEMALE STERILIZATION A MALE STERILIZATION |]→ 308A |
| | CIRCLE ALL MENTIONED. | IUD C INJECTABLES D | → 308A |
| | IF MORE THAN ONE METHOD MENTIONED, FOLLOW SKIP INSTRUCTION FOR HIGHEST METHOD IN LIST. | IMPLANTS E PILL F MALE CONDOM G FEMALE CONDOM H DIAPHRAGM/FOAM/JELLY I STANDARD DAYS METHOD J LACTATIONAL AMEN. METHOD K RHYTHM METHOD L WITHDRAWAL M OTHER MODERN METHOD X OTHER TRADITIONAL METHOD Y | → 306 → 308A |
| 305 | What is the brand name of the pills you are using? IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE. | CHOICE/ROSELLE 01 TRIGESTREL 02 HYAN 03 NORDETTE 04 DUOFEM 05 NEOGYNON 06 EXLUTON 07 OTHER 96 (SPECIFY) DON'T KNOW 98 | → 308A |
| 306 | What is the brand name of the condoms you are using? IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE. | HIWOT TRUST | |
| 308A | Since what month and year have you been using (CURRENT METHOD) without stopping? PROBE: For how long have you been using (CURRENT METHOD) now without stopping? | MONTH YEAR | |
| 309 | CHECK 308A, 215 AND 231: | V50 NO | |
| | ANY BIRTH OR PREGNANCY TERMINATION AFTER MONTH AND YEAR OF START OF USE OF CONTRACEPTION IN 308A | YES NO NO | |
| | GO BACK TO 308A, PROBE AND RECORD MONTH AND YEAR AT S USE OF CURRENT METHOD (MUST BE AFTER LAST BIRTH OR PR | | |
| 310 | OF INTERVIEW IN THE CALENDAR AND IN EACH MONTH BACK TO THE DATE STARTED USING. | YEAR IS 1997 E.C. OR EARLIER FER CODE FOR METHOD USED IN MONTH OF ERVIEW IN THE CALENDAR AND SH MONTH BACK TO MESKEREM 1998. N SKIP TO 322 | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|--|---|----------------|
| 311 | I would like to ask you some questions about the times you or your partn getting pregnant during the last few years. | er may have used a method to avoid | |
| | USE CALENDAR TO PROBE FOR EARLIER PERIODS OF USE AND RECENT USE, BACK TO MESKEREM 1998. USE NAMES OF CHILDREN, DATES OF BIRTH, AND PERIODS OF F | | |
| | IN COLUMN 1, ENTER METHOD USE CODE OR '0' FOR | NONUSE IN EACH BLANK MONTH. | |
| | ILLUSTRATIVE QUESTIONS: | | |
| | When was the last time you used a metho When did you start using that method? Ho How long did you use the method then? | | |
| 312 | CHECK THE CALENDAR FOR USE OF ANY CONTRACEPTIVE METH | HOD IN ANY MONTH | |
| | NO METHOD USED ANY METHOD USED | | |
| | 1 | | 314 |
| 313 | Have you ever used anything or tried in any way to delay or avoid getting pregnant? | YES | 324 |
| 314 | CHECK 304: | NO CODE CIRCLED | → 324 → 317 |
| | CIRCLE METHOD CODE: | MALE STERILIZATION 02 IUD 03 | → 326 |
| | IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST. | INJECTABLES | |
| | 0.1.0 0.0 0.1.1.0.1_0.1.1.0.0 . 1.1_0.1.1 | PILL | |
| | | FEMALE CONDOM | |
| | | STANDARD DAYS METHOD 10 LACTATIONAL AMEN. METHOD 11 | 2454 |
| | | RHYTHM METHOD | 315A |
| | | WITHDRAWAL 13 OTHER MODERN METHOD 95 | 326 |
| 045 | V. C. L. L. L. COURDENT METURE FROM CALLY | OTHER TRADITIONAL METHOD 96 | |
| 315 | You first started using (CURRENT METHOD FROM Q.314) in (DATE FROM Q.308A). | PUBLIC SECTOR GOVT.HOSPITAL 11 | |
| | Where did you get it at that time? | GOVT. HEALTH CENTER 12 GOVT. HEALTH STATION/CLINIC 13 | |
| | | GOVT. HEALTH POST/HEW 14 OTHER PUBLIC 15 | |
| | | (SPECIFY) | |
| 315A | Where did you learn how to use the standard days method/rhythm/ | NGO HEALTH FACILITY 21 VOLUNTARY COMMUNITY HEALTH | |
| | lactational amenorhea method? | WORKERS | |
| | PROBE TO IDENTIFY THE TYPE OF SOURCE. | (SPECIFY) | |
| | | PRIVATE MEDICAL SECTOR | |
| | IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR WRITE THE NAME OF THE PLACE. | PRIVATE HOSPITAL | |
| | WRITE THE NAME OF THE FLACE. | PHARMACY 33 | |
| | (NAME OF PLACE) | OTHER PRIVATE MEDICAL 34 | |
| | | (SPECIFY) OTHER SOURCE | |
| | | DRUG VENDOR/STORE 41 SHOP 42 | |
| | | FRIEND/RELATIVE 43 | |
| | | OTHER 96 | |
| | | (SPECIFY) | 1 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|---|-------------------------|
| 316 | CHECK 304: CIRCLE METHOD CODE: IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST. | IUD 03 INJECTABLES 04 IMPLANTS 05 PILL 06 MALE CONDOM 07 FEMALE CONDOM 08 DIAPHRAGM/FOAM/JELLY 09 STANDARD DAYS METHOD 10 LACTATIONAL AMEN. METHOD 11 RHYTHM METHOD 12 | 323 320 320 |
| 317 | At that time, were you told about side effects or problems you might have with the method? | YES | → 319 |
| 318 | Were you ever told by a health or family planning worker about side effects or problems you might have with the method? | YES | → 320 |
| 319 | Were you told what to do if you experienced side effects or problems? | YES | |
| 320 | CHECK 317: CODE '1' CIRCLED At that time, were you told about other methods of family planning that you could use? When you obtained (CURRENT METHOD FROM 314) from (SOURCE OF METHOD FROM 315) were you told about other methods of family planning that you could use? | YES | → 322 |
| 321 | Were you ever told by a health or family planning worker about other methods of family planning that you could use? | YES | |
| 322 | CHECK 304: CIRCLE METHOD CODE: IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST. | FEMALE STERILIZATION 01 MALE STERILIZATION 02 IUD 03 INJECTABLES 04 IMPLANTS 05 PILL 06 MALE CONDOM 07 FEMALE CONDOM 08 DIAPHRAGM/FOAM/JELLY 09 STANDARD DAYS METHOD 10 LACTATIONAL AMEN. METHOD 11 RHYTHM METHOD 12 WITHDRAWAL 13 OTHER MODERN METHOL 95 OTHER TRADITIONAL METHOD 96 | → 326 → 326 → 326 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------------|--|--|--------------|
| NO. 323 | QUESTIONS AND FILTERS Where did you obtain (CURRENT METHOD) the last time? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR WRITE THE NAME OF THE PLACE. (NAME OF PLACE) | PUBLIC SECTOR GOVT.HOSPITAL 11 GOVT. HEALTH CENTER 12 GOVT. HEALTH STATION/CLINIC 13 GOVT. HEALTH POST/HEW 14 OTHER PUBLIC 15 (SPECIFY) NGO NGO HEALTH FACILITY 21 VOLUNTARY COMMUNITY HEALTH WORKERS 22 OTHER NGO 26 (SPECIFY) PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 31 PRIVATE CLINIC 32 PHARMACY 33 OTHER PRIVATE MEDICAL (SPECIFY) OTHER SOURCE | SKIP → 326 |
| | | DRUG VENDOR/STORE 41 SHOP 42 FRIEND/RELATIVE 43 OTHER 96 (SPECIFY) | |
| 324 | Do you know of a place where you can obtain a method of family planning? | YES | → 326 |
| 325 | Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE AND CIRCLE THE APPROPRIATE CODE(S). IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR GOVT. HOSPITAL A GOVT. HEALTH CENTER B GOVT. HEALTH STATION/CLINIC C GOVT. HEALTH POST/HEW D OTHER PUBLIC E (SPECIFY) NGO NGO HEALTH FACILITY F VOLUNTARY COMMUNITY HEALTH | |
| | (NAME OF PLACE(S)) | WORKERS G OTHER NGO | |
| 326 | In the last 12 months, were you visited by a HEW/VCHW or others who talked to you about family planning? | YES | |
| 327 | In the last 12 months, have you visited a health facility for care for yourself (or your children)? | YES | → 401 |
| 328 | Did any staff member/HEW at the health facility speak to you about family planning methods? | YES | |

SECTION 4. MATERNITY CARE

| 401 | CHECK 224: ONE OR MORE BIRTHS IN MESKERM 1998 E.C. OR LATER | IN MESKERM 1998 E OR LATER | .с. | | → 556 |
|-----|---|---|--|---|----------|
| 402 | CHECK 215: ENTER IN THE TABLE LATER. ASK THE QUESTIONS ABO (IF THERE ARE MORE THAN 3 BIRT Now I would like to ask some question about each separately.) | UT ALL OF THESE BIRTHS. BEGIN THS, USE LAST 2 COLUMNS OF AL | N WITH THE LAST BIRTH. DDITIONAL QUESTIONNAIRES | | |
| 403 | BIRTH HISTORY NUMBER FROM 212 IN BIRTH HISTORY | LAST BIRTH BIRTH HISTORY NUMBER | NEXT-TO-LAST BIRTH BIRTH HISTORY NUMBER | SECOND-FROM-LAS BIRTH HISTORY NUMBER | ST BIRTH |
| 404 | FROM 212 AND 216 | NAME | NAME | NAME DI | EAD |
| 405 | When you got pregnant with (NAME), did you want to get pregnant at that time? | YES | YES | YES | 30)◀— |
| 406 | Did you want to have a baby later on, or did you not want any (more) children? | LATER | LATER | LATER NO MORE (SKIP TO 43 | 2 |
| 407 | How much longer did you want to wait? | MONTHS1 YEARS2 DON'T KNOW 998 | MONTHS1 YEARS2 DON'T KNOW 998 | MONTHS1 YEARS2 DON'T KNOW | . 998 |
| 408 | Did you see anyone for antenatal care for this pregnancy? | YES | | | |
| 409 | Whom did you see? Anyone else? PROBE TO IDENTIFY EACH TYPE OF PERSON AND RECORD ALL MENTIONED. | HEALTH PERSONNEL DOCTOR A NURSE/MIDWIFE B HEW C OTHER HEALTH PERSONNEL D (SPECIFY) OTHER PERSON TRAINED TRAD BIRTH ATTENDANT E UNTRAINED TRAD BIRTH ATTENDANT F VCHW G OTHER X (SPECIFY) | | | |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|------|--|--|--------------------|------------------------|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 410 | Where did you receive antenatal care for this pregnancy? Anywhere else? PROBE TO IDENTIFY TYPE(S) OF SOURCE(S). | HOME YOUR HOME A OTHER HOME B PUBLIC SECTOR GOVT. HOSPITAL C GOVT. HEALTH CENTER D GOVT. HEALTH STATION /CLINIC E GOVT. HEALTH | | |
| | IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE(S)) | POST F OTHER PUBLIC (SPECIFY) NGO HEALTH FACILITY H PRIVATE MED. SECTOR PVT. HOSPITAL I PVT. CLINIC J OTHER PRIVATE MED. K (SPECIFY) OTHER X | | |
| | | (SPECIFY) | | |
| 411 | How many months pregnant were you when you first received antenatal care for this pregnancy? | MONTHS | | |
| 412 | How many times did you receive antenatal care during this pregnancy? | NUMBER OF TIMES DON'T KNOW | | |
| 413 | As part of your antenatal care during this pregnancy, were any of the following done at least once? | YES NO | | |
| | Was your blood pressure measured? Did you give a urine sample? Did you give a blood sample? | BP | | |
| 414 | During (any of) your antenatal care visit(s), were you told about the signs of pregnancy complications? | YES | | |
| 414A | Which signs of pregnancy complications were you told about? | VAGINAL BLEEDING A VAGINAL GUSH OF FLUID B SEVERE HEAD ACHE C BLURRED VISION D FEVER E ABDOMINAL PAIN F OTHER X (SPECIFY) | | |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|-----|---|---|---|------------------------|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 415 | During this pregnancy, were you given an injection in the arm to prevent the baby from getting tetanus, that is, convulsions after birth? | YES | | |
| 416 | During this pregnancy, how many times did you get this tetanus injection? | TIMES 8 | | |
| 417 | CHECK 416: | 2 OR MORE OTHER TIMES (SKIP TO 421) | | |
| 418 | At any time before this pregnancy, did you receive any tetanus injections? | YES | | |
| 419 | Before this pregnancy, how many other times did you receive a tetanus injection? | TIMES | | |
| | IF 7 OR MORE TIMES, RECORD '7'. | DON'T KNOW 8 | | |
| 420 | How many years ago did you receive the last tetanus injection before this pregnancy? | YEARS AGO | | |
| 421 | During this pregnancy, were you given or did you buy any iron tablets? | YES | | |
| | SHOW TABLETS. | DON'T KNOW 8 | | |
| 422 | During the whole pregnancy, for how many days did you take the tablets? IF ANSWER IS NOT NUMERIC, PROBE FOR APPROXIMATE NUMBER OF DAYS. | NO. OF DAYS 998 | | |
| 423 | During this pregnancy, did you take any drug for intestinal worms? | YES | | |
| 430 | When (NAME) was born, was he/she very large, larger than average, average, smaller than average, or very small? | VERY LARGE 1 LARGER THAN 2 AVERAGE 2 AVERAGE 3 SMALLER THAN 4 AVERAGE 4 VERY SMALL 5 DON'T KNOW 8 | VERY LARGE 1 LARGER THAN AVERAGE 2 AVERAGE 3 SMALLER THAN AVERAGE 4 VERY SMALL 5 DON'T KNOW 8 | VERY LARGE |
| 431 | Was (NAME) weighed at birth? | YES | YES | YES |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|-----|--|---|---|---|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 432 | How much did (NAME) weigh? RECORD WEIGHT IN KILOGRAMS FROM HEALTH | KG FROM CARD | KG FROM CARD | KG FROM CARD |
| | CARD, IF AVAILABLE. | KG FROM RECALL 2 | KG FROM RECALL 2 DON'T KNOW 99.998 | KG FROM RECALL 2 DON'T KNOW . 99.998 |
| 433 | Who assisted with the delivery of (NAME)? | HEALTH PERSONNEL DOCTOR A NURSE/MIDWIFE B HEW C OTHER HEALTH | HEALTH PERSONNEL DOCTOR A NURSE/MIDWIFE B HEW C OTHER HEALTH | |
| | Anyone else? | PERSONNEL D (SPECIFY) OTHER PERSON TRAINED TRAD BIRTH | PERSONNEL D (SPECIFY) OTHER PERSON TRAINED TRAD BIRTH | PERSONNEL D (SPECIFY) OTHER PERSON TRAINED TRAD BIRTH |
| | PROBE FOR THE TYPE(S) OF PERSON(S) AND RECORD ALL MENTIONED. | ATTENDANT E UNTRAINED TRAD BIRTH ATTENDANT F | ATTENDANT E UNTRAINED TRAD BIRTH ATTENDANT F | ATTENDANT E UNTRAINED TRAD BIRTH ATTENDANT F |
| | IF RESPONDENT SAYS NO ONE ASSISTED, PROBE TO DETERMINE WHETHER ANY ADULTS WERE PRESENT AT THE DELIVERY. | VCHW G RELATIVE/FRIEND H OTHER X (SPECIFY) NO ONE Y | VCHW G RELATIVE/FRIEND H OTHER X (SPECIFY) NO ONE Y | RELATIVE/FRIEND H OTHER X (SPECIFY) |
| 434 | Where did you give birth to (NAME)? PROBE TO IDENTIFY THE TYPE | HOME YOUR HOME 11 (SKIP TO 437A) ← OTHER HOME 12 | HOME YOUR HOME 11 (SKIP TO 448) ← OTHER HOME 12 | (SKIP TO 448) ◆ |
| | OF SOURCE AND CIRCLE THE APPROPRIATE CODE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR. GOVT. HOSPITAL 21 GOVT. HEALTH CENTER 22 GOVT. HEALTH STAT/CLINIC 23 GOVT. HEALTH POST 24 | PUBLIC SECTOR. GOVT. HOSPITAL 21 GOVT. HEALTH CENTER 22 GOVT. HEALTH STAT/CLINIC 23 GOVT. HEALTH POST 24 | GOVT. HEALTH CENTER 22 GOVT. HEALTH STAT/CLINIC 23 GOVT. HEALTH |
| | (NAME OF PLACE(S)) | OTHER PUBLIC 26 (SPECIFY) NGO HEALTH FACILITY 31 | OTHER PUBLIC 26 (SPECIFY) NGO HEALTH FACILITY 31 | OTHER PUBLIC 26 (SPECIFY) NGO |
| | | PRIVATE MED. SECTOR PVT. HOSPITAL 41 PVT. CLINIC 42 OTHER PRIVATE MED. 43 (SPECIFY) OTHER 96 (SPECIFY) (SKIP TO 437A) | PRIVATE MED. SECTOR PVT. HOSPITAL . 41 PVT. CLINIC 42 OTHER PRIVATE MED 43 (SPECIFY) OTHER 96 (SPECIFY) (SKIP TO 448) | PVT. CLINIC 42 OTHER PRIVATE MED43 (SPECIFY) |
| 435 | Was (NAME) delivered by caesarean, that is, did they cut your belly open to take the baby out? | YES 1 NO 2 | YES 1 | YES 1 |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|------|---|--|--------------------|------------------------|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 436 | After you gave birth to (NAME), did anyone check on your health while you were still in the facility? | YES | | |
| 437 | Did anyone check on your health after you left the facility? | YES | | |
| 437A | Why didn't you deliver in a health facility? PROBE: Any other reason? RECORD ALL MENTIONED. | COST TOO MUCH A FACILITY NOT OPEN B TOO FAR/ NO TRANS- PORTATION C DON'T TRUST FACILITY/POOR QUALITY SERVICE D NO FEMALE PROVID- ER AT FACILITY E HUSBAND/FAMILY DID NOT ALLOW F NOT NECESSARY G NOT CUSTOMARY H OTHER X | | |
| 438 | After you gave birth to (NAME), did anyone check on your health? | YES | | |
| 439 | Who checked on your health at that time? PROBE FOR MOST QUALIFIED PERSON. | HEALTH PRERSONNEL DOCTOR | | |
| 440 | How long after delivery did the first check take place? IF LESS THAN ONE DAY, RECORD HOURS. IF LESS THAN ONE WEEK, RECORD DAYS. | HOURS 1 DAYS 2 WEEKS 3 DON'T KNOW 998 | | |
| 441 | CHECK 434: | 11, 12 OR 96 OTHER CIRCLED (SKIP TO 446) | | |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|-----|---|--|--------------------|------------------------|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 442 | In the two months after (NAME) was born, did any Doctor/Nurse/ HEW or other health personnel or a traditional birth attendant check on his/her health? | YES | | |
| 443 | How many hours, days or weeks after the birth of (NAME) did the first check take place? IF LESS THAN ONE DAY, RECORD HOURS. IF LESS THAN ONE WEEK, RECORD DAYS. | HOURS 1 DAYS 2 WEEKS 3 DON'T KNOW 998 | | |
| 444 | Who checked on (NAME'S) health at that time? PROBE FOR MOST QUALIFIED PERSON. | HEALTH PRERSONNEL DOCTOR | | |
| 445 | Where did this first check of (NAME) take place? PROBE TO IDENTIFY THE TYPE OF SOURCE AND CIRCLE THE APPROPRIATE CODE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE(S)) | HOME YOUR HOME | | |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|-----|--|--|---|---|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 446 | In the first two months after delivery, did you receive a vitamin A dose (like this)? SHOW CAPSULES | YES | | |
| 447 | Has your menstrual period returned since the birth of (NAME)? | YES | | |
| 448 | Did your period return between the birth of (NAME) and your next pregnancy? | | YES | YES |
| 449 | For how many months after the birth of (NAME) did you not have a period? | MONTHS 98 | MONTHS DON'T KNOW 98 | MONTHS DON'T KNOW 98 |
| 450 | CHECK 226: IS RESPONDENT PREGNANT? | NOT PREGNANT PREG- NANT UNSURE (SKIP TO 452) | | |
| 451 | Have you had sexual intercourse since the birth of (NAME)? | YES | | |
| 452 | For how many months after the birth of (NAME) did you not have sexual intercourse? | MONTHS 98 | MONTHS DON'T KNOW 98 | MONTHS DON'T KNOW 98 |
| 453 | Did you ever breastfeed (NAME)? | YES | YES | YES 1 NO 2 |
| 454 | CHECK 404: IS CHILD LIVING? | LIVING DEAD (SKIP T0 460) (GO BACK TO 405 IN NEXT COLUMN; OR IF NO MORE BIRTHS, GO TO 501) | LIVING DEAD (SKIP TO 460) (GO BACK TO 405 IN NEXT COLUMN; OR IF NO MORE BIRTHS, GO TO 501) | NEXT-TO-LAST COLUMN OF AN ADDITIONAL QNNAIRE OR IF NO MORE BIRTHS |
| 455 | How long after birth did you first put (NAME) to the breast? IF LESS THAN 1 HOUR, RECORD '00' HOURS. IF LESS THAN 24 HOURS, RECORD HOURS. OTHERWISE, RECORD DAYS. | HOURS 1 DAYS 2 | | |
| 456 | In the first three days after delivery, was (NAME) given anything to drink other than breast milk? | YES | | |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|-----|---|---|---|---|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 457 | What was (NAME) given to drink? Anything else? RECORD ALL LIQUIDS MENTIONED. | MILK (OTHER THAN BREAST MILK) A PLAIN WATER B SUGAR OR GLU- COSE WATER C GRIPE WATER D SUGAR-SALT-WATER SOLUTION E FRUIT JUICE F INFANT FORMULA G TEA/INFUSIONS H HONEY I FRESH BUTTER J FENUGREEK K OTHER X (SPECIFY) | | |
| 458 | CHECK 404: IS CHILD LIVING? | LIVING DEAD (GO BACK TO 405 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 501) | | |
| 459 | Are you still breastfeeding (NAME)? | YES | | |
| 460 | Did (NAME) drink anything from a bottle with a nipple yesterday or last night? | YES | YES | YES |
| 461 | | GO BACK TO 405 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 501. | GO BACK TO 405 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 501. | GO BACK TO 405 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 501. |

