NATIONAL FAMILY HEALTH SURVEY (NFHS-4)

INDIA

2015-16

KERALA

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INTRODUCTION

The 2015-16 National Family Health Survey (NFHS-4), the fourth in the NFHS series, provides information on population, health, and nutrition for India and each state and union territory. For the first time, NFHS-4 provides district-level estimates for many important indicators. All four NFHS surveys have been conducted under the stewardship of the Ministry of Health and Family Welfare (MoHFW), Government of India. MoHFW designated the International Institute for Population Sciences (IIPS), Mumbai, as the nodal agency for the surveys. Funding for NFHS-4 was provided by the United States Agency for International Development (USAID), the United Kingdom Department for International Development (DFID), the Bill and Melinda Gates Foundation (BMGF), UNICEF, UNFPA, the MacArthur Foundation, and the Government of India. Technical assistance for NFHS-4 was provided by the National AIDS Control Organization (NACO) and the National AIDS Research Institute (NARI), Pune.

Four survey questionnaires – household, woman's, man's, and biomarker – were used to collect information in 19 languages using Computer Assisted Personal Interviewing (CAPI). All women age 15-49 and men age 15-54 in the selected sample households were eligible for interviewing. In the household questionnaire, basic information was collected on all usual members of the household and visitors who stayed in the household the previous night, as well as socioeconomic characteristics of the household, water and sanitation, health insurance, and number of deaths in the household in the three years preceding the survey. Two versions of the woman's questionnaire were used in NFHS-4. The first version (district module), which collected information on women's characteristics, marriage, fertility, contraception, reproductive health, children's immunizations, and treatment of childhood illnesses, was fielded in the entire sample of NFHS-4 households. Information on these topics is available at the district, state, and national levels. In the second version of the questionnaire (state module), four additional topics, namely, sexual behaviour, HIV/AIDS, husband's background and women's work, and domestic violence, were also included. This version was fielded in a subsample of NFHS-4 households designed to provide information only at the state and national levels. The man's questionnaire covered the man's characteristics, marriage, number of children, contraception, fertility preferences, nutrition, sexual behaviour, attitudes towards gender roles, HIV/AIDS, and lifestyle. The biomarker questionnaire covered measurements of height, weight, and haemoglobin levels for children; height, weight, haemoglobin, blood pressure, and random blood glucose for women age 15-49 years and men age 15-54 years, and the collection of finger-stick blood for HIV testing in a laboratory. Questionnaire information and biomarkers were collected only with informed consent from the respondents.

The NFHS-4 sample was designed to provide estimates of all key indicators at the national and state levels, as well as estimates for most key indicators at the district level (for all 640 districts in India, as of the 2011 Census). The total sample size of approximately 572,000 households for India was based on the size needed to produce reliable indicator estimates for each district and for urban and rural areas in districts in which the urban population accounted for 30-70 percent of the total district population. The rural sample was selected

through a two-stage sample design with villages as the Primary Sampling Units (PSUs) at the first stage (selected with probability proportional to size), followed by a random selection of 22 households in each PSU at the second stage. In urban areas, there was also a two-stage sample design with Census Enumeration Blocks (CEB) selected at the first stage and a random selection of 22 households in each CEB at the second stage. At the second stage in both urban and rural areas, households were selected after conducting a complete mapping and household listing operation in the selected first-stage units.

The figures of NFHS-4 and that of earlier rounds may not be strictly comparable due to differences in sample size and NFHS-4 will be a benchmark for future surveys. NFHS-4 fieldwork for Kerala was conducted in all 14 districts of the state from 8 March to 3 October 2016 by the Society for Promotion of Youth & Masses (SPYM) and collected information from 11,555 households, 11,033 women age 15-49 (including 2,397 women interviewed in PSUs in the state module), and 2,086 men age 15-54. Survey response rates were 100 percent for households, 98 percent for women, and 95 percent for men.

This report presents the key findings of the NFHS-4 survey in Kerala, followed by detailed tables and an appendix on sampling errors. At the time of finalization of this report, wealth quintiles for the country as a whole were not ready. Therefore, on finalization of the national report, the breakup of key indicators by wealth quintiles for all states will be provided as an additional document and uploaded on the official website of MoHFW and IIPS.

HOUSEHOLD CHARACTERISTICS

Household composition

Less than half of Kerala's households (47%) are in urban areas. On average, households in Kerala are comprised of 3.9 members. Twenty percent of households are headed by women, with 19 percent of the population living in female-headed households.

The majority of households in Kerala have household heads who are Hindu (59%). Twentythree percent of households have household heads who are Muslim and 18 percent of households have Christian household heads.

About half (49%) of households in Kerala have household heads who belong to an other backward class, 10 percent belong to a schedule caste, and a very small proportion (1%) belong to a scheduled tribe. Almost two-fifth (38%) of household heads do not belong to scheduled castes, scheduled tribes, or other backward classes.

Twenty percent of Kerala's population is under age 15; 10 percent is age 65 and over. The overall sex ratio of the population is 1,049 females per 1,000 males, and the sex ratio of the population under seven years of age is slightly lower (1,020 females per 1,000 males). Ninety-two percent of persons have an *Aadhaar* card.

Among children below 18 years of age, 2 percent have experienced the death of one or both parents. In all, 79 percent of children below 18 years of age live with both parents, 19 percent live with one parent (mostly with their mother), and the remaining 2 percent live with neither parent. Births of almost all children under five years of age (98%) were registered with the civil authorities, and 87 percent have a birth certificate.

Housing characteristics

Almost 9 in 10 households in Kerala (89%) live in a *pucca* house and almost all (99%) households have electricity. Less than 1 percent of households do not use a sanitation facility, which means that household members practice open defecation, an improvement from 4 percent at the time of NFHS-3. Ninety-eight percent of households use an improved sanitation facility.

Almost all (98%) households in Kerala use an improved sanitation facility.

Ninety-four percent of households use an improved source of drinking water, but only 20 percent have water piped into their dwelling, yard, or plot. Urban households (23%) are more likely than rural households (18%) to have water piped into their dwelling, yard, or plot. Most households use a protected dug well, a protected spring, rainwater, or a community reverse osmosis (RO) plant as their source of drinking water (62%).

Ninety-two percent of households treat their drinking water to make it potable (mostly by boiling). Fifty-seven percent of households use a clean fuel for cooking (mostly LPG or natural gas).

Selected household possessions

Almost all urban and rural households in Kerala have a mobile phone. Ninety-five percent of households have a bank or post office account. BPL cards are held by 30 percent of households, compared to 32 percent in NFHS-3. Twenty percent of rural households and 10 percent of urban households own agricultural land. Overall, 16 percent of all households in Kerala own agricultural land.

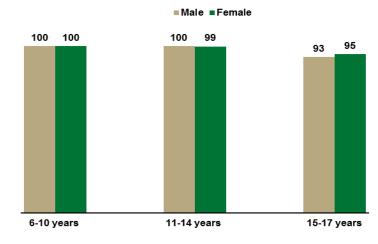
EDUCATION

School attendance among children

Ninety-seven percent of children age 6-17 years in Kerala attend school (98% in urban areas and 97% in rural areas). School attendance is universal at age 6-14 years, and then drops to 94 percent at age 15-17 years. There is no gender disparity in school attendance in the 6-14 year age group.



Percentage of children attending school by age



Literacy, educational attainment and media exposure

In NFHS-4, literate persons are those who have either completed at least standard six or passed a simple literacy test conducted as part of the survey. According to this measure, 98 percent of women age 15-49 and 99 percent of men age 15-49 are literate.

Almost half of women age 15-49 (48%) in Kerala have completed 12 or more years of schooling, compared with 45 percent of men.

Only 1 percent of women and men age 15-49 have never been to school. Forty-eight percent of women age 15-49 have completed 12 or more years of schooling, compared with 45 percent of men.

Media exposure is high among men and women in Kerala. More than 9 in 10 men and women watch television at least once a week. Men (89%) are much more likely than women (77%) to read a newspaper or magazine at least once a week. Only 1 percent of men and 3 percent of women are not regularly exposed to print media or other forms of media.

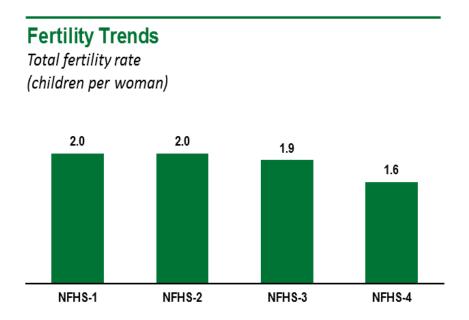
FERTILITY

Age at first marriage

The median age at first marriage is 21.5 years among women age 25-49 years. Eight percent of women age 20-24 years got married before the legal minimum age of 18, down from 15 percent in NFHS-3. Three percent of men age 25-29 years got married before the legal minimum age of 21, the same as in NFHS-3.

Fertility levels

The total fertility rate (TFR) in Kerala is 1.6 children per woman in both urban and rural areas, well below replacement level fertility. Fertility almost unchanged in the 13 years between NFHS-1 and NFHS-3, but it declined by 0.4 children in the 10 years between NFHS-3 and NFHS-4.

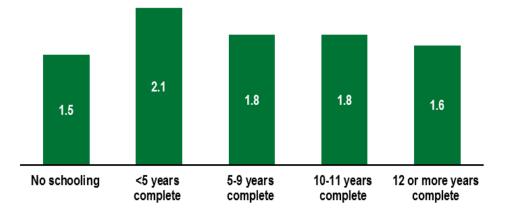


Among births in the three years preceding the survey, 13 percent were of birth order three or higher, compared with 18 percent in NFHS-3.

The total fertility rate is below 2.0 children in every group except scheduled tribes (2.3) and women with 5-9 years of schooling (2.1).

How does fertility vary with schooling?

Total fertility rate (children per woman)



Pregnancy outcome

Ninety percent of last pregnancies in the five years preceding the survey ended in a live birth, and the remaining 10 percent terminated in foetal wastage (abortion, miscarriage, or stillbirth). Abortion and miscarriage are the most commonly reported types of foetal wastage, accounting for 5 percent each of all pregnancies. More than three-quarters of the abortions were performed in the private health sector (78%) and 21 percent were performed in the public health sector. One-sixth of women reporting an abortion reported having complications from the abortion.

Teenage pregnancy

Among young women age 15-19 in Kerala, 3 percent have already begun childbearing, that is, they have already had a live birth or are pregnant with their first child, down from 6 percent in NFHS-3. Two percent of women age 18 years have started childbearing, but this proportion increases sharply to 12 percent among women who are 19 years old. Muslim women are more likely to have begun childbearing than Hindu and Christian women. Women belonging to scheduled tribes are more likely to have begun childbearing than any other caste/tribe group.

Birth intervals

The median interval between births in the five years before the survey in Kerala is 49.5 months, eight months longer than in NFHS-3. Four percent of births take place within 18 months of the previous birth and 11 percent occur within 24 months. Twenty-six percent of births occur within three years of the previous birth. Research shows that waiting at least three years between children reduces the risk of infant mortality.

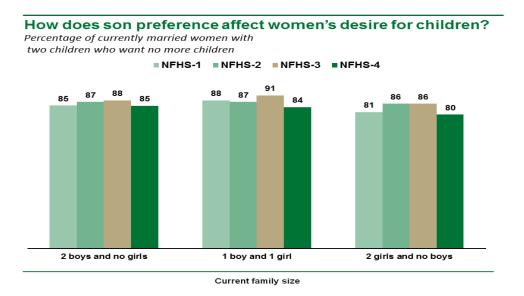
One-fourth of births in Kerala occur within three years of the previous birth.

Fertility preferences

Sixty-three percent of currently married women and 66 percent of currently married men want no more children, are already sterilized, or have a spouse who is sterilized. Among those who want another child, 39 percent of women and 37 percent of men would like to wait at least two years before the next birth. Seventy-five percent of women and 80 percent of men consider the ideal family size to be two or fewer children.

In Kerala there is some preference for sons. Eleven percent of women and 15 percent of men want more sons than daughters, but only 5-7 percent of women and men want more daughters than sons. However, most men and women would like to have at least one son and at least one daughter.

Women's desire for more children is slightly affected by their current number of sons. For example, among women with two children, 85 percent with two sons and 84 percent with one son want no more children, compared with 80 percent with two daughters who want no more children. Notably, however, the proportion of currently married women with two children who want no more children irrespective of their number of sons decreased from 88 percent to 83 percent in the 10 years between NFHS-3 and NFHS-4.



In Kerala, unplanned pregnancies are relatively common. If all women were to have only the number of children they wanted, the total fertility rate would have been lower, at 1.5 children per woman, instead of the current level of 1.6 children per woman.

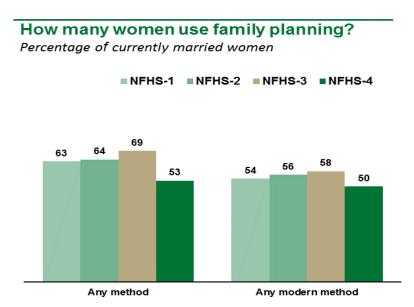
In Kerala, unplanned pregnancies are not common. There is almost no difference between the total wanted fertility rate (1.5 children per woman) and the total fertility rate (1.6 children per woman).

FAMILY PLANNING

Contraceptive knowledge and use

Knowledge of contraception is almost universal in Kerala. However, some methods are still less well known. Only about half of currently married women know about injectables, and 43 percent know about female condoms. Among all women, 44 percent know about emergency contraception.

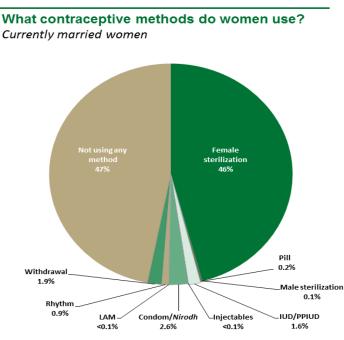
The contraceptive prevalence rate (CPR) among currently married women age 15-49 is 53 percent, considerably lower than in NFHS-3 (69%). Modern method use, at 50 percent, is also lower than its level in NFHS-3 (58%). Notably, the share of female sterilization in contraceptivemethod use increased from 71 percent in NFHS-3 to 86 percent in NFHS-4. Contraceptive use in NFHS-4 increases sharply with age, from 19 percent for women age 15-19 to 68 percent for women age 40-49.



In Kerala, contraceptive use does not vary between rural areas and urban areas (53% each). Contraceptive prevalence varies substantially by schooling; decreasing from 73 percent among women with no schooling to 44 percent among women with 12 or more years of schooling (44%). Seventy-three percent of currently married women with no schooling use female sterilization, compared with 34 percent of currently married women with 12 or more years of schooling. Muslim women (43%) are much less likely to use contraception than Hindu women (58%) or Christian women (55%).

Women in Kerala are slightly more likely to use contraception if they already have a son. For example, among women with two children, 71 percent with at least one son use a method of family planning, compared with 67 percent of women with two daughters and no sons.

The most common modern spacing methods used by currently married women in Kerala are condom/*Nirodh* (3%) and IUDs or PPIUDs (2%).



Sixty percent of sterilized women had their sterilization operation in a public sector health facility, mainly in a government or municipal hospital, and 58 percent of condom/*Nirodh* users get their supply from a private sector health facility. Seventy-one percent of IUD or PPIUD users had their IUD insertion in the public sector health facility.

The 12-month discontinuation rate for all contraceptive methods is 43 percent. Sixty-three percent of users of modern spacing methods discontinued use within the first year after they adopted the method. The most common reason for discontinuation is 'other' fertility related

reasons (infrequent sex or husband away, or difficulty of getting pregnant or menopausal, and marital dissolution or separation).

Only 55 percent of users of selected modern contraceptive methods were told by a health or family planning worker about other methods they could use.

Informed choice

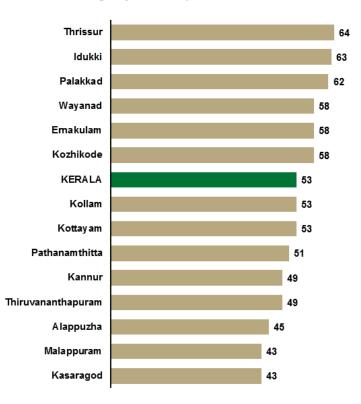
Women who know about all available contraceptive methods and their side effects can make better choices about what method to use. Only 56 percent of users of selected modern contraceptive methods were ever told about possible side effects or problems with their method, only 48 percent were told what to do if they experienced any side effects, and only 55 percent were told by a health or family planning worker about other methods they could use.

Men's attitudes

Fifteen percent of men age 15-49 in Kerala agree that contraception is women's business and a man should not have to worry about it. However, only 16 percent think that women using contraception may become promiscuous. Seven in 10 men know that a condom, if used correctly, protects against pregnancy most of the time.

Contraceptive Prevalence Rate by District

Percentage of currently married women



Unmet need

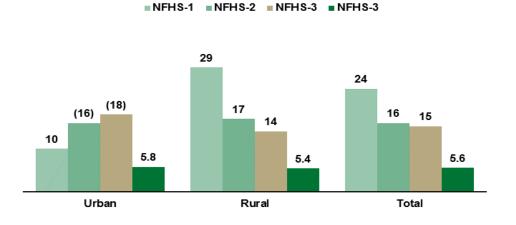
Unmet need for family planning is defined as the percentage of currently married women who either want to space their next birth or stop childbearing entirely, but are not using contraception. According to this definition, 14 percent of currently married women have an unmet need for family planning, up from 10 percent in NFHS-3. Currently, 80 percent of the demand for family planning is being satisfied and 75 percent of the demand is being satisfied by modern methods. The percentage of demand for family planning that is satisfied has decreased from 89 percent to 80 percent in the 10-year period since NFHS-3.

INFANT AND CHILD MORTALITY

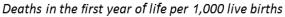
The infant mortality rate in Kerala in NFHS-4 is estimated at 6 deaths before the age of one year per 1,000 live births, by far the lowest rate in any state in India. The infant mortality rate has decreased from the NFHS-3 estimate of 15, the NFHS-2 estimate of 16, and the NFHS-1 estimate of 24. The under-five mortality rate for Kerala is 7 deaths per 1,000 live births (also the lowest rate in India), down substantially from the NFHS-3 estimate of 16, the NFHS-2 estimate of 19, and the NFHS-1 estimate of 32.

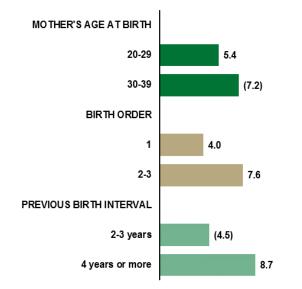
Trends in Infant Mortality

Deaths per 1,000 live births



High-risk births have higher mortality rates





Girls have a slightly higher mortality rate than boys during the neonatal period (in the first month of life). Boys have slightly higher mortality rates than girls from age 1 month to 5 years. Infant and under-five mortality rates are less than 10 per 1,000 for almost every group of background characteristics.

Note: Category " Mother's age at birth <20 or 40-49", "Birth order 4 or more" and "Previous birth interval <2 years" not shown since there are fewer than 250 unweighted person-years of exposure to the risk of death.

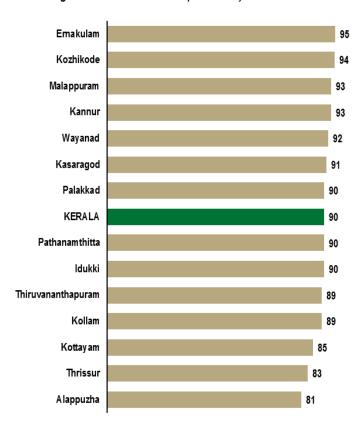
MATERNAL HEALTH

Antenatal care

Almost all mothers who gave birth in the five years preceding the survey received antenatal care (ANC) for their last birth from a health professional (99% from a doctor and less than 1% from an auxiliary nurse midwife (ANM), lady health visitor (LHV), nurse, or midwife). Less than 1 percent did not receive any antenatal care. Among mothers who gave birth in the five years preceding the survey, about 90 percent registered the pregnancy for the most recent live birth. Among the pregnancies, registered percent 84 received a Mother and Child Protection Card (MCP Card).

Ninety-five percent of women received antenatal care during the first trimester of pregnancy, as is recommended. Ninety percent of mothers had four or more antenatal care visits. For 96 percent of their last births, mothers received iron and folic acid (IFA) supplements, but only 67 percent consumed them for the

Four or More Antenatal Care Visits by District Percentage of last births in the past five years

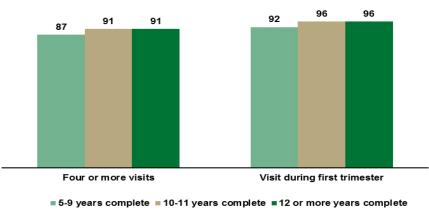


recommended 100 days or more. Ninety-seven percent of last births were protected against neonatal tetanus through tetanus toxoid vaccinations given to the mother. Twenty-one percent of mothers took an intestinal parasite drug during pregnancy.

Ninety percent of mothers in Kerala received at least four antenatal care visits for their last birth.

Among women with a live birth in the five years preceding the survey who met with a community health worker in the last three months of pregnancy for their most recent live birth, at least two-thirds received advice on each of the five different areas (83% received advice on breastfeeding, 80% on keeping the baby warm, 73% on the importance of institutional delivery, 72% on family planning, and 68% on cord care).

How does appropriate antenatal care vary with schooling? Percentage of last births in the past five years



Note: Category "No schooling" and " and "5 years of schooling" not shown since there are fewer than 25 unweighted cases.

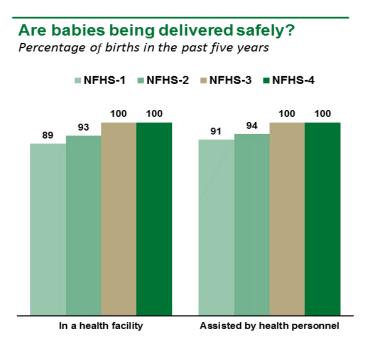
Even when women receive antenatal care, sometimes they do not receive all the services needed to monitor their pregnancy. In Kerala, however, 99 percent of women who received antenatal care for their last birth received each of the services needed to monitor their pregnancy: having their weight taken, having their abdomen examined and blood pressure measured, having a urine sample taken, and having a blood sample taken.

An ultrasound test was performed during 96 percent of pregnancies in the five years preceding the survey. Because ultrasound testing is nearly universal, there was little variation in the prevalence of ultrasound by background characteristics.

Delivery care

Almost all the births in Kerala take place in a health facility, mostly a private health facility (62%). Health facility births were also almost universal at the time of NFHS-3. The universality of institutional births cuts across all the background characteristics of women including their birth order, years of schooling, caste, religion, and urban-rural residence.

All the births during the past five years took place in a health facility with assistance from a skilled provider. More than one-third of the births (36%) were delivered by caesarean section, and 36



percent of caesarean sections (13% of all births) were emergency caesarean sections.

Among women who had a live birth in the five years preceding the survey that was delivered in a health facility, 20 percent received financial assistance under the *Janani Suraksha Yojana* (JSY) for their most recent birth. Scheduled caste women were much more likely than any other caste/tribe group of women to receive financial assistance under JSY, and Hindu women were more likely than Muslim or Christian women to receive financial assistance under JSY.

All the children in Kerala who were born in the last five years were born in a health facility with assistance from a skilled provider.

Postnatal care

Early postnatal care for a mother helps safeguard her health and can reduce maternal mortality. In Kerala, 93 percent of mothers had a postnatal check after their last birth and 89 percent had a postnatal check within two days of the birth, as is recommended.

Forty-nine percent of last births in the five years preceding the survey received a health check in the first two days after birth and 49 percent of newborns either did not have any health check-up or had it after a week.

Male involvement in maternal care

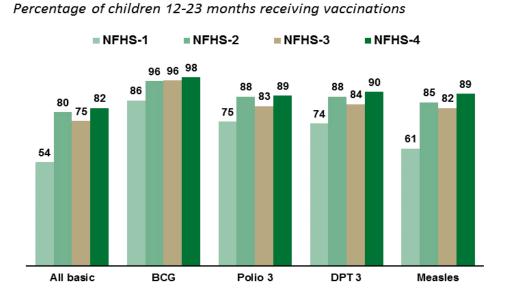
Ninety-seven percent of men with a child under three years of age said that the youngest child's mother received antenatal care. Eighty-nine percent of men with a child under three years said they were present during at least one antenatal check received by the child's mother (92% in urban areas and 86% in rural areas), but only 57 percent were told by a health provider or health worker what to do if the mother had a pregnancy complication. Thirty-nine of men were told about vaginal bleeding or convulsions as signs of pregnancy complications, and 52-61 percent were told about other signs of pregnancy complications (high blood pressure, prolonged labour, and severe abdominal pain).

Sixty-one to 85 percent of fathers with a child less than three years of age were given information about various aspects of maternal care. Eighty-five percent were told about the importance of proper nutrition for the mother during pregnancy and 81 percent were told about the importance of delivering the baby in a health facility. Sixty-one percent were told about family planning or delaying the next child by a health provider or a health worker.

CHILD HEALTH

Vaccination of children

Eighty-two percent of children age 12-23 months received all basic vaccinations against six major childhood illnesses (tuberculosis, diphtheria, pertussis, tetanus, polio, and measles) at any time before the survey. However, most children are at least partially vaccinated; only 2 percent have not received any vaccinations at all.



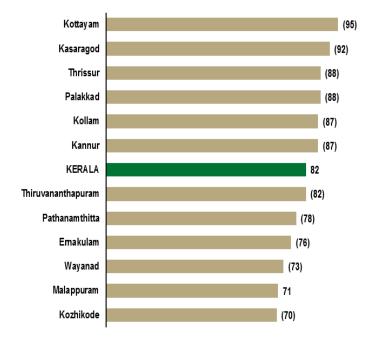
Trends in Vaccination Coverage

Ninety-eight percent of children have received a BCG vaccination, and 89-97 percent of children received other basic vaccinations.

Between NFHS-3 and NFHS-4, there was an increase in vaccination coverage for three doses of DPT (from 84% to 90%), measles (from 82% to 89%), BCG (from 96% to 98%), and three doses of polio vaccine (from 83% to 89%. Overall, there was an increase in the coverage of all basic vaccinations (from 75% to 82%). In addition, at the time of NFHS-4, 82percent of children had received all three recommended doses of hepatitis B vaccine.

There is not much difference in vaccination coverage by mother's years of schooling, birth order, caste/tribe, the sex of the child, and urban-rural residence, except that Muslim children (75%) were less likely to receive all basic vaccinations than Christian children (88%) or Hindu children (86%).





Note: Districts Idukki and Alappuzha, not shown since there are fewer than 25 unweighted cases.

More than 4 in 5 children age 12-23 months have received all basic vaccinations.

Childhood illnesses

In the two weeks before the survey, 1 percent of children under age five years had symptoms of an acute respiratory infection (cough accompanied by (1) short, rapid breathing that is chest-related and/or (2) difficult breathing that is chest related).