SECTION 5. CHILD IMMUNIZATION, HEALTH AND NUTRITION

| 501 | ENTER IN THE TABLE THE BIRTH HISTORY NUMBER, NAME, AND SURVIVAL STATUS OF EACH BIRTH IN 1998 E.C. OR LATER. ASK THE QUESTIONS ABOUT ALL OF THESE BIRTHS. BEGIN WITH THE LAST BIRTH. (IF THERE ARE MORE THAN 3 BIRTHS, USE LAST 2 COLUMNS OF ADDITIONAL QUESTIONNAIRES). | | | | |
|-----|---|--------------------------------------|--|---|--|
| 502 | BIRTH HISTORY NUMBER FROM 212 | LAST BIRTH BIRTH HISTORY NUMBER | NEXT-TO-LAST BIRTH BIRTH HISTORY NUMBER | SECOND-FROM-LAST BIRTH BIRTH HISTORY NUMBER | |
| 503 | | NAME | NAME | NAME | |
| | FROM 212 AND 216 | LIVING DEAD | LIVING DEAD | LIVING DEAD | |
| | 7.1.2 2.10 | | I □ □ | | |
| | | (GO TO 503 IN NEXT COLUMN | (GO TO 503 IN NEXT COLUMN | (GO TO 503 IN NEXT- TO-LAST COLUMN OF | |
| | | OR, IF NO MORE BIRTHS, GO TO 553) | OR, IF NO MORE BIRTHS, GO TO 553) | NEW QUESTIONNAIRE, OR IF NO MORE | |
| | | Jirkinis, se re see, | January Control (Control (Cont | BIRTHS, GO TO 553) | |
| 504 | Do you have a card | | | | |
| | where (NAME'S) vaccinations are | YES, SEEN | YES, SEEN | YES, SEEN | |
| | written down? IF YES: | YES, NOT SEEN 2 (SKIP TO 509) ← | YES, NOT SEEN 2 (SKIP TO 509) ← | YES, NOT SEEN 2 (SKIP TO 509) ← | |
| | May I see it please? | NO CARD 3 | NO CARD 3 | NO CARD 3 | |
| 505 | Did you ever have | YES | YES 1 | YES 1 | |
| | a vaccination card for (NAME)? | (SKIP TO 509) ← NO | (SKIP TO 509) ← NO | (SKIP TO 509) ← NO2 | |
| 506 | 6 (1) COPY DATE FROM THE CARD FOR EACH VACCINE. | | | | |
| | (2) WRITE '44' IN 'DAY' COLUMN IF CARD SHOWS THAT A DOSE WAS GIVEN, BUT NO DATE IS RECORDED. | | | | |
| | | LAST BIRTH DAY MONTH YEAR | NEXT-TO-LAST BIRTH DAY MONTH YEAR | SECOND-FROM-LAST BIRTH DAY MONTH YEAR | |
| | BCG | ВС | G BC | CG C | |
| | POLIO 0 (POLIO GIVEN AT BIRTH) | | 20 | 20 | |
| | POLIO 1 | | 21 | P1 | |
| | POLIO 2 | | 22 | 92 | |
| | POLIO 3 | ▎ ▎ | 23 | -3 | |
| | DPT 1 | | | | |
| | | | | | |
| | DPT 2 | | | 02 | |
| | DPT 3 | | | 03 | |
| | DPT-HepB-Hib1 | D-H B-H | ь1в-н | ib1 | |
| | DPT-HepB-Hib 2 | D-H | | | |
| | DPT-HepB-Hib 3 | D-H B-H | | | |
| | MEASLES | ME | A ME | EA | |
| | VITAMIN A | VIT | A VIT | A | |
| _ | (MOST RECENT) | <u> </u> | <u> </u> | | |
| 507 | CHECK 506: | BCG TO VITAMIN A OTHER ALL RECORDED | BCG TO VITAMIN A OTHER ALL RECORDED | BCG TO VITAMIN A OTHER ALL RECORDED | |
| | | | | | |
| | | | | | |
| | | (GO TO 511) | (GO TO 511) | (GO TO 511) | |
| | | | † | | |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|------|---|-------------------------|----------------------------|----------------------------|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 508 | Has (NAME) received any vaccinations that are not recorded on this card, including vaccinations given in a national immunization day campaign? RECORD 'YES' ONLY IF THE RESPONDENT MENTIONS AT LEAST ONE OF THE VACCINATIONS IN 506 THAT ARE NOT RECORDED AS HAVING BEEN GIVEN | YES | YES | YES |
| 509 | Did (NAME) ever have any vaccinations to prevent him/her from getting diseases, including vaccinations received in a national immunization campaign? | YES | YES | YES |
| 510 | Please tell me if (NAME) had any of the following vaccinations: | | | |
| 510A | A BCG vaccination against tuberculosis, that is, an injection in the right arm or shoulder that usually causes a scar? | YES 1 NO 2 DON'T KNOW 8 | YES | YES |
| 510B | Polio vaccine, that is, drops in the mouth? | YES | YES | YES |
| 510C | Was the first polio vaccine given in the first two weeks after birth or later? | FIRST 2 WEEKS 1 LATER 2 | FIRST 2 WEEKS 1 LATER 2 | FIRST 2 WEEKS 1 LATER 2 |
| 510D | How many times was the polio vaccine received? | NUMBER OF TIMES | NUMBER OF TIMES | NUMBER OF TIMES |
| 510E | A DPT or DPT-HepB-Hib vaccination, that is, an injection given in the thigh or buttocks, sometimes at the same time as polio drops? | YES | YES | YES |
| 510F | How many times was a DPT or DPT-HepB-Hib vaccination given ? | NUMBER OF TIMES | NUMBER OF TIMES | NUMBER OF TIMES |
| 510G | A measles injection or an MMR injection - that is, a shot in the arm at the age of 9 months or older - to prevent him/her from getting measles? | YES | YES | YES |
| 510H | Did (NAME) receive a vaccination certificate for completing the schedule for all vaccinations? | YES | YES | YES |
| 511 | Within the last six months has (NAME) received a vitamin A dose like this? SHOW CAPSULES. | YES | YES | YES |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|-----|---|---|---|---|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 512 | In the last seven days, was (NAME) given iron pills like this? | YES | YES | YES |
| | SHOW COMMON TYPES OF IRON PILLS. | | | |
| 513 | Was (NAME)given any drug for intestinal worms in the last six months? | YES | YES | YES |
| 514 | Has (NAME) had diarrhea in the last 2 weeks? | YES | YES | YES |
| 515 | Was there any blood in the stools? | YES | YES | YES |
| 516 | Now I would like to know how much (NAME) was given to drink during the diarrhea (including breastmilk). | | | |
| | Was he/she given less than usual to drink, about the same amount, or more than usual to drink? IF LESS, PROBE: Was he/she given much less than usual to drink or somewhat less? | MUCH LESS 1 SOMEWHAT LESS 2 ABOUT THE SAME 3 MORE 4 NOTHING TO DRINK 5 DON'T KNOW 8 | MUCH LESS 1 SOMEWHAT LESS . 2 ABOUT THE SAME . 3 MORE 4 NOTHING TO DRINK 5 DON'T KNOW 8 | MUCH LESS 1 SOMEWHAT LESS . 2 ABOUT THE SAME . 3 MORE 4 NOTHING TO DRINK 5 DON'T KNOW 8 |
| 517 | When (NAME) had diarrhea, was he/she given less than usual to eat, about the same amount, more than usual, or nothing to eat? IF LESS, PROBE: Was he/she given much less than usual to eat or somewhat less? | MUCH LESS 1 SOMEWHAT LESS 2 ABOUT THE SAME 3 MORE 4 STOPPED FOOD 5 NEVER GAVE FOOD 6 DON'T KNOW 8 | MUCH LESS 1 SOMEWHAT LESS . 2 ABOUT THE SAME . 3 MORE 4 STOPPED FOOD . 5 NEVER GAVE FOOD . 6 DON'T KNOW 8 | MUCH LESS 1 SOMEWHAT LESS . 2 ABOUT THE SAME . 3 MORE 4 STOPPED FOOD . 5 NEVER GAVE FOOD . 6 DON'T KNOW 8 |
| 518 | Did you seek advice or treatment for the diarrhea from any source? | YES | YES | YES |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH | |
|-----|--|--|---|---|--|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME | |
| 519 | Where did you seek advice or treatment? Anywhere else? PROBE TO IDENTIFY EACH TYPE OF SOURCE. | PUBLIC SECTOR GOVT. HOSPITAL A GOVT. HEALTH CENTER B GOVT.HEALTH STATION/CLINIC C GOVT.HEALTH POST/HEW D OTHER PUBLIC (SPECIFY) | PUBLIC SECTOR GOVT. HOSPITAL . A GOVT. H.CENTER B GOVT.HEALTH STATION/CLINIC . C GOVT.HEALTH POST/I D OTHER PUBLIC (SPECIFY) | PUBLIC SECTOR GOVT. HOSPITAL . A GOVT. H CENTER B GOVT.HEALTH STATION/CLINIC . C GOVT.HEALTH POST/I D OTHER PUBLIC (SPECIFY) | |
| | IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | NGO HEALTH FACILITY F VCHW G PRIVATE MED.SECTOR | NGO HEALTH FACILITY F VCHW | NGO HEALTH FACILITY F VCHW | |
| | (NAME OF PLACE(S)) | PRIVATE MEDISECTOR PRIVATE LHOSPITAL H PRIVATE CLINIC I PHARMACY J OTHER PRIVATE MED. K (SPECIFY) | PRIVATE MED.SECTOR PRIVATE HOSP . H PRIVATE CLINIC I PHARMACY J OTHER PRIVATE MED. K (SPECIFY) | PRIVATE MED.SECTOR PRIVATE HOSP . H PRIVATE CLINIC I PHARMACY J OTHER PRIVATE MED K (SPECIFY) | |
| | | OTHER SOURCE DRUG VENDOR/ STORE L SHOP M TRADITIONAL HEALER . N | OTHER SOURCE DRUG VENDOR/ STORE L SHOP M TRADITIONAL HEALER . N | OTHER SOURCE DRUG VENDOR/ STORE L SHOP M TRADITIONAL HEALER . N | |
| | | OTHER (SPECIFY) X | OTHER (SPECIFY) X | OTHER X (SPECIFY) | |
| 520 | CHECK 519: | TWO OR ONLY MORE ONE CODES CODE CIRCLED CIRCLED | TWO OR ONLY MORE ONE CODES CODE CIRCLED CIRCLED (SKIP TO 522) | TWO OR ONLY MORE ONE CODES CODE CIRCLED CIRCLED (SKIP TO 522) | |
| 521 | Where did you first seek advice or treatment? USE LETTER CODE FROM 519. | FIRST PLACE | FIRST PLACE | FIRST PLACE | |
| 522 | Was he/she given any of the following to drink at any time since he/she started having the diarrhea: | YES NO DK | YES NO DK | YES NO DK | |
| | a) A fluid made from a special ORS packet like LEMLEM? | FLUID FROM ORS PKT 1 2 8 | FLUID FROM ORS PKT 1 2 8 | FLUID FROM ORS PKT 1 2 8 | |
| | b) A government-recommended homemade fluid? | HOMEMADE FLUID 1 2 8 | HOMEMADE FLUID 1 2 8 | HOMEMADE FLUID 1 2 8 | |
| 523 | Was anything (else) given to treat the diarrhea? | YES | YES | YES | |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|-----|--|--|---|--|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 524 | What (else) was given to treat the diarrhea? Anything else? RECORD ALL TREATMENTS GIVEN. | PILL OR SYRUP ANTIBIOTIC A ANTIMOTILITY B ZINC C OTHER (NOT ANTIBIOTIC, ANTIBI | PILL OR SYRUP ANTIBIOTIC A ANTIMOTILITY . B ZINC | PILL OR SYRUP ANTIBIOTIC A ANTIMOTILITY . B ZINC C OTHER (NOT ANTI- BIOTIC, ANTI- MOTILITY, OR ZINC) D UNKNOWN PILL OR SYRUP E |
| | | INJECTION ANTIBIOTIC F NON-ANTIBIOTIC . G UNKNOWN INJECTION H | INJECTION ANTIBIOTIC F NON-ANTIBIOTIC . G UNKNOWN INJECTION H | INJECTION ANTIBIOTIC F NON-ANTIBIOTIC . G UNKNOWN INJECTION H |
| | | (IV) INTRAVENOUS . I | (IV) INTRAVENOUS . I | (IV) INTRAVENOUS . I |
| | | HOME REMEDY/ HERBAL MED- ICINE | HOME REMEDY/ HERBAL MED- ICINE J | HOME REMEDY/ HERBAL MED- ICINE |
| | | OTHERX (SPECIFY) | OTHER (SPECIFY) X | OTHER X (SPECIFY) |
| 525 | Has (NAME) been ill with a fever at any time in the last 2 weeks? | YES | YES | YES |
| 527 | Has (NAME) had an illness with a cough at any time in the last 2 weeks? | YES | YES | YES |
| 528 | When (NAME) had an illness with a cough, did he/she breathe faster than usual with short, rapid breaths or have difficulty breathing? | YES | YES | YES |
| 529 | Was the fast or difficult breathing due to a problem in the chest or to a blocked or runny nose? | CHEST ONLY 1 7 NOSE ONLY 2 - BOTH 3 - OTHER | CHEST ONLY 1 7 NOSE ONLY 2 - BOTH 3 - OTHER 6 - (SPECIFY) DON'T KNOW 8 - | CHEST ONLY 1 - NOSE ONLY 2 - BOTH 3 - OTHER 6 - (SPECIFY) DON'T KNOW 8 - (SKIP TO 531) |
| 530 | CHECK 525: HAD FEVER? | YES NO OR DK (GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553) | YES NO OR DK (GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553) | YES NO OR DK (GO TO 503 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 553) |
| 531 | Now I would like to know how much (NAME) was given to drink (including breastmilk) during the illness with a (fever/cough). Was he/she given less than usual to drink, about the same amount, or more than usual to drink? IF LESS, PROBE: Was he/she given much less than usual to drink or somewhat less? | MUCH LESS 1 SOMEWHAT LESS 2 ABOUT THE SAME 3 MORE 4 NOTHING TO DRINK 5 DON'T KNOW 8 | MUCH LESS 1 SOMEWHAT LESS . 2 ABOUT THE SAME . 3 MORE 4 NOTHING TO DRINK 5 DON'T KNOW 8 | MUCH LESS 1 SOMEWHAT LESS . 2 ABOUT THE SAME . 3 MORE 4 NOTHING TO DRINK 5 DON'T KNOW 8 |

| | | | I | |
|-----|--|--|---|---|
| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 532 | When (NAME) had a (fever/cough), was he/she given less than usual to eat, about the same amount, more than usual, or nothing to eat? IF LESS, PROBE: Was he/she given much less than usual to eat or somewhat less? | MUCH LESS 1 SOMEWHAT LESS 2 ABOUT THE SAME 3 MORE 4 STOPPED FOOD 5 NEVER GAVE FOOD 6 DON'T KNOW 8 | MUCH LESS 1 SOMEWHAT LESS 2 ABOUT THE SAME | MUCH LESS 1 SOMEWHAT LESS . 2 ABOUT THE SAME . 3 MORE 4 STOPPED FOOD . 5 NEVER GAVE FOOD . 6 DON'T KNOW 8 |
| 533 | Did you seek advice or treatment for the illness from any source? | YES | YES | YES |
| 534 | Where did you seek advice or treatment? Anywhere else? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE(S)) | PUBLIC SECTOR GOVT. HOSPITAL A GOVT. HEALTH CENTER B GOVT.HEALTH STATION/CLINIC C GOVT.HEALTH POST/HEW D OTHER PUBLIC (SPECIFY) NGO HEALTH FACILITY F VCHW G PRIVATE MED.SECTOR PRIVATE MED.SECTOR PRIVATE CLINIC I PHARMACY J OTHER PRIVATE MED. K (SPECIFY) OTHER SOURCE DRUG VENDOR/ STORE L SHOP M TRADITIONAL HEALER N OTHER X | PUBLIC SECTOR GOVT. HOSPITAL . A GOVT. H. CENTER . B GOVT.HEALTH STATION/CLINIC . C GOVT.HEALTH POST/HEW D OTHER PUBLIC (SPECIFY) NGO HEALTH FACILITY F VCHW G PRIVATE MED.SECTOR PRIVATE HOSP . H PRIVATE I PHARMACY J OTHER PRIVATE MED. K (SPECIFY) OTHER SOURCE DRUG VENDOR/ STORE L SHOP M TRADITIONAL HEALER N OTHER X (SPECIFY) | PUBLIC SECTOR GOVT. HOSPITAL . A GOVT. H. CENTER . B GOVT.HEALTH STATION/ CLINIC . C GOVT.HEALTH POST/HEW D OTHER PUBLIC (SPECIFY) NGO HEALTH FACILITY F VCHW G PRIVATE MED.SECTOR PRIVATE I PHARMACY J OTHER PRIVATE MED. K (SPECIFY) OTHER SOURCE DRUG VENDOR/ STORE . L SHOP M TRADITIONAL HEALER . N OTHER X (SPECIFY) |
| 535 | CHECK 534: | TWO OR ONLY MORE ONE CODES CIRCLED (SKIP TO 537) ← | TWO OR ONLY MORE ONE CODES CODE CIRCLED CIRCLED (SKIP TO 537) ← | TWO OR ONLY MORE ONE CODES CODE CIRCLED CIRCLED (SKIP TO 537) |
| 536 | Where did you first seek advice or treatment? USE LETTER CODE FROM 534. | FIRST PLACE | FIRST PLACE | FIRST PLACE |
| 537 | At any time during the illness, did (NAME) take any drugs for the illness? | YES | YES | YES |

| | | LAST BIRTH | NEXT-TO-LAST BIRTH | SECOND-FROM-LAST BIRTH |
|-----|--|--|---|---|
| NO. | QUESTIONS AND FILTERS | NAME | NAME | NAME |
| 538 | What drugs did (NAME) take? Any other drugs? RECORD ALL MENTIONED. | ANTIMALARIAL DRUGS SP/FANSIDAR A CHLOROQUINE B ARTEMETHER- LUMEFANTRINE (COARTEM /ARTEFAN) C QUININE D OTHER ANTI- MALARIAL E (SPECIFY) | ANTIMALARIAL DRUGS SP/FANSIDAR A CHLOROQUINE . B ARTEMETHER- LUMEFANTRINE (COARTEM /ARTEFAN) C QUININE D OTHER ANTI- MALARIAL | ANTIMALARIAL DRUGS SP/FANSIDAR A CHLOROQUINE . B ARTEMETHER- LUMEFANTRINE (COARTEM /ARTEFAN) C QUININE D OTHER ANTI- MALARIAL |
| | | ANTIBIOTIC DRUGS INJECTION F BACTRIM (COTRIM) G AMPICILIN H AMOXYCILIN I CHLORIAM- PHENICOL J TETRACYCLINE K OTHER ANTI- BIOTIC L | ANTIBIOTIC DRUGS INJECTION F BACTRIM (COTRIM) G AMPICILIN H AMOXYCILIN I CHLORIAM- PHENICOL J TETRACYCLINE K OTHER ANTI- BIOTIC L | ANTIBIOTIC DRUGS INJECTION F BACTRIM (COTRIM) G AMPICILIN H AMOXYCILIN I CHLORIAM- PHENICOL J TETRACYCLINE K OTHER ANTI- BIOTIC L |
| | | OTHER DRUGS PARACETAMOL M ASPIRIN (PARAMOL) N ACETA- MINOPHEN O IBUPROFEN P OTHER X (SPECIFY) | OTHER DRUGS PARACETAMOL M ASPIRIN (PARAMOL)N ACETA- MINOPHENO IBUPROFENP OTHERX (SPECIFY) | OTHER DRUGS PARACETAMOL M ASPIRIN (PARAMOL) N ACETA- MINOPHEN O IBUPROFEN P OTHER X (SPECIFY) |
| 552 | | DON'T KNOW Z GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553 | GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553. | DON'T KNOW Z GO TO 503 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 553. |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|--|--------------|
| 553 | CHECK 215 AND 218, ALL ROWS: | | |
| | NUMBER OF CHILDREN BORN IN 1998 E.C. OR LATER LIVING WIT | H THE RESPONDENT | |
| | ONE OR MORE NONE | | → 556 |
| | RECORD NAME OF YOUNGEST CHILD LIVING WITH HER (AND CONTINUE WITH 554) | | |
| | (NAME) | | |
| 554 | The last time (NAME FROM 553) passed stools, what was done to dispose of the stools? | CHILD USED TOILET OR LATRINE 01 PUT/RINSED INTO TOILET OR LATRINE 02 PUT/RINSED INTO DRAIN OR DITCH 03 THROWN INTO GARBAGE 04 BURIED 05 LEFT IN THE OPEN 06 OTHER 96 (SPECIFY) | |
| 555 | CHECK 522(a), ALL COLUMNS: | | |
| | NOT NO CHILD ANY CHILI RECEIVED FROM ORS PACKET FROM ORS | FLUID | → 557 |
| 556 | Have you ever heard of a special fluid made from an ORS packet, like LEMLEM, that you can get for the treatment of diarrhea? | YES | |
| 557 | CHECK 215 AND 218, ALL ROWS: NUMBER OF CHILDREN BORN IN 2001 E.C. OR LATER LIVING WIT ONE OR MORE NONE RECORD NAME OF YOUNGEST CHILD LIVING WITH HER (AND CONTINUE WITH 558) | H THE RESPONDENT | → 601 |
| | (NAME) | | |
| | | | |

| NO. | | QUESTIONS AND FILTERS | CODING CATEGOR | ES | | SKIP |
|-----|------|---|-------------------------------|------|------|------|
| 558 | duri | v I would like to ask you about (other) liquids or foods that (NAME FF ing the day or at night. I am interested in whether your child had the er foods. | | | | |
| | | (NAME FROM 557) (drink/eat): | YE | S NO | O DK | |
| | a) | Plain water? | a) 1 | 2 | 2 8 | |
| | b) | Juice or juice drinks? | b) 1 | 2 | 2 8 | |
| | c) | Soup? | c) 1 | 2 | 2 8 | |
| | d) | Milk such as tinned, powdered, or fresh animal milk? | d) 1 | 2 | 2 8 | |
| | | IF YES: How many times did (NAME) drink milk? IF 7 OR MORE TIMES, RECORD '7'. | NUMBER OF TIMI DRANK MI | | | |
| | e) | Infant formula such as Plan, S-26? | e) 1 | 2 | 2 8 | |
| | | IF YES: How many times did (NAME) drink infant formula? IF 7 OR MORE TIMES, RECORD '7'. | NUMBER OF TIMI DRANK FORMU | | | |
| | f) | Any other liquids? | f) 1 | 2 | 2 8 | |
| | g) | Yogurt? | g) 1 | 2 | 2 8 | |
| | | IF YES: How many times did (NAME) eat yogurt? IF 7 OR MORE TIMES, RECORD '7'. | NUMBER OF TIMI ATE YOGUI | | | |
| | h) | Any commercially fortified baby food, like Fafa, Hilina, Cerilak, Cerifam, Mother Choice | h) 1 | 2 | 2 8 | |
| | i) | Injera, bread, rice, noodles, or other foods made from grains, such tef, oats, maize, barley, wheat, sorghum, millet or other grains? | as, i) 1 | 2 | 2 8 | |
| | j) | Pumpkin, carrots, squash or sweet potatoes that are yellow or orange inside? | j) 1 | 2 | 2 8 | |
| | k) | White potatoes, white yams, bulla, kocho, manioc, cassava, or any other foods made from roots? | k) 1 | 2 | 2 8 | |
| | l) | Any dark green, leafy vegetables like kale, spinach, or amaranth leaves? | I) 1 | 2 | 2 8 | |
| | m) | Ripe mangoes or papayas? | m) 1 | 2 | 2 8 | |
| | n) | Any other fruits or vegetables? | n) 1 | 2 | 2 8 | |
| | o) | Liver, kidney, heart or other organ meats? | o) 1 | 2 | 2 8 | |
| | p) | Any meat, such as beef, pork, lamb, goat, chicken, or duck? | p) 1 | 2 | 2 8 | |
| | q) | Eggs? | q) 1 | 2 | 2 8 | |
| | r) | Fresh or dried fish or shellfish? | r) 1 | 2 | 2 8 | |
| | s) | Any foods made from beans, peas, lentils, or nuts? | s) 1 | 2 | 2 8 | |
| | t) | Cheese or other food made from milk? | t) 1 | 2 | 2 8 | |
| | u) | Any other solid, semi-solid, or soft food? | u) 1 | 2 | 2 8 | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|-------------------------------|-------|
| 559 | CHECK 558 (CATEGORIES "h" THROUGH "u"): NOT A SINGLE "YES" "YES" | | → 561 |
| 560 | Did (NAME) eat any solid, semi-solid, or soft foods yesterday during the day or at night? IF 'YES' PROBE: What kind of solid,semi-solid or soft foods did (NAME), eat? | YES | >601 |
| 561 | How many times did (NAME FROM 557) eat solid, semisolid, or soft foods yesterday during the day or at night? IF 7 OR MORE TIMES, RECORD '7'. | NUMBER OF TIMES DON'T KNOW 8 | |

SECTION 6. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|--|--------------|
| 601 | Are you currently married or living together with a man as if married? | YES, CURRENTLY MARRIED 1 YES, LIVING WITH A MAN 2 NO, NOT IN UNION 3 | 604 |
| 602 | Have you ever been married or lived together with a man as if married? | YES, FORMERLY MARRIED 1 YES, LIVED WITH A MAN 2 NO 3 | → 612 |
| 603 | What is your marital status now: are you widowed, divorced, or separated? | WIDOWED 1 DIVORCED 2 SEPARATED 3 | 609 |
| 604 | Is your husband/partner living with you now or is he staying elsewhere? | LIVING WITH HER | |
| 605 | RECORD THE HUSBAND'S/PARTNER'S NAME AND LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE. | NAME | |
| | IF HE IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'. | LINE NO. | |
| 606 | Does your husband/partner have other wives or does he live with other women as if married? | YES | 609 |
| 607 | Including yourself, in total, how many wives or partners does your husband live with now as if married? | TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS | |
| | | DON'T KNOW 98 | |
| 608 | Are you the first, second, wife? | RANK | |
| 609 | Have you been married or lived with a man only once or more than once? | ONLY ONCE | |
| 610 | CHECK 609: | | |
| | MARRIED/ MARRIED/ LIVED WITH A MAN ONLY ONCE MORE THAN ONCE | MONTH | |
| | In what month and year Now I would like to ask about did you start living with when you started living with | DON'T KNOW MONTH 98 | |
| | your husband/partner? your first husband/partner. In what month and year was that? | YEAR | → 612 |
| - | | DON'T KNOW YEAR 9998 | |
| 611 | How old were you when you first started living with him? | AGE | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP | |
|-----|--|------------------------------|-------|--|
| 612 | CHECK FOR THE PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY. | | | |
| 613 | Now I would like to ask you some questions about sexual activity in order to gain a better understanding of some important life issues. | NEVER HAD SEXUAL INTERCOURSE | → 628 | |
| | How old were you when you had sexual intercourse for the very first time? | AGE IN YEARS | | |
| 614 | Now I would like to ask you some questions about your recent sexual a answers are completely confidential and will not be told to anyone. If w want to answer, just let me know and we will go to the next question. | , , , | | |
| 615 | When was the <u>last</u> time you had sexual intercourse? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS. | DAYS AGO | | |
| | | YEARS AGO 4 | → 627 | |