Eleven percent of children under age five were reported to have had fever in the two weeks preceding the survey; 90 percent of these children were taken to a health facility or provider for advice or treatment.

Overall, 3 percent of children under age five years had diarrhoea in the two weeks preceding the survey. Seventy-six percent of these children were taken to a health facility or health provider. Ninety-seven percent of mothers of young children have heard of oral rehydration salt (ORS) packets for the treatment of diarrhoea, but only 49 percent of children with diarrhoea were given ORS. Seventy-five percent of children with diarrhoea were given gruel and a little less than nine out of 10 (87%) were given some type of oral rehydration therapy (ORT). Fourteen percent were given zinc supplements. Ten percent of children with diarrhoea did not receive any type of treatment at all.

To reduce dehydration and minimise the effects of diarrhoea on nutritional status, it is recommended that normal feeding of children be continued when they have diarrhoea and that the amount of fluids given should be increased. However, in Kerala only 21 percent of children with diarrhoea received more to drink than normal. Only one-third of children (33%) received the same amount of to drink as usual. Of greater concern, almost half of children (46%) with diarrhoea were given less to drink. Only 34 percent of children with diarrhoea were given the same amount of food or more food, as recommended. Fifty-six percent of children with diarrhoea were given ORT or increased fluids and continued feeding, as is recommended.

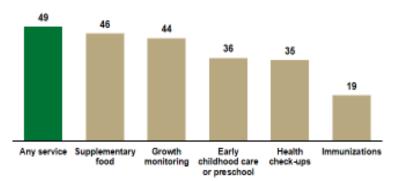
Integrated Child Development Services (ICDS)

The ICDS programme provides nutrition and health services for children under age six years and pregnant or breastfeeding women, as well as preschool activities for children age 3-5 years. These services are provided through community-based *anganwadi* centres.

Forty-nine percent of children under 6 years receive services of some kind from an anganwadi centre. The most common services that age-eligible children receive are supplementary food (46%), growth monitoring (44%), early childhood care or preschool (36%), and health checkups (35%). The service that is least likelv be to accessed is immunizations (19%). Over twofifths of the mothers of children who were weighed at an anganwadi centre received counselling from an

How many children received anganwadi centre services?

Percentage of age-eligible children receiving services



anganwadi worker or an ANM. Among children under 6 years, a little less than one-third of their mothers (32%) received any services from an *anganwadi* centre during pregnancy, and a little less than one-fourth of their mothers (24%) received any services while breastfeeding.

BREASTFEEDING, NUTRITION, AND ANAEMIA

Infant feeding

Although breastfeeding is nearly universal in Kerala, only 53 percent of children under 6 months are exclusively breastfed, as the World Health Organization (WHO) recommends. Ninety-five percent are put to the breast within the first day of life, but only 63 percent started breastfeeding in the first hour of life (as recommended). While the initiation of breastfeeding indicators show some improvement since NFHS-3, many infants are still deprived of the highly nutritious first milk (colostrum) and the antibodies it contains.

It is recommended that nothing be given to children other than breast milk even in the first three days when the milk has not begun to flow regularly because prelacteal feeds limit the frequency of suckling by the infant and expose the baby to the risk of infection. However, 9 percent of children are given something other than breast milk during the first three days. Overall, 98 percent of children continue breastfeeding at 1 year and 85 percent continue breastfeeding at 2 years.

After the first 6 months, breast milk is no longer enough to meet the nutritional needs of infants. Therefore, complementary foods should be added to the diet of the child. However, at age 6-8 months less than two-thirds of children (63%) in Kerala receive breast milk and complementary foods.

WHO has several recommendations for infant and young child feeding (IYCF) practices for children age 6-23 months. The key IYCF indicators measure the adequacy of dietary diversity and meal frequency for breastfed and non-breastfed children. A little more than two-fifths of

children age 6-23 months (44%) are fed the recommended minimum number of times per day and even fewer (38%) are fed from the appropriate number of food groups. Only 21 percent are fed according to all three recommended practices.

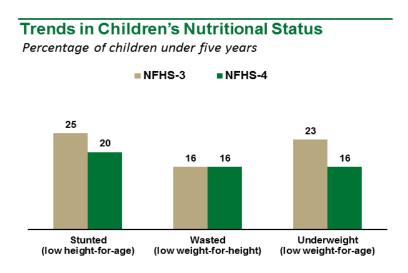
Micronutrient deficiency is a major contributor to childhood morbidity and mortality. Vitamin A is an essential nutrient for the immune system. Severe vitamin A deficiency (VAD) can cause eye damage and a higher risk of dying from measles and diarrhoeal disease. The Government of India recommends that children under 5 years of age receive vitamin A supplements every six months, starting at age 9 months. In Kerala, 76 percent of children age 9-59 months were given a vitamin A supplement in the past six months, but only 61 percent of children age 9-23 months ate vitamin A-rich foods during the day or night before the survey.

Iron deficiency is a primary cause of anaemia. Eating foods rich in iron and taking iron supplements can help prevent anaemia. Only 43 percent children age 9-23 months ate iron-rich foods during the day or night before the survey, and 18 percent of children age 6-59 months were given iron supplements in the week before the survey. In addition, 51 percent of children age 6-59 months were given deworming medication in last 6 months.

Children's nutritional status

In Kerala, 20 percent of children under age five years are stunted, or too short for their age, which indicates that they have been undernourished for some time. Sixteen percent children are wasted, or too thin for their height, which may result from inadequate recent food intake or a recent illness causing weight loss, and 7 percent are severely wasted. Sixteen percent are underweight, which takes into account both chronic and acute undernutrition, and 3 percent of children are overweight. Even during the first six months of life, when almost all babies are breastfed, 16 percent of children are stunted, 26 percent are wasted, and 21 percent are underweight.

Children's nutritional status in Kerala has shown improvement since NFHS-3. Stunting decreased by 5 percentage points, from 25 percent to 20 percent, in the 10 years between NFHS-3 and NFHS-4, and the percentage of children who are underweight decreased by percentage points, from 23 7 percent to 16 percent. The proportion of wasting among children has remained at the same level (16%).



Note: Nutritional status estimates are based on the 2006 WHO International Reference Population There are differences in the level of undernutrition by some key background characteristics, but there is not much difference by residence and sex of the child. The level of undernutrition is relatively high among children of underweight mothers, children whose mothers have completed less than 12 years of schooling, and children who were reported as small at the time of birth.

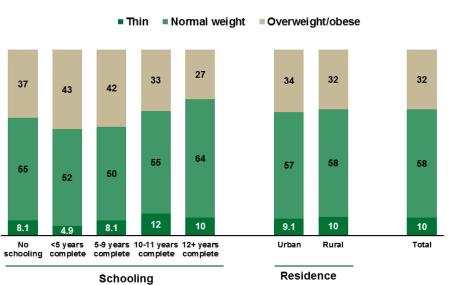
Adults' nutritional status

Forty-two percent of women and 37 percent of men age 15-49 are either too thin or overweight or obese. Women and men are more than three times more likely to be overweight or obese than to be thin. Ten percent of women and 9 men are too thin, compared with 32 percent of women and 29 percent of men who are overweight or obese.

Undernutrition is particularly common in the younger age groups, among those who have never been married, and among those from scheduled tribes. In contrast, overweight and obesity are most prevalent in older adults, and those with less schooling.

The use of iodized salt prevents iodine deficiency, which can lead to miscarriage, goitre, and mental retardation. Nearly all of Kerala's households (98%) used iodized salt at the time of the survey, an increase of 16 percentage points since NFHS-3.

How many women are at a healthy weight for their height?



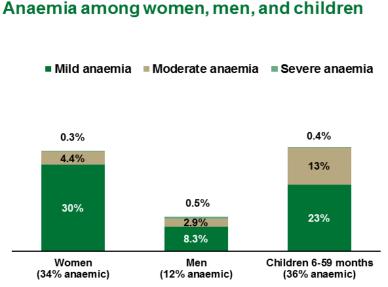
Percent distribution of women

Anaemia

Anaemia is a condition that is marked by low levels of haemoglobin in the blood. Iron deficiency is estimated to be responsible for about half of all anaemia globally, but anaemia can also be caused by malaria, hookworm and other helminths, other nutritional deficiencies, chronic infections, and genetic conditions. Anaemia can result in maternal mortality, weakness, diminished physical and mental capacity, increased morbidity from infectious

diseases, perinatal mortality, premature delivery, low birth weight, and (in children) impaired cognitive performance, motor development, and scholastic achievement. Anaemia is still a health problem in Kerala, especially among women and children.

More than one-third of children between the ages of 6 and 59 months (36%) are anaemic. This includes 23 percent who are mildly anaemic, 13 percent who are moderately anaemic, and 0.4percent who suffer from severe anaemia. Anaemia among children is particularly high among younger children, children of birth or 4-5, Muslim children, and scheduled tribe children. Children of mothers who have anaemia are much more likely to be anaemic. Although anaemia levels vary somewhat



according to background characteristics, anaemia among children is widespread in every group. Thirty-two percent of children are anaemic even if their mother has 12 or more years of schooling, and even if their mother is not anaemic (31%).

Over one-third of women (34%) are anaemic, which includes 30 percent with mild anaemia, 4 percent with moderate anaemia, and 0.3 percent with severe anaemia. Anaemia is somewhat higher for women in urban areas, women with no formal schooling, and women from scheduled tribes. The level of anaemia is much lower among men (only 12% overall) in every group.

Adult Health and Health Care

Tuberculosis

In Kerala, 369 persons per 100,000 are estimated to have medically treated tuberculosis, based on reports from household respondents. The prevalence of medically treated tuberculosis is higher among men (552) than among women (192) and is higher in rural areas (401) than in urban areas (332). The prevalence of TB is particularly high among older persons age 60+ (999 per 100,000) and in households using solid fuel (561) for cooking.

Almost all respondents have heard of tuberculosis (97% of women and 88% of men), but among those who have heard of tuberculosis, 86 percent of women and 78 percent of men know that it is spread through the air by coughing or sneezing. About one-fifth of women (21%) compared with just 11 percent of men have misconceptions about how tuberculosis is spread. Overall, 83 percent of women and 84 percent of men know that tuberculosis can be

cured, and only 16 percent of women and 13 percent of men say that if a family member had tuberculosis, they would want to keep it a secret.

Diabetes, asthma, goitre, heart disease, and cancer

According to self-reports, 4,328 per 100,000 women age 15-49 and 4,310 per 100,000 men age 15-49 have diabetes. Overall, 3,141 women and 1,008 men per 100,000 suffer from asthma. The prevalence of goiter or any other thyroid disorders is 8,110 per 100,000 among women and only 473 per 100,000 among men. The prevalence of any heart disease is about the same among women (1,319 per 100,000) and among men (1,324 per 100,000). Among the five diseases, cancer is the least common, with 166 women per 100,000, and 56 men per 100,000 reportedly suffering from cancer. The prevalence of all of these diseases among women and men is higher in older age groups.

Blood pressure (hypertension)

Nine percent of women age 15-49 in Kerala have hypertension, including 6 percent with Stage 1 hypertension, 1 percent with Stage 2 hypertension, and 0.5 percent with Stage 3 hypertension. Two-third (66%) of women have normal blood pressure including 1 percent of women with normal blood pressure who are taking medicine to lower their blood pressure. The prevalence of hypertension is slightly higher among men than. Twelve percent of men in Kerala have hypertension, including 8 percent with Stage 1 hypertension, 1 percent with Stage 2 hypertension, and 1 percent with Stage 3 hypertension. About half (49%) of men have normal blood pressure including 1 percent of men with normal blood pressure who are taking medicine to lower their blood pressure. For both women and men, hypertension increases with age and decreases with the level of schooling.

Blood glucose

NFHS-4 included measurement of random blood glucose among women age 15-49 and men age 15-54. Four percent of women age 15-49 in Kerala have high blood glucose levels, and 5 percent have very high blood glucose levels. In comparison, 7 percent of men age 15-49 have high blood glucose levels, and 7 have very high blood glucose levels. Older women and men have relatively high blood glucose levels.

Health examinations

In Kerala, 61 percent of women have ever undergone an examination of the cervix, 33 percent have ever undergone a breast examination, and 51 percent have ever undergone an examination of the oral cavity. Older women are more likely than younger women to have undergone each of these examinations.

Tobacco and alcohol use

Twenty-six percent of men age 15-49, but less than 1 percent of women age 15-49, use any type of tobacco. Men are more likely to smoke cigarettes (21%) than to use other type of tobacco. Among men, the use of any form of tobacco is higher in rural than in urban areas, primarily because men in rural areas are more likely to smoke *bidis* (7%) than men in urban areas (3%). Most men who smoke cigarettes or *bidis* smoked 1-5 cigarettes or *bidis* in the past 24 hours.

In Kerala, only 2 percent of women say that they drink alcohol. Men are more likely to drink alcohol (37%) than to use tobacco 26%). Among men who drink alcohol 11 percent drink alcohol almost every day, and a much larger proportion say they drink alcohol at least once a week (39%) or less than once a week (50%).

Source of health care

In Kerala, the public health sector is the main source of health care for 68 percent of households (72% in rural areas and 63% in urban areas). Within the public health sector, more households report that their members go to a government hospital (46%) or a private hospital (28%) than any other type of facility.

Health insurance

Despite the emergence of a number of health insurance programmes and health schemes, less than half of households in Kerala (48%) have any kind of health insurance that covers at least one member of the household. Health insurance coverage is somewhat higher in rural areas (50%) than in rural areas (45%). In Kerala, one type of programme dominates: *Rashtriya Swasthya Bima Yojana* (79%), particularly in rural areas (84%).

Only 42 percent of women and 33 percent of men age 15-49 years are covered by any health scheme or health insurance. Coverage is higher in rural areas than urban areas, and it increases by age.

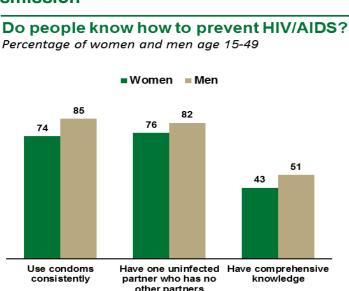
HIV/AIDS

Awareness of HIV or AIDS

In Kerala, almost all adult men and women (99%) have heard of HIV or AIDS.

Knowledge of prevention and transmission

Men are much more likely than women to know how HIV is transmitted and how to keep from getting it. For example, only 74 percent of women know that consistent condom use can help prevent HIV/AIDS, compared with 85 percent of men, and 76 percent of women know that having just one uninfected partner who has no other partners can reduce the chance of getting HIV/AIDS, compared with 82 percent of men.



Only 43 percent of women and 51 percent of men in Kerala have a 'comprehensive knowledge' about HIV/AIDS. This means they know that consistent use of condoms every time they have sex and having just one uninfected sex partner who has no other partners can reduce the chance of getting HIV/AIDS, they know that a healthy-looking person can have HIV/AIDS, and they reject two common misconceptions about transmission or prevention of HIV/AIDS. The level of comprehensive knowledge increases with the level schooling, and it is much higher among those who are regularly exposed to media. Knowledge that HIV/AIDS can be transmitted from a mother to her baby is higher among women (84%) than among men (75%).

HIV-related stigma

Only three-quarters of women (76%) women and men (74%) in Kerala would be willing to take care of a relative with HIV/AIDS in their home. A higher proportion of women (86%) and men (87%) say that a female teacher who has HIV/AIDS but is not sick should be allowed to continue teaching. Seventy-three percent of women and 78 percent of men say that they would buy fresh vegetables from a shopkeeper with HIV/AIDS. However, less than half of women (45%) and men (44%) say that if a family member got infected with HIV/AIDS, they would not want to keep it a secret. Overall, 28 percent of women and 29 percent of men express accepting attitudes towards people living with HIV/AIDS (PLWHA) on all four indicators.

HIV testing prior to NFHS-4, blood transfusions, and safe injections

Only 12 percent of men and 43 percent of women age 15-49 had ever been tested for HIV prior to NFHS-4. Women and men in urban areas are slightly more likely to have ever been tested for HIV prior to NFHS-4 than rural women and men. Only 48 percent of women who had a live birth in the past five years and received ANC during pregnancy were tested for HIV during an ANC visit. Urban women (46%) are slightly less likely than rural women (50%) to have been tested for HIV during ANC.

Less than half of women (48%) who had a live birth in the past five years and received ANC during pregnancy were tested for HIV during an ANC visit.

In Kerala, 6 percent of women and men have ever had a blood transfusion. Thirty-six percent of men and 25 percent of women received any injection in the past 12 months. Among those who received an injection in the past 12 months, for more than 9 in 10 women (93%) and 86 percent of men, a disposable syringe was used.

SEXUAL BEHAVIOUR

NFHS-4 included questions on respondents' sexual behaviour. Respondents were asked about their age at first sex, their current and previous sexual partners, higher-risk intercourse and condom use. In addition, men were asked whether they had paid for sex in the past year. These questions are sensitive and subject to reporting bias, so the results should be interpreted with caution.

Higher-risk behaviour

Higher-risk sex is sexual intercourse with someone who is neither a spouse nor a cohabiting partner. Among those who had sex in the past 12 months, 4 percent of men and less than 1 percent of women in Kerala reported having had higher-risk sex in the past 12 months. The percentage of men who had higher-risk sexual intercourse in the past 12 months was twice as high in rural areas (6%) than in urban areas (3%). Only 2 percent of men and less than 1 percent of women said that they had multiple sex partners in the past 12 months.

About 1 percent of men said they had paid for sex in the past year.

WOMEN'S EMPOWERMENT

Women's hygiene

Using a hygienic method of menstrual protection is important for women's health and personal hygiene. In NFHS-4, young women age 15-24 were asked what method or methods they use for menstrual protection, if anything. In Kerala, 48 percent use cloth and 85 percent use sanitary napkins, 6 percent use locally prepared napkins, and 1 percent use tampons. Overall, 90 percent of women age 15-24 use a hygienic method of menstrual protection. Women with 12 or more years of schooling, younger women, and those in urban areas are more likely to be using a hygienic method than other women. Use of a hygienic method is lowest among women from scheduled tribes (71%) and scheduled castes (80%).

Employment and earnings

In Kerala, 21 percent of all women age 15-49 were employed in the 12 months preceding the survey, while in the same period 75 percent of all men age 15-49 were employed. Among employed women, 97 percent earned cash, including 1 percent whose earnings were in both cash and in-kind, and 3 percent were not paid at all. Almost all men who were employed earned cash including men who earned cash and were also paid in-kind. Eighty-nine percent of employed women worked in non-agricultural occupations, compared with 92 percent of employed men.

Twenty-one percent of all women age 15-49 *were employed in the* 12 *months preceding the survey;* 89 *percent in non-agriculture occupations.*

Among currently married women who work and are paid in cash, 91 percent decide how their earnings will be used, either alone or jointly with their husbands. Thirty-eight percent of women who work for cash say that they earn more than or about the same as their husbands. Eighty-one percent of currently married men who have wives who have cash earnings report that they alone or jointly with their wives decide how her earnings are used, and 33 percent of men who have cash earnings and whose wives have cash earnings say that their wife earns more than or about the same as them.

Decision making

Currently married women were asked who makes decisions about their own health care, major household purchases, and visits to their own family or relatives. Two-thirds of women (68%) participate in three key decisions in the household, viz., about their own health care, making major households purchases, and visits to her family or relatives. However, only 8-16 percent of women make each of these decisions alone. Overall, all of the decisions are most often jointly decided with husbands, and 8 percent of women do not participate in making any of the three decisions. Scheduled tribe women and women with little schooling are least likely to participate in decision making.

Currently married men were also asked who makes decisions about their own health care and major household purchases. Men were much more likely than women to report that they alone or jointly with their wife participated in both these decisions: 79 percent participated in making decisions about their own health care and 76 percent participated in decisions about major household purchases, while 6 percent did not participate in either of the decisions.

Other indicators of women's empowerment

Two-fifths of women (40%) in Kerala say they have some money that they can decide how to use. The proportion of women with money which they control is slightly higher among urban women (42%) than rural women (38%), increases sharply with age, and is highest among women who are employed for cash (86%), women with one or two children (48%), women with 12 or more years of schooling (46%), and Christian and Hindu women (46-47%), and women than any other group of women.

Seventy-one percent of women have a bank or savings account that they themselves use.

Seventy-one percent of women have a bank or savings account that they themselves use. This percentage is highest, at 87 percent, among women who are employed for cash. Women's knowledge of microcredit programmes is quite widespread; 67 percent of women know of a microcredit programme in the area, but only 10 percent have ever taken a loan from a microcredit programme.

Only 12 percent of women are allowed to go by themselves to all three of the following places: the market, a health facility, and places outside the village/community. Women who are employed for cash have twice as much mobility (21%) as women who are not employed (10%).

Ownership of assets

Twenty-nine percent of women and 51 percent of men in Kerala own a house alone or jointly with someone else, and 23 percent of women and 36 percent of men own land alone or jointly with someone else. Ownership of both a house and land is higher in urban areas than in rural areas, and it increases with women's age.

Twenty-nine percent of women own a house alone or jointly with someone else, and 23 percent of women own land alone or jointly with someone else.

Eighty-one percent of women have a mobile phone that they themselves use, and among women who have a mobile phone that they themselves use 84 percent can read SMS messages. Owning of mobile phone that they themselves use is lowest for women from scheduled tribes, women with less than 5 years of schooling, and women age 15-19. Among women who have mobile phone that they themselves use, almost all women age 15-24 can read SMS messages.

Eighty-one percent of women in Kerala have a mobile phone that they themselves use.

Gender-role attitudes

In Kerala, more than two-thirds of women (69%) believe it is justifiable for a husband to beat his wife under some circumstances. Women are most likely to believe that wife-beating is justified if a woman neglects the house or children (49%), shows disrespect for her in-laws (46%), or if her husband suspects her of being unfaithful (40%). In the case of men, 58 percent say that wife-beating is justified in some circumstances, especially if the wife shows disrespect for her in-laws (47%). Even among those who have completed at least 12 years of schooling, 67 percent of women and 59 percent of men say that a husband is justified in beating his wife for one or more of the specified reasons.

More than three-fifths of women (63%) of women and 70 percent of men believe that a woman is justified in refusing to have sex with her husband if she knows he has a sexually transmitted disease, if she know that she has sex with other women, and if she is tired or not in the mood. Men (70%) are more likely than women (63%) to justify women refusing sex with her husband. Three-fourths of men agree that if a wife refuses to have sex with her husband he has a right to get angry and reprimand her, to refuse to give her financial support, to use force to have sex even if she doesn't want to, or to have sex with another woman.

DOMESTIC VIOLENCE

Among all women age 15-49 in Kerala, 13 percent have ever experienced physical violence and 5 percent have ever experienced sexual violence. In all, 15 percent of women have experienced physical or sexual violence. Among those who experienced physical violence since age 15, the most common perpetrator for ever-married women was the husband (90%).

Fifteen percent of women age 15-49 in Kerala have ever experienced physical or sexual violence, which increases to 17 percent when emotional violence is included.

Violence during pregnancy

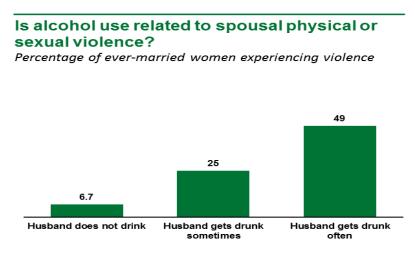
In Kerala, 1 percent of women who have ever been pregnant ever experienced physical violence during one or more of their pregnancies.

Spousal violence

Overall, 13 percent of ever-married women in Kerala have ever experienced any form of physical violence. Nine percent of ever-married women report having been pushed, shaken, or had something thrown at them by their husband and 7 percent have been slapped by their husband. Between 2 and 4 percent report having their arm twisted or hair pulled; being punched; or being kicked, dragged, or beaten up; and 1 percent each have experienced being choked or burned on purpose and being threatened or attacked with a knife, gun, or any other weapon. Three percent report that their husbands have physically forced them to have sex even when they did not want to and 1 percent report that their husband forced them with threats or other ways to perform sexual acts they did not want to perform. Overall, 14 percent of ever-married women have experienced spousal physical or sexual violence, 90 percent from their current husband or, if not currently married, from their most recent husband. Nine percent report ever experiencing spousal emotional violence (6% in the past 12 months prior to survey). Few ever-married women (2%) have ever initiated violence against their husband.

Although the prevalence of spousal violence is lower among more educated women, 7 percent of women who have at least 12 years of schooling have experienced physical or sexual spousal violence. Women who are employed for cash are more than twice as likely to have

experienced spousal physical or sexual violence as women who are not employed. The contextual and intergenerational aspects of spousal violence are clear from the fact that women whose mothers were beaten by their fathers are more than three times as likely to be in abusive marriages themselves as women whose mothers were not beaten by their fathers. Women whose husbands consume alcohol are much more likely than women whose husbands do not consume alcohol to experience physical or



Note: Category "Husband drinks, but nevergets drunk" not shown since there are fewer than 25 unweighted cases.

sexual spousal violence, especially if the husband gets drunk often (49%). However, 7 percent of even women whose husbands do not drink alcohol have experienced physical or sexual spousal violence. In fact, more than half of ever-married women (52%) who experienced spousal violence (emotional, physical, or sexual) are afraid of their husbands most of the time.

Nearly one-quarter of women (23%) who have ever experienced spousal physical or sexual violence have suffered injuries as a result of the violence, and among women who have ever experienced sexual violence this proportion rises to 27 percent. By far, the most common type of injury is cuts, bruises, or aches.

Help seeking

Only 28 percent of women who have ever experienced physical or sexual violence by anyone have sought help. More than half of women (54%) have neither sought help nor told anyone about the violence. Abused women who have sought help most often seek help from their own families (68%). Only 8 percent of abused women who sought help for the violence sought help from the police, and 4 percent from social service organizations.

Table 1 Results of the household and individual interviews

Number of households, number of interviews with women and men, and response rates, according to residence, Kerala, 2015-16

	Resid	dence	_
Result	Urban	Rural	Total
Household interviews			
Households selected	4,361	7,328	11,689
Households occupied	4,324	7,279	11,603
Households interviewed	4,296	7,259	11,555
Household response rate ¹	99.4	99.7	99.6
Interviews with women age 15-49			
Number of eligible women	4,254	6,973	11,227
Number of eligible women interviewed	4,187	6,846	11,033
Eligible women response rate ²	98.4	98.2	98.3
Interviews with men age 15-54			
Number of eligible men	874	1,319	2,193
Number of eligible men interviewed	834	1,252	2,086
Eligible men response rate ²	95.4	94.9	95.1

Note: Eligible women and men are women age 15-49 and men age 15-54 who stayed in the household the night before the household interview (including both usual residents and visitors). This table is based on the unweighted sample.