| | | LAST SEXUAL PARTNER | SECOND-TO-LAST SEXUAL PARTNER | THIRD-TO-LAST SEXUAL PARTNER |
|------|--|--|--|--|
| 616 | When was the last time you had sexual intercourse with this person? | | DAYS 1 WEEKS 2 MONTHS 3 | DAYS 1 WEEKS 2 MONTHS 3 |
| 617 | The last time you had sexual intercourse (with this second/third person), was a condom used? | YES | YES | YES |
| 618 | Did you use a condom every time you had sexual intercourse with this person in the last 12 months? | YES | YES | YES |
| 619 | What was your relationship to this person with whom you had sexual intercourse? IF BOYFRIEND: Were you living together as if married? IF YES, CIRCLE '2'. IF NO, CIRCLE '3'. | HUSBAND | HUSBAND | HUSBAND |
| 620 | CHECK 609: | MARRIED MARRIED ONLY MORE ONCE THAN ONCE (SKIP TO 622) | MARRIED MARRIED ONLY MORE ONCE THAN ONCE (SKIP TO 622) | MARRIED MARRIED ONLY MORE ONCE THAN ONCE (SKIP TO 622) |
| 621 | CHECK 613: | FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND OTHER (SKIP TO 623) | FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND OTHER (SKIP TO 623) | FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND OTHER (SKIP TO 623) |
| 622 | How long ago did you first have sexual intercourse with this (second/third) person? | DAYS AGO 1 WEEKS AGO 2 MONTHS AGO. 3 YEARS AGO. 4 | DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3 YEARS AGO 4 | DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3 YEARS AGO 4 |
| 623 | How many times during the last 12 months did you have sexual intercourse with this person? IF 95 OR MORE, WRITE '95'. | NUMBER OF TIMES | NUMBER OF TIMES | NUMBER OF TIMES |
| 623A | The last time you had sexual intercourse (with this other person), did you or this person drink alcohol? | YES | YES | YES |
| 623B | Were you or your partner drunk at that time? IF YES: Who was drunk? | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 |
| 623C | The last time you had sexual intercourse (with this other person), did you or this person chew chat any time during that day? | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 |
| 623D | Are you still having sex with this person? | YES 1 | YES 1 | YES 1 |
| | | NO 2 | NO 2 | NO 2 |

| | | LAST SEXUAL PARTNER | SECOND-TO-LAST SEXUAL PARTNER | THIRD-TO-LAST SEXUAL PARTNER |
|-----|---|-----------------------------|----------------------------------|--------------------------------------|
| 624 | How old is this person? | AGE OF PARTNER DON'T KNOW98 | AGE OF PARTNER DON'T KNOW98 | AGE OF PARTNER DON'T KNOW 98 |
| 625 | Apart from [this person/these two people], have you had sexual intercourse with any other person in the last 12 months? | YES | YES | |
| 626 | In total, with how many different people have you had sexual intercourse in the last 12 months? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'. | | | NUMBER OF PARTNERS LAST 12 MONTHS 98 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|---|--|--------------|
| 627 | In total, with how many different people have you had sexual intercourse in your lifetime? | NUMBER OF PARTNERS IN LIFETIME | |
| | IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. | DON'T KNOW | |
| | IF NUMBER OF PARTNERS IS GREATER THAN 95, WRITE '95.' | | |
| 628 | PRESENCE OF OTHERS DURING THIS SECTION | YES NO MALE ADULTS | |
| 629 | Do you know of a place where a person can get male condoms? | YES | → 632 |
| 630 | Where is that? | PUBLIC SECTOR GOVT. HOSPITAL A | |
| | Any other place? | GOVT. HEALTH CENTER B GOVT.HEALTH STATION/CLINIC C | |
| | PROBE TO IDENTIFY EACH TYPE OF SOURCE. | GOVT.HEALTH POST/HEW | |
| | IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR WRITE THE NAME OF THE PLACE. (NAME OF PLACE(S)) | NGO | |
| 631 | If you wanted to, could you yourself get a male condom? | YES 1 NO 2 DON'T KNOW/UNSURE 8 | |
| 631A | CHECK 301 (08) KNOWS FEMALE CONDOM YES NO NO | | → 701 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|--|--------------|
| 632 | Do you know of a place where a person can get female condoms? | YES | → 701 |
| 633 | Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR WRITE THE NAME OF THE PLACE. (NAME OF PLACE(S)) | PUBLIC SECTOR A GOVT. HOSPITAL A GOVTHEALTH CENTER B GOVT. HEALTH STATION/CLINIC C GOVT. HEALTH POST/HEW D OTHER PUBLIC E (SPECIFY) NGO NGO HEALTH FACILITY F VOLUNTARY COMMUNITY HEALTH WORKERS G OTHER NGO H PRIVATE MEDICAL SECTOR F PRIVATE MEDICAL SECTOR I PRIVATE CLINIC J PHARMACY K | |
| | | ANTI-AIDS CLUB/ASSOCIATION L OTHER PRIVATE MEDICAL M (SPECIFY) OTHER SOURCE DRUG VENDOR/STORE N SHOP/BAR/HOTEL/GROCERY/ O FRIEND/RELATIVE P OTHER X | |
| | | (SPECIFY) | |
| 634 | If you wanted to, could you yourself get a female condom? | YES 1 NO 2 DON'T KNOW/UNSURE 8 | |

SECTION 7. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|--|-------------------------|
| 701 | CHECK 304: NEITHER NOT HE OR SHE STERILIZED ASKED STERILIZED | | 712 |
| 702 | CHECK 226: PREGNANT OR UNSURE | | → 704 |
| 703 | Now I have some questions about the future. After the child you are expecting now, would you like to have another child, or would you prefer not to have any more children? | HAVE ANOTHER CHILD 1 NO MORE/NONE 2 UNDECIDED/DON'T KNOW 8 | → 705 → 711 → 711 |
| 704 | Now I have some questions about the future. Would you like to have (a/another) child, or would you prefer not to have any (more) children? | HAVE (A/ANOTHER) CHILD 1 NO MORE/NONE 2 SAYS SHE CAN'T GET PREGNANT 3 UNDECIDED/DON'T KNOW 8 | → 707 → 712 → 710 |
| 705 | CHECK 226: NOT PREGNANT OR UNSURE How long would you like to wait from now before the birth of (a/another) child? After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? | MONTHS | → 710 → 712 → 710 |
| 706 | CHECK 226: NOT PREGNANT OR UNSURE PREGNANT | | → 711 |
| 707 | CHECK 303: USING CONTRACEPTIVE METHOD? NOT CURRENTLY USING CURRENTLY USING | | → 712 |
| 708 | | 00-23 MONTHS DR 00-01 YEAR | → 711 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|--|----------------|
| 709 | CHECK 703 AND 704: | NOT MARRIED A | _ |
| | WANTS TO HAVE A/ANOTHER CHILD You have said that you do not want (a/another) child soon. You have said that you do not want any (more) children. Can you tell me why you are not using a method to prevent pregnancy? Any other reason? WANTS NO MORE/ NONE You have said that you do not want any (more) children. Can you tell me why you are not using a method to prevent pregnancy? Any other reason? | FERTILITY-RELATED REASONS NOT HAVING SEX B INFREQUENT SEX C MENOPAUSAL/HYSTERECTOMY D CAN'T GET PREGNANT E NOT MENSTRUATED SINCE LAST BIRTH F BREASTFEEDING G UP TO GOD/FATALISTIC H OPPOSITION TO USE RESPONDENT OPPOSED I HUSBAND/PARTNER OPPOSED J OTHERS OPPOSED K RELIGIOUS PROHIBITION L | |
| | RECORD ALL REASONS MENTIONED. | LACK OF KNOWLEDGE KNOWS NO METHOD | |
| 710 | CHECK 303: USING A CONTRACEPTIVE METHOD? NOT NO, NO, ASKED NOT CURRENTLY USING CURI | YES, RENTLY USING | → 712 |
| 711 | Do you think you will use a contraceptive method to delay or avoid pregnancy at any time in the future? | YES 1 NO 2 DON'T KNOW 8 | |
| 712 | CHECK 216: HAS LIVING CHILDREN If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be? PROBE FOR A NUMERIC RESPONSE. | NONE | → 714 → 714 |
| 713 | How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it was a boy or girl? | NUMBER BOYS GIRLS EITHER NUMBER 96 (SPECIFY) | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|---|-------|
| 714 | In the last few months have you: Heard about family planning on the radio? Seen anything about family planning on the television? Read about family planning in a newspaper or magazine? Read about family planning in a pamphlet/Posters/Leaflets? Heard about family planning at community event/conversation? | YES NO RADIO 1 2 TELEVISION 1 2 NEWSPAPER OR MAGAZINE 1 2 PAMPHLET/POSTER/LEAFLETS 1 2 COMMUNITY EVENT/CONV 1 2 | |
| 715 | In the last few months have you heard or seen the following media messages on family planning? Its wise to have a balanced family life Your family happiness is in your hands Spacing of birth will be a source for a loving,caring and healthy family Chidren by choice not by chance | Its wise to have a balanced family life 1 2 Your family happiness is in your hands 1 2 Spacing of birth will be a source for a loving,caring and healthy family 1 2 Children by choice not by chance 1 2 | |
| 716 | CHECK 601: YES, CURRENTLY MARRIED YES, LIVING NOT IN UNION | | > 801 |
| 717 | CHECK 303: USING A CONTRACEPTIVE METHOD? NOT CURRENTLY USING OR NOT ASKED | | → 720 |
| 718 | Would you say that using contraception is mainly your decision, mainly your husband's/partner's decision, or did you both decide together? | MAINLY RESPONDENT 1 MAINLY HUSBAND/PARTNER 2 JOINT DECISION 3 OTHER 6 (SPECIFY) | |
| 719 | CHECK 304: NEITHER HE OR SHE STERILIZED STERILIZED | | > 801 |
| 720 | Does your husband/partner want the same number of children that you want, or does he want more or fewer than you want? | SAME NUMBER 1 MORE CHILDREN 2 FEWER CHILDREN 3 DON'T KNOW 8 | |

SECTION 8. HUSBAND'S BACKGROUND AND WOMAN'S WORK

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|--|----------------|
| 801 | CHECK 601 AND 602: | | |
| | CURRENTLY FORMERLY MARRIED/ LIVING WITH LIVED WITH A MAN A MAN | NEVER MARRIED AND NEVER LIVED WITH A MAN | → 803 → 807 |
| 802 | How old was your husband/partner on his last birthday? | AGE IN COMPLETED YEARS | |
| 803 | Did your (last) husband/partner ever attend school? | YES | → 806 |
| 804 | What is the highest level of school your husband attended: primary, secondary, technical/vocational or higher? | PRIMARY 1 SECONDARY 2 TECHNICAL/VOCATIONAL 3 HIGHER 4 DON'T KNOW 8 | → 806 |
| 805 | What is the highest grade/number of years he completed at that level? IF COMPLETED PRIMARY OR SECONDARY, RECORD COMPLETED GRADE. IF TECHNICAL/VOCATIONAL OR HIGHER, | GRADE/NUMBER OF YEARS | |
| | RECORD YEARS COMPLETED. IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL RECORD '00'. | | |
| 806 | CHECK 801: CURRENTLY MARRIED/ LIVING WITH A MAN What is your husband's/partner's occupation? That is, what kind of work does he mainly do? FORMERLY MARRIED/ LIVED WITH A MAN What was your (last) husband's/ partner's occupation? That is, what kind of work does he mainly do? | | |
| 807 | Aside from your own housework, have you done any work in the last seven days? | YES | → 811 |
| 808 | As you know, some women take up jobs for which they are paid in cash or kind. Others sell things, have a small business or work on the family farm or in the family business. In the last seven days, have you done any of these things or any other work? | YES | → 811 |
| 809 | Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, maternity leave or any other such reason? | YES | → 811 |
| 810 | Have you done any work in the last 12 months? | YES | → 815 |
| 811 | What is your occupation, that is, what kind of work do you mainly do? | | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|---|--------------|
| 812 | Do you do this work for a member of your family, for someone else, or are you self-employed? | FOR FAMILY MEMBER 1 FOR SOMEONE ELSE 2 SELF EMPLOYED. 3 | |
| 813 | Do you usually work throughout the year, or do you work seasonally, or only once in a while? | THROUGHOUT THE YEAR | |
| 814 | Are you paid in cash or in kind for this work or are you not paid at all? | CASH ONLY 1 CASH AND KIND 2 IN KIND ONLY 3 NOT PAID 4 | |
| 815 | CHECK 601: CURRENTLY MARRIED/LIVING WITH A MAN | | → 823 |
| 816 | CHECK 814: CODE 1 OR 2 CIRCLED OTHER | | → 819 |
| 817 | Who usually decides how the money you earn will be used: you, your husband/partner, or you and your husband/partner jointly? | RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 OTHER 6 (SPECIFY) 6 | |
| 818 | Would you say that the money that you earn is more than what your husband/partner earns, less than what he earns, or about the same? | MORE THAN HIM 1 LESS THAN HIM 2 ABOUT THE SAME 3 HUSBAND/PARTNER DOESN'T EARN ANY MONEY 4 DON'T KNOW 8 | → 820 |
| 819 | Who usually decides how your husband's/partner's earnings will be used: you, your husband/partner, or you and your husband/partner jointly? | RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND 3 HUSBAND/PARTNER JOINTLY 3 HUSBAND/PARTNER HAS 4 NO EARNINGS 4 OTHER 6 (SPECIFY) | |
| 820 | Who usually makes decisions about health care for yourself: you, your husband/partner, you and your husband/partner jointly, or someone else? | RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6 | |
| 821 | Who usually makes decisions about making major household purchases: you, your husband/partner, you and your husband/partner jointly or someone else? | RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6 | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|---|---|-------|
| 822 | Who usually makes decisions about visits to your family or relatives: you, your husband/partner, you and your husband/partner jointly or someone else? | RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6 | |
| 822A | Does your husband help you with household chores like looking after the children, cooking, cleaning the house, and doing other work around the house? | YES | → 823 |
| 822B | Does he help almost every day, at least once a week, or rarely? | EVERY DAY 1 AT LEAST ONCE A WEEK 2 RARELY 3 | |
| 823 | Do you own this or any other house either alone or jointly with someone else? | ALONE ONLY 1 JOINTLY ONLY 2 BOTH ALONE AND JOINTLY 3 DOES NOT OWN 4 | |
| 824 | Do you own any land either alone or jointly with someone else? | ALONE ONLY 1 JOINTLY ONLY 2 BOTH ALONE AND JOINTLY 3 DOES NOT OWN 4 | |
| 825 | PRESENCE OF OTHERS AT THIS POINT (PRESENT AND LISTENING, PRESENT BUT NOT LISTENING, OR NOT PRESENT) | PRES./ PRES./ NOT LISTEN. NOT PRES. LISTEN. CHILDREN < 10 | |
| 826 | In your opinion, is a husband justified in hitting or beating his wife in the following situations: If she goes out without telling him? If she neglects the children? If she argues with him? If she refuses to have sex with him? If she burns the food? | YES NO DK GOES OUT 1 2 8 NEGL. CHILDREN 1 2 8 ARGUES 1 2 8 REFUSES SEX 1 2 8 BURNS FOOD 1 2 8 | |
| 826A | Is there a law in Ethiopia that prevents a husband from beating his wife? | YES | |

SECTION 9. HIV/AIDS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|---|--|-------|
| 901 | Now I would like to talk about something else. Have you ever heard of an illness called AIDS? | YES | → 937 |
| 902 | Can people reduce their chance of getting the AIDS virus by having just one uninfected sex partner who has no other sex partners? | YES 1 NO 2 DON'T KNOW 8 | |
| 903 | Can people get the AIDS virus from mosquito bites? | YES 1 NO 2 DON'T KNOW 8 | |
| 904 | Can people reduce their chance of getting the AIDS virus by using a condom every time they have sex? | YES | |
| 905 | Can people get the AIDS virus by sharing food with a person who has AIDS? | YES | |
| 905A | Can people reduce their chance of getting the AIDS virus by abstaining from sexual intercourse? | YES | |
| 906 | Can people get the AIDS virus because of witchcraft, God's curse, or other supernatural means? | YES 1 NO 2 DON'T KNOW 8 | |
| 907 | Is it possible for a healthy-looking person to have the AIDS virus? | YES 1 NO 2 DON'T KNOW 8 | |
| 907A | Can people get the AIDS virus by sharing sharp materials such as razors/blades or through injection with non sterilized needles? | YES | |
| 908 | Can the virus that causes AIDS be transmitted from a mother to her baby: | YES NO DK DURING PREG | |
| | During pregnancy? During delivery? By breastfeeding? | DURING PREG. 1 2 8 DURING DELIVERY 1 2 8 BREASTFEEDING 1 2 8 | |
| 909 | CHECK 908: AT LEAST ONE 'YES' | THER | 911 |
| 910 | Are there any special drugs that a doctor or a nurse can give to a woman infected with the AIDS virus to reduce the risk of transmission to the baby? | YES | |
| 910A | CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, M | MAKE EVERY EFFORT TO ENSURE PRIVACY. | |
| 911 | CHECK 208 AND 215: NO BIF | RTHS | 926 |
| | LAST BIRTH SINCE LAST BIRTH BEF MESKEREM 2001 MESKEREM | | 926 |
| 912 | CHECK 408 FOR LAST BIRTH: HAD ANTENATAL CARE CARE | NO ATAL CARE | 926 |
| | · · · · · · · · · · · · · · · · · · · | | l |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|--|--------|
| 914 | During any of the antenatal visits for your last birth, did anyone talk to you about: Babies getting the AIDS virus from their mother? Things that you can do to prevent getting the AIDS virus? Getting tested for the AIDS virus? | YES NO DK AIDS FROM MOTHER 1 2 8 THINGS TO DO 1 2 8 TESTED FOR AIDS 1 2 8 | |
| 915 | Were you offered a test for the AIDS virus as part of your antenatal care? | YES | |
| 916 | I don't want to know the results, but were you tested for the AIDS virus as part of your antenatal care? | YES 1 NO 2 | → 926 |
| 917 | Where was the test done? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR WRITE THE NAME OF THE PLACE. (NAME OF PLACE(S)) | PUBLIC SECTOR 11 GOVT. HOSPITAL 11 GOVT. HEALTH CENTER 12 GOVT.HEALTH STATION/CLINIC 13 STAND-ALONE VCT CENTER 14 OTHER PUBLIC (SPECIFY) NGO NGO HEALTH FACILITY 21 STAND-ALONE VCT CENTER 22 MOBILE 23 OTHER NGO 24 PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 31 PRIVATECLINIC 32 OTHER PRIVATE 36 MEDICAL (SPECIFY) OTHER 96 (SPECIFY) | |
| 918 | I don't want to know the results, but did you get the results of the test? | YES | |
| 924 | Have you been tested for the AIDS virus since that time you were tested during your pregnancy? | YES 1 NO 2 | → 927 |
| 925 | How many months ago was your most recent HIV test? | MONTHS AGO TWO OR MORE YEARS 96 | → 929B |
| 926 | I don't want to know the results, but have you ever been tested to see if you have the AIDS virus? | YES | → 930 |
| 927 | How many months ago was your most recent HIV test? | MONTHS AGO TWO OR MORE YEARS 96 | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|---|--|--------------|
| 928 | I don't want to know the results, but did you get the results of the test? | YES | |
| 929 | Where was the test done? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR WRITE THE NAME OF THE PLACE. (NAME OF PLACE(S)) | PUBLIC SECTOR GOVT. HOSPITAL 11 GOVT.HEALTH CENTER 12 GOVT.HEALTH STATION/CLINIC 13 STAND-ALONE VCT CENTER 14 OTHER PUBLIC (SPECIFY) NGO NGO HEALTH FACILITY 21 STAND-ALONE VCT CENTER 22 MOBILE 23 OTHER NGO 24 (SPECIFY) PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 31 PRIVATE CLINIC 32 OTHER PRIVATE MEDICAL (SPECIFY) | |
| | | OTHER96 (SPECIFY) | |
| 929B | CHECK 918 OR 928: EVER RECEIVED DID NOT HIV TEST RESULTS HIV TEST | RECEIVE RESULTS | → 932 |
| 929C | CHECK 601 AND 602: EVER MARRIED OR LIVED NEVER MARF WITH A PARTNER LIVED WITH A I | | → 932 |
| 929D | The last time you were tested, did you share the results with your husband/partner? | YES 1 NO, DID NOT SHARE RESULT 2 NO HUSBAND/PARTNER AT THAT TIME 3 | 932 |
| 930 | Do you know of a place where people can go to get tested for the AIDS virus? | YES | → 932 |
| 931 | Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR WRITE THE NAME OF THE PLACE. (NAME OF PLACE(S)) | PUBLIC SECTOR A GOVT.HOSPITAL A GOVT.HEALTH CENTER B GOVT.HEALTH STATION/CLINIC C STAND-ALONE VCT CENTER D OTHER PUBLIC E (SPECIFY) NGO NGO HEALTH FACILITY F STAND-ALONE VCT CENTER G MOBILE H OTHER NGO I (SPECIFY) PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL J PRIVATE CLINIC K OTHER PRIVATE MEDICAL L (SPECIFY) OTHER X (SPECIFY) | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|---|--------------|
| 932 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had the AIDS virus? | YES 1 NO 2 DON'T KNOW 8 | |
| 933 | If a member of your family got infected with the AIDS virus, would you want it to remain a secret or not? | YES, REMAIN A SECRET 1 NO 2 DK/NOT SURE/DEPENDS 8 | |
| 934 | If a member of your family became sick with AIDS, would you be willing to care for her or him in your own household? | YES 1 NO 2 DK/NOT SURE/DEPENDS 8 | |
| 935 | In your opinion, if a female teacher has the AIDS virus but is not sick, should she be allowed to continue teaching in the school? | SHOULD BE ALLOWED 1 SHOULD NOT BE ALLOWED 2 DK/NOT SURE/DEPENDS 8 | |
| 936 | Should children age 12-14 be taught about using a condom to avoid getting AIDS? | YES 1 NO 2 DK/NOT SURE/DEPENDS 8 | |
| 937 | CHECK 901: HEARD ABOUT AIDS Apart from AIDS, have you heard about other infections that can be transmitted through sexual contact? NOT HEARD ABOUT AIDS Have you heard about infections that can be transmitted through sexual contact? | YES | |
| 938 | CHECK 613: HAS HAD SEXUAL INTERCOURSE INTERC | SEXUAL OURSE | → 946 |
| 939 | CHECK 937: HEARD ABOUT OTHER SEXUALLY TRANSMITTED I | NFECTIONS? | 941 |
| 940 | Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact? | YES 1 NO 2 DON'T KNOW 8 | |
| 941 | Sometimes women experience a bad smelling abnormal genital discharge. During the last 12 months, have you had a bad smelling abnormal genital discharge? | YES | |
| 942 | Sometimes women have a genital sore or ulcer. During the last 12 months, have you had a genital sore or ulcer? | YES 1 NO 2 DON'T KNOW 8 | |
| 943 | INFECTION INFE | T HAD AN CTION OR OT KNOW | → 946 |
| 944 | The last time you had (PROBLEM FROM 940/941/942), did you seek any kind of advice or treatment? | YES | → 946 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|---|---------|
| 945 | Where did you go? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR WRITE THE NAME OF THE PLACE. (NAME OF PLACE(S)) | PUBLIC SECTOR A GOVT. HOSPITAL A GOVT. HEALTH CENTER B GOVT. HEALTH STATION/CLINC C GOVT. HEALTH POST/HEW D OTHER PUBLIC E (SPECIFY) NGO HEALTH FACILITY F PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL G PRIVATE CLINIC H PHARMACY I OTHER PRIVATE MEDICAL J (SPECIFY) OTHER SOURCE DRUG VENDOR/STORE K SHOP L TRADITIONAL HEALER M OTHER X | |
| 946 | If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have sex? | YES 1 NO 2 DON'T KNOW 8 | |
| 947 | Is a wife justified in refusing to have sex with her husband when she knows her husband has sex with other women? | YES 1 NO 2 DON'T KNOW 8 | |
| 948 | CHECK 601: CURRENTLY MARRIED/ LIVING WITH A MAN | NION | ► 1000A |
| 949 | Can you say no to your husband/partner if you do not want to have sexual intercourse? | YES 1 NO 2 DEPENDS/NOT SURE 8 | |
| 950 | Could you ask your husband/partner to use a condom if you wanted him to? | YES 1 NO 2 DEPENDS/NOT SURE 8 | |

SECTION 10. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-------|---|--|--------|
| 1000A | Have you ever heard of the Community Conversation program? | YES | →1000C |
| 1000B | Have you ever attended any Community Conversation meeting? IF YES: When was the last time you attended? | WITHIN LAST THREE MONTHS 1 4-11 MONTHS AGO 2 ONE YEAR OR MORE AGO 3 NEVER ATTENDED 4 | |
| 1000C | Have you ever heard of an illness called tuberculosis or TB? | YES | 1001 |
| 1000D | How can a person get tuberculosis or TB? PROBE: Any other ways? RECORD ALL MENTIONED. | THROUGH THE AIR WHEN COUGHING OR SNEEZING A THROUGH SHARING UTENSILS B THROUGH TOUCHING A PERSON WITH TB C THROUGH FOOD D THROUGH SEXUAL CONTACT E THROUGH MOSQUITO BITES F THROUGH DRINKING UNBOILED MILK G EXPOSURE TO COLD H OTHER X (SPECIFY) DON'T KNOW Z | |
| 1000E | What symptoms will a person with tuberculosis or TB have? Anything else? RECORD ALL MENTIONED. | PERSISTENT COUGH (GREATER THAN TWO WEEKS) | |
| 1000F | Can tuberculosis or TB be cured? | YES | |
| 1000G | If a member of your family got tuberculosis or TB, would you want it to remain a secret or not? | YES, REMAIN A SECRET 1 NO 2 DON'T KNOW/NOT SURE/ 0 DEPENDS 8 | |
| 1001 | Now I would like to ask you some other questions relating to health matters. Have you had an injection for any reason in the last 12 months? IF YES: How many injections have you had? IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. | NUMBER OF INJECTIONS | →1004 |
| 1002 | Among these injections, how many were administered by a: a) doctor, a nurse, a pharmacist, a dentist, or any other health worker? b) traditional practioner/injectior? IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. | NUMBER OF INJECTIONS HEALTH WORKER | |
| 1002A | IF NONE RECORD '00'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. The last time you got an injection, who administered | HEALTH WORKER 1 | |
| | the injection? | TRADITIONAL PRACTITIONEF | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-------|---|---|---------------|
| 1003 | The last time you got an injection, did the person who gave you the injection take the syringe and needle from a new, unopened package? | YES | |
| 1004 | Do you currently smoke cigarettes? | YES | → 1006 |
| 1005 | In the last 24 hours, how many cigarettes did you smoke? | CIGARETTES | |
| 1006 | Do you currently smoke or use any other type of tobacco? | YES | → 1007A |
| 1007 | What (other) type of tobacco do you currently smoke or use? RECORD ALL MENTIONED. | PIPE A CHEWING TOBACCO B SNUFF/SURET C SHISHA D GAYA E OTHER X (SPECIFY) | |
| 1007A | Have you ever chewed chat? | YES | → 1007C |
| 1007B | During the last 30 days how many days did you chew chat? | DAYS | |
| 1007C | Have you ever taken a drink that contains alcohol (Tella/Tegi/ Areke/Beer/Wine, etc)? | YES | → 1008 |
| 1007D | During the last 30 days, how many days did you take a drink that contains alcohol? | DAYS | |
| 1008 | Many different factors can prevent women from getting medical advice or treatment for themselves. When you are sick and want to get medical advice or treatment, is each of the following a big problem or not? | BIG NOT A BIG PROB- PROB- LEM LEM | |
| | Getting permission to go to the doctor? | PERMISSION TO GO 1 2 | |
| | Getting money needed for treatment? | GETTING MONEY 1 2 | |
| | The distance to the health facility? | DISTANCE 1 2 | |
| | Having to take transport? | TAKING TRANSPORT 1 2 | |
| | Workload inside /outside home? | WORK LOAD 1 2 | |
| | Not wanting to go alone? | GO ALONE 1 2 | |
| | Concern that there may not be a female health provider? | NO FEMALE PROV 1 2 | |
| | Concern that there may not be any health provider? | NO PROVIDER 1 2 | |
| | Concern that there may be no drugs available? | NO DRUGS 1 2 | |
| 1009 | Are you covered by any health insurance? | YES | → 1101 |
| 1010 | What type of health insurance are you covered by? RECORD ALL MENTIONED. | MUTUAL HEALTH ORGANIZATION/ COMMUNITY-BASED HEALTH INSURANCE A HEALTH INSURANCE THROUGH EMPLOYER B SOCIAL SECURITY C OTHER PRIVATELY PURCHASED COMMERCIAL HEALTH INSURANCE. D OTHER X (SPECIFY) | |

SECTION 11. MATERNAL MORTALITY

| pregnant when she died? GO TO 1113 → NO 2 NO | NO. | QUES | STIONS AND FILTE | ERS | l | | CODING CA | TEGORIES | SKIP |
|--|---------|--|--|---|--|--|---|---|--|
| TWO OR MORE BIRTHS | 1101 | brothers and sisters, to natural mother, includ those living elsewhere | hat is, all of the child ing those who are li e and those who have | dren born to your ving with you, ve died. | ou? | | | | |
| TWO OR MORE BIRTHS | 1102 | CHECK 1101: | , , | | | | | | |
| 1104 What was the nare given to your oldest (rest oldest) (rest olde | 1102 | | E BIRTHS | (R | | | 1 1 | | 1114 |
| name given to your oldest (next oldest) brother or sister? | 1103 | - | rths did your mothe | r have before | | | | | |
| male or female? FEMALE 2 FEMALE 3 FE | 1104 | name given to your oldest (next oldest) | (1) | (2) | (3) | | (4) | (5) | (6) |
| alive? | 1105 | , , | | | | | | | |
| (NAME)? GO TO (2) GO TO (3) GO TO (4) GO TO (5) GO TO (6) GO TO (7) | 1106 | ` ' | NO 2 GO TO 1108◀ DK 8¬ | NO 2 GO TO 1108 ◀ DK 8 ¬ | NO GO TO ' DK | . 2 1108 √ . 8 ₁ | NO 2 GO TO 1108 ◀ DK 8 ¬ | NO 2 GO TO 1108 ◀ | NO 2 GO TO 1108◀ DK 8 ₇ |
| 1109 How old was (NAME) when he/she died? IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (2) GO TO (11)3 NO 2 | 1107 | | GO TO (2) | GO TO (3) | GO TO | O (4) | GO TO (5) | GO TO (6) | GO TO (7) |
| (NAME) when he/she died? IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (2) Was (NAME) pregnant when she died? 1110 Did (NAME) die within two months after the end of a pregnancy or childbirth? (NAME) when he/she died? IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (3) OR DIED BEFORE 12 YEARS OF AGE GO TO (4) OR DIED BEFORE 12 YEARS OF AGE GO TO (5) OF AGE GO TO (4) OR DIED BEFORE 12 YEARS OF AGE GO TO (6) OR DIED BEFORE 12 YEARS OF AGE GO TO (6) OR DIED BEFORE 12 YEARS OF AGE GO TO (6) OR DIED BEFORE 12 YEARS OF AGE GO TO (6) OR DIED BEFORE 12 YEARS OF AGE GO TO (6) OR DIED BEFORE 12 YEARS OF AGE GO TO (6) OR DIED BEFORE 12 YEARS OF AGE GO TO (6) OR DIED BEFORE 12 YEARS OF AGE GO TO (6) OR DIED BEFORE 12 YEARS OF AGE GO TO (6) OF AGE GO TO (11) 4 GO TO 1113 4 NO 2 OF AGE GO TO (11) 4 GO TO 1113 4 NO 2 OF AGE GO TO (11) 4 NO 2 OF AGE GO TO (11) 4 NO 2 OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (7) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (7) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (6) OF AGE GO TO (7) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AGE GO TO (6) OF AGE GO TO (6) OF AGE GO TO (11) 4 OF AGE GO TO (6) OF AG | 1108 | | | | | | | | |
| OR DIED BEFORE 12 YEARS 13 YES 1 | 1109 | (NAME) when | | | | | | | |
| pregnant when she died? QO TO 1113 | | | OR DIED BEFORE 12 YEARS OF AGE | OR DIED BEFORE 12 YEARS OF AGE | OR DIEI BEFORE 12 YEAF OF AGE | D E RS | OR DIED BEFORE 12 YEARS OF AGE | OR DIED BEFORE 12 YEARS OF AGE | OR DIED BEFORE 12 YEARS OF AGE |
| die during childbirth? GO TO 11113 | 1110 | pregnant when | GO TO 1113 ∢ | GO TO 1113 ∢ | GO TO | 1113 | GO TO 1113 ◀ | GO TO 1113◀ | YES 1 GO TO 1113 ◀ NO 2 |
| within two months after the end of a pregnancy or childbirth? NO 2 NO | 1111 | die during | GO TO 1113 ∢ | GO TO 1113◀ | GO TO | 1113 | GO TO 1113◀ | GO TO1113 🗸 | YES 1 GO TO 1113 ◀ NO 2 |
| born children did (NAME) give birth to during her lifetime? | 1112 | within two months after the end of a pregnancy or | | | | | | | |
| IF NO MORE BROTHERS OR SISTERS, GO TO 1114. | 1113 | born children did (NAME) give birth to during her | | | | | | | |
| | IF NO N | MORE BROTHERS OR S | ISTERS, GO TO 11 | 114. | | | | | |

| NO. | QUES | STIONS AND FILTE | RS | | CODING CA | TEGORIES | SKIP |
|---------|--|---|--|--|---|---|--|
| 1104 | What was the name given to your oldest (next oldest) brother or sister? | (7) | (8) | (9) | (10) | (11) | (12) |
| 1105 | Is (NAME) male or female? | MALE 1 FEMALE 2 | MALE 1 FEMALE 2 | MALE 1 FEMALE 2 | MALE 1 FEMALE 2 | MALE 1 FEMALE 2 | MALE 1 FEMALE 2 |
| 1106 | Is (NAME) still alive? | YES 1 NO 2 GO TO 11084 DK 8 GO TO (8) | YES 1 NO 2 GO TO 1108 ← DK 8 GO TO (9) ← | YES 1 NO 2 GO TO 1108- DK 8 GO TO (10) • | GO TO 1108 → DK 8 ¬ | YES 1 NO 2 GO TO 1108 DK 8 GO TO (12) | YES 1 NO 2 GO TO 11084 DK 8 GO TO (13) 4 |
| 1107 | How old is (NAME)? | GO TO (8) | GO TO (9) | GO TO (10) | GO TO (11) | GO TO (12) | GO TO (13) |
| 1108 | How many years ago did (NAME) die? | | | | | | |
| 1109 | How old was (NAME) when he/she died? | IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO [8] | IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (9) | IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (10) | IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (11) | IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (12) | IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (13) |
| 1110 | Was (NAME) pregnant when she died? | YES 1 GO TO 1113 ◀ NO 2 | YES 1 GO TO 1113 ◀ NO 2 | YES 1 GO TO 1113- NO 2 | | YES 1 GO TO 1113 √ NO 2 | YES 1 GO TO 1113♣ NO 2 |
| 1111 | Did (NAME) die during childbirth? | YES 1 GO TO 11134 NO 2 | YES 1 GO TO 1113 ₄ NO 2 | YES 1 GO TO 1113- NO 2 | | YES 1 GO TO 1113 ◀ NO 2 | YES 1 GO TO 1113 ◀ NO 2 |
| 1112 | Did (NAME) die within two months after the end of a pregnancy or childbirth? | YES 1 NO 2 | YES 1 NO 2 | YES 1 NO 2 | YES 1 NO 2 | YES 1 NO 2 | YES 1 NO 2 |
| 1113 | How many live born children did (NAME) give birth to during her lifetime? | | | | | | |
| IF NO M | 10RE BROTHERS OR S | ISTERS, GO TO 11 | 14. | | | | |
| 1114 | RECORD THE TIME. MORNING = 1 EVENING = 2 | | | НС | DRNING/EVENING DUR | | |