¹ Households interviewed/households occupied

² Respondents interviewed/eligible respondents

Table 2 Results of the household and individual interviews by district

Number of households, number of women and men interviewed, and response rates by residence and district, Kerala, 2015-16

	House	eholds inte	erviewed	Household		r of eligib interview	le women ed	Eligible women		er of eligi interview		Eligible men
District	Urban	Rural	Total	response rate ¹	Urban	Rural	Total	response rate ²	Urban	Rural	Total	response rate ²
Alappuzha	412	414	826	99.4	360	358	718	98.4	67	68	135	93.8
Ernakulam	417	415	832	99.8	396	344	740	98.1	68	57	125	96.2
Idukki	44	767	811	100.0	44	666	710	99.7	22	120	142	98.6
Kannur	394	401	795	98.1	408	345	753	95.9	57	63	120	87.0
Kasaragod	383	416	799	98.8	400	423	823	96.4	76	67	143	92.3
Kollam	414	402	816	99.9	402	391	793	98.9	78	83	161	97.6
Kottayam	235	591	826	99.8	189	515	704	99.3	43	108	151	96.8
Kozhikode	417	418	835	99.8	426	475	901	98.7	71	68	139	96.5
Malappuram	418	417	835	100.0	484	508	992	98.9	86	96	182	96.3
Palakkad	197	631	828	99.8	220	596	816	96.3	88	125	213	91.4
Pathanamthitta	88	748	836	99.9	73	569	642	98.0	16	93	109	96.5
Thiruvananthapuram	419	415	834	100.0	379	404	783	99.5	77	75	152	100.0
Thrissur	414	415	829	99.4	366	383	749	99.2	61	66	127	97.7
Wayanad	44	809	853	99.6	40	869	909	98.7	24	163	187	93.5
Kerala	4,296	7,259	11,555	99.6	4,187	6,846	11,033	98.3	834	1,252	2,086	95.1

Note: This table is based on the unweighted sample. ¹ Households interviewed/households occupied

² Respondents interviewed/eligible respondents

Table 3 Household population by age, schooling, residence, and sex

Percent distribution of the *de facto* household population by residence and sex, according to age and schooling; and the percentage of individuals who have an *Aadhaar* card, Kerala, 2015-16

		Urban			Rural			Total			
Background characteristic	Male	Female	Total	Male	Female	Total	Male	Female	Tota		
Age											
0-4	5.6	5.6	5.6	5.4	5.5	5.5	5.5	5.5	5.5		
5-9	7.4	6.4	6.9	7.2	6.2	6.7	7.3	6.3	6.8		
10-14	7.6	7.9	7.8	8.1	7.7	7.9	7.9	7.8	7.9		
15-19	8.1	6.4	7.3	8.2	6.8	7.4	8.1	6.6	7.4		
20-24	8.1	7.0	7.5	7.4	6.6	7.0	7.7	6.8	7.3		
25-29	8.2	7.3	7.7	8.6	7.3	7.9	8.4	7.3	7.8		
30-34	5.8	6.7	6.2	6.2	6.8	6.5	6.0	6.7	6.3		
35-39	6.7	7.4	7.1	7.1	7.7	7.4	6.9	7.6	7.3		
40-44	5.9	6.6	6.3	5.8	6.7	6.3	5.8	6.6	6.3		
45-49	6.9	7.1	7.0	7.0	6.8	6.9	6.9	6.9	6.9		
50-54	6.3	9.9	8.1	7.0 5.9	0.0 9.9	7.9	6.1	0.9 9.9	8.0		
55-59	8.2	6.3	7.2	8.0	6.6	7.3	8.1	6.5	7.3		
60-64	5.9	5.3	5.6	6.1	5.3	5.7	6.0	5.3	5.7		
65-69	4.4	3.9	5.0 4.1	4.0	4.0	4.0	4.2	3.9	4.0		
70-74	2.2	2.6	2.4	2.1	2.3	2.2	2.1	2.5	2.3		
75-79	1.5	2.0 1.5	2.4 1.5	1.6	2.3 1.9	1.7	1.5	2.3 1.7	2.3 1.6		
80 +	1.3	2.2	1.5		2.0		1.3	2.1			
00 +	1.2	2.2	1./	1.4	2.0	1.7	1.5	2.1	1.7		
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
Aadhaar card											
Percentage with an											
Aadhaar card	90.2	91.7	91.0	91.2	92.6	91.9	90.8	92.2	91.5		
Number	10,318	10,922	21,240	11,841	12,313	24,154	22,159	23,235	45,394		
Sex ratio, all ages ¹	na	na	1,058	na	na	1,040	na	na	1,049		
Sex ratio, age 0-6 years ¹	na	na	1,013	na	na	1,027	na	na	1,020		
Schooling ²											
No schooling	1.3	3.3	3.2	2.5	1.5	3.8	1.9	4.2	3.1		
<5 years complete	12.9	14.9	13.9	14.8	15.9	15.4	13.9	15.4	1		
5-9 years complete	33.4	32.7	33.0	35.4	33.9	34.6	34.4	33.3	33.9		
10-11 years complete	20.2	17.7	18.9	20.0	18.1	19.0	20.1	17.9	19.0		
12 or more years	26.6	24.2		a - a	0.5.5	0.5.0	00.0	a a -	<u> </u>		
complete	32.0	31.2	31.6	27.0	26.6	26.8	29.3	28.7	29.0		
Don't know	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3		
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
Number	9,610	10,205	19,815	11,065	11,521	22,587	20,675	21,726	42,401		
Median number of years of schooling completed	9.1	8.9	9.0	8.8	8.6	8.7	9.0	8.7	8.8		

¹ Females per 1,000 males

² Population age 6 and above

Table 4 Household and housing characteristics

Percent distribution of urban, rural and total households and *de jure* population by household and housing characteristics, Kerala, 2015-16

Jousehold headship Male 79.8 79.4 79.6 81.1 Female 20.2 20.6 20.4 18.9 Total 100.0 100.0 100.0 100.0 Wean household size 3.9 3.9 3.9 na Household structure' Non-nuclear 44.7 44.2 44.5 55.1 Total 100.0 100.0 100.0 100.0 100.0 Religion of household head 44.7 44.2 44.5 55.1 Minim 27.0 19.4 22.9 26.6 Christian 0.1 0.1 0.1 0.1 Other 0.1 0.1 0.1 0.1 Scheduled caste 7.9 11.7 9.9 10.0 Scheduled caste 7.9 11.7 9.9 10.0 Christian 0.6 1.8 1.2 1.2 Other 3.0 39.2 38.2 36.6 Dont know 1.3 </th <th>Household and housing characteristic</th> <th>Urban</th> <th>Rural</th> <th>Total</th> <th>De jure populatior</th>	Household and housing characteristic	Urban	Rural	Total	De jure populatior																																																																																																																		
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Other source 0.1 0.1 0.1 0.1 0.0 Total 100.0 100.0 100.0 100.0 100.0 Time to obtain drinking water (round trip) Water on premises/delivered to dwelling 95.9 93.0 94.4 94.3 Less than 30 minutes 3.6 6.3 5.1 5.1 Thirty minutes or longer 0.4 0.6 0.5 0.5 Don't know 0.1 0.1 0.1 0.1		61.8	62.4	62.1	63.1																																																																																																																		
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Time to obtain drinking water (round trip)Water on premises/delivered to dwelling95.993.094.494.3Less than 30 minutes3.66.35.15.1Thirty minutes or longer0.40.60.50.5Don't know0.10.10.10.10.1	Other source	0.1	0.1	0.1	0.0																																																																																																																		
Water on premises/delivered to dwelling 95.9 93.0 94.4 94.3 Less than 30 minutes 3.6 6.3 5.1 5.1 Thirty minutes or longer 0.4 0.6 0.5 0.5 Don't know 0.1 0.1 0.1 0.1	Total	100.0	100.0	100.0	100.0																																																																																																																		
Water on premises/delivered to dwelling 95.9 93.0 94.4 94.3 Less than 30 minutes 3.6 6.3 5.1 5.1 Thirty minutes or longer 0.4 0.6 0.5 0.5 Don't know 0.1 0.1 0.1 0.1	Fime to obtain drinking water (round trip)																																																																																																																						
Less than 30 minutes 3.6 6.3 5.1 5.1 Thirty minutes or longer 0.4 0.6 0.5 0.5 Don't know 0.1 0.1 0.1 0.1		95.9	93.0	94.4	94.3																																																																																																																		
Don't know 0.1 0.1 0.1 0.1		3.6	6.3	5.1	5.1																																																																																																																		
Don't know 0.1 0.1 0.1 0.1	Thirty minutes or longer	0.4	0.6	0.5	0.5																																																																																																																		
		0.1	0.1	0.1	0.1																																																																																																																		

Table 4 Household and housing characteristics-Continued

Percent distribution of urban, rural and total households and *de jure* population by household and housing characteristics, Kerala, 2015-16

		-		
Household and housing characteristic	Urban	Rural	Total	De jure population
Household and housing characteristic	Urban	Nurai	TOLAI	population
Water treatment prior to drinking⁴				
Boil	84.0	85.4	84.8	84.9
Strain through cloth	0.4	0.4	0.4	0.4
Use ceramic, sand, or other water filter	4.5	2.7	3.5	3.5
Electronic purifier	4.8	1.7	3.1	2.9
Other treatment	40.4	44.2	42.4	43.2
No treatment	7.6	8.8	8.2	8.1
Percentage using an appropriate treatment method ⁵	91.7	90.7	91.2	91.3
Sanitation facility				
Improved, not shared facility	98.7	97.5	98.1	98.2
Flush/pour flush to piped sewer system, septic tank, or pit latrine	90.9	87.4	89.0	88.6
Pit latrine with slab	7.7	10.0	8.9	9.4
Other ⁶	0.1	0.1	0.1	0.1
Shared facility ⁷	0.7	1.1	0.9	0.9
Flush/pour flush to piped sewer system, septic tank, or pit latrine	0.6	1.0	0.8	0.8
Pit latrine with slab	0.1	0.1	0.1	0.1
Unimproved	0.6	1.5	1.0	1.0
Flush/pour flush not to piped sewer system, septic tank, or pit latrine	0.2	0.1	0.1	0.2
Pit latrine without slab/open pit	0.1	0.2	0.1	0.1
No facility/open space/field	0.2	1.2	0.8	0.7
Total	100.0	100.0	100.0	100.0
Type of house ⁸				
Kachha	0.3	0.5	0.4	0.3
Semi- <i>pucca</i>	7.9	12.8	10.5	10.5
Pucca	91.7	86.6	89.0	89.1
Missing	0.1	0.2	0.1	0.1
Total	100.0	100.0	100.0	100.0
Cooking fuel				
Electricity	0.4	0.4	0.4	0.4
LPG/natural gas	64.3	49.5	56.4	54.9
Biogas	0.5	0.6	0.6	0.6
Kerosene	0.1	0.3	0.2	0.2
Coal/lignite	0.1	0.0	0.1	0.1
Charcoal	0.0	0.0	0.0	0.0
Wood	34.3	49.0	42.1	43.8
Straw/shrubs/grass	0.1	0.0	0.0	0.0
No food cooked in the household	0.2	0.0	0.1	0.0
Total	100.0	100.0	100.0	100.0
Percentage using clean fuel for cooking ⁸	65.2	50.6	57.4	55.9
Percentage using solid fuel for cooking ⁹	34.5	49.1	42.3	43.9
			(Continued

Table 4 Household and housing characteristics-Continued

Percent distribution of urban, rural and total households and de jure population by household and housing characteristics, Kerala, 2015-16

Household and housing characteristic	Urban	Rural	Total	De jure population
Place for cooking				
In the house, separate room	90.1	88.1	89.0	89.0
In the house, no separate room	4.9	5.6	5.3	5.0
In a separate building	2.7	4.2	3.5	3.9
Outdoors	2.3	2.0	2.1	2.1
No food cooked in household	0.2	0.0	0.1	0.0
Total	100.0	100.0	100.0	100.0
Number	5,382	6,173	11,555	45,158
Type of fire/stove among households using solid fuels ¹⁰				
Stove	4.8	5.0	4.9	4.7
Chullah	30.1	32.9	31.8	31.7
Open fire	65.0	62.1	63.2	63.6
Total	100.0	100.0	100.0	100.0
Number using solid fuel	1,855	3,030	4,884	19,819
Frequency of smoking in the house ¹¹				
Daily	17.5	22.4	20.1	21.3
Weekly	6.0	7.5	6.8	7.0
Monthly	1.0	1.1	1.0	1.0
Less than monthly	0.9	0.9	0.9	0.9
Never	74.7	68.0	71.1	69.8
Total	100.0	100.0	100.0	100.0
Number	5,382	6,173	11,555	45,158

na = Not applicable

¹ Nuclear households are households comprised of a married couple or a man or a woman living alone or with unmarried children (biological, adopted, or fostered) with or without unrelated individuals.

² Protected dug well, protected spring, rainwater, community RO plant

³ Surface water, unprotected dug well, unprotected spring, cart with small tank, tanker truck, bottled water

⁴ Total may add to more than 100.0 because households may use more than one method of purification

⁵ Appropriate water treatment methods include boiling, bleaching, filtering, and electronic purifying

⁶ Includes ventilated improved pit (VIP)/biogas latrine and twin pit/composting toilet

⁷ Facilities that would be considered improved if they were not shared by two or more households

⁸Houses made from mud, thatch, or other low-quality materials are called *kachha* houses, houses that use partly low-quality and partly high-quality materials are called semi-*pucca* houses, and houses made with high quality materials throughout, including the floor, roof, and exterior walls, are called *pucca* houses. ⁹ Electricity, LPG/natural gas, or biogas

¹⁰ Includes coal/lignite, charcoal, wood, straw/shrubs/grass, agricultural crop waste, and dung cakes

¹¹ Frequency of smoking by anyone inside the house

Table 5 Household possessions and land ownership

Percentage of urban, rural, and total households and de jure population possessing various household goods, means of transport, agricultural land, a house and farm animals and having a bank/post office account, health scheme/health insurance, a BPL card, and a long-lasting insecticide-treated (LLIN) mosquito net, Kerala, 2015-16

Household possessions	Urban	Rural	Total	De jure population
Household goods				
Mattress	94.5	89.9	92.1	92.6
Pressure cooker	88.9	80.8	84.6	85.9
Chair	99.2	98.9	99.0	99.2
Cot or bed	99.2 98.7	97.0	99.0 97.8	99.2 98.0
Table	96.1	92.6	97.8 94.2	94.9
Electric fan	98.7	92.0 94.3	94.2 96.4	94.9 96.8
		94.3 16.8	90.4 19.7	90.0 19.2
Radio or transistor Television (black and white)	22.9 1.0	1.4	1.2	19.2
Television (colour)	92.9	91.3	92.0	92.8
	93.3	91.3 91.9	92.0 92.5	92.0
Any television	39.5	34.0	92.5 36.6	93.3 39.0
Sewing machine Mabile telephone	39.5 98.0	97.1	97.5	98.5
Mobile telephone	98.0 27.9	22.8		96.5 24.6
Landline telephone			25.2	
Internet	18.5	10.9	14.5	14.2
Computer	28.6	19.6	23.8	24.0
Refrigerator	78.4	66.1	71.8	73.3
Air conditioner/cooler	16.3	6.7	11.1	11.0
Washing machine	40.3	27.8	33.7	34.0
Watch or clock	95.4	93.9	94.6	95.1
Water pump	67.9	61.8	64.7	65.9
Thresher The share	0.5	0.5	0.5	0.5
Tractor None of the above	0.4 0.0	0.5 0.1	0.4 0.0	0.4 0.0
Note of the above	0.0	0.1	0.0	0.0
Means of transport				
Bicycle	31.8	23.4	27.3	29.7
Motorcycle or scooter	60.4	53.0	56.4	60.1
Animal-drawn cart	0.4	0.4	0.4	0.4
Car	28.1	20.7	24.1	24.7
None of the above	25.5	34.4	30.2	27.1
Agricultural land				
No agricultural land	90.0	79.7	84.5	84.4
Agricultural land	10.0	20.3	15.5	15.6
Irrigated land only	6.8	13.6	10.4	10.6
Non-irrigated land only	1.8	4.2	3.1	3.0
Both irrigated and non-irrigated land	0.9	1.8	1.4	1.4
Irrigation not determined	0.4	0.7	0.6	0.6
Total	100.0	100.0	100.0	100.0
Percentage owning a house	81.5	85.2	83.5	84.6
Percentage owning farm animals ¹	23.3	37.4	30.9	32.8
Percentage having a bank account/post office account ²	95.4	94.5	95.0	95.6
Percentage covered by a health scheme/health insurance ³	45.3	49.8	47.7	48.4
Percentage having a BPL card	26.8	33.2	30.2	30.3
Percentage with an LLIN mosquito net	1.5	2.0	1.8	2.1
Number	5,382	6,173	11,555	45,158

BPL = Below poverty line

¹ Cows, bulls, buffaloes, camels, horses, donkeys, mules, goats, sheep, chickens, or ducks

² Percentage of households in which any usual member of the household has a bank account/post office account
 ³ Percentage of households in which any usual member of the household is covered by a health scheme/health insurance

Table 6 School attendance

Percentage of *de facto* household population age 6-17 years attending school in the 2014-15 school year by sex and residence, according to selected background characteristics, Kerala, 2015-16

		Male			Female			Total	
Background characteristic	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
Age									
6-10 (Primary)	99.8	99.9	99.9	99.7	99.5	99.6	99.8	99.7	99.7
6-13 (Elementary)	99.8	99.5	99.6	99.6	99.4	99.5	99.7	99.5	99.6
11-13 (Upper primary)	99.7	98.9	99.3	99.5	99.3	99.4	99.6	99.1	99.3
14-15 (Secondary)	99.1	97.5	98.2	99.1	98.7	98.9	99.1	98.0	98.5
16-17 (Higher secondary)	86.1	87.4	86.8	90.5	89.0	89.7	88.2	88.2	88.2
11-14 years	99.8	99.3	99.5	99.5	99.2	99.3	99.6	99.2	99.4
15-17 years	92.8	93.1	93.0	95.2	94.4	94.8	93.9	93.7	93.8
6-14 years	99.8	99.4	99.6	99.5	99.3	99.4	99.7	99.3	99.5
6-17 years	97.2	97.1	97.1	98.0	97.5	97.8	97.6	97.3	97.4
Religion									
Hindu	97.5	96.7	97.1	98.4	97.5	97.9	97.9	97.1	97.5
Muslim	96.4	96.9	96.6	97.0	97.0	97.0	96.7	97.0	96.8
Christian	98.5	98.5	98.5	100.0	98.7	99.2	99.2	98.6	98.8
Caste/tribe									
Scheduled caste	94.6	92.8	93.4	96.6	95.0	95.6	95.5	93.9	94.4
Scheduled tribe	*	87.3	88.8	*	82.9	83.6	*	84.8	85.8
Other backward class	97.1	97.7	97.4	97.8	98.4	98.1	97.4	98.0	97.7
Other	98.2	98.2	98.2	98.8	98.5	98.6	98.5	98.3	98.4
Don't know	*	(96.9)	(95.7)	*	(85.1)	(94.2)	(97.8)	91.3	94.8

Note: In this table, children's age refers to their age at the start of the 2014-15 school year (assumed here to be April 2014).

() Based on 25-49 unweighted cases

Table 7 Children's living arrangements and orphanhood

Percent distribution of *de jure* children under age 18 by their living arrangements, and percentage of children with one or both biological parents dead, according to background characteristics, Kerala, 2015-16

Background characteristic	Living with both parents	Living with mother but not with father	Living with father but not with mother	Not living with either parent	Total	Percentage with one or both parents dead ¹	Number of children
Age							
<5 years	72.9	25.4	0.6	1.2	100.0	0.6	2,437
5-9 years	80.1	18.0	0.7	1.2	100.0	1.4	3,019
10-14 years	81.7	15.2	1.1	2.1	100.0	2.5	3,519
15-17 years	80.4	15.1	1.5	2.9	100.0	3.8	1,981
Residence							
Urban	77.6	19.7	0.9	1.7	100.0	1.6	5,117
Rural	80.3	16.9	1.0	1.8	100.0	2.3	5,839
Sex							
Male	80.0	17.1	1.0	1.9	100.0	2.0	5,595
Female	78.1	19.4	0.8	1.6	100.0	1.9	5,360
Total age <15 years	78.8	18.9	0.8	1.5	100.0	1.6	8,975
Total age <18 years	79.1	18.2	0.9	1.8	100.0	2.0	10,955

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

Table 8 Birth registration of children under age five

	Percentage of	Percentage of children whose birth was registered					
Background characteristic	Registered, has a birth certificate	Registered, does not have a birth certificate	Total registered	<i>De jure</i> children			
Age							
<2 years	77.6	18.2	95.9	907			
2-4 years	92.0	6.8	98.8	1,529			
Sex							
Male	87.7	9.9	97.6	1,195			
Female	85.6	12.1	97.7	1,241			
Residence							
Urban	86.7	10.6	97.2	1,150			
Rural	86.6	11.5	98.1	1,287			
Total	86.6	11.1	97.7	2,437			

Percentage of *de jure* children under age five years whose birth was registered with the civil authorities, according to background characteristics, Kerala, 2015-16

Table 9 Birth registration of children under age five by district

	Percentage	Percentage of children whose birth was registered					
	Registered, has						
District	a birth certificate	a birth certificate	Total	<i>De jur</i> e children			
District	Certificate	Certificate	registered	children			
Alappuzha	79.0	15.5	94.5	124			
Ernakulam	81.0	17.6	98.6	221			
Idukki	88.0	10.5	98.4	61			
Kannur	80.6	14.7	95.3	178			
Kasaragod	91.2	7.2	98.4	107			
Kollam	93.5	6.1	99.6	192			
Kottayam	72.6	24.2	96.8	139			
Kozhikode	87.0	10.2	97.2	203			
Malappuram	91.0	6.6	97.6	394			
Palakkad	92.5	7.5	100.0	257			
Pathanamthitta	83.8	13.5	97.3	80			
Thiruvananthapuram	93.8	5.1	98.9	240			
Thrissur	78.1	17.9	96.0	172			
Wayanad	86.1	9.0	95.2	69			
Kerala	86.6	11.1	97.7	2,437			

Percentage of *de jure* children under age five years whose birth was registered with the civil authorities, by district, Kerala, 2015-16

Table 10 Background characteristics of respondents

Percent distribution of women and men age 15-49 by selected background characteristics and percentage exposed to various media, Kerala, 2015-16