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

| COMMENTS ABOUT RESPONDENT: | | |
|---------------------------------|---------------------------|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| COMMENTS ON SPECIFIC QUESTIONS: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| ANY OTHER COMMENTS: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | SUPERVISOR'S OBSERVATIONS | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| NAME OF SUPERVISOR: | DATE: | |
| | | |
| | EDITOR'S OBSERVATIONS | |
| | | |
| | | |
| | | |
| | | |
| | | |
| NAME OF EDITOR: | DATE | |
| INAIVIE UF EULLUK: | DATE: | |

ONLY ONE CODE SHOULD APPEAR IN ANY BOX. ALL MONTHS SHOULD BE FILLED IN. INFORMATION TO BE CODED FOR EACH COLUMN BIRTHS, PREGNANCIES, CONTRACEPTIVE USE **
B BIRTHS PREGNANCIES **TERMINATIONS** 0 NO METHOD 1 FEMALE STERILIZATION 2 MALE STERILIZATION 2 MAL 3 IUD INJECTABLES 5 IMPLANTS 6 7 PILL MALE CONDOM FEMALE CONDOM 8 DIAPHRAGM/FOAM/JELLY STANDARD DAYS METHOD LACTATIONAL AMENORRHEA METHOD
RHYTHM METHOD
WITHDRAWAL
OTHER MODERN M (SPECIFY)

OTHER TRADITIONAL_

(SPECIFY)

INSTRUCTIONS:

| | 13 | PAG | 01 | | |
|---|--|---|--|---|--|
| | 12 | NEH | 02 | | ı |
| | 11 | HAM | 03 | | |
| | 10 | SENE | 04 | | |
| | 09 | GEN | 05 | | |
| 2 | 80 | MEI | 06 | | 2 |
| 0 | 07 | MEG | 07 | | 0 |
| 0 | 06 | YEK | 80 | | 0 |
| 3 | 05 | TIRR | 09 | | 3 |
| E. | 04 | TAH | 10 | | E. |
| C. | 03 | HID | 11 | - | C. |
| | 02 | TIK | 12 | | l |
| | 01 | MES | 13 | | _ |
| | 13 | PAG | 14 | | Т |
| | 12 | NEH | 15 | | 1 |
| | 11 | HAM | 16 | | 1 |
| | 10 | SENE | 17 | | 1 |
| 2 | 09 | GEN | 18 | | 2 |
| 0 | 08 | MEI | 19 | | 0 |
| 0 | 07 | MEG | 20 | | 0 |
| 2 | 06 | YEK | 21 | | 2 |
| E. | 05 | TIRR | 22 | | E. |
| C. | 04 | TAH | 23 | | C. |
| | 03 | HID | 24 | |] |
| | 02 | TIK | 25 | |] |
| | 01 | MES | 26 | | L |
| | | | | | _ |
| | 13 | PAG | 27 | | |
| | 12 | NEH | 28 | | l |
| | 11 | HAM | 29 | | l |
| 0 | 10 | SENE | 30 | - | |
| 2 | 09 | GEN | 31 | | 2 |
| 0 | 08 | MEI MEG | 32 33 | | 0 |
| 1 | 07 06 | YEK | 34 | - | 1 |
| Ė. | 05 | TIRR | 35 | | É. |
| C. | 03 | TAH | 36 | | C. |
| О. | 03 | HID | 37 | | О. |
| | 02 | TIK | 38 | | l |
| | 01 | MES | 39 | | l |
| _ | _ | | | | _ |
| | | | | | |
| | 13 | PAG | 40 | | Г |
| | 13 12 | PAG NEH | 40 41 | | Γ |
| | 12 11 | NEH HAM | 41 42 | | |
| | 12 11 10 | NEH HAM SENE | 41 42 43 | | |
| | 12 11 10 09 | NEH HAM SENE GEN | 41 42 43 44 | | |
| 2 | 12 11 10 09 08 | NEH HAM SENE GEN MEI | 41 42 43 44 45 | | 2 |
| 0 | 12 11 10 09 08 07 | NEH HAM SENE GEN MEI MEG | 41 42 43 44 45 46 | | 0 |
| 0 | 12 11 10 09 08 07 06 | NEH HAM SENE GEN MEI MEG YEK | 41 42 43 44 45 46 47 | | 0 0 |
| 0 0 0 | 12 11 10 09 08 07 06 05 | NEH HAM SENE GEN MEI MEG YEK TIRR | 41 42 43 44 45 46 47 48 | | 0 0 0 |
| 0 0 0 E. | 12 11 10 09 08 07 06 05 04 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH | 41 42 43 44 45 46 47 48 49 | | 0 0 0 E. |
| 0 0 0 | 12 11 10 09 08 07 06 05 04 03 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID | 41 42 43 44 45 46 47 48 49 50 | | 0 0 0 |
| 0 0 0 E. | 12 11 10 09 08 07 06 05 04 03 02 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK | 41 42 43 44 45 46 47 48 49 50 51 | | 0 0 0 E. |
| 0 0 0 E. | 12 11 10 09 08 07 06 05 04 03 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID | 41 42 43 44 45 46 47 48 49 50 | | 0 0 0 E. |
| 0 0 0 E. | 12 11 10 09 08 07 06 05 04 03 02 01 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 | | 0 0 0 E. |
| 0 0 0 E. | 12 11 10 09 08 07 06 05 04 03 02 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK | 41 42 43 44 45 46 47 48 49 50 51 | | 0 0 0 E. |
| 0 0 0 E. | 12 11 10 09 08 07 06 05 04 03 02 01 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 | | 0 0 0 E. |
| 0 0 0 E. | 12 11 10 09 08 07 06 05 04 03 02 01 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 | | 0 0 0 E. |
| 0 0 0 E. | 12 11 10 09 08 07 06 05 04 03 02 01 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 | | 0 0 0 E. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 12 11 10 09 08 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 | | 0 0 E. C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 12 11 10 09 08 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 | | 0 0 0 E. C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 12 11 10 09 08 07 06 06 05 06 06 06 07 07 06 06 06 07 07 07 08 07 07 07 07 07 07 07 07 07 07 07 07 07 | NEH HAM SENE GEN MEI HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 | | 0 0 0 E. C. |
| 0 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 12 11 10 09 08 07 06 06 05 05 05 05 05 05 05 05 05 05 05 05 05 | NEH HAM SENE GEN MEI MEG YEK TIRH HID TIK SENE GEN MEI MES YEK TIRR | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 | | 0 0 0 E. C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 12 11 10 09 08 07 06 05 04 07 06 05 04 07 06 06 07 07 06 07 07 06 07 07 07 07 07 07 07 07 07 07 07 07 07 | NEH HAM SENE GEN MEI MEG YEK TIRH HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TAH | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62 | | 0 0 E.C. |
| 0 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 12 11 10 09 08 07 06 05 04 05 04 05 04 06 06 06 06 07 06 06 06 06 06 06 06 06 06 06 06 06 06 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55 66 57 58 89 60 61 62 63 | | 0 0 0 E. C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 12 11 10 09 08 07 06 05 04 03 02 01 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 | | 0 0 E.C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 12 11 10 09 08 07 06 05 04 05 04 05 04 06 06 06 06 07 06 06 06 06 06 06 06 06 06 06 06 06 06 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55 66 57 58 89 60 61 62 63 | | 0 0 E.C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 11 10 09 08 07 06 05 04 03 02 01 | NEH HAM SENE GEN MEI MEG YEK TIRK MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 64 64 64 64 64 64 64 64 64 64 64 64 | | 0 0 E.C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 12 11 10 09 08 07 06 05 04 03 02 01 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 | | 0 0 E.C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 13 11 10 09 08 07 06 05 04 03 02 01 11 11 09 09 08 09 09 09 09 09 09 09 09 09 09 09 09 09 | NEH HAM SENE GEN MEI MEG YEK TIRR HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES PAG | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 66 61 62 63 64 66 | | 0 0 E.C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 11 11 10 09 08 07 06 05 05 04 04 03 02 01 11 11 11 11 09 09 09 09 09 09 09 09 09 09 09 09 09 | NEH HAM SENE GEN MEI MEG YEK TIRR HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR HID TIK MES PAG NEH HID TIK MES PAG NEH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 62 63 64 65 | | 0 0 E.C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 11 10 09 08 07 06 05 05 04 03 12 11 11 10 09 09 11 11 11 11 11 11 11 11 11 11 11 11 11 | NEH HAM SENE GEN MEI MEG YEK TIRR TIRR TIRR TAH HID TIK SENE GEN MEI MEG YEK TIRR TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 68 66 67 68 | | 0 0 E.C. |
| 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 11 10 09 08 05 04 09 09 08 07 09 09 09 09 09 09 09 09 09 09 09 09 09 | NEH HAMN SENE GEN MEI MEG YEK TIRR TAH HID TIK SENE GEN MEI MEG YEK TAH HID TIK SENE GEN MEI MEG YEK TAH HID TIK MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 66 67 62 63 64 65 66 67 68 69 | | 0 0 E.C. |
| 0 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 11 10 09 08 07 06 05 09 09 09 09 09 09 09 09 09 09 09 09 09 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TAH HID TIK SENE GEN MEI MEG NEH HAM SENE GEN | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 66 61 62 63 64 65 66 67 68 69 70 | | 0 0 0 E.C. |
| 0 0 0 E. C. | 12 11 10 09 08 07 06 05 04 03 02 01 11 10 09 08 07 06 05 09 09 08 07 09 11 11 11 11 10 10 10 10 10 10 10 10 10 | NEH HAM SENE GEN MEI MEG YEK TIRR HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR HAM SENE GEN MEI MEG NEH HAM SENE MEI MEG NEH HAM SENE MEI MEI MEI MES | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 61 62 63 64 65 66 67 68 69 70 71 | | 0 0 0 E.C. 1 9 9 E.C. |
| 0 0 0 E.C. 1 9 9 9 E.C. | 12 11 10 09 08 07 06 05 04 03 02 11 11 00 99 08 07 06 05 04 03 12 11 11 10 09 09 09 09 09 09 09 09 09 09 09 09 09 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK SENE GEN MEI MEG YEK TAH HID TIK SENE GEN MEI MEG YEK TAH HID TIK SENE GEN MEI MEG YEK TIRR TAH HID TIK SENE GEN MEI MEG YEK TIRR TAH HID TIK SENE GEN MEI MEG YEK TIRR | 41 42 43 44 45 46 47 48 49 50 51 52 55 56 57 58 60 61 62 63 64 65 66 67 68 69 70 71 72 | | 0 0 0 E. C. 1 9 9 8 8 |
| 0 0 0 E.C. 1 9 9 9 E.C. 1 9 9 8 E. | 12 11 10 09 08 07 06 05 04 03 02 01 11 10 09 08 07 06 05 04 03 02 11 11 10 09 09 08 07 09 09 09 09 09 09 09 09 09 09 09 09 09 | NEH HAM SENE GEN MEI MEG YEK TIRR HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR TAH HAM SENE GEN MEI MEG YEK TIRR TAH HAM SENE MEI MEG YEK TAH HAM SENE MEI MEG YEK TAH | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 61 62 63 64 65 67 68 69 70 71 72 73 74 75 | | 0 0 0 E. C. 1 9 9 8 E. |
| 0 0 0 E.C. 1 9 9 9 E.C. | 12 11 10 09 08 07 06 05 04 03 02 11 11 10 09 08 05 05 04 03 02 11 11 10 09 09 09 09 09 09 09 09 09 09 09 09 09 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES PAG NEH HID TIK MES PAG YEK TIRR TAH HID MES PAG YEK TIRR TAH HID MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID | 41 42 43 44 45 46 47 48 49 50 51 52 55 56 57 58 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 | | 0 0 0 E. C. 1 9 9 8 8 |
| 0 0 0 E.C. 1 9 9 9 E.C. 1 9 9 8 E. | 12 11 10 09 08 07 06 05 04 03 12 11 10 09 08 05 04 03 02 01 11 10 09 08 05 05 06 05 06 06 06 06 06 06 06 06 06 06 06 06 06 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK SENE GEN MEI MES PAG NEH HAM SENE GEN MEI MES PAG NEH HAM SENE GEN MEI MES TIRR TAH HID TIK | 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 66 67 68 69 70 71 72 73 74 75 67 76 | | 0 0 0 E. C. 1 9 9 8 E. |
| 0 0 0 E.C. 1 9 9 9 E.C. 1 9 9 8 E. | 12 11 10 09 08 07 06 05 04 03 02 11 11 10 09 08 05 05 04 03 02 11 11 10 09 09 09 09 09 09 09 09 09 09 09 09 09 | NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID TIK MES PAG NEH HID TIK MES PAG YEK TIRR TAH HID MES PAG YEK TIRR TAH HID MES PAG NEH HAM SENE GEN MEI MEG YEK TIRR TAH HID | 41 42 43 44 45 46 47 48 49 50 51 52 55 56 57 58 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 | | 0 0 0 E. C. 1 9 9 8 E. |

CENTRAL STATISTICAL AGENCY 2010 ETHIOPIA DEMOGRAPHIC AND HEALTH SURVEY MAN'S QUESTIONNAIRE

IMPLEMENTING ORGANIZATION: CSA

| INFLEMENTING ORGANIZA | | IDENTIFICATION | | | |
|--|-----------------------|---------------------------------------|---------|------------------------|------------|
| HOUSEHOLD NUMBER | | | | | |
| | | INTERVIEWER VIS | ITS | | |
| | 1 | 2 | 3 | FII | NAL VISIT |
| DATE | | _ | | . DAY MONTH | |
| INTERVIEWER'S NAME RESULT* | | | | YEAR INT. NUMBE RESULT | R |
| NEXT VISIT: DATE | | | | TOTAL NUM OF VISITS | BER |
| *RESULT CODES: 1 COMPLET 2 NOT AT H 3 POSTPON | OME 5 PAI | FUSED RTLY COMPLETED APACITATED | 7 OTHER | (SPECIF) | <u>'')</u> |
| LANGUAGE OF QUESTIONNAIRE: | LANGUAGE INTERVIEV | | | AGE OF NDENT: | |
| LANGUAGE CODES: AM/ TRANSLATOR USED: (YES = 1, NO = 2) | ARIGNA = 1, OROMIGN | NA = 2, TIGRIGNA = 3, OTHER | ₹ = 6 | | • |
| SUPERVI | SOR | FIELD EDIT | OR | OFFICE EDITOR | KEYED BY |
| NAME | | DATE | | | |

SECTION 1. RESPONDENT'S BACKGROUND

INTRODUCTION AND CONSENT

| INFORME | D CONSENT | | | |
|--|---|---|--------|--|
| Hello. My name is I am working with the Central Statistical Agency (CSA). We are conducting a survey about health all over Ethiopia. The information we collect will help the government to plan health services. Your household was selected for the survey. The survey usually takes about 20 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. | | | | |
| | y question you don't want to answer, just let me know and I will go on to t at any time. | he next question or you can stop the | | |
| | ve any questions? in the interview now? | | | |
| Signature | of interviewer: | Date: | | |
| RESPONI | DENT AGREES TO BE INTERVIEWED 1 RESPONDENT | DOES NOT AGREE TO BE INTERVIEWED | 2→ END | |
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP | |
| 101 | RECORD THE TIME. MORNING = 1 EVENING = 2 | MORNING/EVENING | | |
| | EVERNING - 2 | MINUTES | | |
| 102 | In what month and year were you born? | MONTH | | |
| | | DON'T KNOW MONTH | | |
| | | DON'T KNOW YEAR 9998 | | |
| 103 | How old were you at your last birthday? COMPARE AND CORRECT 102 AND /OR 103 IF INCONSISTENT. | AGE IN COMPLETED YEARS | | |
| 104 | Have you ever attended school? | YES | → 107A | |
| 105 | What is the highest level of school you attended: primary, secondary, technical/vocational or higher? | PRIMARY 1 SECONDARY 2 TECHNICAL/VOCATIONAL 3 HIGHER 4 | | |
| 106 | What is the highest grade/number of years you completed at that level? | GRADE/NUMBER OF YEARS | | |
| | IF COMPLETED PRIMARY OR SECONDARY, RECORD COMPLETED GRADE. IF TECHNICAL/VOCATIONAL OR HIGHER, RECORD YEARS COMPLETED. | | | |
| | IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL RECORD '00'. | | | |
| 107 | CHECK 105: | | | |
| | PRIMARY SECONDARY AND ABOVE | | →110 | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|--|---|--------------|
| 107A | Have you ever attended a Bible school or Koranic school or any other informal school that involves learning to read and/or write (not including primary school)? | YES | |
| 108 | Now I would like you to read this sentence to me. SHOW CARD TO RESPONDENT. IF RESPONDENT CANNOT READ WHOLE SENTENCE, PROBE: Can you read any part of the sentence to me? | CANNOT READ AT ALL | |
| 109 | CHECK 108: CODE '2', '3' OR '4' CIRCLED CODE '1' OR '5' CIRCLED | | → 111 |
| 110 | Do you read a newspaper or magazine at least once a week, less than once a week or not at all? | AT LEAST ONCE A WEEK | |
| 111 | Do you listen to the radio at least once a week, less than once a week or not at all? | AT LEAST ONCE A WEEK | |
| 112 | Do you watch television at least once a week, less than once a week or not at all? | AT LEAST ONCE A WEEK | |
| 113 | What is your religion? | ORTHODOX 1 CATHOLIC 2 PROTESTANT 3 MOSLEM 4 TRADITIONAL 5 OTHER 6 (SPECIFY) | |
| 114 | What is your ethnicity? RECORD THE MAJOR ETHNIC GROUP. CODE FOR ETHNIC GROUP WILL BE FILLED IN BY OFFICE EDITOR. | | |
| 115 | In the last 12 months, how many times have you been away from home for one or more nights? IF NUMBER OF TIMES IS 90 OR MORE, RECORD '90'. | NUMBER OF TIMES | → 201 |
| 116 | In the last 12 months, have you been away from home for more than one month at a time? | YES | 201 |
| 116A | The last time you were away from home for more than one month were you mainly staying in a city, town or rural areas? | CITY/TOWN1 RURAL AREA2 | |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|-------------------------------------|----------------|
| 201 | Now I would like to ask about any children you have had during your life. I am interested in all of the children that are biologically yours, even if they are not legally yours or do not have your last name. Have you ever fathered any children with any woman? | YES | 7 206 |
| 202 | Do you have any sons or daughters that you have fathered who are now living with you? | YES | 200 |
| 203 | How many sons live with you? And how many daughters live with you? IF NONE, RECORD '00'. | SONS AT HOME DAUGHTERS AT HOME | |
| 204 | Do you have any sons or daughters that you have fathered who are alive but do not live with you? | YES | → 206 |
| 205 | How many sons are alive but do not live with you? And how many daughters are alive but do not live with you? IF NONE, RECORD '00'. | SONS ELSEWHERE DAUGHTERS ELSEWHERE | |
| 206 | Have you ever fathered a son or a daughter who was born alive but later died? IF NO, PROBE: Any baby who cried or showed signs of life but did not survive? | YES | 208 |
| 207 | How many boys have died? And how many girls have died? IF NONE, RECORD '00'. | BOYS DEAD | |
| 208 | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'. | TOTAL CHILDREN | |
| 209 | CHECK 208: HAS HAD MORE THAN ONE CHILD ONE CHILD HAS NOT ANY CHIL | | → 212 → 301 |
| 210 | Did all of the children you have fathered have the same biological mother? | YES | → 212 |
| 211 | In all, how many women have you fathered children with? | NUMBER OF WOMEN | |
| 212 | How old were you when your (first) child was born? | AGE IN YEARS | |
| 213 | CHECK 203 AND 205: AT LEAST ONE NO LI' LIVING CHILD CHILD | | →301 |
| 214 | How many years old is your (youngest) child? | AGE IN YEARS | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|--|--------|
| 215 | CHECK 214: (YOUNGEST) CHILD OTHER IS AGE 0-2 YEARS | | → 301 |
| 216 | What is the name of your (youngest) child? WRITE NAME OF (YOUNGEST) CHILD (NAME OF (YOUNGEST) CHILD) | | |
| 217 | When (NAME)'s mother was pregnant with (NAME), did she have any antenatal check-ups? | YES | 1, 219 |
| 218 | Were you ever present during any of those antenatal check-ups? | PRESENT 1 NOT PRESENT 2 | |
| 219 | Was (NAME) born in a hospital or health facility? | HOSPITAL/HEALTH FACILITY 1 OTHER | |
| 220 | When a child has diarrhea, how much should he or she be given to drink: more than usual, the same amount as usual, less than usual, or should he or she not be given anything to drink at all? | MORE THAN USUAL 1 ABOUT THE SAME 2 LESS THAN USUAL 3 NOTHING TO DRINK 4 DON'T KNOW 8 | |

SECTION 3. CONTRACEPTION

| 301 | Now I would like to talk about family planning - the various ways or | methods that a counte can use to delay or avoid a |
|------|--|---|
| 301 | Now I would like to talk about family planning - the various ways or pregnancy. Have you ever heard of (METHOD)? | memous that a couple can use to delay or avoid a |
| 01 | Female Sterilization PROBE: Women can have an operation to avoid having any more children. | YES |
| 02 | Male Sterilization PROBE: Men can have an operation to avoid having any more children. | YES |
| 03 | IUD PROBE: Women can have a loop or coil placed inside them by a doctor or a nurse. | YES |
| 04 | Injectables PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months. | YES |
| 05 | Implants (Implanon/Jadelle/ Norplants) PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years. | YES |
| 06 | Pill PROBE: Women can take a pill every day to avoid becoming pregnant. | YES |
| 07 | Male Condom PROBE: Men can put a rubber sheath on their penis before sexual intercourse. | YES |
| 08 | Female Condom PROBE: Women can place a sheath in their vagina before sexual intercourse. | YES |
| 09 | Standard Days Method PROBE: Women can use a cycle of beads to count the days they are most likely to get pregnant and avoid sexual intercourse during those days. | YES |
| 09A | Lactational Amenorrhea Method (LAM) | YES |
| 10 | Rhythm Method PROBE: Every month that a woman is sexually active she can avoid pregnancy by not having sexual intercourse on the days of the month she is most likely to get pregnant. | YES |
| 11 | Withdrawal PROBE: Men can be careful and pull out before climax. | YES |
| 12 | Emergency Contraception PROBE: As an emergency measure, within three days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy. | YES |
| 13 | Have you heard of any other ways or methods that women or men can use to avoid pregnancy? | YES 1 |
| | | (SPECIFY) |
| | | (SPECIFY) NO |
| 302 | In the last few months have you: | YES NO |
| | Heard about family planning on the radio? | RADIO |
| | Seen anything about family planning on the television? Read about family planning in a newspaper or magazine? | TELEVISION |
| | Read about family planning in a pamphlet/Posters/Leaflets? Heard about family planning at community event/conversation? | PAMPHLET/POSTER/LEAFLETS . 1 2 COMMUNITY EVENT/CONV 1 2 |
| 302B | In the last few months have you heard or seen the following media messages on family planning? | YES NO |
| | Its wise to have a balanced family life | Its wise to have a balanced 1 2 family life |
| | Your family happiness is in your hands | Your family happiness is in your hands 1 2 |
| | Spacing of births will be a source for a loving, caring | Spacing of birth will be a source for |
| | and healthy family Chidren by choice not by chance | loving,caring and healthy family 1 2 Children by choice not by chance 1 2 |

| | | | 1 |
|-----|--|--|-------|
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| 303 | In the last few months, have you discussed the practice of family planning with a HEW/VCHW or other health worker? | YES | |
| 304 | Now I would like to ask you about a woman's risk of pregnancy. From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant if she has sexual relations? | YES | 306 |
| 305 | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods? | JUST BEFORE HER | |
| 306 | I will now read you some statements about contraception. Please tell me if you agree or disagree with each one. a) Contraception is women's business and a man should not have to worry about it. b) Women who use contraception may become promiscuous. | DIS- AGREE AGREE DK CONTRACEPTION WOMAN'S BUSINESS . 1 2 8 WOMAN MAY BECOME PROMISCUOUS 1 2 8 | |
| 307 | CHECK 301 (07) KNOWS MALE CONDOM | | |
| | YES NO NO | | 311 |
| 308 | Do you know of a place where a person can get male condoms? | YES | → 311 |
| 309 | Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE (NAME OF PLACE(S)) | PUBLIC SECTOR GOVT. HOSPITAL | |
| | | PRIVATE CLINIC | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | | SKIP |
|-------|---|---|------------------|--------------|
| 310 | If you wanted to, could you yourself get a male condom? | YES | 1 2 | |
| 311 | CHECK 301 (08) KNOWS FEMALE CONDOM YES NO NO | | | → 401 |
| 312 | Do you know of a place where a person can get female condoms? | YES | | → 401 |
| 313 | Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. | GOVT. HEALTH CENTER GOVT.HEALTH STATION/CLINIC GOVT.HEALTH POST/HEW | A B C D | |
| | IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE (NAME OF PLACE(S)) | VOLUNTARY COMMUNITY HEALTH WORKERS | F G H | |
| | | PHARMACY ANTI-AIDS CLUB/ASSOCIATION OTHER PRIVATE | O P | |
| 314 | If you wanted to, could you yourself get a female condom? | (SPECIFY) | | |
| · · · | , | NO | | |

SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|--|--|--------------|
| 401 | Are you currently married or living together with a woman as if married? | YES, CURRENTLY MARRIED 1 YES, LIVING WITH A WOMAN 2 NO, NOT IN UNION 3 | 404 |
| 402 | Have you ever been married or lived together with a woman as if married? | YES, FORMERLY MARRIED 1 YES, LIVED WITH A WOMAN 2 NO 3 | → 413 |
| 403 | What is your marital status now: are you widowed, divorced, or separated? | WIDOWED 1 DIVORCED 2 SEPARATED 3 | 410 |
| 404 | Is your wife/partner living with you now or is she staying elsewhere? | LIVING WITH HIM | |
| 405 | Do you have more than one wife or woman you live with as if married? | YES | → 407 |
| 406 | Altogether, how many wives do you have or other partners do you live with as if married? | TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS | |
| 407 | CHECK 405: ONE WIFE/ PARTNER Please tell me the name of your wife (the woman you are living with as if married). RECORD THE NAME AND THE LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE FOR EACH WIFE AND LIVE-IN PARTNER. IF A WOMAN IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'. ASK 408 FOR EACH PERSON. | A08 How old was (NAME) on her last birthday? LINE NAME NUMBER AGE ——————————————————————————————————— | |
| 409 | CHECK 407: MORE THAN ONE WIFE/ ONE WIFE/ | | |
| | PARTNER PARTNER | | → 411A |
| 410 | Have you been married or lived with a woman only once or more than once? | ONLY ONCE | → 411A |
| 411 | In what month and year did you start living with your (wife/partner)? | MONTH | |
| 411A | Now I would like to ask about your first (wife/partner). | | |
| | In what month and year did you start living with her? | DON'T KNOW MONTH 98 | |
| | | YEAR | → 413 |
| | | DON'T KNOW YEAR 9998 | |
| 412 | How old were you when you first started living with her? | AGE | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|------------------------------|-------|
| 413 | CHECK FOR THE PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVA | ACY. | |
| 414 | Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues. How old were you when you had sexual intercourse for the very first time? | NEVER HAD SEXUAL INTERCOURSE | → 501 |
| 415 | Now I would like to ask you some questions about your recent sexual a answers are completely confidential and will not be told to anyone. If w want to answer, just let me know and we will go to the next question. | , , , | |
| 416 | When was the <u>last</u> time you had sexual intercourse? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS. | DAYS AGO | → 430 |

| | | LAST SEXUAL PARTNER | SECOND-TO-LAST SEXUAL PARTNER | THIRD-TO-LAST SEXUAL PARTNER |
|------|---|--|--|--|
| 417 | When was the last time you had sexual intercourse with this person? | | DAYS 1 WEEKS 2 MONTHS 3 | DAYS 1 WEEKS 2 MONTHS 3 |
| 418 | The last time you had sexual intercourse (with this second/third person), was a condom used? | YES | YES | YES |
| 419 | Was a condom used every time you had sexual intercourse with this person in the last 12 months? | YES | YES | YES |
| 420 | What was your relationship to this (second/third) person with whom you had sexual intercourse? IF GIRLFRIEND: Were you living together as if married? IF YES, CIRCLE '2'. IF NO, CIRCLE '3'. | WIFE | WIFE | WIFE |
| 421 | CHECK 410: | MARRIED MARRIED ONLY MORE ONCE THAN ONCE OR BLANK (SKIP TO 423) | MARRIED ONLY MORE ONCE THAN ONCE OR BLANK (SKIP TO 423) | MARRIED MARRIED ONLY MORE ONCE THAN ONCE OR BLANK (SKIP TO 423) |
| 422 | CHECK 414: | FIRST TIME WHEN STARTED LIVING WITH OTHER FIRST WIFE (SKIP TO 424) | FIRST TIME WHEN STARTED LIVING WITH OTHER FIRST WIFE (SKIP TO 424) | FIRST TIME WHEN STARTED LIVING WITH OTHER FIRST WIFE (SKIP TO 424) |
| 423 | How long ago did you first have sexual intercourse with this (second/third) person? | DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3 YEARS AGO 4 | DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3 YEARS AGO 4 | DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3 YEARS AGO 4 |
| 424 | How many times during the last 12 months did you have sexual intercourse with this person? | NUMBER OF TIMES | NUMBER OF TIMES | NUMBER OF TIMES |
| 424A | IF 95 OR MORE, WRITE '95'. The last time you had sexual intercourse (with this other person), did you or this person drink alcohol? | YES | YES | YES |
| 424B | Were you or your partner drunk at that time? IF YES: Who was drunk? | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 |

| | | LAST SEXUAL PARTNER | SECOND-TO-LAST SEXUAL PARTNER | THIRD-TO-LAST SEXUAL PARTNER |
|------|--|--|--|--|
| 424C | The last time you had sexual intercourse (with this other person), did you or this person chew chat any time during that day? | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 | RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER BOTH 3 NEITHER 4 |
| 424D | Are you still having sex with this person? | YES | YES | YES |
| 425 | How old is this person? | AGE OF PARTNER DON'T KNOW98 | AGE OF PARTNER DON'T KNOW98 | AGE OF PARTNER DON'T KNOW98 |
| 426 | Apart from [this person/these two people], have you had sexual intercourse with any other person in the last 12 months? | YES | YES | |
| 427 | In total, with how many different people have you had sexual intercourse in the last 12 months? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS GREATER THAN 95, WRITE '95.' | | | NUMBER OF PARTNERS LAST 12 MONTHS DON'T KNOW 98 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|--------------------------------|----------------|
| 428 | CHECK 420 (ALL COLUMNS): AT LEAST ONE PARTNER IS COMMERCIAL SEX ARE COMMERCIAL SEX WORKER WORKER | | → 430 |
| 429 | CHECK 420 AND 418 (ALL COLUMNS): CONDOM USED V EVERY COMMER OTHER | NITH CIAL SEX WORKER | → 433 → 434 |
| 430 | In the last 12 months, did you pay anyone in exchange for having sexual intercourse? | YES | → 432 |
| 431 | Have you ever paid anyone in exchange for having sexual intercourse? | YES | 434 |
| 432 | The last time you paid someone in exchange for having sexual intercourse, was a male or female condom used? | YES | → 434 |
| 433 | Was a condom used during sexual intercourse every time you paid someone in exchange for having sexual intercourse in the last 12 months? | YES | |
| 434 | In total, with how many different people have you had sexual intercourse in your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95.' | NUMBER OF PARTNERS IN LIFETIME | |
| 435 | CHECK 418, MOST RECENT PARTNER (FIRST COLUMN): NOT ASKED CONDOM USED NO CONDOM USED | | → 438 → 438 |
| 436 | You told me that a condom was used the last time you had sex. What is the brand name of the condom used at that time? IF BRAND NOT KNOWN ASK TO SEE THE PACKAGE. | HIWOT TRUST | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|---|------|
| 437 | From where did you obtain the condom the last time? PROBE TO IDENTIFY TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE | PUBLIC SECTOR 11 GOVT. HOSPITAL 11 GOVT. HEALTH CENTER 12 GOVT.HEALTH STATION/CLINIC 13 GOVT.HEALTH POST/HEW 14 OTHER PUBLIC 16 (SPECIFY) | |
| | (NAME OF PLACE) | NGO NGO HEALTH FACILITY | |
| | | PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 31 PRIVATE CLINIC 32 PHARMACY 33 ANTI-AIDS CLUB/ASSOCIATION 34 OTHER PRIVATE MEDICAL MEDICAL 36 (SPECIFY) OTHER SOURCE 41 DRUG VENDOR/STORE 41 SHOP/BAR/HOTEL/GROCERY 42 FRIEND/RELATIVE 43 | |
| | | OTHER 46 (SPECIFY) | |
| 438 | The last time you had sex did you or your partner use any method (other than a condom) to avoid or prevent a pregnancy? | YES | 501 |
| 439 | What method did you or your partner use? PROBE: Did you or your partner use any other method to prevent pregnancy? RECORD ALL MENTIONED. | FEMALE STERILIZATION A MALE STERILIZATION B IUD C INJECTABLES D IMPLANTS E PILL F FEMALE CONDOM G DIAPHRAGM/FOAM/JELLY H STANDARD DAYS METHOD I LAM J RHYTHM METHOD K WITHDRAWAL L OTHER MODERN METHOD X OTHER TRADITIONAL METHOD Y | |