Background characteristic Women Men Weighted Age 15-19 13.6 16.5 1,504 20-24 13.8 15.0 1,519 25-29 14.8 14.1 1,630 30-34 14.0 13.6 1,511 35-39 15.4 14.5 1,703 40-44 13.9 12.7 1,536 45-49 14.5 13.7 1,601 Residence Urban 46.9 46.8 5,172 Rural 53.1 53.2 5,861 Schooling 1.0 0.6 106 <5 years complete 2.2 2.9 246 5-9 years complete 2.4.6 26.0 2,716 10-11 years complete 2.4.4 25.9 2,689 12 or more years complete 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media 3.0 1.0 331 Marital status Xee	r of women	Numb	Number of men	
15-19 13.6 16.5 1,504 20-24 13.8 15.0 1,519 25-29 14.8 14.1 1,630 30-34 14.0 13.6 1,541 35-39 15.4 14.5 1,703 40-44 13.9 12.7 1,536 45-49 14.5 13.7 1,601 Residence Urban 46.9 46.8 5,172 Rural 53.1 53.2 5,861 Schooling 1.0 0.6 106 Schooling 1.0 0.6 106 06 5.9 years complete 2.2 2.9 246 5.9 years complete 24.6 26.0 2,716 10-11 years complete 24.4 25.9 2,689 12 or more years complete 2.1 1.3 232 Not literate 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media Week 7.4 88.6 8,536	Unweighted	Weighted	Unweighted	
15-19 13.6 16.5 1,504 20-24 13.8 15.0 1,519 25-29 14.8 14.1 1,630 30-34 14.0 13.6 1,541 35-39 15.4 14.5 1,703 40-44 13.9 12.7 1,536 45-49 14.5 13.7 1,601 Residence Urban 46.9 46.8 5,172 Rural 53.1 53.2 5,861 Schooling 1.0 0.6 106 2.2 2.9 246 26.0 2,716 10-11 years complete 24.4 25.9 2,689 12 or more years complete 24.4 5,276 Literacy 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media Week 77.4 88.6 8,536 Watches television at least once a week 91.9 93.5 10,140 Listens to the radio at least once a week 91.9 93.5 10,				
20-2413.815.01,51925-2914.814.11,63030-3414.013.61,54135-3915.414.51,70340-4413.912.71,53645-4914.513.71,601ResidenceUrban46.946.85,172Rural53.153.25,861SchoolingNo schooling1.00.6106<5 years complete	1,484	306	304	
25-29 14.8 14.1 1,630 30-34 14.0 13.6 1,541 35-39 15.4 14.5 1,703 40-44 13.9 12.7 1,536 45-49 14.5 13.7 1,601 Residence Urban 46.9 46.8 5,172 Rural 53.1 53.2 5,861 Schooling No schooling 1.0 0.6 106 <5 years complete	1,533	278	271	
30-3414.013.61,541 $35-39$ 15.414.51,703 $40-44$ 13.912.71,536 $45-49$ 14.513.71,601ResidenceUrban46.946.85,172Rural53.153.25,861SchoolingNo schooling1.00.6106<5 years complete	1,617	261	265	
35-39 15.4 14.5 1,703 40-44 13.9 12.7 1,536 45-49 14.5 13.7 1,601 Residence Urban 46.9 46.8 5,172 Rural 53.1 53.2 5,861 Schooling No schooling 1.0 0.6 106 <5 years complete	1,521	252	251	
40-44 13.9 12.7 1,536 45-49 14.5 13.7 1,601 Residence Urban 46.9 46.8 5,172 Rural 53.1 53.2 5,861 Schooling No schooling 1.0 0.6 106 <5 years complete	1,709	270	273	
45-49 14.5 13.7 1,601 Residence 11.5 13.7 1,601 Wrban 46.9 46.8 5,172 Rural 53.1 53.2 5,861 Schooling 1.0 0.6 106 System 2.2 2.9 246 5-9 years complete 24.6 26.0 2,716 10-11 years complete 24.4 25.9 2,689 12 or more years complete 47.8 44.6 5,276 Literacy Uterate ¹ 97.9 98.7 10,796 Not literate 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media 3.0 1.0 331 Matches television at least once a week 91.9 93.5 10,140 Listens to the radio at least once a week 14.3 22.9 1,506 Not regularly exposed to any media 3.0 1.0 331	1,579	236	250	
Urban 46.9 46.8 $5,172$ Rural 53.1 53.2 $5,861$ Schooling1.00.6106 <5 years complete 2.2 2.9 246 $5-9$ years complete 24.6 26.0 $2,716$ $10-11$ years complete 24.4 25.9 $2,689$ 12 or more years complete 47.8 44.6 $5,276$ LiteracyIterate ¹ 97.9 98.7 $10,796$ Not literate 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various mediaReads a newspaper/magazine at least once a 8.66 $8,536$ Watches television at least once a week 91.9 93.5 $10,140$ Listens to the radio at least once a week 14.3 22.9 $1,580$ Visits the cinema/theatre at least once a month 14.6 29.4 $1,606$ Not regularly exposed to any media 3.0 1.0 331 Marital statusNever married 22.7 45.8 $2,500$ Currently married 73.8 53.5 $8,147$ Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131	1,590	253	250	
Urban 46.9 46.8 $5,172$ Rural 53.1 53.2 $5,861$ Schooling1.00.6106 <5 years complete 2.2 2.9 246 $5-9$ years complete 24.6 26.0 $2,716$ $10-11$ years complete 24.4 25.9 $2,689$ 12 or more years complete 47.8 44.6 $5,276$ LiteracyIterate ¹ 97.9 98.7 $10,796$ Not literate 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various mediaReads a newspaper/magazine at least once a 8.66 $8,536$ Watches television at least once a week 91.9 93.5 $10,140$ Listens to the radio at least once a week 14.3 22.9 $1,580$ Visits the cinema/theatre at least once a month 14.6 29.4 $1,606$ Not regularly exposed to any media 3.0 1.0 331 Marital statusNever married 22.7 45.8 $2,500$ Currently married 23.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 ReligionHindu 56.5 57.8 $6,229$				
Rural 53.1 53.2 5,861 Schooling 1.0 0.6 106 <5 years complete	4,187	869	736	
No schooling1.00.6106<5 years complete	6,846	987	1,128	
No schooling1.00.6106<5 years complete				
<5 years complete	156	11	17	
5-9 years complete 24.6 26.0 2,716 10-11 years complete 24.4 25.9 2,689 12 or more years complete 47.8 44.6 5,276 Literacy	281	54	59	
10-11 years complete 24.4 25.9 2,689 12 or more years complete 47.8 44.6 5,276 Literacy 97.9 98.7 10,796 Not literate 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media Reads a newspaper/magazine at least once a 77.4 88.6 8,536 Watches television at least once a week 91.9 93.5 10,140 1.580 Visits the cinema/theatre at least once a week 14.3 22.9 1,580 Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status Never married 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131	2,743	482	504	
12 or more years complete 47.8 44.6 5,276 Literacy Literate ¹ 97.9 98.7 10,796 Not literate 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media Reads a newspaper/magazine at least once a week 77.4 88.6 8,536 Watches television at least once a week 91.9 93.5 10,140 Listens to the radio at least once a week 14.3 22.9 1,580 Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status Never married 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131	2,712	480	481	
Literate ¹ 97.9 98.7 10,796 Not literate 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media Reads a newspaper/magazine at least once a 77.4 88.6 8,536 Watches television at least once a week 91.9 93.5 10,140 Listens to the radio at least once a week 14.3 22.9 1,580 Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status Never married 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion Hindu 56.5 57.8 6,229	5,141	829	803	
Literate ¹ 97.9 98.7 10,796 Not literate 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media Reads a newspaper/magazine at least once a 77.4 88.6 8,536 Watches television at least once a week 91.9 93.5 10,140 Listens to the radio at least once a week 14.3 22.9 1,580 Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status Never married 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion Hindu 56.5 57.8 6,229				
Not literate 2.1 1.3 232 Not measured 0.0 0.0 5 Percentage exposed to various media Reads a newspaper/magazine at least once a 77.4 88.6 8,536 Watches television at least once a week 91.9 93.5 10,140 Listens to the radio at least once a week 14.3 22.9 1,580 Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status Never married 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion Hindu 56.5 57.8 6,229	10,745	1,831	1,830	
Percentage exposed to various media Reads a newspaper/magazine at least once a week77.488.68,536Watches television at least once a week91.993.510,140Listens to the radio at least once a week14.322.91,580Visits the cinema/theatre at least once a month14.629.41,606Not regularly exposed to any media3.01.0331Marital statusNever married22.745.82,500Currently married73.853.58,147Married, gauna not performed0.00.03Widowed2.30.1251Divorced/separated/deserted1.20.6131Religion Hindu56.557.86,229	280	25	33	
Reads a newspaper/magazine at least once a week 77.4 88.6 8,536 Watches television at least once a week 91.9 93.5 10,140 Listens to the radio at least once a week 14.3 22.9 1,580 Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status Never married 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131	8	0	1	
week 77.4 88.6 8,536 Watches television at least once a week 91.9 93.5 10,140 Listens to the radio at least once a week 14.3 22.9 1,580 Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion 56.5 57.8 6,229				
Watches television at least once a week 91.9 93.5 10,140 Listens to the radio at least once a week 14.3 22.9 1,580 Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status				
Listens to the radio at least once a week 14.3 22.9 1,580 Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131	8,335	1,644	1,611	
Visits the cinema/theatre at least once a month 14.6 29.4 1,606 Not regularly exposed to any media 3.0 1.0 331 Marital status 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion 56.5 57.8 6,229	10,112	1,736	1,734	
Not regularly exposed to any media 3.0 1.0 331 Marital status	1,467	424	424	
Marital status Never married 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion Hindu 56.5 57.8 6,229	1,467	546	551	
Never married 22.7 45.8 2,500 Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion Keligion Keligion Keligion Keligion	370	18	27	
Currently married 73.8 53.5 8,147 Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion Hindu 56.5 57.8 6,229				
Married, gauna not performed 0.0 0.0 3 Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion 56.5 57.8 6,229	2,511	850	839	
Widowed 2.3 0.1 251 Divorced/separated/deserted 1.2 0.6 131 Religion 56.5 57.8 6,229	8,094	992	1,012	
Divorced/separated/deserted 1.2 0.6 131 Religion Hindu 56.5 57.8 6,229	4	0	0	
Religion Hindu 56.5 57.8 6,229	275	2	3	
Hindu 56.5 57.8 6,229	149	11	10	
,				
	6,240	1,073	1,049	
Muslim 27.9 27.9 3,077	2,919	518	525	
Christian 15.6 14.2 1,725	1,870	263	288	
Other 0.0 0.1 2	4	3	2	

Table 10 Background characteristics of respondents-Continued

Percent distribution of women and men age 15-49 by selected background characteristics and percentage exposed to various media, Kerala, 2015-16

	Weighte	d percent	Number	of women	Number of men		
Background characteristic	Women	Men	Weighted	Unweighted	Weighted	Unweighted	
Caste/tribe							
Scheduled caste	9.7	9.3	1,075	1,087	172	158	
Scheduled tribe	1.3	2.0	145	285	37	65	
Other backward class	55.4	49.2	6,108	5,937	914	929	
Other	33.2	37.6	3,666	3,683	698	676	
Don't know	0.4	1.9	40	41	35	36	
Total age 15-49	100.0	100.0	11,033	11,033	1,856	1,864	
Age 50-54	na	11.0	na	na	230	222	
Total age 15-54	na	100.0	na	na	2,086	2,086	
Employment status (past 12 months)							
Employed at any time	21.1	74.6	501	526	1,384	1,396	
In agricultural occupation	2.3	6.3	54	68	117	154	
In non-agricultural occupation	18.5	66.3	439	448	1,231	1,206	
Don't know	0.3	2.0	8	10	36	36	
Not employed	78.9	25.4	1,871	1,871	472	468	
Total age 15-49	100.0	100.0	2,372	2,397	1,856	1,864	
Age 50-54	na	11.0	na	na	230	222	
Total age 15-54	na	100.0	na	na	2,086	2,086	

na = Not applicable

¹ Refers to women/men who can read a whole sentence or part of a sentence and women/men who completed standard 6 or higher (who are assumed to be literate)

Table 11 Current fertility

Age-specific and total fertility rates and crude birth rates from NFHS-4, NFHS-3, NFHS-2, and NFHS-1 by residence, State

	NFHS-4			NFHS-3			NFHS-2			NFHS-1		
Age	Urban	Rural	Total									
15-19	0.022	0.020	0.021	0.022	0.042	0.035	0.013	0.041	0.039	0.033	0.040	0.038
20-24	0.109	0.111	0.110	0.113	0.162	0.144	0.128	0.179	0.166	0.149	0.164	0.160
25-29	0.122	0.113	0.117	0.143	0.140	0.141	0.097	0.137	0.128	0.121	0.123	0.123
30-34	0.045	0.052	0.048	0.056	0.050	0.052	0.042	0.039	0.040	0.036	0.063	0.054
35-39	0.014	0.013	0.013	0.012	0.012	0.012	0.022	0.014	0.016	0.013	0.019	0.017
40-44	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.004	0.003	0.003	0.008	0.006
45-49	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
TFR(15-49)	1.57	1.55	1.56	1.73	2.03	1.93	1.51	2.07	1.96	1.78	2.09	2.00
CBR	11.4	11.0	11.2	15.4	16.9	16.4	14.8	19.7	18.8	18.0	20.3	19.6

Note: Rates are for the period 1-36 months preceding the survey (approximately 1990-92 for NFHS-1, 1996-98 for NFHS-2, 2003-05 for NFHS-3, and 2013-15 for NFHS-4). Age-specific fertility rates are expressed per woman. Rates for the age group 45-49 might be slightly biased due to truncation.

TFR = Total fertility rate, expressed per woman

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

() Based on 125-249 unweighted woman-years of exposure.

Table 12 Fertility by background characteristics

Total fertility rate for the three years preceding the survey, percentage of women age 15-49 currently pregnant, mean number of children ever born to women age 40-49, and total wanted fertility, by background characteristics, Kerala, 2015-16

Background characteristic	Total fertility rate	Percentage of women age 15-49 currently pregnant	Mean number of children ever born to women age 40-49	Total wanted fertility rate
Residence				
Urban	1.57	3.3	2.1	1.47
Rural	1.55	3.4	2.1	1.46
Schooling				
No schooling	1.50	0.4	2.5	0.30
<5 years complete	2.14	0.0	2.3	1.97
5-9 years complete	1.77	1.2	2.2	1.64
10-11 years complete	1.77	1.8	2.0	1.68
12 or more years complete	1.63	5.5	1.8	1.55
Religion				
Hindu	1.42	2.8	1.9	1.34
Muslim	1.86	4.5	2.7	1.72
Christian	1.51	3.3	1.9	1.45
Caste/tribe				
Scheduled caste	1.50	2.3	2.0	1.45
Scheduled tribe	2.31	3.4	2.5	1.98
Other backward class	1.58	3.4	2.2	1.49
Other	1.50	3.7	2.0	1.40
Total	1.56	3.4	2.1	1.47

Note: Total includes women who don't know their caste/tribe, who are who are not shown separately.

Table 13 Teenage pregnancy and motherhood

		women age 15- who:	Percentage of women age 15-19 who	
Background characteristic	Have had a live birth	Are pregnant with first child	have begun childbearing	Number of women
Ago				
Age 15	0.0	0.0	0.0	294
16	0.0	0.0	0.0	266
17	0.0	0.0	0.0	313
18	1.1	1.2	2.3	329
19	7.0	5.3	12.4	302
Residence				
Urban	1.1	1.6	2.7	687
Rural	2.1	1.1	3.2	817
Schooling				
5-9 years complete	1.8	1.2	3.0	206
10-11 years complete	1.5	0.7	2.2	652
12 or more years complete	1.6	2.0	3.6	645
Marital status				
Never married	0.0	0.0	0.0	1,413
Currently married	27.6	22.7	50.3	88
Religion				
Hindu	1.2	0.7	1.9	779
Muslim	2.6	2.7	5.3	498
Christian	1.2	0.4	1.6	226
Caste/tribe				
Scheduled caste	1.5	1.3	2.8	137
Scheduled tribe	1.6	4.3	5.8	25
Other backward class	1.6	1.5	3.1	867
Other	1.9	0.9	2.8	472
Total	1.7	1.3	3.0	1,504

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, Kerala, 2015-16

Note: Total includes women with <5 years of schooling; women who are widowed, divorced, separated, or deserted; and women who don't know their caste/tribe, who are not shown separately.

Table 14 Birth order

Percent distribution of births to all women during the three years preceding the survey by birth order, according to background characteristics, Kerala, 2015-16, and percent distribution of births to women by birth order, NFHS-3

		Birth	order		_	Number
Background characteristic	1	2	3	4+	Total	of births
Mother's current age						
Mother's current age	60.3	34.6	4.6	0 5	100.0	000
				0.5		980
30-39	18.4	50.6	22.2	8.7	100.0	427
Residence						
Urban	47.2	40.1	9.7	3.1	100.0	688
Rural	49.4	37.6	9.8	3.2	100.0	766
Mother's schooling						
5-9 years complete	26.8	40.3	22.7	10.3	100.0	207
10-11 years complete	32.5	46.8	15.7	5.1	100.0	273
12 or more years complete	57.6	36.4	5.1	0.9	100.0	966
Religion						
Hindu	56.3	39.6	3.7	0.4	100.0	748
Muslim	35.3	39.0 37.9	18.6	8.3	100.0	506
Christian				0.0	100.0	
Christian	52.0	38.1	9.9	0.0	100.0	199
Caste/tribe						
Scheduled caste	57.9	37.1	5.0	0.0	100.0	137
Scheduled tribe	51.1	32.2	8.6	8.1	100.0	30
Other backward class	45.8	39.7	11.2	3.3	100.0	815
Other	50.0	38.1	8.5	3.5	100.0	462
Total	48.4	38.8	9.7	3.1	100.0	1,454
NFHS-3 (2005-06)	45.2	36.7	12.9	5.2	100.0	611

Note: Total includes information on births to women age 15-19 and 40-49, women who have no schooling or <5 years of schooling, women belonging to "other" religions, and women who don't know their caste/tribe, who are not shown separately.

Table 15 Birth intervals

Percent distribution of births during the five years preceding the survey by interval since the preceding birth, and median number of months since the preceding birth, according to background characteristics, Kerala, 2015-16

		Mc	onths since p	preceding bi	th				
Background characteristic	7-17	18-23	24-35	36-47	48-59	60+	Total	Number of non-first order births	Median number of months since preceding birth
Mother's current age									
20-29	4.1	9.4	20.6	25.2	19.5	21.2	100.0	560	43.9
30-39	4.0	5.3	11.5	18.7	15.1	45.4	100.0	674	55.8
40-49	(1.8)	(0.0)	(3.1)	(7.1)	(4.7)	(83.3)	100.0	41	≥60
Residence									
Urban	4.7	6.7	14.8	20.8	18.9	34.1	100.0	601	49.3
Rural	3.4	7.2	15.6	21.5	14.7	37.6	100.0	674	49.8
Mother's schooling									
5-9 years complete	4.6	8.1	12.9	20.1	13.6	40.7	100.0	294	52.4
10-11 years complete	2.6	7.7	16.9	22.5	17.5	32.8	100.0	329	48.1
12 or more years									
complete	4.2	6.1	15.4	20.8	18.0	35.6	100.0	637	50.0
Religion									
Hindu	3.8	7.4	14.1	22.1	16.0	36.7	100.0	570	49.2
Muslim	3.0	5.7	15.8	21.2	18.7	35.6	100.0	554	50.5
Christian	8.9	9.8	17.0	17.5	12.1	34.6	100.0	151	43.7
Caste/tribe									
Scheduled caste	4.2	13.1	16.8	19.0	13.1	33.8	100.0	97	46.0
Scheduled tribe	(14.0)	(1.6)	(22.5)	(30.1)	(13.3)	(18.5)	100.0	23	(37.7)
Other backward class	2.9	6.7	15.2	21.3	18.1	35.9	100.0	758	50.3
Other	5.4	6.4	14.6	21.2	14.9	37.6	100.0	390	49.2
Birth order									
2-3	4.2	7.2	15.5	20.7	17.1	35.4	100.0	1,194	49.3
4-6	1.7	2.5	11.3	28.6	11.7	44.2	100.0	81	52.3
Sex of preceding birth									
Male	4.6	6.8	16.5	19.0	19.0	34.1	100.0	629	49.7
Female	3.5	7.1	13.9	23.3	14.5	37.7	100.0	646	49.3
Survival of preceding birth									
Living	3.5	6.9	15.3	21.1	16.9	36.4	100.0	1,257	50.0
Total	4.0	6.9	15.2	21.2	16.7	35.9	100.0	1,276	49.5

Note: First-order births are excluded from the table. The interval for multiple births is the number of months since the preceding pregnancy that ended in a live birth. Total includes information on births to women age 15-19, births to women who have no schooling or < 5 years of schooling, births to women from "other" religions, births of birth order 7+, and births to women who don't know their caste/tribe, which are not shown separately. () Based on 25-49 unweighted cases

Table 16 Fertility preferences by number of living children

		1	Number	of living	children	1		
Desire for children	0	1	2	3	4	5	6+	Total
		WO	MEN					
Want another soon ²	71.9	27.4	4.7	5.1	3.8	(5.6)	*	15.3
Want another later ³	7.0	31.8	4.3	2.4	2.7	(7.7)	*	11.0
Want another, undecided when	5.4	5.3	0.7	0.6	0.0	(0.0)	*	2.2
Undecided	4.8	6.3	2.6	5.2	4.4	(7.6)	*	4.1
Want no more	1.8	14.6	19.7	17.9	29.5	(30.0)	*	17.2
Sterilized ⁴	1.2	10.5	63.5	65.7	57.5	(46.2)	*	45.9
Declared infecund	7.9	4.0	4.4	3.2	2.2	(3.0)	*	4.4
Missing	0.0	0.0	0.0	0.0	0.0	(0.0)	*	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	611	1,994	4,229	1,032	212	50	19	8,147
		ME	ĪN					
Want another soon ²	56.5	27.3	5.1	6.4	(4.7)	*	*	16.0
Want another later ³	11.4	29.7	2.3	1.8	(2.6)	*	*	9.9
Want another, undecided when	1.5	2.9	0.7	0.0	(0.0)	*	*	1.2
Undecided	7.4	5.1	4.9	10.6	(0.0)	*	*	5.7
Want no more	16.9	33.4	70.6	65.7	(78.2)	*	*	55.7
Sterilized ⁴	1.1	1.1	16.2	15.1	(14.4)	*	*	10.6
Declared infecund	5.2	0.5	0.3	0.3	(0.0)	*	*	0.9
Missing	0.0	0.0	0.0	0.0	(0.0)	*	*	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	105	241	477	124	31	11	3	992

Percent distribution of currently married women and men age 15-49 by desire for children, according to number of living children, Kerala, 2015-16

¹ Includes current pregnancy of woman/wife

² Want next birth within 2 years

³ Want to delay next birth for 2 or more years

⁴ For women: Includes both female and male sterilization and women who have had a hysterectomy

For men: Includes male sterilization and men who mention in response to the question about desire for children that their wife has been sterilized

() Based on 25-49 unweighted cases

Table 17 Desire not to have any more children

Percentage of currently married women and men age 15-49 who want no more children by number of living children, according to background characteristics, Kerala, 2015-16, and by number of living children, NFHS-3

<u> </u>	W/on	nen: Num	, ber of l	iving chil	dren ¹	-	Me	n• Numh	er of livi	ing child	ren ¹	
				U						0		- 1
Background characteristic	0	1	2	3	4+	Total	0	1	2	3	4+	Total
Age												
15-24	0.2	3.2	38.9	*	*	7.8	*	*	*	*	*	*
25-34	2.2	8.0	72.8	68.7	(77.1)	46.4	6.4	14.3	66.9	*	*	32.3
35-49	9.6	64.1	90.4	89.8	86.4	83.8	(32.7)	52.1	91.1	82.8	(93.2)	79.6
Residence												
Urban	2.1	25.6	83.1	82.1	81.8	62.4	(18.1)	32.3	87.6	82.4	*	65.9
Rural	3.8	24.6	83.4	85.0	87.5	63.7	18.0	36.7	86.2	79.3	(87.9)	66.8
Schooling												
No schooling	*	*	91.6	(98.1)	*	91.3	*	*	*	*	*	*
<5 years complete	*	*	85.8	94.1	*	77.9	*	*	(83.0)	*	*	83.9
5-9 years complete	5.1	40.4	86.9	86.8	86.6	77.3	(20.4)	27.1	87.5	85.3	(92.0)	70.8
10-11 years complete	5.4	37.3	84.9	76.3	(76.0)	70.4	*	41.7	87.6	(68.4)	*	67.3
12 or more years complete	1.9	17.3	79.3	82.4	*	48.9	(13.8)	31.1	86.0	*	*	57.5
Religion												
Hindu	3.9	27.9	89.9	92.5	(80.7)	66.5	12.7	33.6	92.4	(81.0)	*	66.3
Muslim	0.0	13.9	60.4	78.5	84.8	54.7	(20.7)	(40.4)	70.9	78.7	(93.5)	64.9
Christian	4.9	29.7	86.6	90.0	*	66.4	*	(29.2)	87.5	*	*	69.8
Caste/tribe												
Scheduled caste	1.7	25.0	89.6	93.1	*	66.5	*	(40.5)	93.8	*	*	74.9
Scheduled tribe	*	(21.5)	82.2	(94.7)	*	64.6	*	*	*	*	*	(69.3)
Other backward class	2.0	21.1	81.8	82.0	84.8	62.2	9.3	27.4	81.0	75.5	(89.7)	60.8
Other	4.3	30.9	83.8	84.1	85.4	63.6	(30.2)	44.2	92.0	(84.4)	*	72.1
Don't know	*	*	*	*	*	(56.9)	*	*	*	*	*	*
Number of living sons ²												
0	3.0	21.4	79.5	80.7	(89.9)	40.1	18.0	30.1	79.1	*	*	45.0
1	na	29.4	84.0	83.4	85.8	69.8	na	39.8	89.3	(87.8)	*	76.0
2	na	na	84.8	82.3	78.5	83.9	na	na	89.6	(85.5)	*	88.2
3	na	na	na	89.9	86.9	88.9	na	na	na	*	*	(80.9)
4+	na	na	na	na	na	(93.2)	na	na	na	na	na	*
Total	3.0	25.1	83.2	83.6	84.9	63.1	18.0	34.5	86.8	80.8	(93.4)	66.4
NFHS-3 (2005-06)	2.1	25.7	88.0	91.0	92.2	69.3	(2.4)	14.5	60.6	51.7	*	44.0

Note: Women who have been sterilized or whose husband has been sterilized are considered to want no more children. Men who are sterilized or who mention in response to the question about desire for children that their wife has been sterilized are considered to want no more children. na = Not applicable

¹ Includes current pregnancy of woman/wife

² Excludes pregnant women and men with pregnant wives

() Based on 25-49 unweighted cases

Table 18 Ideal number of children

			Numl	per of living o	children ¹			-	NFHS-3
Ideal number of children	0	1	2	3	4	5	6+	Total	(2005-2006)
				WOME	N				
0	4.0	2.7	2.4	1.8	3.8	4.3	*	2.9	0.8
1	8.8	9.5	2.1	0.8	0.0	0.0	*	5.3	6.0
2	69.5	71.2	76.2	24.8	13.4	1.4	*	66.5	62.6
3	13.3	13.1	15.3	53.7	17.1	19.1	*	18.1	17.5
4	2.7	2.6	3.2	14.8	48.0	14.6	*	5.1	5.3
5	0.7	0.5	0.6	2.5	11.0	37.4	*	1.2	2.0
6+	0.3	0.3	0.2	1.5	5.8	19.1	*	0.6	0.8
Non-numeric responses	0.7	0.0	0.1	0.2	0.8	4.1	*	0.3	5.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	3,171	2,111	4,373	1,082	224	53	20	11,033	3,566
Mean ideal number of children for ² :									
All respondents	2.1	2.1	2.2	2.9	3.7	(4.5)	*	2.2	2.3
Number of all									
respondents	3,148	2,110	4,370	1,081	222	51	19	11,000	3,387
Currently married									
respondents Number of currently	2.1	2.1	2.2	2.9	3.7	(4.5)	*	2.3	2.4
married respondents	610	1,994	4,226	1,031	212	47	19	8,139	2,542
				MEN					
0	6.0	2.1	0.0	1.5	(0.0)	*	*	3.5	1.0
1	7.6	16.9	2.7	0.0	(0.0)	*	*	6.9	7.0
2	69.3	68.4	84.9	25.9	(31.3)	*	*	69.5	67.0
3	10.5	11.1	6.7	54.0	(28.6)	*	*	12.8	15.2
4	2.9	1.4	4.3	12.4	(31.5)	*	*	4.2	3.9
5	0.8	0.0	1.2	3.2	(3.9)	*	*	1.2	1.1
6+	0.1	0.0	0.2	3.0	(4.7)	*	*	0.5	0.4
Non-numeric responses	2.7	0.0	0.2	0.0	(0.0)	*	*	1.5	4.5
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	959	247	481	124	31	11	3	1,856	1,006
Mean ideal number of children for ² :									
All respondents	2.0	1.9	2.2	3.0	(3.2)	*	*	2.1	2.2
Number of all									
respondents	932	247	480	124	31	11	3	1,829	961
Currently married									
respondents Number of currently	2.1	1.9	2.2	3.0	(3.2)	*	*	2.3	2.3
married respondents	104	241	476	124	31	11	3	991	553

Percent distribution of women and men age 15-49 by ideal number of children, and mean ideal number of children, by number of living children, Kerala, 2015-16, and percent distribution of women and men age 15-49 by ideal number of children, NFHS-3

¹ Includes current pregnancy of woman/wife

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

() Based on 25-49 unweighted cases
 * Percentage not shown; based on fewer than 25 unweighted cases

Table 19 Indicators of sex preference

Percentage of women and men age 15-49 who want more sons than daughters, percentage who want more daughters than sons, percentage who want at least one son, and percentage who want at least one daughter according to background characteristics, Kerala, 2015-16, and total for NFHS-3

		Wo	omen				N	len		
Background characteristic	Percentage who want more sons than daughters	Percentage who want more daughters than sons	Percentage who want at least one son	Percentage who want at least one daughter	Number of women	Percentage who want more sons than daughters	Percentage who want more daughters than sons	Percentage who want at least one son	Percentage who want at least one daughter	Number of men
Age										
15-19	11.3	5.4	73.5	71.2	1,489	19.2	3.5	74.2	62.2	298
20-29	10.2	6.6	76.3	74.8	3,140	13.2	4.0	68.6	63.9	527
30-39	10.8	7.0	74.6	74.0	3,240	13.0	5.1	69.4	65.3	516
40-49	12.4	6.4	76.0	74.1	3,130	16.6	5.3	67.8	65.1	488
Residence										
Urban	11.6	6.8	74.3	72.9	5,153	15.0	5.5	71.2	66.1	860
Rural	10.8	6.2	76.3	74.7	5,847	15.0	3.8	68.0	62.8	968
Schooling										
No schooling	13.6	12.3	66.9	64.4	106	*	*	*	*	10
<5 years complete	15.2	5.8	69.4	64.2	246	23.9	0.0	76.9	70.3	54
5-9 years complete	12.6	6.4	75.6	74.0	2,706	15.9	3.4	67.5	63.2	478
10-11 years complete	11.5	6.5	77.0	74.8	2,675	19.2	4.5	66.5	56.8	473
12 or more years complete	10.0	6.4	74.8	74.0	5,266	11.5	5.7	71.8	68.9	814
Marital status										
Never married	10.9	5.7	73.2	71.3	2,480	15.9	4.0	69.4	61.2	825
Currently married	11.2	6.8	75.9	74.6	8,139	14.1	4.9	69.5	66.8	991
Widowed/divorced/separated/deserted	11.0	5.1	76.0	74.0	381	*	*	*	*	13
Religion										
Hindu	9.0	5.6	76.5	75.0	6,218	11.0	4.9	67.3	64.0	1,053
Muslim	16.0	9.1	72.3	71.3	3,056	23.6	4.3	72.5	64.1	515
Christian	10.2	4.9	76.7	74.6	1,724	14.5	3.3	72.8	66.0	259
									Conti	nued

Table 19 Indicators of sex preference—Continued

Percentage of women and men age 15-49 who want more sons than daughters, percentage who want more daughters than sons, percentage who want at least one son, and percentage who want at least one daughter according to background characteristics, Kerala, 2015-16, and total for NFHS-3

		Wo	omen			Men					
Background characteristic	Percentage who want more sons than daughters	Percentage who want more daughters than sons	Percentage who want at least one son	Percentage who want at least one daughter	Number of women	Percentage who want more sons than daughters	Percentage who want more daughters than sons	Percentage who want at least one son	Percentage who want at least one daughter		
Caste/tribe											
Scheduled caste	10.6	4.6	77.4	73.6	1,071	9.8	1.4	65.9	62.2	169	
Scheduled tribe	6.9	10.3	68.9	69.8	, 145	11.2	3.4	78.0	78.5	37	
Other backward class	12.2	6.6	75.9	74.7	6,092	16.7	4.4	69.5	63.9	906	
Other	9.8	6.7	73.9	72.6	3,651	14.8	5.9	70.2	64.9	683	
Don't know	(10.5)	(3.2)	(81.4)	(81.2)	40	(3.0)	(0.0)	(64.8)	(61.8)	34	
Total	11.2	6.5	75.3	73.9	11,000	15.0	4.6	69.5	64.4	1,829	
NFHS-3 (2005-06)	11.0	5.7	66.4	65.9	3,387	11.8	3.7	60.1	56.4	961	

Note: Table excludes women and men who gave non-numeric responses to the questions on ideal number of children or ideal number of sons or daughters. Total includes women/men who belonging to "other" religions, who are not shown separately.