SECTION 5. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|--|--------------|
| 501 | CHECK 401: CURRENTLY MARRIED OR LIVING WITH A PARTNER NOT LIVING WITH A | AND L | → 509 |
| 502 | CHECK 439: NOT | | → 509 |
| 503 | (Is your wife (partner)/Are any of your wives (partners)) currently pregnant? | YES 1 NO 2 DON'T KNOW 8 | <u>1</u> 505 |
| 504 | Now I have some questions about the future. After the child(ren) you and your (wife(wives)/partner(s)) are expecting now, would you like to have another child, or would you prefer not have any more children? | HAVE ANOTHER CHILD 1 NO MORE/NONE 2 UNDECIDED/DON'T KNOW 8 | 506 509 |
| 505 | Now I have some questions about the future. Would you like to have (a/another) child, or would you prefer not to have any (more) children? | HAVE (A/ANOTHER) CHILD | 509 |
| 506 | CHECK 407: ONE WIFE/ PARTNER ONE WIF PARTNER PARTNER | E/ L | 508 |
| 507 | CHECK 503: WIFE/PARTNER NOT PREGNANT OR DON'T KNOW How long would you like to wait from now before the birth of (a/another) child? WIFE/PARTNER PREGNANT After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? | MONTHS | → 509 |
| 508 | How long would you like to wait from now before the birth of (a/another) child? | MONTHS | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|--|----------------|
| 509 | CHECK 203 AND 205: HAS LIVING CHILDREN If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be? PROBE FOR A NUMERIC RESPONSE. | NONE | → 601 → 601 |
| 510 | How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it is a boy or a girl? | NUMBER OTHER (SPECIFY) BOYS GIRLS EITHER OTHER 96 | |

SECTION 6. EMPLOYMENT AND GENDER ROLES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|--|--|--------------|
| 601 | Have you done any work in the last seven days? | YES | → 604 |
| 602 | Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, or any other such reason? | YES | → 604 |
| 603 | Have you done any work in the last 12 months? | YES | → 607 |
| 604 | What is your occupation, that is, what kind of work do you mainly do? | | |
| 605 | Do you usually work throughout the year, or do you work seasonally, or only once in a while? | THROUGHOUT THE YEAR | |
| 606 | Are you paid in cash or kind for this work or are you not paid at all? | CASH ONLY 1 CASH AND KIND 2 IN KIND ONLY 3 NOT PAID 4 | |
| 607 | CHECK 401: CURRENTLY MARRIED OR LIVING WITH A PARTNER NOT LIVING WITH A | AND L | → 612 |
| 608 | CHECK 606: CODE 1 OR 2 CIRCLED OTHER | | → 610 |
| 609 | Who usually decides how the money you earn will be used: mainly you, mainly your (wife (wives)/partner(s)), or you and your (wife (wives)/partner(s)) jointly? | RESPONDENT 1 WIFE(WIVES)/PARTNER(S) 2 RESPONDENT AND WIFE (WIVES)/ 9 PARTNER(S) JOINTLY 3 OTHER 6 SPECIFY | |
| 610 | Who usually makes decisions about health care for yourself: you, your wife/partner, you and your wife/partner jointly, or someone else? | RESPONDENT 1 WIFE(WIVES)/PARTNER(S) 2 RESPONDENT AND WIFE (WIVES)/ 3 PARTNER(S) JOINTLY 3 SOMEONE ELSE 4 OTHER 6 SPECIFY | |
| 611 | Who usually makes decisions about making major household purchases: you, your wife/partner, you and your wife/partner jointly, or someone else? | RESPONDENT 1 WIFE(WIVES)/PARTNER(S) 2 RESPONDENT AND WIFE (WIVES)/ 3 PARTNER(S) JOINTLY 3 SOMEONE ELSE 4 OTHER 6 SPECIFY | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|---|------|
| 612 | Do you own this or any other house either alone or jointly with someone else? | ALONE ONLY | |
| 613 | Do you own any land either alone or jointly with someone else? | ALONE ONLY 1 JOINTLY ONLY 2 BOTH ALONE AND JOINTLY 3 DOES NOT OWN 4 | |
| 614 | In your opinion, is a husband justified in hitting or beating his wife in the following situations: If she goes out without telling him? If she neglects the children? If she argues with him? If she refuses to have sex with him? If she burns the food? | YES NO DK GOES OUT | |

SECTION 7. HIV/AIDS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|---|--|--------------|
| 701 | Now I would like to talk about something else. Have you ever heard of an illness called AIDS? | YES | → 723 |
| 702 | Can people reduce their chances of getting the AIDS virus by having just one uninfected sex partner who has no other sex partners? | YES | |
| 703 | Can people get the AIDS virus from mosquito bites? | YES | |
| 704 | Can people reduce their chance of getting the AIDS virus by using a condom every time they have sex? | YES 1 NO 2 DON'T KNOW 8 | |
| 705 | Can people get the AIDS virus by sharing food with a person who has AIDS? | YES | |
| 705A | Can people reduce their chance of getting the AIDS virus by abstaining from sexual intercourse? | YES 1 NO 2 DON'T KNOW 8 | |
| 706 | Can people get the AIDS virus because of witchcraft, God's curse, or other supernatural means? | YES 1 NO 2 DON'T KNOW 8 | |
| 707 | Is it possible for a healthy-looking person to have the AIDS virus? | YES 1 NO 2 DON'T KNOW 8 | |
| 707A | Can people get the AIDS virus by sharing sharp materials such as razors/blades or through injection with non-sterilized needles? | YES 1 NO 2 DON'T KNOW 8 | |
| 708 | Can the virus that causes AIDS be transmitted from a mother to her baby: | YES NO DK | |
| | During pregnancy? During delivery? By breastfeeding? | DURING PREG. 1 2 8 DURING DELIVERY 1 2 8 BREASTFEEDING 1 2 8 | |
| 709 | CHECK 708: AT LEAST ONE 'YES' | THER | → 711 |
| 710 | Are there any special drugs that a doctor or a nurse can give to a woman infected with the AIDS virus to reduce the risk of transmission to the baby? | YES 1 NO 2 DON'T KNOW 8 | |
| 711 | CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, MA | AKE EVERY EFFORT TO ENSURE PRIVACY. | |
| 712 | I don't want to know the results, but have you ever been tested to see if you have the AIDS virus? | YES | → 716 |
| 713 | How many months ago was your most recent HIV test? | MONTHS AGO | |
| 714 | I don't want to know the results, but did you get the results of the test? | YES | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|--|--|--------------|
| 715 | Where was the test done? PROBE TO IDENTIFY THE TYPE OF SOURCE. | PUBLIC SECTOR GOVT. HOSPITAL | |
| | IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE (NAME OF PLACE) | (SPECIFY) NGO NGO HEALTH FACILITY | |
| 715A | | RECEIVE RESULTS | 718 |
| 715B | CHECK 401 AND 402: EVER MARRIED OR LIVED WITH A PARTNER LIVED WITH A | I I | → 718 |
| 715C | The last time you were tested, did you share the results with your wife/partner? | YES 1 NO, DID NOT SHARE RESULT 2 NO WIFE/PARTNER AT THAT TIME 3 | 718 |
| 716 | Do you know of a place where people can go to get tested for the AIDS virus? | YES | → 718 |
| 717 | Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE (NAME OF PLACE) | PUBLIC SECTOR GOVT.HOSPITAL A GOVT.HEALTH CENTER B GOVT.HEALTH STATION/CLINIC C STAND-ALONE VCT CENTER D OTHER PUBLIC E (SPECIFY) NGO NGO HEALTH FACILITY F STAND-ALONE VCT CENTER G MOBILE CLINIC H OTHER NGO I (SPECIFY) PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL J PRIVATE CLINIC K OTHER PRIVATE MEDICAL (SPECIFY) OTHER MEDICAL SECTOR PRIVATE MEDICAL SECTOR PRIVATE (LINIC K OTHER PRIVATE MEDICAL SECTOR MEDICAL (SPECIFY) | |
| 718 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had the AIDS virus? | (SPECIFY) YES | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|---|--------------|
| 719 | If a member of your family got infected with the AIDS virus, would you want it to remain a secret or not? | YES, REMAIN A SECRET 1 NO 2 DK/NOT SURE/DEPENDS 8 | |
| 720 | If a member of your family became sick with AIDS, would you be willing to care for her or him in your own household? | YES | |
| 721 | In your opinion, if a female teacher has the AIDS virus but is not sick, should she be allowed to continue teaching in the school? | SHOULD BE ALLOWED 1 SHOULD NOT BE ALLOWED 2 DK/NOT SURE/DEPENDS 8 | |
| 722 | Should children age 12-14 be taught about using a condom to avoid getting AIDS? | YES 1 NO 2 DK/NOT SURE/DEPENDS 8 | |
| 723 | CHECK 701: HEARD ABOUT AIDS Apart from AIDS, have you heard about other infections that can be transmitted through sexual contact? NOT HEARD ABOUT AIDS Have you heard about infections that can be transmitted through sexual contact? | YES | |
| 724 | CHECK 414: HAS HAD SEXUAL INTERCOURSE HAS NOT HAD SEXUAL INTERCOURSE | | → 732 |
| 725 | CHECK 723: HEARD ABOUT OTHER SEXUALLY TRANSMITTED INFECTIONS? YES NO | | 727 |
| 726 | Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact? | YES | |
| 727 | Sometimes men experience an abnormal discharge from their penis. During the last 12 months, have you had an abnormal discharge from your penis? | YES | |
| 728 | Sometimes men have a sore or ulcer near their penis. During the last 12 months, have you had a sore or ulcer near your penis? | YES 1 NO 2 DON'T KNOW 8 | |
| 729 | CHECK 726, 727, AND 728: HAS HAD AN INFECTION (ANY 'YES') HAS NOT HAD AN INFECTION OR DOES NOT KNOW | | → 732 |
| 730 | The last time you had (PROBLEM FROM 726/727/728), did you seek any kind of advice or treatment? | YES | → 732 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|-----|---|---|------|
| 731 | Where did you go? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE | PUBLIC SECTOR GOVT. HOSPITAL | _ |
| | SECTOR, WRITE THE NAME OF THE PLACE | NGO HEALTH FACILITY F PRIVATE MEDICAL SECTOR | |
| | (NAME OF PLACE(S)) | PRIVATE HOSPITAL G PRIVATE CLINIC H PHARMACY I OTHER PRIVATE J MEDICAL J (SPECIFY) OTHER SOURCE DRUG VENDOR/STORE K SHOP L TRADITIONAL HEALER M OTHER X (SPECIFY) | |
| 732 | If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have sex? | YES 1 NO 2 DON'T KNOW 8 | |
| 733 | Is a wife justified in refusing to have sex with her husband when she knows her husband has sex with women other than his wife? | YES 1 NO 2 DON'T KNOW 8 | |

SECTION 8. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|--|--|--------|
| 800A | Have you ever heard of the Community Conversation program? | YES | → 800C |
| 800B | Have you ever attended any Community Conversation meeting? IF YES: When was the last time you attended? | WITHIN LAST THREE MONTHS 1 4-11 MONTHS AGO 2 ONE YEAR OR MORE AGO 3 NEVER ATTENDED 4 | |
| 800C | Have you ever heard of an illness called tuberculosis or TB? | YES | → 801 |
| 800D | How can a person get tuberculosis or TB ? PROBE: Any other ways? RECORD ALL MENTIONED. | THROUGH THE AIR WHEN COUGHING OR SNEEZING A THROUGH SHARING UTENSILS B THROUGH TOUCHING A PERSON WITH TB C THROUGH FOOD D THROUGH SEXUAL CONTACT E THROUGH MOSQUITO BITES F THROUGH DRINKING UNBOILED MILK G EXPOSURE TO COLD H OTHER X (SPECIFY) DON'T KNOW Z | |
| 800E | What symptoms will a person with tuberculosis or TB have? Anything else? | PERSISTENT COUGH (GREATER THAN TWO WEEKS) | |
| 800F | Can tuberculosis or TB be cured? | YES | |
| 800G | If a member of your family got tuberculosis or TB, would you want it to remain a secret or not? | YES, REMAIN A SECRET 1 NO 2 DON'T KNOW/NOT SURE/ DEPENDS 8 | |
| 801 | Some men are circumcised, that is, the foreskin is completely removed from the penis. Are you circumcised? | YES | 805 |
| 802 | How old were you when circumcision occurred? | AGE IN COMPLETED YEARS DURING CHILDHOOD (<5 YEARS) . 95 DON'T KNOW 98 | |
| 803 | Who did the circumcision? | TRADITIONAL PRACTITIONER/ FAMILY/FRIENDS | |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|--|---|--------------|
| 804 | Where was the circumcision done? | HEALTH FACILITY 1 HOME OF A HEALTH WORKER/ PROFESSIONAL 2 CIRCUMCISION DONE AT HOME 3 RITUAL SITE 4 OTHER HOME/PLACE 5 DON'T KNOW 8 | |
| 805 | Now I would like to ask you some other questions relating to health matters. Have you had an injection for any reason in the last 12 months? | NUMBER OF INJECTIONS | |
| | IF YES: How many injections have you had? IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. | NONE 00 | → 808 |
| | IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. | | |
| 806 | Among these injections, how many were administered by a: a) doctor, a nurse, a pharmacist, a dentist, or any other health worker? | NUMBER OF INJECTIONS HEALTH WORKER | |
| | b) traditional practioner/injector? | NUMBER OF INJECTIONS TRADITIONAL PRACTITIONI | |
| | IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. | | |
| | IF "NONE" RECORD "00" | | |
| | IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. | | |
| 806A | The last time you got an injection, who administered the injection? | HEALTH WORKER | |
| 807 | The last time you got an injection, did the person who gave you the injection take the syringe and needle from a new, unopened package? | YES | |
| 808 | Do you currently smoke cigarettes? | YES | → 810 |
| 809 | In the last 24 hours, how many cigarettes did you smoke? | CIGARETTES | |
| 810 | Do you currently smoke or use any other type of tobacco? | YES | → 811A |
| 811 | What (other) type of tobacco do you currently smoke or use? RECORD ALL MENTIONED. | PIPE A CHEWING TOBACCO B SNUFF/SURET C SHISHA | |
| 811A | Have you chewed chat? | YES | → 811C |
| 811B | During the last 30 days, how many days did you chew chat? | DAYS | |
| 811C | Have you ever taken a drink that contains alcohol (Tella/Tegi/Areke/Berr/Wine, etc)? | YES | → 812 |

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
|------|--|--|-------|
| 811D | During the last 30 days, how many days did you take a drink that contains alcohol? | DAYS | |
| 812 | Are you covered by any health insurance? | YES | → 814 |
| 813 | What type of health insurance do you have? RECORD ALL MENTIONED. | MUTUAL HEALTH ORGANIZATION/ COMMUNITY BASED HEALTH INSURANCE | |
| 814 | RECORD THE TIME. MORNING = 1 EVENING = 2 | MORNING/EVENING | |

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

| COMMENTS ABOUT RESPONDENT: | | |
|---------------------------------|---------------------------|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| COMMENTS ON SPECIFIC QUESTIONS: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| ANY OTHER COMMENTS: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | SUPERVISOR'S OBSERVATIONS | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| NAME OF SUPERVISOR: | DATE: | |
| | | |
| | EDITOR'S OBSERVATIONS | |
| | | |
| | | |
| | | |
| | | |
| | | |
| NAME OF EDITOR: | DATE: | |