() Based on 25-49 unweighted cases

Table 20 Knowledge of contraceptive methods

Percentage of all women and men, currently married women and men, and never married women and men who know any contraceptive method by specific method and residence, Kerala, 2015-16

		Women		Men				
Method	All women	Currently married women	Never married women	All men	Currently married men	Never married men		
		URB	AN					
ny method	98.8	99.7	95.7	98.2	99.5	96.9		
Any modern method	98.8	99.7	95.7	98.2	99.5	96.9		
Female sterilization	95.9	98.5	87.3	80.7	92.3	67.6		
Male sterilization	78.8	85.1	58.5	76.9	89.8	62.2		
IUD or PPIUD	79.1	86.4	54.8	40.4	50.8	28.7		
Injectables	47.3	48.9	42.5	60.9	73.1	47.6		
Pill	82.8	86.2	72.8	82.8	89.8	74.9		
Condom/Nirodh	93.2	95.6	86.0	97.5	99.2	95.7		
Female condom	43.6	44.9	41.8	59.1	64.2	53.7		
Lactational amenorrhoea method								
(LAM)	16.4	16.8	15.9	13.8	15.1	12.5		
Emergency contraception	45.1	46.8	42.1	60.7	70.7	49.2		
Other modern method	0.1	0.2	0.0	0.0	0.0	0.0		
Pill, IUD/PPIUD, and								
condom/Nirodh1	70.9	77.7	49.3	38.5	49.4	26.1		
ny traditional method	62.9	69.3	43.1	75.4	87.6	61.4		
	02.5	05.5	13.1	75.1	07.0	01.1		
Rhythm	51.8	57.1	35.5	55.3	72.0	36.6		
Withdrawal	54.8	60.7	36.7	72.1	84.5	58.1		
Other	0.2	0.2	0.3	0.5	0.6	0.5		
Aean number of methods known by								
espondents age 15-49	6.9	7.3	5.7	7.0	8.0	5.9		
Number of respondents age 15-49	5,172	3,854	1,153	869	458	408		
		RUF	RAL					
ny method	98.4	99.5	94.7	97.8	98.5	97.1		
Any modern method	98.3	99.4	94.7	97.8	98.3	97.1		
Female sterilization	95.5	97.6	00.0	79.3	87.8	(9 0		
			88.9			68.9		
Male sterilization	77.5	82.6	61.6	72.3	82.7	59.2		
IUD or PPIUD	78.8	85.1	59.4	42.1	52.5	29.2		
Injectables	46.9	48.8	41.3	58.6	62.8	52.7		
Pill	79.4	81.8	72.5	81.2	86.8	74.0		
Condom/Nirodh	91.8	93.7	86.5	96.1	97.0	95.0		
Female condom	39.5	40.6	37.5	49.5	52.3	45.8		
Lactational amenorrhoea method								
(LAM)	13.5	14.2	12.0	9.9	12.1	7.2		
Emergency contraception	42.9	43.8	41.7	56.6	61.8	50.6		
Other modern method	0.3	0.4	0.0	0.1	0.2	0.0		
Pill, IUD/PPIUD, and								
condom/Nirodh1	67.9	73.1	52.4	39.1	48.4	27.5		
ny traditional method	62.1	68.5	42.9	72.6	83.3	59.1		
Rhythm	51.0	56.5	35.5	51.0	63.3	35.6		
Withdrawal	54.5	61.0	35.1	68.6	79.4	55.2		
Other	0.3	0.3	0.3	0.6	0.9	0.2		
Aean number of methods known by								
espondents age 15-49	6.7	7.1	5.7	6.7	7.4	5.7		
Number of respondents age 15-49	5,861	4,293	1,350	987	534	443		

Table 20 Knowledge of contraceptive methods—Continued

Percentage of all women and men, currently married women and men, and never married women and men who know any contraceptive method by specific method and residence, Kerala, 2015-16

		Women		Men					
Method	All women	Currently married women	Never married women	All men	Currently married men	Never married men			
		TOT	AL						
Any method	98.6	99.6	95.1	98.0	98.9	97.0			
Any modern method	98.5	99.5	95.1	98.0	98.8	97.0			
Female sterilization	95.7	98.0	88.2	80.0	89.8	68.3			
Male sterilization	78.1	83.8	60.1	74.4	86.0	60.7			
IUD or PPIUD	78.9	85.7	57.2	41.3	51.7	28.9			
Injectables	47.1	48.9	41.8	59.7	67.6	50.2			
Pill	81.0	83.9	72.7	82.0	88.2	74.4			
Condom/Nirodh	92.4	94.6	86.2	96.8	98.0	95.3			
Female condom	41.4	42.6	39.4	54.0	57.8	49.6			
Lactational amenorrhoea method									
(LAM)	14.9	15.4	13.8	11.7	13.5	9.7			
Emergency contraception	43.9	45.2	41.9	58.5	65.9	49.9			
Other modern method	0.2	0.3	0.0	0.1	0.1	0.0			
Pill, IUD/PPIUD, and									
condom/Nirodh ¹	69.3	75.3	51.0	38.8	48.9	26.8			
Any traditional method	62.5	68.9	43.0	73.9	85.3	60.2			
Rhythm	51.4	56.8	35.5	53.0	67.3	36.1			
Withdrawal	54.6	60.8	35.8	70.3	81.8	56.6			
Other	0.3	0.2	0.3	0.6	0.7	0.3			
Mean number of methods known by									
respondents age 15-49	6.8	7.2	5.7	6.8	7.7	5.8			
Number of respondents age 15-49	11,033	8,147	2,503	1,856	992	850			

IUD = Intrauterine device ; PPIUD = Postpartum intrauterine device

 $^{\scriptscriptstyle 1}$ All three methods

Table 21 Current use of contraception by background characteristics

Percent distribution of currently married women by contraceptive method currently used, according to background characteristics, Kerala, 2015-16, and total for NFHS-3

						Moderr	n methoo	k			Any	Tradit	ional me	thod			
Background characteristic	Any method	Any modern method	Female sterili- zation	Male sterili- zation	Pill	IUD or PPIUD	Injec- tables	Condom/ Nirodh	LAM	Other modern method	tradi- tional method	Rhythm	With- drawal	Other	Not currently using	Total	Numbe of wome
Age																	
15-19	19.2	9.3	0.0	0.0	0.0	4.6	0.0	4.7	0.0	0.0	9.8	0.0	9.8	0.0	80.8	100.0	88
20-24	14.3	11.4	2.4	0.0	0.3	3.0	0.0	5.6	0.0	0.1	2.9	0.8	2.1	0.0	85.7	100.0	711
25-29	32.7	28.8	20.4	0.0	0.1	2.9	0.0	5.2	0.1	0.1	4.0	1.4	2.6	0.0	67.3	100.0	1,417
30-39	59.0	55.7	51.4	0.1	0.2	1.6	0.0	2.4	0.0	0.0	3.2	1.1	2.1	0.0	41.0	100.0	3,089
40-49	67.7	66.2	64.7	0.1	0.2	0.6	0.0	0.6	0.0	0.1	1.5	0.5	1.0	0.0	32.3	100.0	2,841
Residence																	
Urban	53.3	50.6	45.7	0.0	0.3	1.5	0.0	3.0	0.0	0.0	2.8	0.9	1.9	0.0	46.7	100.0	3,854
Rural	52.9	50.1	45.9	0.1	0.1	1.7	0.0	2.2	0.0	0.1	2.8	1.0	1.9	0.0	47.1	100.0	4,293
Schooling																	
No schooling	73.4	73.4	73.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6	100.0	80
<5 years complete	61.5	58.2	57.6	0.0	0.0	0.3	0.3	0.0	0.0	0.0	3.3	1.0	2.4	0.0	38.5	100.0	197
5-9 years complete	61.7	59.2	57.0	0.0	0.2	1.0	0.0	0.9	0.0	0.1	2.5	0.5	2.0	0.0	38.3	100.0	2,269
10-11 years complete	58.2	55.5	52.3	0.2	0.1	1.0	0.0	1.9	0.0	0.0	2.7	1.0	1.7	0.0	41.8	100.0	1,952
12 or more years complete	44.2	41.1	34.1	0.0	0.3	2.4	0.0	4.1	0.0	0.1	3.1	1.2	2.0	0.0	55.8	100.0	3,648
Religion																	
Hindu	57.7	54.9	49.6	0.1	0.2	1.8	0.0	3.0	0.0	0.1	2.8	1.0	1.8	0.0	42.3	100.0	4,547
Muslim	43.4	40.5	37.2	0.0	0.3	1.4	0.0	1.7	0.0	0.0	2.9	0.7	2.1	0.0	56.6	100.0	2,354
Christian	54.8	52.2	48.1	0.0	0.1	1.2	0.0	2.7	0.0	0.1	2.7	1.0	1.7	0.0	45.2	100.0	1,244
Caste/tribe																	
Scheduled caste	57.2	54.8	50.3	0.2	0.0	2.0	0.0	2.3	0.0	0.0	2.5	0.8	1.7	0.0	42.8	100.0	779
Scheduled tribe	55.6	54.3	49.4	0.3	0.0	3.2	0.0	1.4	0.0	0.0	1.3	0.4	0.9	0.0	44.4	100.0	104
Other backward class	53.2	50.3	46.0	0.1	0.1	1.5	0.0	2.6	0.0	0.0	2.9	0.8	2.1	0.0	46.8	100.0	4,524
	51.8	49.0	44.2	0.0	0.4	1.6	0.0	2.6	0.0	0.1	2.8	1.2	1.6	0.0	48.2	100.0	2,705
Other						(2.5)	(0.0)	(6.2)	(0.0)	(0.0)	(3.8)	(2.1)	(1.7)	(0.0)			35

Table 21 Current use of contraception by background characteristics—Continued

						Moderr	n metho	d			Any	Tradit	ional me	thod			
Background characteristic	Any method	Any modern method	Female sterili- zation	Male sterili- zation	Pill	IUD or PPIUD	Injec- tables	Condom/ Nirodh	LAM	Other modern method	tradi- tional method	Rhythm	With- drawal	Other	Not currently using	Total	Number of women
Number of living children																	
No children	6.9	5.4	0.9	0.0	0.2	0.1	0.0	4.2	0.0	0.0	1.5	0.2	1.3	0.0	93.1	100.0	793
1 child	25.4	20.2	10.5	0.1	0.2	3.7	0.0	5.5	0.0	0.2	5.3	1.6	3.7	0.0	74.6	100.0	1,966
1 son	26.6	20.9	11.2	0.2	0.3	3.5	0.0	5.4	0.0	0.3	5.7	1.5	4.2	0.0	73.4	100.0	994
No sons	24.2	19.4	9.8	0.0	0.1	4.0	0.0	5.5	0.0	0.0	4.8	1.6	3.1	0.0	75.8	100.0	972
2 children	70.3	68.1	65.4	0.1	0.1	1.1	0.0	1.4	0.0	0.0	2.1	0.7	1.4	0.0	29.7	100.0	4,106
1 or more sons	71.1	68.9	66.2	0.0	0.2	1.1	0.0	1.2	0.0	0.1	2.2	0.8	1.4	0.0	28.9	100.0	3,277
No sons	67.1	65.2	62.1	0.1	0.0	1.0	0.0	2.1	0.0	0.0	1.9	0.6	1.2	0.0	32.9	100.0	829
3 children	71.6	69.4	67.4	0.0	0.5	0.9	0.0	0.5	0.0	0.0	2.2	1.1	1.1	0.0	28.4	100.0	1,006
1 or more sons	72.2	70.3	68.4	0.0	0.5	0.8	0.0	0.5	0.0	0.0	2.0	0.9	1.1	0.0	27.8	100.0	872
No sons	67.2	63.5	61.1	0.0	0.0	1.5	0.0	1.0	0.0	0.0	3.7	2.2	1.5	0.0	32.8	100.0	133
4+ children	60.2	58.8	56.0	0.0	0.0	1.3	0.0	1.5	0.0	0.0	1.4	0.3	1.1	0.0	39.8	100.0	277
1 or more sons	59.4	57.8	57.0	0.0	0.0	0.2	0.0	0.6	0.0	0.0	1.6	0.3	1.2	0.0	40.6	100.0	246
No sons	(66.8)	(66.8)	(47.9)	(0.0)	(0.0)	(10.1)	(0.0)	(8.7)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(33.2)	100.0	30
Total	53.1	50.3	45.8	0.1	0.2	1.6	0.0	2.6	0.0	0.1	2.8	0.9	1.9	0.0	46.9	100.0	8,147
NFHS-3 (2005-06)	68.6	57.9	48.7	1.0	0.4	2.3	0.0	5.5	na	0.0	10.7	4.5	6.2	0.0	31.4	100.0	2,617

Percent distribution of currently married women by contraceptive method currently used, according to background characteristics, Kerala, 2015-16, and total for NFHS-3

Note: If more than one method is used, only the most effective method is considered in this table. Total includes women belonging to "other" religions, who are not shown separately.

IUD = Intrauterine device; PPIUD = Postpartum intrauterine device; LAM = Lactational amenorrhoea method

na = Not applicable

() Based on 25-49 unweighted cases

Table 22 Current use of contraceptive methods by district

Percentage of currently married women age 15-49 years using any contraceptive method, any modern method, female sterilization, male sterilization, any modern spacing method, and any traditional method, according to district, Kerala, 2015-16

					Any modern		
District	Any method	Any modern method	Female sterilization	Male sterilization	spacing method ¹	Any traditional method ²	Number of women
	1						
Alappuzha	45.1	42.7	36.5	0.2	6.0	2.4	483
Ernakulam	57.8	55.0	49.9	0.1	5.0	2.8	755
Idukki	63.0	61.2	57.8	0.0	3.4	1.8	230
Kannur	49.2	47.8	44.1	0.0	3.7	1.4	587
Kasaragod	42.6	37.5	34.1	0.0	3.3	5.1	305
Kollam	53.1	50.6	46.2	0.0	4.4	2.4	709
Kottayam	52.9	50.0	42.2	0.0	7.8	2.9	428
Kozhikode	57.5	53.5	50.4	0.0	3.1	3.9	794
Malappuram	43.0	39.7	36.6	0.0	3.1	3.4	1,100
Palakkad	62.2	57.6	53.5	0.0	4.2	4.5	772
Pathanamthitta	50.9	49.9	44.5	0.0	5.4	1.0	278
Thiruvananthapuram	49.1	48.0	42.9	0.0	5.0	1.1	835
Thrissur	63.8	62.1	56.9	0.3	4.9	1.8	684
Wayanad	57.8	52.2	46.3	0.5	5.4	5.6	188
Kerala	53.1	50.3	45.8	0.1	4.5	2.8	8,147

¹ Includes pill, IUD/PPIUD, injectables, male condom, female condom, and lactational amenorrhoea method (LAM)

² Includes rhythm, withdrawal, and other traditional methods

Table 23 Hysterectomy

Percentage of women age 15-49 who have had a hysterectomy, and among women with a hysterectomy, percent distribution by place the hysterectomy was performed, according to background characteristics, Kerala, 2015-16

	Percentage of		Place	y (%)			
Background characteristic	women who have had a hysterectomy	Number of women	Public health sector	Private health sector ¹	Elsewhere or don't know place	Total	Number of women with a hysterectomy
Age							
< 30	0.0	4,653	*	*	*	100.0	1
30-39	0.6	3,244	*	*	*	100.0	19
40-49	5.8	3,136	41.6	58.4	0.0	100.0	181
Residence							
Urban	2.0	5,172	33.9	66.1	0.0	100.0	103
Rural	1.7	5,861	49.6	50.4	0.0	100.0	99
Schooling							
No schooling	3.5	106	*	*	*	100.0	4
<5 years complete	7.3	246	*	*	*	100.0	18
5-9 years complete	2.6	2,716	43.3	56.7	0.0	100.0	71
10-11 years complete	1.5	2,689	(35.3)	(64.7)	(0.0)	100.0	41
12 or more years							
complete	1.3	5,276	34.9	65.1	0.0	100.0	68
Religion							
Hindu	2.1	6,229	41.4	58.6	0.0	100.0	129
Muslim	1.1	3,077	(35.8)	(64.2)	(0.0)	100.0	35
Christian	2.2	1,725	(47.8)	(52.2)	(0.0)	100.0	37
Caste/tribe							
Scheduled caste	1.4	1,075	*	*	*	100.0	15
Scheduled tribe	0.3	145	*	*	*	100.0	0
Other backward class	1.7	6,108	40.4	59.6	0.0	100.0	103
Other	2.2	3,666	42.3	57.7	0.0	100.0	82
Don't know	(1.1)	40	*	*	*	100.0	0
Total	1.8	11,033	41.6	58.4	0.0	100.0	201

Note: Total includes women belonging to "other" religions, who are not shown separately.

¹ Includes nongovernmental organizations or trust hospitals/clinics

() Based on 25-49 unweighted cases

Table 24 Contraceptive use by men at last sexual intercourse

Percent distribution of currently married men and sexually active unmarried men age 15-49 by contraceptive used the last time they had sex, according to type of partner and background characteristics, Kerala, 2015-16

					Мо	dern me	thod				Tradit	ional me	thod	Not		
Background characteristic		Any modern method	Female sterilization	Male sterilization	Pill	IUD or PPIUD	Injectables		Other modern method	Any traditional method	Rhythm	With- drawal	Other	used at last r sex ⁻	Total	Numbe of men
Turne of council montanes																
Type of sexual partner	20.0	22.0	12.4	0.1	1 1	1 1	0.0	7.2	0.2	E D	1 7	2.4	0.0	71 1	100.0	000
Currently married	28.9	23.6	13.4	0.1	1.4	1.1	0.0	7.3	0.3	5.3	1.7	3.4	0.0	71.1	100.0	992
Wife	32.1	26.5	15.0	0.2	1.5	1.3	0.0	8.2	0.3	5.6	1.8	3.7	0.0	67.9	100.0	884
Other	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.8	1.6	0.0	97.6	100.0	108
Age																
25-29	32.3	22.0	2.8	0.0	1.4	3.5	0.0	14.2	0.0	10.3	2.0	8.3	0.0	67.7	100.0	93
30-34	27.6	22.1	5.5	0.0	1.6	1.6	0.0	13.3	0.0	5.5	1.3	3.5	0.0	72.4	100.0	188
35-39	32.1	24.7	17.3	0.0	0.9	1.2	0.0	4.3	1.2	7.4	2.1	5.3	0.0	67.9	100.0	245
40-44	29.3	25.1	15.5	0.0	1.9	0.9	0.0	6.7	0.0	4.2	1.8	2.4	0.0	70.7	100.0	226
45-49	26.5	24.2	17.4	0.6	0.6	0.0	0.0	5.7	0.0	2.2	1.5	0.7	0.0	73.5	100.0	243
Residence																
Urban	29.5	23.0	10.9	0.0	2.2	1.2	0.0	8.7	0.0	6.4	2.8	3.6	0.0	70.5	100.0	462
Rural	29.2	25.0	15.0	0.3	0.6	1.1	0.0	7.5	0.5	4.2	0.8	3.2	0.0	70.8	100.0	547
Schooling																
<5 years complete	30.6	27.0	19.3	0.0	1.9	0.0	0.0	2.6	3.2	3.6	2.8	0.8	0.0	69.4	100.0	51
5-9 years complete	26.2	22.0	15.5	0.4	0.8	0.2	0.0	5.1	0.0	4.2	0.9	3.0	0.0	73.8	100.0	375
10-11 years complete	25.4	20.5	11.9	0.0	0.3	1.4	0.0	6.8	0.0	4.9	1.3	3.6	0.0	74.6	100.0	239
12 or more years complete	35.4	28.4	10.7	0.0	2.5	2.1	0.0	12.8	0.4	6.9	2.8	4.2	0.0	64.6	100.0	338
Religion																
Hindu	32.4	27.4	14.8	0.0	1.8	1.6	0.0	9.0	0.2	4.9	1.7	3.0	0.0	67.6	100.0	567
Muslim	25.7	18.8	14.0	0.0	0.7	0.0	0.0	5.0 7.1	0.2	4.9 6.9	2.0	4.8	0.0	74.3	100.0	291
Christian	24.5	21.2	13.2	0.4	1.0	0.0 1.6	0.0	5.5	0.0	3.3	2.0 1.0	2.3	0.0	75.5	100.0	149

Table 24 Contraceptive use by men at last sexual intercourse—Continued

Percent distribution of currently married men and sexually active unmarried men age 15-49 by contraceptive used the last time they had sex, according to type of partner and background characteristics, Kerala, 2015-16

					Мо	dern met	hod				Tradit	ional me	thod	Not		
Background characteristic	Any method	Any modern method	Female sterilization	Male sterilization	Pill	IUD or PPIUD	Injectables			Any traditional method	Rhythm	With- drawal	Other	used at last	Total	Number of men
Caste/tribe																
Scheduled caste	33.7	29.9	19.9	0.0	0.4	2.2	0.0	7.4	0.0	3.9	0.0	3.9	0.0	66.3	100.0	97
Scheduled tribe	(11.7)	(11.7)	(10.4)	(1.3)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(88.3)	100.0	20
Other backward class	31.8	26.2	15.3	0.0	1.6	0.9	0.0	7.8	0.6	5.7	1.5	3.9	0.0	68.2	100.0	501
Other	26.6	21.2	9.1	0.3	1.2	1.3	0.0	9.3	0.0	5.5	2.6	2.9	0.0	73.4	100.0	378
Total age 15-49	29.3	24.1	13.1	0.1	1.3	1.1	0.0	8.1	0.3	5.2	1.7	3.4	0.0	70.7	100.0	1,009
Age 50-54	34.7	31.4	26.7	0.0	0.7	0.5	0.0	3.6	0.0	3.3	0.1	3.2	0.0	65.3	100.0	225
Total age 15-54	30.3	25.4	15.6	0.1	1.2	1.0	0.0	7.2	0.2	4.9	1.4	3.4	0.0	69.7	100.0	1,233

Note: Total includes men whose sexual partner is not currently married, men age 15-19 and 20-24, men who have no schooling, men belonging to" other" religions, and men who don't know their caste/tribe, who are not shown separately.

IUD=Intrauterine device; PPIUD= Postpartum intrauterine device; LAM = Lactational amenorrhoea method

() Based on 25-49 unweighted cases

Table 25 Source of modern contraceptive methods

Percent distribution of current users of modern contraceptive methods by most recent source of the method, according to residence, Kerala, 2015-16

Most recent source of method	Female sterilization	IUD or PPIUD	Condom/ Nirodh	All modern methods ¹
	URBAN			
Public health sector	57.2	(74.5)	13.6	55.1
Government/municipal hospital	55.6	(52.8)	7.3	52.6
Government dispensary	0.2	(0.0)	0.0	0.2
UHC/UHP/UFWC	0.1	(1.9)	0.0	0.1
CHC/rural hospital/Block PHC	0.5	(9.8)	1.2	0.8
PHC/Additional PHC	0.0	(8.7)	1.1	0.3
Sub-centre/ANM	0.0	(1.3)	0.8	0.1
Government mobile clinic	0.0	(0.0)	0.2	0.0
Camp	0.5	(0.0)	0.0	0.4
Anganwadi/ICDS centre	0.0	(0.0)	1.0	0.1
ASHA	0.0	(0.0)	2.0	0.1
Other public health sector	0.3	(0.0)	0.0	0.3
NGO or trust hospital/clinic	0.1	(0.0)	0.0	0.1
Private health sector	42.7	(25.5)	61.1	43.2
Private hospital	41.6	(20.9)	3.6	38.7
Private doctor/clinic	0.8	(4.6)	0.7	0.9
Private mobile clinic	0.3	(0.0)	0.7	0.3
Pharmacy/drugstore	0.0	(0.0)	56.1	3.3
Other source	0.0	(0.0)	25.3	1.6
Shop	0.0	(0.0)	13.0	0.8
Husband	0.0	(0.0)	12.2	0.8
Total	100.0	100.0	100.0	100.0
Number of users	1,830	58	115	2,017
				Continued

Table 25 Source of modern contraceptive methods ---Continued

Percent distribution of current users of modern contraceptive methods by most recent source of the method, according to residence, Kerala, 2015-16

Most recent source of method	Female sterilization	IUD or PPIUD	Condom/ Nirodh	All modern methods ¹
	RURAL			
Public health sector	62.8	68.9	24.8	61.3
Government/municipal hospital	59.1	42.0	7.4	56.2
Government dispensary	0.1	0.0	0.0	0.1
UHC/UHP/UFWC	0.0	0.0	0.0	0.0
CHC/rural hospital/Block PHC	1.4	6.7	1.7	1.6
PHC/Additional PHC	0.6	15.3	10.6	1.6
Sub-centre/ANM	0.0	2.2	0.0	0.1
Government mobile clinic	0.0	2.7	0.9	0.1
Camp	1.4	0.0	0.0	1.3
ASHA	0.0	0.0	4.3	0.2
Other public health sector	0.0	0.0	0.0	0.0
NGO or trust hospital/clinic	0.1	0.0	0.0	0.1
Private health sector	37.1	31.1	52.9	37.4
Private hospital	36.0	31.1	1.4	34.3
Private doctor/clinic	0.9	0.0	0.0	0.8
Private mobile clinic	0.2	0.0	0.6	0.2
Pharmacy/drugstore	0.0	0.0	51.0	2.1
Other source	0.0	0.0	22.3	1.1
Shop	0.0	0.0	9.4	0.5
Husband	0.0	0.0	12.9	0.6
Total	100.0	100.0	100.0	100.0
Number of users	2,058	74	93	2,237
				Continued

Table 25 Source of modern contraceptive methods --- Continued

Percent distribution of current users of modern contraceptive methods by most recent source of the method, according to residence, Kerala, 2015-16

Most recent source of method	Female sterilization	IUD or PPIUD	Condom/ Nirodh	All modern methods ¹
	TOTAL			
Public health sector	60.1	71.4	18.6	58.4
Government/municipal hospital	57.5	46.8	7.3	54.5
Government dispensary	0.1	0.0	0.0	0.2
UHC/UHP/UFWC	0.1	0.8	0.0	0.1
CHC/rural hospital/Block PHC	1.0	8.1	1.4	1.2
PHC/Additional PHC	0.3	12.4	5.3	1.0
Sub-centre/ANM	0.0	1.8	0.5	0.1
Government mobile clinic	0.0	1.5	0.5	0.1
Camp	1.0	0.0	0.0	0.9
Anganwadi/ICDS centre	0.0	0.0	0.5	0.0
ASHA	0.0	0.0	3.0	0.1
Other public health sector	0.2	0.0	0.0	0.2
NGO or trust hospital/clinic	0.1	0.0	0.0	0.1
Private health sector	39.7	28.6	57.5	40.2
Private hospital	38.6	26.6	2.6	36.4
Private doctor/clinic	0.9	2.0	0.4	0.9
Private mobile clinic	0.2	0.0	0.7	0.2
Pharmacy/drugstore	0.0	0.0	53.8	2.7
Other source	0.0	0.0	23.9	1.3
Shop	0.0	0.0	11.4	0.6
Husband	0.0	0.0	12.5	0.7
Total	100.0	100.0	100.0	100.0
Number of users	3,888	133	208	4,253

Note: All information in this table is based on women's reports. Table includes all users of modern contraceptive methods regardless of their marital status. All modern methods include male sterilization pill, and Injectables, which are not shown separately.

UHC = Urban health centre; UHP = Urban health post; UFWC = Urban family welfare centre; CHC = Community health centre; PHC = Primary health centre; ANM = Auxiliary nurse midwife; ICDS = Integrated Child Development Services; ASHA = Accredited Social Health Activist; NGO = Nongovernmental organization

¹ Excludes standard days method, lactational amenorrhoea method (LAM), and "other" modern methods

() Based on 25-49 unweighted cases

Table 26 Informed choice

Among women who are current users of selected modern contraceptive methods 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 ever told by a health or family planning worker about other methods of family planning they could use, by method, according to residence, Kerala, 2015-16

Method	Percentage who were informed about possible side effects or problems of method used	Percentage who were informed about what to do if they experienced side effects	Percentage who were informed by a health or family planning worker of other methods that could be used	Number of women
		URBAN		
Female sterilization ¹	50.1	44.4	49.9	323
IUD or PPIUD	(91.1)	(78.2)	(71.5)	43
Total	55.0	48.5	52.6	367
		RURAL		
Female sterilization ¹	52.9	43.3	53.3	373
IUD or PPIUD	76.3	72.2	72.4	61
Total	56.1	47.3	56.1	438
		TOTAL		
Female sterilization ¹	51.6	43.8	51.7	696
IUD or PPIUD	82.3	74.6	72.0	104
Total	55.6	47.8	54.5	805

Note: Table includes only the contraceptive methods separately shown in the table and excludes users who obtained their method from friends/relatives or husband. Totals include pill users, who are not shown separately.

IUD = Intrauterine device; PPIUD = Postpartum intrauterine device

¹ Among women who were sterilized in the five years preceding the survey

() Based on 25-49 unweighted cases

Table 27 Twelve-month 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 reason for discontinuation and specific method, Kerala, 2015-16

				Reason for disco	ntinuation				_	
Method	Method failure	Desire to become pregnant	Other fertility related reason ¹	Side effects/health concerns	Wanted more effective method	Other method related reason ²	Other reason	Any reason ³	Switched to another method ⁴	Number of episodes of use ⁵
Female sterilization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	646
IUD or PPIUD	(0.7)	(11.7)	(7.7)	(11.4)	(0.0)	(1.8)	(1.3)	(34.6)	(2.6)	192
Condom/Nirodh	1.5	20.2	21.2	3.2	1.4	6.3	14.3	68.2	7.1	555
Rhythm	(1.6)	(28.1)	(23.1)	(3.7)	(0.6)	(1.1)	(1.5)	(59.7)	(6.4)	130
Other ⁶	2.7	19.8	29.9	0.8	4.4	0.4	6.8	64.7	7.2	402
All modern spacing methods ⁷	1.3	18.6	18.9	7.8	1.5	5.2	10.1	63.3	6.5	841
All spacing methods ⁸	1.7	20.0	22.5	5.3	2.2	3.4	8.3	63.5	6.7	1,366
All methods	1.2	13.5	15.2	3.6	1.5	2.3	5.6	43.0	4.6	2,014

Note: Figures are based on life table calculations using information on episodes of contraceptive use that began 3-62 months preceding the survey. All methods includes male sterilization and pill, which are not shown separately.

IUD = Intrauterine device; PPIUD = Postpartum intrauterine device

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

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

³ Reasons for discontinuation are mutually exclusive and add to the total in this column

⁴ The episodes of use included in this column are a subset of the discontinued episodes included in the discontinuation rate. A woman is considered to have switched to another method if she used a different method in the month following discontinuation or if she gave "wanted a more effective method" as the reason for discontinuation and started another method within two months of discontinuation.

⁵ Number of episodes of use includes both episodes of use that were discontinued during the period of observation and episodes of use that were not discontinued during the period of observation

⁶ Includes injectables, female condom, diaphragm, foam/jelly, standard days method, LAM, withdrawal, rhythm, and other modern and traditional methods that are not shown separately

⁷ Includes other modern spacing methods that are not shown separately

⁸ Includes other spacing methods that are not shown separately

() Based on 25-49 unweighted cases

Table 28 Men's contraception-related perceptions and knowledge

Percentage of men age 15-49 who agree with two specific statements about women and contraception, and percent distribution of men according to their belief about the efficacy of condoms in preventing pregnancy, by background characteristics, Kerala, 2015-16

	Percentage o agr			ige of men wl d correctly, it				_
Background characteristic	Contraception is women's business and a man should not have to worry about it	Women who use contra- ception may become promiscuous	Most of the time	Some times	Not at all	Don't know/ unsure ¹	Total	Number of men
Age 15-19	11.7	10.1	57.8	16.2	0.0	26.1	100.0	306
20-24	17.5	19.4	67.0	22.3	0.6	10.1	100.0	278
25-29	16.4	15.9	74.6	19.1	1.0	5.3	100.0	270
30-34	11.0	16.9	74.3	18.0	0.5	7.2	100.0	252
35-39	13.9	10.9	71.3	24.4	0.3	3.9	100.0	270
40-44	13.0	19.2	76.7	19.2	0.4	3.8	100.0	236
45-49	18.9	18.0	70.5	21.3	0.2	7.9	100.0	253
Residence								
Urban	16.2	16.9	72.2	19.4	0.1	8.2	100.0	869
Rural	13.2	14.4	67.8	20.6	0.7	10.9	100.0	987
Schooling								
<5 years complete	11.7	8.2	69.5	17.9	0.0	12.6	100.0	54
5-9 years complete	15.4	17.4	70.6	18.8	0.9	9.7	100.0	482
10-11 years complete	13.7	11.7	67.1	18.8	0.2	13.8	100.0	480
12 or more years								
complete	14.9	17.3	71.5	21.5	0.3	6.7	100.0	829
Religion								
Hindu	12.7	14.0	71.4	18.3	0.4	9.9	100.0	1,073
Muslim	21.1	20.0	68.8	20.7	0.5	10.0	100.0	518
Christian	9.1	13.0	65.5	26.1	0.4	8.0	100.0	263
Caste/tribe								
Scheduled caste	13.5	14.3	68.7	16.5	0.0	14.8	100.0	172
Scheduled tribe	7.6	15.4	58.6	9.1	0.0	32.4	100.0	37
Other backward class	11.6	11.9	71.3	19.8	0.3	8.6	100.0	914
Other	19.5	20.6	69.4	22.2	0.7	7.7	100.0	698
Don't know	(8.2)	(19.1)	(59.7)	(11.7)	(1.5)	(27.1)	100.0	35
Total age 15-49	14.6	15.6	69.9	20.0	0.4	9.7	100.0	1,856
Age 50-54	13.3	15.7	74.4	17.2	1.4	7.0	100.0	230
Total age 15-54	14.5	15.6	70.4	19.7	0.5	9.4	100.0	2,086

Note: Total includes men have no schooling and men belonging to "other" religions, who are not shown separately.

¹ Includes missing values and those who have never heard of male condoms

Table 29 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, Kerala, 2015-16

	Unmet need for family planning				d for family urrently usin		g Total demand for family planning ¹					
Background characteristic	For spacing	For limiting	Total	For spacing	For limiting	Total	For spacing	For limiting	Total	Percentage of demand satisfied ²	satisfied by modern methods ³	Number of women
Age												
15-19	26.5	0.0	26.5	19.2	0.0	19.2	45.7	0.0	45.7	42.0	20.5	88
20-24	27.0	4.3	31.3	11.0	3.3	14.3	38.0	7.5	45.5	31.4	25.0	711
25-29	20.6	6.0	26.6	10.8	21.9	32.7	31.4	27.9	59.3	55.2	48.5	1,417
30-34	7.8	5.0	12.9	5.6	47.4	53.0	13.4	52.4	65.9	80.5	75.9	1,476
35-39	2.8	6.8	9.6	1.8	62.6	64.4	4.6	69.4	74.0	87.1	82.5	1,613
40-44	0.6	6.1	6.7	0.3	68.2	68.5	0.9	74.3	75.2	91.1	88.2	1,412
45-49	0.2	3.5	3.8	0.1	66.8	66.9	0.3	70.4	70.7	94.6	93.4	1,429
Residence												
Urban	8.8	5.5	14.3	5.0	48.3	53.3	13.8	53.8	67.6	78.9	74.8	3,854
Rural	7.9	5.2	13.2	4.1	48.9	52.9	12.0	54.1	66.1	80.1	75.8	4,293
Schooling												
No schooling	0.4	3.8	4.1	0.0	73.4	73.4	0.4	77.1	77.5	94.7	94.7	80
<5 years complete	0.7	3.1	3.8	0.9	60.6	61.5	1.6	63.7	65.3	94.1	89.0	197
5-9 years complete	3.4	5.0	8.4	1.6	60.1	61.7	5.0	65.1	70.0	88.0	84.5	2,269
10-11 years complete	6.0	5.9	11.9	3.1	55.1	58.2	9.1	60.9	70.0	83.0	79.3	1,952
12 or more years complete	13.3	5.5	18.7	7.4	36.8	44.2	20.6	42.3	62.9	70.3	65.3	3,648
Religion												
Hindu	7.3	5.2	12.5	5.0	52.7	57.7	12.3	57.9	70.2	82.2	78.1	4,547
Muslim	11.1	5.9	17.0	3.7	39.7	43.4	14.8	45.6	60.4	71.9	67.1	2,354
Christian	6.8	4.9	11.7	4.3	50.6	54.8	11.0	55.5	66.5	82.4	78.4	1,244

Table 29 Need and demand for family planning among currently married women—Continued

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, Kerala, 2015-16

		t need for fa planning	amily		d for family urrently usir	0	Total o	demand for planning ¹	family		Percentage of demand	
Background characteristic	For spacing	For limiting	Total	For spacing	For limiting	Total	For spacing	For limiting	Total	Percentage of demand satisfied ²	satisfied by modern methods ³	Number of women
Caste/tribe												
Scheduled caste	7.4	4.3	11.7	4.2	53.1	57.2	11.5	57.4	69.0	83.0	79.4	779
Scheduled tribe	7.3	3.5	10.8	4.2	51.4	55.6	11.5	54.9	66.4	83.8	81.8	104
Other backward class	8.5	5.4	13.9	4.6	48.6	53.2	13.1	53.9	67.1	79.3	75.0	4,524
Other	8.3	5.7	14.0	4.4	47.4	51.8	12.7	53.1	65.8	78.7	74.4	2,705
Don't know	(12.4)	(5.7)	(18.2)	(6.5)	(38.4)	(45.0)	(19.0)	(44.2)	(63.2)	(71.2)	(65.2)	35
Total	8.3	5.4	13.7	4.5	48.6	53.1	12.8	54.0	66.8	79.5	75.3	8,147

Note: Total includes women belonging to "other" religions, who are not shown separately. Numbers in this table correspond to the revised definition of unmet need described in Bradley et al., 2012, Revising Unmet Need for Family Planning, DHS Analytical Studies No. 25, ICF International ,Calverton, Maryland, USA. Unmet need for family planning refers to fecund women who are not using contraception but who wish to postpone the next birth (spacing) or stop childbearing altogether (limiting). Specifically, women are considered to have unmet need for spacing if they are: at risk of becoming pregnant, not using contraception, and either do not want to become pregnant within the next two years, or are unsure if or when they want to become pregnant; pregnant with a mistimed pregnancy; postpartum amenorrhoeic for up to two years following a mistimed birth and not using contraception. Women are considered to have unmet need for limiting if they are: at risk of becoming pregnant, not using contraception, and want no (more) children; pregnant with an unwanted pregnancy; postpartum amenorrhoeic for up to two years following a mistimed birth an unwanted pregnancy; postpartum amenorrhoeic for up to two years following an unwanted birth and not using contraception. Women who are classified as infecund have no unmet need because they are not at risk of becoming pregnant. Unmet need for family planning is the sum of unmet need for spacing and unmet need for limiting.

¹ Total demand is the sum of unmet need and met need

² Percentage of demand satisfied is met need divided by total demand

³ Modern methods include female sterilization, male sterilization, pill, IUD/PPIUD, injectables, male condom, female condom, standard days method, diaphragm, foam/jelly, lactational amenorrhoea method (LAM), and other modern methods

Table 30 Unmet need for family planning by district

Percentage of currently married women age 15-49 with unmet need for family planning by district, Kerala, 2015-16 and total for NFHS-3

	Total	Unmet need for	Unmet need for	Number
District	unmet need	spacing	limiting	of women
Alappuzha	17.7	7.2	10.5	483
Ernakulam	11.6	6.9	4.7	755
Idukki	8.0	5.1	2.9	230
Kannur	13.9	8.6	5.3	587
Kasaragod	15.2	10.4	4.8	305
Kollam	14.5	8.1	6.4	709
Kottayam	11.2	7.2	4.0	428
Kozhikode	13.3	8.8	4.5	794
Malappuram	17.4	11.3	6.1	1,100
Palakkad	12.0	7.3	4.8	772
Pathanamthitta	14.2	7.1	7.1	278
Thiruvananthapuram	14.8	9.0	5.8	835
Thrissur	10.3	7.4	2.9	684
Wayanad	11.2	7.5	3.7	188
Kerala	13.7	8.3	5.4	8,147
NFHS-3 (2005-06)	9.8	6.1	3.7	2,617

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al., 2012, Revising Unmet Need for Family Planning, DHS Analytical Studies No. 25, ICF International ,Calverton, Maryland, USA,. Unmet need for family planning refers to fecund women who are not using contraception but who wish to postpone the next birth (spacing) or stop childbearing altogether (limiting). Specifically, women are considered to have unmet need for spacing if they are: at risk of becoming pregnant, not using contraception, and either do not want to become pregnant within the next two years, or are unsure if or when they want to become pregnant; pregnant with a mistimed pregnancy; postpartum amenorrhoeic for up to two years following a mistimed birth and not using contraception. Women are considered to have unmet need for limiting if they are: at risk of becoming pregnant, not using contraception, and want no (more) children; pregnant with an unwanted pregnancy; postpartum amenorrhoeic for up to two years following an unwanted birth and not using contraception. Women who are classified as infecund have no unmet need because they are not at risk of becoming pregnant. Unmet need for family planning is the sum of unmet need for spacing and unmet need for limiting.

Table 31 Pregnancy outcome

Percent distribution of last pregnancies among women age 15-49 during the five years preceding the survey by pregnancy outcome, according to background characteristics, Kerala, 2015-16

		Pregnanc	cy outcome			Number of
Background characteristic	Live birth	Abortion	Miscarriage	Stillbirth	Total	pregnancies
Mother's current age						
15-19	(94.7)	(0.0)	(1.3)	(4.0)	100.0	26
20-29	90.8	4.4	4.7	0.2	100.0	1,359
30-39	90.5	4.6	4.5	0.4	100.0	818
40-49	80.4	9.6	10.0	0.0	100.0	64
Residence						
Urban	89.3	5.3	5.2	0.2	100.0	1,076
Rural	91.5	3.9	4.3	0.3	100.0	1,191
Mother's schooling						
5-9 years complete	90.3	5.8	3.4	0.5	100.0	377
10-11 years complete	91.2	3.2	4.9	0.7	100.0	462
12 or more years complete	90.3	4.7	4.9	0.1	100.0	1,410
Religion						
Hindu	90.0	5.0	4.8	0.3	100.0	1,179
Muslim	91.6	3.7	4.4	0.3	100.0	798
Christian	89.3	5.3	5.4	0.0	100.0	290
Caste/tribe						
Scheduled caste	86.2	6.6	6.7	0.5	100.0	210
Scheduled tribe	92.1	0.0	7.9	0.0	100.0	39
Other backward class	91.6	3.8	4.3	0.2	100.0	1,295
Other	89.5	5.5	4.7	0.3	100.0	711
Total	90.4	4.6	4.7	0.3	100.0	2,267

Note: Total includes pregnancies of women who have no schooling or have <5 years of schooling, women belonging to "other" religions, and women who don't know their caste/tribe, who are not shown separately. () Based on 25-49 unweighted cases

Table 32 Characteristics of abortions

Among women age 15-49 whose last pregnancy in the last five years ended in an abortion, percent distribution by place of abortion and person who performed the abortion, percentage who had complications from the abortion, Kerala, 2015-16

Characteristic of abortion	Urban	Rural	Total
Place of abortion	(
Public health sector	(12.3)	31.4	20.9
Private health sector ¹	(85.5)	68.6	77.9
At home	(2.2)	0.0	1.2
Total	100.0	100.0	100.0
Person who performed the abortion			
Doctor	(97.8)	98.9	98.3
Nurse/ANM/LHV	(0.0)	1.1	0.5
Self	(2.2)	0.0	1.2
Total	100.0	100.0	100.0
Complications from the abortion			
Percentage of women who had complications			
from the abortion	(22.1)	10.3	16.8
Number of women with abortions	57	47	104

¹ Includes nongovernmental organizations or trust hospitals/clinics

Table 33 Age at first marriage

Percentage of women and men age 15-49 who were first married by specific exact ages, percentage never married, and median age at first marriage, first cohabitation with spouse, and first sexual intercourse according to current age, Kerala, 2015-16

Current -		Percentage f	irst married	by exact age	2:	Percentage	Normhan af	Median	Median age	Median
Current age	15	18	20	21	25	never married	Number of respondents	age at first marriage	at first cohabitation	age at firs sex
uge	15	10	20	21		DMEN	respondents	marnage	condonation	Jex
					WC	DIVILIN				
15-19	0.0	na	na	na	na	94.0	1,504	а	а	а
20-24	0.4	7.6	23.1	na	na	52.9	1,519	а	а	а
25-29	1.5	13.0	31.3	40.8	76.6	11.4	1,630	21.9	22.0	22.1
30-34	2.2	17.8	37.7	47.9	82.9	1.9	1,541	21.2	21.3	21.5
35-39	3.5	19.1	36.7	47.2	79.2	1.6	1,703	21.3	21.4	21.5
40-44	5.1	19.7	36.6	46.4	79.2	1.4	1,536	21.4	21.7	21.7
45-49	5.4	18.5	35.0	44.0	77.8	1.3	1,601	21.6	22.1	21.9
20-49	3.0	16.0	33.5	na	na	11.4	9,529	а	а	а
25-49	3.5	17.6	35.4	45.2	79.1	3.6	8,010	21.5	21.7	21.7
					N	1EN				
15-19	0.0	na	na	na	na	99.9	306	а	а	а
20-24	0.0	0.0	0.4	na	na	97.3	278	а	а	а
25-29	0.0	0.1	0.7	2.8	13.1	66.1	261	а	а	а
30-34	0.1	0.3	1.0	2.7	19.1	26.6	252	28.8	28.7	28.4
35-39	0.7	1.2	3.0	4.2	19.8	9.1	270	28.5	28.4	28.1
40-44	0.6	2.2	4.0	8.4	25.5	3.2	236	27.8	27.6	27.6
45-49	1.8	2.2	6.0	8.9	26.4	1.2	253	28.3	27.8	28.3
20-49	0.5	1.0	2.4	na	na	35.1	1,550	а	а	а
25-49	0.6	1.2	2.9	5.3	20.7	21.6	1,272	а	a	а

na = Not applicable due to censoring

a = Omitted because less than 50 percent of the women or men were married, began living with their spouse, or had sexual intercourse for the first time before reaching the beginning of the age group.

Table 34 Early childhood mortality rates

Neonatal, postneonatal, infant, child, and under-five mortality rates for five-year periods preceding the survey and for 0-4 years before NFHS-3, NFHS-2 and NFHS-1, by residence, Kerala, 2015-16

Years preceding the survey	Neonatal mortality (NN)	Post-neonatal mortality ¹ (PNN)	Infant mortality (1q0)	Child mortality (₄ q ₁)	Under-five mortality (₅q₀)
	()	URBAN	140	(491)	(590)
0-4	4.4	1.4	5.8	2.4	8.1
5-9	6.8	0.0	6.8	0.0	6.8
10-14	5.8	6.7	12.5	0.6	13.1
NFHS-3 (0-4)	(15.0)	(3.0)	(18.0)	(0.0)	(18.0)
NFHS-2 (0-4)	(12.5)	(3.1)	(15.5)	(3.1)	(18.6)
NFHS-1 (0-4)	5.7	3.8	9.5	3.7	13.1
		RURAL			
0-4	4.4	1.0	5.4	0.6	6.0
5-9	4.9	2.7	7.7	0.9	8.5
10-14	7.5	2.2	9.7	1.0	10.7
NFHS-3 (0-4)	9.9	4.2	14.1	1.4	15.5
NFHS-2 (0-4)	14.2	2.4	16.5	2.4	18.9
NFHS-1 (0-4)	19.0	9.8	28.7	10.0	38.5
		TOTAL			
0-4	4.4	1.2	5.6	1.5	7.1
5-9	5.8	1.4	7.3	0.5	7.7
10-14	6.7	4.3	11.1	0.8	11.9
NFHS-3 (0-4)	11.5	3.8	15.3	1.0	16.3
NFHS-2 (0-4)	13.8	2.5	16.3	2.6	18.8
NFHS-1 (0-4)	15.5	8.2	23.8	8.4	32.0

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

Table 35 Early childhood mortality rates by background characteristics

Neonatal, postneonatal, infant, child, and under-five mortality rates for the five-year period preceding the survey, by background characteristics, Kerala, 2015-16

Background characteristic	Neonatal mortality (NN)	Postneonatal mortality ¹ (PNN)	Infant mortality (1q0)	Child mortality (₄ q ₁)	Under-five) mortality (5q0)
Residence					
Urban	4.4	1.4	5.8	2.4	8.1
Rural	4.4	1.0	5.4	0.6	6.0
Schooling					
< 10 years complete	(5.0)	(4.1)	(9.1)	1.6	(10.7)
10 or more years complete	4.3	0.6	4.8	1.4	6.3
Religion					
Hindu	3.7	1.8	5.5	2.4	7.8
Muslim	3.8	0.8	4.5	0.7	5.3
Christian	(8.8)	(0.0)	(8.8)	(0.0)	(8.8)
Caste/tribe					
Other backward class	5.3	1.7	7.1	0.4	7.5
Other	3.9	0.0	3.9	3.4	7.2
Child's sex					
Male	3.7	2.1	5.7	2.1	7.8
Female	5.1	0.3	5.4	0.9	6.3
Mother's age at birth					
20-29	4.3	1.1	5.4	2.0	7.4
30-39	(6.0)	(1.2)	(7.2)	(0.0)	(7.2)
Birth order					
1	2.4	1.5	4.0	1.8	5.8
2-3	6.6	0.9	7.6	1.2	8.8
Previous birth interval ²					
2-3 years	(2.5)	(2.0)	(4.5)	(0.7)	(5.2)
4 years or more	8.7	0.0	8.7	0.0	8.7
Total	4.4	1.2	5.6	1.5	7.1

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

² Excludes first-order births

Table 36 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, Kerala, 2015-16

	Births in th preceding		Percentage of currently
Risk category	Percentage of births	Risk ratio	married women ¹
Not in any high risk category	40.2	1.0	64.3ª
Unavoidable risk category			
First order births between ages 18 and 34 years	46.1	0.8	7.9
Single high-risk category			
Mother's age <18	0.9	*	0.0
Mother's age >34	3.9	0.0	17.2
Birth interval <24 months	5.4	1.8	4.5
Birth order >3	2.1	(0.0)	1.3
Subtotal	12.3	0.8	22.9
Multiple high-risk category			
Mother's age >34 and birth interval <24 months	0.2	*	0.3
Mother's age >34 and birth order >3	1.1	(0.0)	4.1
Mother's age >34 and birth interval <24 months and birth order			
>3	0.0	*	0.1
Birth interval <24 months and birth order >3	0.2	*	0.4
Subtotal	1.4	(0.0)	4.9
In any avoidable high-risk category	13.7	0.7	27.8
Total	100.0	na	100.0
Number of births	2,453	na	8,147

Note: Risk ratio is the ratio of the proportion dead among births in a specific high-risk category to the proportion dead among births not in any high-risk category.

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 greater than 34 years and 2 months, latest birth less than 15 months ago, or latest birth of order 3 or higher

^a Includes sterilized women

() Based on 25-49 unweighted cases

* Based on fewer than 25 unweighted cases

Table 37 Antenatal care

Percent distribution of women who had a live birth in the five years preceding the survey by antenatal care (ANC) provider during pregnancy for the most recent live birth and percentage receiving ANC from a skilled provider, according to background characteristics, Kerala, 2015-16

Background characteristic	Doctor	ANM/nurse/ midwife/LHV	Anganwadi/ ICDS worker	ASHA	No one	Total	Number of women	Percentage receiving ANC from a skilled provider ¹
Mother's age at birth								
<20	99.0	0.6	0.0	0.0	0.4	100.0	118	99.6
20-34	98.8	0.3	0.1	0.0	0.7	100.0	1,874	99.2
35-49	100.0	0.0	0.0	0.0	0.0	100.0	123	100.0
Birth order								
1	99.3	0.4	0.0	0.1	0.3	100.0	924	99.6
2-3	98.6	0.3	0.2	0.0	0.9	100.0	1,115	98.9
4+	99.4	0.0	0.0	0.0	0.6	100.0	76	99.4
Residence								
Urban	98.7	0.4	0.3	0.1	0.6	100.0	998	99.1
Rural	99.1	0.2	0.0	0.0	0.6	100.0	1,117	99.4
Schooling								
5-9 years complete	98.1	0.8	0.4	0.0	0.7	100.0	352	98.9
10-11 years complete	99.2	0.5	0.3	0.0	0.0	100.0	433	99.7
12 or more years								
complete	99.0	0.1	0.0	0.1	0.8	100.0	1,314	99.1
Religion								
Hindu	98.7	0.3	0.1	0.1	0.8	100.0	1,099	99.0
Muslim	99.1	0.4	0.1	0.0	0.4	100.0	751	99.5
Christian	99.2	0.2	0.0	0.0	0.6	100.0	265	99.4
Caste/tribe								
Scheduled caste	98.3	0.5	0.7	0.0	0.4	100.0	196	98.8
Scheduled tribe	100.0	0.0	0.0	0.0	0.0	100.0	37	100.0
Other backward class	98.9	0.2	0.0	0.1	0.8	100.0	1,224	99.1
Other	99.4	0.2	0.2	0.0	0.3	100.0	647	99.6
Total	98.9	0.3	0.1	0.0	0.6	100.0	2,115	99.2

Note: If more than one source of ANC was mentioned, only the provider with the highest qualification is considered in this table. Total includes pregnancies of women who have no schooling or have <5 years of schooling, women belonging to "other" religions, and women who don't know their caste/tribe, who are not shown separately.

ANM = Auxiliary nurse midwife; LHV = Lady health visitor; ICDS = Integrated Child Development Services; ASHA = Accredited Social Health Activist

¹ Skilled provider includes doctor, auxiliary nurse midwife, nurse, midwife and lady health visitor

Table 38 Antenatal care services and information received

Percentage of women who had a live birth in the five years preceding the survey who received antenatal care (ANC) for the most recent live birth by services and information received, according to residence and source of antenatal care, Kerala, 2015-16

	Resid	dence		Source	of ANC		
Services/information	Urban	Rural	Public health sector	Private health sector ¹	Both public and private health sector ¹	ANC received only at home	Total
Descentage secoluting colocted							
Percentage receiving selected services during antenatal care							
Weighed	99.2	99.1	99.2	99.3	99.0	96.8	99.2
Blood pressure measured	99.0	99.0	99.0	99.3	99.0	95.8	99.0
Urine sample taken	98.9	99.5	99.5	99.2	99.0	97.2	99.2
Blood sample taken	99.2	99.6	99.5	99.4	99.0	98.4	99.4
Abdomen examined	99.1	99.7	99.4	99.4	99.0	98.4	99.4
Percentage receiving							
information on specific							
pregnancy complications							
Vaginal bleeding	29.8	23.5	26.8	26.4	25.8	22.5	26.5
Convulsions	16.4	11.3	14.8	12.8	12.4	11.6	13.7
Prolonged labour	28.7	23.1	26.3	25.4	22.2	19.2	25.8
Severe abdominal pain	30.5	27.8	29.6	29.1	31.5	28.2	29.1
High blood pressure	33.2	29.7	34.7	29.3	31.2	24.3	31.4
Where to go if experienced							
pregnancy complications	83.6	82.6	85.5	81.2	80.8	80.0	83.1
Number of women	993	1,110	943	1,227	162	95	2,102

Table 39 Antenatal care indicators

Among women with a live birth in the five years preceding the survey, percentage who received different types of antenatal care (ANC) during the pregnancy for their most recent live birth, by background characteristics, Kerala, 2015-16

		, , ,	5	,	,				
Background characteristic	who had	Percentage with an ANC visit in the first trimester of pregnancy	injections	Percentage whose last live birth was protected against neonatal tetanus ¹	Percentage who were given or bought IFA	Percentage who took IFA for at least 100 days	Percentage who had full antenatal care ²	Percentage who took an intestinal parasite drug	Number of women
Age at birth									
<20	91.2	95.3	94.6	96.9	93.6	68.7	59.5	15.6	118
20-34	90.1	95.2	95.0	96.4	96.3	66.8	61.0	21.4	1,874
35-49	91.0	93.7	92.8	96.4	96.6	71.1	65.6	20.5	123
Birth order									
1	91.3	96.2	96.4	97.4	96.6	65.7	60.3	20.2	924
2-3	89.4	94.2	93.8	95.8	96.0	68.1	62.1	22.2	1,115
4+	87.6	96.9	90.7	94.3	92.3	70.7	59.9	12.0	76
Residence									
Urban	88.5	96.2	94.3	96.2	95.9	69.7	63.1	21.2	998
Rural	91.7	94.2	95.4	96.7	96.3	64.9	59.5	20.8	1,117
Schooling									
5-9 years complete 10-11 years	87.2	92.2	91.7	94.1	95.1	64.2	56.0	23.2	352
complete 12 or more years	90.9	95.6	95.2	96.7	93.7	65.6	58.6	16.7	433
complete	90.9	95.9	95.6	97.0	97.3	68.5	63.7	21.9	1,314
Religion									
Hindu	89.9	94.3	94.9	96.4	97.5	65.8	59.3	23.7	1,099
Muslim	91.0	95.9	94.6	96.4	94.1	68.6	63.2	17.5	751
Christian	89.4	96.4	95.5	96.9	96.5	68.8	63.3	19.8	265
Caste/tribe									
Scheduled caste	92.0	94.3	91.8	95.0	95.5	56.0	49.7	21.6	196
Scheduled tribe Other backward	83.3	89.7	92.7	93.8	96.9	75.2	62.5	28.8	37
class	90.9	95.2	95.4	96.8	96.8	71.6	65.6	20.2	1,224
Other	89.2	95.5	95.0	96.4	95.0	62.0	56.9	21.8	647
Total	90.2	95.1	94.9	96.5	96.2	67.1	61.2	21.0	2,115

Note: Total includes pregnancies of women who have no schooling or have <5 years of schooling, women belonging to "other" religions, and women who don't know their caste/tribe, who are not shown separately.

TT = Tetanus toxoid; IFA = Iron and folic acid ¹ Includes mothers with two injections during the pregnancy for her last birth, or two or more injections (the last within 3 years of the last live 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

² Full antenatal care includes having received at least four antenatal care visits, having received at least one TT injection, and having taken IFA tablets or syrup for 100 or more days

Table 40 Antenatal care indicators by district

Among women with a live birth in the five years preceding the survey, percentage who received different types of antenatal care (ANC) during the pregnancy for their most recent live birth, and among women with registered pregnancies, percentage who received a Mother and Child Protection Card (MCP Card), by district, Kerala, 2015-16

District	Percentage who had four or more ANC visits	Percentage with an ANC visit in the first trimester of pregnancy	Percentage who took IFA for at least 100 days	Percentage who received two or more TT injections during the pregnancy	Percentage who had full antenatal care ¹	Number of women	Percentage of women who received an MCP Card	Number of registered pregnancies
Alappuzha	80.5	93.4	54.9	91.2	45.2	116	87.5	102
Alappuzha Ernakulam	94.7	93.4 93.5	71.0	95.8	69.3	186	83.6	164
Idukki	89.9	98.3	59.2	92.6	54.3	52	87.0	48
Kannur	93.2	96.7	75.4	96.5	71.5	156	90.1	147
Kasaragod	90.9	95.9	72.2	96.1	65.2	94	87.1	85
Kollam	88.7	94.1	56.7	96.5	51.8	168	84.8	141
Kottayam	85.4	98.0	59.4	98.3	52.7	122	95.5	141
Kozhikode	94.4	95.1	74.6	95.8	71.4	187	83.8	170
Malappuram	93.2	96.9	63.9	94.2	58.8	337	74.9	288
Palakkad	93. <u>2</u> 90.4	90.9 93.4	79.3	94.2 95.6	69.9	217	74.9 84.9	197
Pathanamthitta	90.4 90.0	93.4 86.6	68.6	93.8 89.0	61.4	217 72	04.9 91.1	64
	90.0 89.1	94.9	57.8	94.2	55.0	196	79.5	188
Thiruvananthapuram								
Thrissur	83.1	97.2	70.3	93.9	56.6	154	82.8	139
Wayanad	91.7	94.8	72.2	92.2	66.0	58	88.7	54
Kerala	90.2	95.1	67.1	94.9	61.2	2,115	84.2	1,903

TT = Tetanus toxoid; IFA = Iron and folic acid ¹ Full antenatal care includes having received at least four antenatal care visits, having received at least one TT injection, and having taken IFA tablets or syrup for 100 or more days

Table 41 Advice received during pregnancy

Among women with a live birth in the five years preceding the survey who met with a community health worker in the last three months of pregnancy for their most recent live birth, percentage who received different types of advice, by background characteristics, Kerala, 2015-16

		Percentag	ge who received a	advice on:		Number of women
Background characteristic	Importance of institutional delivery	Cord care	Breastfeeding	Keeping the baby warm	Family planning	who met with a community health worker in the last three months of pregnancy ¹
Ago at birth						
Age at birth <20	81.4	69.4	87.0	80.8	74.7	58
20-34	72.4	67.7	83.3	79.9	74.7	1,007
35-49	79.9	69.1	80.5	83.6	70.1	63
Birth order						
1	75.7	69.5	86.1	82.3	75.5	460
2-3	70.5	67.0	81.7	78.5	69.4	630
4+	(89.7)	(61.2)	(77.4)	(81.8)	(67.6)	38
Residence						
Urban	73.6	66.8	83.1	81.2	71.8	516
Rural	73.1	68.7	83.6	79.3	71.8	612
Schooling						
5-9 years complete	75.1	69.0	81.9	80.9	74.3	196
10-11 years complete	76.6	66.2	86.7	82.5	68.1	243
12 or more years complete	71.6	68.1	82.6	79.0	72.5	682
Religion						
Hindu	73.8	69.2	86.0	80.5	72.7	611
Muslim	73.9	67.1	79.8	80.0	70.8	378
Christian	70.1	64.2	81.4	78.9	70.8	138
Caste/tribe						
Scheduled caste	78.3	73.6	85.8	86.1	82.3	111
Scheduled tribe	(76.2)	(68.6)	(80.2)	(70.3)	(78.8)	23
Other backward class	75.1	69.8	84.5	80.9	71.7	672
Other	68.2	62.5	80.7	78.1	67.9	316
Total	73.3	67.8	83.4	80.1	71.8	1,128

Note: Total includes pregnancies of women who have no schooling or have <5 years of schooling, women belonging to "other" religions, and women who don't know their caste/tribe, who are not shown separately.

¹ Community health worker includes auxiliary nurse midwife (ANM), lady health visitor (LHV), Accredited Social Health Activist (ASHA), *Anganwadi* worker, and other community health worker

Table 42 Pregnancies for which an ultrasound test was done

Percentage of all pregnancies in the five years preceding the survey for which an ultrasound test was done and percent distribution of pregnancies with an ultrasound test by pregnancy outcome, according to background characteristics, Kerala, 2015-16

				Pregnanc	y outcome ¹			
Background characteristic	Percentage of pregnancies with an ultrasound test	Number of pregnancies	Son	Daughter	Termination	Still pregnant	Total percent	Number of pregnancies with an ultrasound test
Mother's age at								
pregnancy								
<20	93.9	281	42.9	43.2	6.9	7.1	100.0	264
20-34	96.1	2,711	38.6	41.0	9.0	11.4	100.0	2,604
35-49	91.8	139	31.5	37.4	20.5	10.5	100.0	128
Residence								
Urban	95.3	1,495	38.2	41.0	10.3	10.5	100.0	1,425
Rural	96.0	1,636	39.0	41.0	8.5	11.5	100.0	1,571
Antenatal care visits ²								
1-3	96.4	64	33.7	49.2	7.3	9.8	100.0	62
4+	95.8	2,480	38.7	40.8	9.6	10.9	100.0	2,375
Don't know	94.9	183	44.4	36.8	7.6	11.1	100.0	173
Mother's schooling								
<5 years complete	(98.2)	19	(38.1)	(40.8)	(21.1)	(0.0)	100.0	19
5-9 years complete	94.6	498	46.4	37.8	10.1	5.8	100.0	471
10-11 years complete 12 or more years	95.2	629	42.1	41.8	9.0	7.0	100.0	599
complete	96.1	1,980	35.7	41.5	9.1	13.7	100.0	1,902
Religion								
Hindu	96.2	1,583	37.1	42.4	10.2	10.3	100.0	1,523
Muslim	95.5	1,117	41.8	38.9	7.8	11.5	100.0	1,068
Christian	94.2	429	36.0	41.4	10.3	12.3	100.0	404
Caste/tribe								
Scheduled caste	95.5	288	42.0	36.1	14.4	7.5	100.0	275
Scheduled tribe	97.2	55	45.1	38.0	8.6	8.4	100.0	54
Other backward class	95.4	1,772	39.4	42.5	7.6	10.5	100.0	1,689
Other	96.3	1,000	36.0	40.1	10.8	13.1	100.0	963
								Continued

Table 42 Pregnancies for which an ultrasound test was done-Continued

Percentage of all pregnancies in the five years preceding the survey for which an ultrasound test was done and percent distribution of pregnancies with an ultrasound test by pregnancy outcome, according to background characteristics, Kerala, 2015-16

				Pregnanc	y outcome ¹				
Background characteristic	Percentage of pregnancies with an ultrasound test	Number of pregnancies	Son	Daughter	Termination	Still pregnant	Total percent	Number of pregnancies with an ultrasound test	
Mother's number of living children at time	3								
of pregnancy	-								
No children	96.5	1,466	37.2	44.2	7.0	11.5	100.0	1,415	
1 child	95.9	1,243	40.2	37.8	10.3	11.6	100.0	1,191	
0 sons	96.5	622	39.9	39.3	8.0	12.7	100.0	600	
1 son	95.2	621	40.5	36.3	12.6	10.5	100.0	591	
2 children	92.5	332	37.9	37.5	16.1	8.5	100.0	308	
0 sons	93.3	91	34.7	48.5	8.8	7.9	100.0	85	
1 or more sons	92.2	242	39.0	33.3	18.9	8.7	100.0	223	
3 children	88.7	65	44.0	42.2	10.6	3.2	100.0	58	
1 or more sons	(86.8)	46	(42.4)	(45.7)	(10.5)	(1.4)	100.0	40	
Total	95.7	3,131	38.6	41.0	9.3	11.0	100.0	2,996	

Note: Total includes pregnancies of women who had no antenatal care visits, women with no schooling, women belonging to "other" religions, women who don't know their caste/tribe, women who have 3 children with no sons, and women who have 4 or more children, which are not shown separately.

¹ For multiple births, sex of pregnancy outcome is the sex of the first listed birth

² Includes only the most recent pregnancy in the five years preceding the survey

Table 43 Pregnancy registration and Mother and Child Protection Card

Percentage of women who had a live birth in the five years preceding the survey who registered the pregnancy for the most recent live birth; and among registered pregnancies, the percentage by the timing of the registration and the percentage who received a Mother and Child Protection Card (MCP Card), by background characteristics, Kerala, 2015-16

	Percentage of pregnancies that	Number of	Timing of pr registra		Percentage of — mothers given an	Number of registered
Background characteristic	were registered	pregnancies	First trimester	Later	MCP Card	pregnancies
Mother's age at birth						
<20	88.7	118	91.8	8.2	82.8	105
20-34	90.4	1,874	91.6	7.3	84.1	1,694
35-49	84.6	123	89.4	10.6	86.6	104
Birth order						
1	90.2	924	91.5	7.3	84.7	834
2-3	89.7	1,115	91.3	7.8	84.4	1,001
4+	90.4	76	94.5	5.5	74.1	69
Residence						
Urban	88.9	998	92.7	5.7	82.0	887
Rural	91.0	1,117	90.5	9.1	86.1	1,016
Schooling						
5-9 years complete	92.9	352	90.4	9.0	83.8	327
10-11 years complete	91.7	433	91.9	6.8	89.4	397
12 or more years complete	88.8	1,314	91.7	7.3	82.4	1,167
Religion						
Hindu	91.4	1,099	91.7	7.2	87.2	1,004
Muslim	88.3	751	90.7	8.2	78.8	663
Christian	88.7	265	93.0	6.6	86.3	235
Caste/tribe						
Scheduled caste	93.2	196	90.3	9.0	89.0	182
Scheduled tribe	91.5	37	94.6	4.3	86.6	34
Other backward class	90.3	1,224	91.0	7.9	84.4	1,106
Other	88.7	647	92.7	6.3	81.8	574
Total	90.0	2,115	91.5	7.5	84.2	1,903

Note: Total includes pregnancies of women who have no schooling or have <5 years of schooling, women belonging to "other" religions, women who don't know their caste/tribe, which are not shown separately.

Table 44 Delivery and postnatal care

Percent distribution of live births in the five years preceding the survey by place of delivery and assistance during delivery, percentage delivered by skilled health personnel and by caesarean section, and percent distribution of women giving birth in the five years preceding the survey by timing and type of provider of the first postnatal check of the mother for their most recent live birth, by residence, Kerala, 2015-16

Delivery and postnatal care descriptors	Urban	Rural	Total
Place of delivery			
Health facility	99.9	99.9	99.9
Public sector	35.6	40.8	38.4
NGO/trust	0.0	0.3	0.1
Private sector	64.3	58.8	61.4
At home	0.1	0.1	0.1
Own home	0.1	0.1	0.1
Total	100.0	100.0	100.0
Assistance during delivery ²			
Doctor	97.9	98.6	98.3
ANM/nurse/midwife/LHV	2.1	1.4	1.7
Dai (TBA)	0.0	0.0	0.0
Total	100.0	100.0	100.0
Percentage of all births delivered by a skilled provider ³	100.0	100.0	100.0
Percentage of home births delivered by a skilled provider ³	0.1	0.1	0.1
Percentage delivered by caesarean section	37.1	34.6	35.8
Percentage delivered by emergency caesarean section ⁴	14.5	11.4	12.8
Number of births	1,169	1,282	2,452
Timing after delivery of mother's first postnatal check ⁵			
Less than four hours	78.0	79.9	79.0
4-23 hours	3.9	4.6	4.3
1-2 days	6.0	5.3	5.6
3-41 days	0.6	0.4	0.5
Don't know ¹	4.5	2.8	3.6
No postnatal check	7.1	7.0	7.0
Total	100.0	100.0	100.0
Type of provider of mother's first postnatal check ⁵			
Doctor	87.6	88.7	88.2
ANM/nurse/midwife/LHV	5.0	3.7	4.3
Other health personnel	0.0	0.3	0.2
Other	0.3	0.2	0.2
No postnatal check	7.1	7.0	7.0
Total	100.0	100.0	100.0
Number of last live births	998	1,117	2,115

NGO = Nongovernmental organization; ANM = Auxiliary nurse midwife; LHV = Lady health visitor; TBA = Traditional birth attendant

¹ Includes missing

 2 If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this table

³Skilled provider includes doctor, auxiliary nurse midwife, nurse, midwife, lady health visitor, and other health personnel

⁴ A caesarean section for which the decision to have the operation was made after the onset of labour

⁵Based on the last live birth in the five years preceding the survey. Postnatal checks are checks on the woman's health within 42 days of the birth

Table 45 Delivery and postnatal care by background characteristics

Percentage of live births in the five years preceding the survey delivered in a health facility and percentage delivered with assistance from health personnel, and percentage of women who had a live birth in the five years preceding the survey who received a postnatal check and who received a postnatal check within two days of birth for their most recent birth, by background characteristics, Kerala, 2015-16

Background characteristic	Percentage of births delivered in a public health facility	Percentage of births delivered in a private health facility	Percentage of births delivered in a health facility	Percentage of deliveries assisted by health personnel ¹	Number of births	Percentage of women with a postnatal check ^{2,3}	Percentage of women with a postnatal check within two days of birth ^{2,3}	Number of women
Matheula ana at hiuth								
Mother's age at birth <20	39.4	60.6	100.0	100.0	159	93.9	85.3	118
20-34	38.6	61.3	99.9	100.0	2,167	92.9	89.1	1,874
35-49	32.7	67.3	100.0	100.0	126	93.3	88.7	123
Residence								
Urban	35.6	64.3	99.9	100.0	1,169	92.9	87.9	998
Rural	40.8	59.0	99.9	100.0	1,282	93.0	89.7	1,117
Birth order								
1	37.2	62.8	99.9	100.0	1,177	92.2	87.0	924
2-3	40.4	59.4	99.8	100.0	1,193	93.5	90.1	1,115
4+	25.3	74.7	100.0	100.0	81	93.6	93.6	76
Antenatal care visits ²								
1-3	34.5	65.1	99.7	99.7	52	88.7	83.6	52
4+	39.3	60.6	99.9	100.0	1,908	93.1	89.4	1,908
Don't know	46.4	53.6	100.0	100.0	143	93.2	84.3	143
Mother's schooling								
5-9 years complete	47.5	52.0	99.6	100.0	411	91.4	86.7	352
10-11 years complete 12 or more years	47.8	52.0	99.8	100.0	512	95.4	91.5	433
complete	32.1	67.9	100.0	100.0	1,509	92.5	88.5	1,314
Religion								
Hindu	47.5	52.5	100.0	100.0	1,253	92.0	86.7	1,099
Muslim	28.5	71.2	99.7	100.0	875	94.8	91.8	751
Christian	29.6	70.4	100.0	100.0	323	91.8	89.3	265
Caste/tribe								
Scheduled caste	67.9	32.1	100.0	100.0	220	95.4	90.3	196
Scheduled tribe	68.9	30.7	99.6	99.6	46	89.7	84.4	37
Other backward class	38.3	61.6	99.9	100.0	1,415	92.7	88.3	1,224
Other	28.0	71.9	99.9	100.0	758	93.0	90.0	647
Place of delivery								
Public health facility	100.0	0.0	100.0	100.0	940	93.4	90.2	837
Private health facility ⁴	0.0	100.0	100.0	100.0	1,509	92.7	88.0	1,277
Total	38.4	61.5	99.9	100.0	2,452	93.0	88.9	2,115

Note: Total includes pregnancies of women who no antenatal care visits, women who have no schooling or < 5 years complete, women belonging to "other" religions, women who don't know their caste/tribe, and pregnancies delivered at home, which are not shown separately.

¹ Health personnel includes doctor, auxiliary nurse midwife, nurse, midwife, lady health visitor, and other health personnel. If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this table.

² Based on the last live birth in the five years preceding the survey

³ Postnatal checks are checks on the woman's health within 42 days of the birth

⁴ Includes nongovernmental organizations or trust hospitals/clinics

Table 46 Delivery and postnatal care by district

Percentage of live births in the five years preceding the survey delivered in a health facility, percentage delivered with assistance from health personnel and percentage delivered by caesarean section, and percentage of women who had a live birth in the five years preceding the survey who received a postnatal check within two days of birth for their most recent birth, by district, Kerala, 2015-16

District	Percentage of births delivered in a public health facility	Percentage of births delivered in a private health facility			Percentage of births delivered by caesarean section	Number of births	Percentage of women with a postnatal check within two days of birth ²	Number of women
				F			Shar	
Alappuzha	44.5	55.5	100.0	100.0	43.6	130	79.6	116
Ernakulam	19.7	80.3	100.0	100.0	40.0	214	94.8	186
Idukki	43.9	56.1	100.0	100.0	47.1	60	86.2	52
Kannur	40.2	59.8	100.0	100.0	33.6	184	96.8	156
Kasaragod	28.5	71.5	100.0	100.0	26.3	107	88.0	94
Kollam	41.6	57.9	99.5	100.0	57.0	192	81.6	168
Kottayam	49.4	50.6	100.0	100.0	28.3	142	88.9	122
Kozhikode	45.5	54.5	100.0	100.0	33.8	212	84.3	187
Malappuram	32.7	66.9	99.6	100.0	24.0	388	93.8	337
Palakkad	33.0	67.0	100.0	100.0	34.4	261	89.0	217
Pathanamthitta	46.2	53.8	100.0	100.0	52.1	79	92.3	72
Thiruvananthapuram	50.6	49.4	100.0	100.0	41.0	235	88.0	196
Thrissur	34.7	65.3	100.0	100.0	33.7	179	86.2	154
Wayanad	47.3	52.4	99.7	99.7	22.8	69	83.2	58
Kerala	38.4	61.5	99.9	100.0	35.8	2,452	88.9	2,115

¹ Health personnel includes doctor, auxiliary nurse midwife, nurse, midwife, lady health visitor, and other health personnel. If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this table.

² Postnatal checks are checks on the woman's health within 42 days of the birth.

Table 47 Delivery costs and financial assistance

The average out-of-pocket cost paid for delivery for the most recent live birth among women who had a live birth in the five years preceding the survey that was delivered in a health facility by type of facility, and among women who had a live birth in the five years preceding the survey for the most recent birth that was delivered in a health facility, the percentage who received financial assistance under *Janani Suraksha Yojana* (JSY), according to background characteristics, Kerala, 2015-16

		Average cost (Rs.) ¹		 Percentage who 	Number of
Background characteristic	Public health facility	Private health facility	Any health facility	received financial assistance under JSY	births in a
					/
Mother's age at birth					
<20	5,461	24,236	16,267	19.1	153
20-34	6,815	27,540	19,868	21.0	1,848
35-49	10,537	29,120	22,604	12.1	114
Birth order					
1	6,924	28,984	20,890	20.5	1,155
2-3	6,884	25,918	18,498	21.2	892
4+	6,663	20,702	17,406	6.2	67
Residence					
Urban	6,848	28,825	21,003	19.1	997
Rural	6,944	26,120	18,683	21.5	1,117
Schooling					
5-9 years complete	6,654	22,362	14,932	23.9	352
10-11 years complete	6,546	23,097	15,285	23.9	432
12 or more years complete	7,279	29,597	22,690	18.0	1,314
Religion					
Hindu	6,343	29,763	19,067	26.4	1,098
Muslim	5,893	23,387	18,730	12.8	750
Christian	12,204	31,044	25,114	16.7	265
Caste/tribe					
Scheduled caste	4,417	29,450	13,074	41.2	196
Scheduled tribe	3,638	26,045	10,935	29.7	37
Other backward class	7,313	25,218	18,530	20.0	1,224
Other	7,990	30,740	24,606	14.3	646
Total	6,901	27,419	19,768	20.4	2,114

Note: Total includes births to women who have no schooling or have <5 years of schooling, women belonging to "other" religions, women who don't know their caste/tribe, which are not shown separately.

 $^{\scriptscriptstyle 1}$ Excludes women who don't know the cost

Table 48 Birth order and delivery characteristics by district

Percentage of births during the three years preceding the survey of birth order 3 or more, percentage of women who had a live birth in the five years preceding the survey by antenatal care (ANC) provider during pregnancy for the most recent live birth and among women who had a live birth in the five years preceding the survey for the most recent birth that was delivered in a health facility, the percentage of women who received financial assistance under *Janani Suraksha Yojana* (JSY) by district, Kerala, 2015-16

				Percentage of			
			Percentage	last births		Percentage of	
			of last births	receiving		births in a health	
	Percentage		receiving	antenatal care		facility receiving	
	of births of		antenatal	from		financial	Number of
	birth order	Number of	care from	ANM/nurse/		assistance under	births in a
District	3 or more	births	doctor	midwife/LHV	births	JSY	health facility
Alappuzha	7.1	70	97.8	24.2	116	14.4	116
Ernakulam	3.5	138	100.0	34.6	186	14.4	186
Idukki	3.3 8.4	34	100.0	33.4	52	23.3	52
Kannur	19.0	108	98.3	47.0	156	18.1	156
	25.1	62	90.3 97.3	42.4	94	10.4	94
Kasaragod Kollam							
	9.1	111	99.4	13.3	168	21.0	167
Kottayam	11.2	83	99.3	19.4	122	33.3	122
Kozhikode	18.5	130	100.0	45.9	187	20.3	187
Malappuram	26.4	216	100.0	36.5	337	16.8	337
Palakkad	11.0	150	97.1	25.7	217	23.1	217
Pathanamthitta	1.0	49	98.3	42.1	72	23.9	72
Thiruvananthapuram	2.4	153	97.8	14.3	196	28.3	196
Thrissur	9.9	112	99.0	39.6	154	18.4	154
Wayanad	15.0	37	100.0	47.3	58	27.8	57
Kerala	12.9	1,454	98.9	32.2	2,115	20.4	2,114

Table 49 Timing of first health check after birth for the newborn

Percent distribution of last births in the five years preceding the survey by time after birth of first health check, and the percentage of births with a health check in the first two days after birth, according to background characteristics, Kerala, 2015-16

	Т	ime after bir	th of new	born's first h	ealth check				Percentage of	
Background	Less than		4-23			Don't	- No health		births with a health check in the first two days after	
characteristic	1 hour	1-3 hours	hours	1-2 days	3-6 days	know	check ¹	Total	birth	births
				·	·					
Mother's age at birth	12.1	21.2	0.0	2 5	1.2	4.5	47 E	100.0	46.8	150
<20	20.6	31.2 25.9	0.0	3.5 2.0	0.4		47.5 49.3	100.0	40.0	153
20-34					0.4	1.0				1,849
35-49	21.6	28.6	2.8	2.6	0.0	2.5	42.0	100.0	55.5	114
Birth order										
1	19.4	26.1	0.7	2.1	0.6	1.6	49.6	100.0	48.2	924
2-3	20.9	26.4	0.9	2.3	0.4	1.1	48.0	100.0	50.5	1,115
4-5	17.4	31.0	0.0	0.0	0.0	2.0	49.7	100.0	48.3	71
Place of delivery										
Public health facility	21.7	25.4	0.6	2.4	0.7	0.7	48.5	100.0	50.1	837
Private health facility ²	18.9	27.1	0.9	2.0	0.3	1.8	49.0	100.0	48.9	1,277
Residence										
Urban	22.4	21.8	1.2	2.9	0.8	1.0	50.0	100.0	48.2	998
Rural	18.0	30.6	0.4	1.5	0.1	1.7	47.7	100.0	50.5	1,117
Religion										
Hindu	22.4	24.6	0.7	2.5	0.6	1.6	47.7	100.0	50.2	1,099
Muslim	17.4	30.4	0.9	1.6	0.4	1.3	47.9	100.0	50.4	751
Christian	17.6	22.8	0.7	2.3	0.2	0.4	55.8	100.0	43.5	265
Caste/tribe										
Scheduled caste	15.7	34.7	1.1	2.5	1.0	0.6	44.3	100.0	54.1	196
Scheduled tribe	28.5	17.0	1.0	0.8	0.5	0.0	52.3	100.0	47.2	37
Other backward class	22.3	24.1	1.0	2.2	0.5	1.3	48.6	100.0	49.6	1,224
Other	16.7	29.2	0.3	1.8	0.2	1.8	49.9	100.0	48.0	647
Mother's schooling										
5-9 years complete	18.1	26.6	1.2	2.4	0.0	2.2	49.4	100.0	48.3	352
10-11 years complete	16.8	29.0	0.4	1.7	0.9	2.4	48.8	100.0	47.9	433
12 or more years										
complete	21.7	25.5	0.8	2.2	0.4	0.8	48.6	100.0	50.2	1,314
Total	20.0	26.4	0.8	2.2	0.5	1.4	48.8	100.0	49.4	2,115

Note: Total includes information on births whose birth order was 6 or more, births delivered at home, births to women who belong to "other" religions, births to women who don't know their caste/tribe, and births to women who have no schooling or have <5 years of schooling, which are not shown separately. ¹ Includes newborns who received a health check after the first week

² Includes nongovernmental organizations or trust hospitals/clinics

Table 50 Trends in maternal care indicators

Maternal care indicators for births during the three years preceding the survey by residence, NFHS-4 and NFHS-3, Kerala

NFHS-4 (2015-16)	NFHS-3 (2005-06)
89.6	96.9
87.2	96.9
96.3	90.1
62.6	75.0
99.9	100.0
100.0	100.0
94.0	93.2
91.3	91.6
94.4	93.4
61.8	65.8
100.0	99.3
100.0	99.5
91.9	94.4
89.4	93.3
95.3	92.3
62.2	68.8
99.9	99.5
100.0	99.7
	(2015-16) (2015-16) 89.6 87.2 96.3 62.6 99.9 100.0 94.0 91.3 94.4 61.8 100.0 100.0 100.0 91.9 89.4 95.3 62.2 99.9

¹ Based on the last birth to women in the three years preceding the survey

 2 Full antenatal care includes having received at least four antenatal checks, at least one tetanus toxoid (TT) injection, and having taken iron and folic acid (IFA) tablets or syrup for 100 or more days

³ Based on all births in the three years preceding the survey

⁴ Doctor, auxiliary nurse midwife (ANM), nurse, midwife, lady health visitor (LHV), or other health personnel

Table 51 Male involvement in maternal care: Men's report

Among men age 15-49 whose youngest living child was age 0-35 months, percentage for whom the youngest child's mother received antenatal care, percentage who were present for at least one antenatal check-up, percentage who were told by a health provider or worker at any time during the pregnancy about specific signs of pregnancy complications, percentage to whom a health provider or worker spoke about specific aspects of maternal care at any time during the pregnancy, and percentage whose youngest child was delivered in a health facility, and among men with a child age 0-35 months whose youngest living child was not delivered in a health facility, percentage who were given specific home delivery related information, by residence, Kerala, 2015-16

Antenatal and delivery care information	Urban	Rural	Total
Percentage of men for whom the youngest child's mother received antenatal care	97.8	97.0	97.4
Percentage of men who were present at any antenatal check-up	91.8	86.4	89.0
Percentage who were told by a health provider or worker about the following signs of pregnancy complications:			
Vaginal bleeding	28.8	48.0	38.8
Convulsions	33.3	44.4	39.0
Prolonged labour	43.5	59.6	51.8
Severe abdominal pain	50.7	69.7	60.5
High blood pressure	50.3	61.7	56.2
Percentage ever told what to do if the mother had any pregnancy complications	45.2	67.3	56.7
Percentage whose youngest child age 0-35 months was delivered in a health facility	100.0	100.0	100.0
Percentage to whom a health provider or worker spoke about the following aspects of maternal care:			
The importance of delivering in a health facility	77.1	85.4	81.4
The importance of proper nutrition for the mother during pregnancy	84.8	85.8	85.3
Family planning or delaying his next child	52.6	68.0	60.5
Number of men with a youngest child age 0-35 months	124	133	257

Table 52 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 seen by the interviewer, by background characteristics, Kerala, 2015-16, and total for NFHS-3

-		Hepa	titis B1				DPT			Ро	lio ¹					Percentage	Number
Background characteristic	0	1	2	3	BCG	1	2	3	0	1	2	3	Measles	All basic vaccina- tions ²	No vacci- nations ³	with a vaccination card seen	Number of children
Sex																	
Male	76.0	92.5	89.7	81.9	97.9	94.8	93.0	89.8	95.5	96.4	95.0	87.4	90.1	82.1	2.1	87.6	256
Female	76.8	92.7	90.3	82.8	98.3	96.1	94.7	91.1	94.7	97.1	93.9	89.7	88.5	82.0	1.2	84.4	229
Birth order																	
1	78.8	94.2	92.3	84.5	99.3	97.7	95.5	92.1	95.1	98.1	95.9	89.4	91.6	82.7	0.2	87.3	231
2-3	75.4	91.0	87.9	80.3	96.8	93.3	92.2	89.3	94.8	95.2	93.5	87.9	88.1	82.1	3.2	84.2	237
Residence																	
Urban	77.3	92.1	91.1	82.7	98.3	96.1	94.6	90.5	96.4	97.4	96.0	89.6	90.3	82.2	1.7	87.7	217
Rural	75.7	93.0	89.1	82.1	97.9	94.8	93.1	90.3	94.1	96.3	93.3	87.6	88.6	82.0	1.6	84.8	269
Mother's schooling																	
5-9 years complete	70.3	92.7	87.4	75.6	94.4	91.7	89.7	82.4	91.4	93.4	89.7	83.9	88.3	81.6	4.8	82.8	75
10-11 years complete	70.1	90.4	89.7	85.1	94.3	91.5	91.1	87.9	92.9	94.1	93.0	87.9	83.4	79.5	5.0	87.0	88
12 or more years complete	79.7	93.2	90.7	83.2	100.0	97.4	95.5	93.0	96.6	98.2	96.0	89.6	91.2	82.8	0.0	86.5	320
Religion																	
Hindu	82.6	92.9	90.9	84.7	99.1	96.9	94.8	93.5	96.0	97.8	96.2	92.1	93.5	86.1	0.3	85.7	224
Muslim	67.4	91.5	87.5	77.0	96.1	93.8	92.0	84.9	92.6	95.3	91.4	81.2	83.5	74.7	3.9	82.6	186
Christian	80.4	94.2	93.3	88.6	100.0	95.0	95.0	95.0	98.7	97.2	97.2	95.9	91.6	88.2	0.0	95.9	75
Caste/tribe																	
Scheduled caste	(81.6)	(91.5)	(89.8)	(84.7)	(98.3)	(97.6)	(90.0)	(90.0)	(100.0)	(100.0)	(100.0)	(99.3)	(94.3)	(86.0)	(0.0)	(85.9)	36
Other backward class	79.7	95.1	91.8	81.7	98.5	95.9	94.3	89.9	94.6	96.8	94.4	87.0	87.4	80.6	1.5	82.9	278
Other ⁴	69.5	89.0	87.2	83.2	97.6	93.9	93.6	91.2	95.0	96.1	93.4	88.6	91.5	83.9	2.4	91.3	163
Total	76.4	92.6	90.0	82.4	98.1	95.4	93.8	90.4	95.1	96.7	94.5	88.5	89.4	82.1	1.7	86.1	486
NFHS-3 (2005-06)	na	na	na	na	96.3	94.0	90.8	84.0	86.7	94.5	88.6	83.1	82.1	75.3	1.8	75.3	219

Note: Total includes children of birth orders 4 or more, children whose mothers have no schooling and <5 years of schooling, children belonging to scheduled tribes, and children who don't know their caste/tribe, who are not shown separately. na = Not available

¹ Polio 0 is the polio vaccination given at birth and hepatitis B 0 is the hepatitis vaccination given at birth

² Fully vaccinated with BCG, measles, and three doses each of DPT and polio vaccine (excluding polio vaccine given at birth)

³ Child has not received any vaccinations listed in the table.

⁴Not belonging to a scheduled caste, scheduled tribe, or other backward class

Table 53 Selected vaccinations by district

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 who received most vaccination in a public health facility, by district, Kerala, 2015-16

District	3 doses of Hepatitis B	BCG	3 doses of DPT	3 doses of polio	Measles	All basic vaccinations ¹	No vaccinations ²	Number of children	Percentage who received most vaccinations in a public health facility	
Alappuzha	*	*	*	*	*	*	*	19	*	17
Ernakulam	(87.5)	(100.0)	(90.3)	(84.6)	(81.6)	(75.9)	(0.0)	32	(50.9)	32
Idukki	*	*	*	*	*	*	*	12	*	12
Kannur	(80.6)	(98.5)	(94.3)	(88.6)	(97.0)	(87.1)	(1.5)	47	(82.3)	46
Kasaragod	(89.9)	(98.0)	(93.5)	(93.8)	(93.5)	(91.8)	(2.0)	22	(80.7)	22
Kollam	(85.0)	(100.0)	(98.5)	(87.3)	(93.1)	(87.3)	(0.0)	35	(82.8)	35
Kottayam	(100.0)	(100.0)	(100.0)	(100.0)	(95.2)	(95.2)	(0.0)	32	(68.2)	32
Kozhikode	(84.9)	(100.0)	(86.9)	(86.2)	(84.7)	(70.0)	(0.0)	48	(82.9)	48
Malappuram	77.1	95.1	80.8	77.1	78.8	70.6	4.9	76	(79.9)	72
Palakkad	(79.3)	(97.4)	(89.9)	(93.8)	(90.1)	(88.1)	(2.6)	55	(88.6)	54
Pathanamthitta	(77.5)	(92.5)	(89.1)	(96.3)	(92.6)	(78.0)	(0.0)	16	(71.5)	16
Thiruvananthapuram	(80.2)	(100.0)	(87.7)	(87.6)	(96.2)	(81.9)	(0.0)	42	(55.9)	42
Thrissur	(79.1)	(100.0)	(97.4)	(94.7)	(93.6)	(88.3)	(0.0)	35	(85.4)	35
Wayanad	(71.3)	(100.0)	(83.6)	(79.2)	(83.5)	(72.8)	(0.0)	14	(87.4)	14
Kerala	82.4	98.1	90.4	88.5	89.4	82.1	1.7	486	77.6	478

¹ Fully vaccinated with BCG, measles, and three doses each of DPT and polio vaccine (excluding polio vaccine given at birth) ² Child has not received any vaccinations listed in the table.

() Based on 25-49 unweighted cases

Table 54 Prevalence and treatment of symptoms of ARI and fever

Among children under age five, percentage who had symptoms of acute respiratory infection (ARI) and fever in the two weeks preceding the survey and percentage with fever who received specific treatments, according to background characteristics, Kerala, 2015-16

	С	hildren under age fi	ve	Children unde with fe	
Background characteristic	Percentage with symptoms of ARI ¹	Percentage with fever	Number of children	Percentage for whom treatment was sought from a health facility or provider ²	Number of children
Age in months					
<6	0.7	10.0	240	*	24
6-11	1.1	10.2	207	*	21
12-23	0.3	14.3	486	91.2	69
24-35	0.8	10.3	513	94.7	53
36-47	1.4	9.2	487	95.6	45
48-59	0.6	8.9	504	85.4	45
Sex					
Male	1.1	10.6	1,190	91.9	126
Female	0.5	10.5	1,246	87.8	131
Residence					
Urban	0.6	10.2	1,160	90.1	119
Rural	1.0	10.8	1,276	89.6	138
Mother's schooling					
5-9 years complete 10-11 years	1.7	11.0	406	84.3	45
complete	0.9	10.1	508	94.5	51
12 or more years					
complete	0.5	10.5	1,503	89.7	158
Religion					
Hindu	0.9	12.3	1,245	87.4	153
Muslim	0.6	7.4	869	91.1	65
Christian	0.9	12.2	320	(97.1)	39
Caste/tribe					
Scheduled caste	2.7	17.7	219	(97.6)	39
Scheduled tribe Other backward	0.8	15.4	46	*	7
class	0.3	9.0	1,405	86.6	127
Other	1.0	10.6	754	92.8	80
Don't know	*	*	13	*	4
Total	0.8	10.5	2,436	89.8	257

Note: Total includes children who have no schooling or <5 years of schooling and children belonging to "other" religions, who are not shown separately.

¹ Symptoms of ARI (cough accompanied by short, rapid breathing or difficulty breathing which was chest related)

 2 Excludes pharmacy, shop, and traditional healer

() Based on 25-49 unweighted cases

Table 55 Prevalence and treatment of diarrhoea

Percentage of children under age five who had diarrhoea in the two weeks preceding the survey and among children under age five who had diarrhoea in the two weeks preceding the survey, percentage who received advice or treatment from a health facility or health provider, who received oral rehydration therapy (ORT), who were given other treatments and who were given no treatment, by background characteristics, Kerala, 2015-16

				Ora	I rehydration	n therapy (C)RT)				Other treatmer	nts			
Background characteristic	Percentage of children with diarrhoea		facility or health	Percent- age given a	Percent- age given	Percent- age given either		Percent- age given ORS, gruel, or increased fluids	Percent- age given antibiotic drug	Percent- age given other drug ²	Percent- age given zinc	Percent- age given	Percent- age given home remedy/ herbal/ other	Percent- age not receiving any treatment	with
Age in months															ļ
<6	1.7	240	*	*	*	*	*	*	*	*	*	*	*	*	4
6-11	8.0	207	*	*	*	*	*	*	*	*	*	*	*	*	17
12-23	5.5	486	(73.4)	(48.0)	(68.2)	(78.6)	(14.5)	(83.5)	(15.2)	(2.1)	(11.1)	(0.0)	(3.2)	(10.0)	27
24-35	3.8	513	*	*	*	*	*	*	*	*	*	*	*	*	20
36-47	1.3	487	*	*	*	*	*	*	*	*	*	*	*	*	6
48-59	1.6	504	*	*	*	*	*	*	*	*	*	*	*	*	8
Sex															ŗ
Male	3.5	1,190	(82.4)	(50.3)	(73.8)	(79.7)	(24.6)	(88.7)	(13.2)	(3.4)	(11.0)	(0.0)	(4.9)	(6.8)	41
Female	3.2	1,246	(70.0)	(48.5)	(76.9)	(85.5)	(17.1)	(85.5)	(13.9)	(0.9)	(17.1)	(0.0)	(3.1)	(12.6)	40
Residence															ŗ
Urban	2.7	1,160	(69.5)	(40.5)	(79.0)	(79.0)	(32.4)	(90.9)	(14.9)	(0.0)	(5.4)	(0.0)	(4.0)	(9.1)	31
Rural	4.0	1,276	80.4	54.9	73.1	84.8	13.8	84.8	12.7	3.5	19.4	0.0	4.0	10.1	50
Mother's schooling															
5-9 years complete	4.6	406	*	*	*	*	*	*	*	*	*	*	*	*	19
10-11 years complete	3.8	508	*	*	*	*	*	*	*	*	*	*	*	*	19
12 or more years															
complete	2.8	1,503	(83.9)	(55.8)	(80.5)	(87.8)	(21.8)	(91.3)	(12.3)	(3.3)	(18.3)	(0.0)	(5.7)	(2.6)	43
Religion															I
Hindu	3.4	1,245	(75.5)	(53.5)	(85.1)	(85.8)	(8.7)	(85.8)	(14.4)	(0.0)	(14.8)	(0.0)	(7.7)	(12.5)	42
Muslim	3.1	869	(76.4)	(43.4)	(70.5)	(83.8)	(40.3)	(94.2)	(8.5)	(2.0)	(12.3)	(0.0)	(0.0)	(5.8)	27
Christian	3.7	320	*	*	*	*	*	*	*	*	*	*	*	*	12
Caste/tribe															I
Scheduled caste	4.4	219	*	*	*	*	*	*	*	*	*	*	*	*	10
Scheduled tribe	3.8	46	*	*	*	*	*	*	*	*	*	*	*	*	2
Other backward class	3.0	1,405	(67.5)	(51.8)	(80.8)	(85.8)	(13.8)	(85.8)	(17.0)	(1.3)	(18.0)	(0.0)	(5.7)	(14.2)	42
Other	3.7	754	(83.9)	(47.7)	(60.7)	(73.3)	(35.2)	(86.7)	(13.9)	(3.0)	(7.5)	(0.0)	(0.0)	(4.0)	28
Total	3.3	2,436	76.3	49.4	75.3	82.6	20.9	87.1	13.5	2.2	14.0	0.0	4.0	9.7	82

Note: ORT includes a solution prepared from an oral rehydration salt (ORS) packet and/or gruel and/or increased fluids. Total includes children who have no schooling or <5 years of schooling, children belonging to "other" religions, and children whose caste/tribe is not known, who are not shown separately.

¹ Excludes pharmacy, shop, and traditional healer

² Includes antimotility drugs, other drugs, and unknown drugs

() Based on 25-49 unweighted cases

Table 56 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 given compared with normal practice, according to background characteristics, Kerala, 2015-16

		Amount of	liquids giver	า				Amount	of food	given			Percentage		
Background characteristic	More	Same as usual	Somewhat less	Much less	Total	More	Same as usual	Somewhat less	Much less	None	Never gave food	Total	given increased fluids and continued feeding ¹	Percentage given ORT and continued feeding ¹	Number of children with diarrhoea
Sex															
Male Female	(24.6) (17.1)	(24.4) (41.8)	(30.3) (19.4)	(20.7) (21.8)	100.0 100.0	(1.8) (4.8)	(32.1) (28.4)	(27.3) (30.9)	(31.6) (33.0)	(4.2) (2.9)	(3.0) (0.0)	100.0 100.0	(12.3) (10.8)	(53.9) (58.4)	41 40
Residence		(25.0)		(1 7 1)	100.0	(1.0)		(22.0)	(25.0)		(4.0)	100.0		(47.4)	24
Urban Rural	(32.4) 13.8	(25.9) 37.4	(24.5) 25.1	(17.1) 23.7	100.0 100.0	(4.0) 2.8	(16.5) 38.7	(32.0) 27.3	(35.9) 30.1	(7.6) 1.1	(4.0) 0.0	100.0 100.0	(15.7) 9.1	(47.4) 61.5	31 50
Religion															
Hindu Muslim	(8.7) (40.3)	(32.8) (27.8)	(19.5) (31.8)	(39.0) (0.0)	100.0 100.0	(2.9) (5.2)	(30.7) (29.9)	(21.3) (37.4)	(42.1) (16.7)	(0.0) (10.7)	(3.0) (0.0)	100.0 100.0	(2.9) (25.6)	(53.1) (66.8)	42 27
Caste/tribe Other backward class Other ²	(13.8) (35.2)	(29.6) (39.0)	(30.3) (20.5)	(26.4) (5.3)	100.0 100.0	(4.6) (2.6)	(28.1) (34.0)	(27.1) (30.3)	(30.4) (33.1)	(6.9) (0.0)	(3.0) (0.0)	100.0 100.0	(6.4) (20.8)	(56.0) (53.6)	42 28
Total	20.9	33.0	24.9	21.2	100.0	3.3	30.3	29.1	32.3	3.6	1.5	100.0	11.6	56.1	82

Note: It is recommended that children should be given more liquids to drink during diarrhoea and food should not be reduced. Total includes Christian children and children belonging to "other" religions, scheduled tribe caste and scheduled tribe children, who are not shown separately.

ORT = Oral rehydration therapy, which includes a solution prepared from an oral rehydration salt packet and/or gruel and/or increased fluids

¹ Continued feeding includes children who were given more, same as usual, or somewhat less food during the diarrhoea episode

²Not belonging to a scheduled caste, scheduled tribe, or other backward class.

Table 57 Knowledge of ORS packets

Percentage of all women and percentage of women who had a live birth in the five years preceding the survey who know about ORS packets for treatment of diarrhoea, by background characteristics, Kerala, 2015-16

	All w	omen		gave birth in five year
Paglomound characteristic	Percentage who know about ORS packets	Number of	Percentage who know about ORS	Number of
Background characteristic	раскег	women	packets	women
Age				
15-19	83.2	1,504	*	25
20-24	91.4	1,519	93.3	386
25-34	96.9	3,171	97.2	1,442
35-49	95.5	4,840	97.9	264
Residence				
Urban	94.0	5,172	95.9	1,000
Rural	93.3	5,861	97.0	1,117
Schooling				
No schooling	75.7	106	*	4
<5 years complete	87.9	246	*	12
5-9 years complete	92.9	2,716	92.9	352
10-11 years complete	92.2	2,689	96.7	434
12 or more years complete	95.4	5,276	97.5	1,314
Religion				
Hindu	94.0	6,229	96.8	1,100
Muslim	93.4	3,077	96.0	751
Christian	92.8	1,725	96.3	265
Caste/tribe				
Scheduled caste	91.7	1,075	96.8	196
Scheduled tribe	87.3	145	93.8	37
Other backward class	93.8	6,108	96.5	1,224
Other	94.3	3,666	96.3	648
Don't know	(87.1)	40	*	11
Total	93.6	11,033	96.5	2,117

Note: Total includes women who belong to "other" religions, who are not shown separately.

ORS = Oral rehydration salt

() Based on 25-49 unweighted cases

Table 58 ICDS coverage and utilization of ICDS services

Percentage of children under age six years who received any service and received specific services from an *anganwadi* centre (AWC) in the 12 months preceding the survey, by background characteristics, Kerala, 2015-16

	Percentag	e of children age from a		o received	_	Children ag montł			age 0-59 nths	months	age 0-59 who were at an AWC
Background characteristic	Any benefits ¹	Supplementary food ²	Any immunizations	Health check-ups	Number of children	Percentage who went for early childhood care/pre-school to an AWC		Percentage of children who were weighed at an AWC	Number of children	Percentage whose mothers received counselling from an AWC after child was weighed	
Ago in months											
Age in months <12	33.1	29.3	12.4	22.6	447	na	na	23.9	447	42.7	107
12-23	60.2	58.1	22.5	41.7	486	na	na	50.0	486	39.6	243
24-35	58.9	57.2	25.1	41.7	513	na	na	50.5	513	41.3	259
36-47	59.3	56.7	21.2	43.1	487	45.8	487	53.3	487	43.4	259
48-59	45.4	42.7	18.1	31.6	504	36.4	504	40.6	504	39.4	205
60-71	33.6	29.1	15.9	25.2	467	23.9	467	na	na	na	na
0-35	51.4	48.9	20.3	35.8	1,446	na	na	42.1	1,446	40.9	608
36-71	46.3	43.0	18.4	33.4	1,457	35.5	1,457	46.8	991	41.6	464
Sex											
Male	48.4	45.4	19.6	34.0	1,437	36.1	734	43.5	1,190	40.2	518
Female	49.2	46.4	19.1	35.1	1,466	34.9	724	44.5	1,246	42.1	554
Residence											
Urban	44.4	41.2	18.1	31.0	1,384	32.1	701	39.4	1,160	42.7	457
Rural	52.8	50.2	20.5	37.8	1,519	38.7	757	48.2	1,276	40.1	616
Mother's schooling											
<5 years complete	(59.3)	(52.8)	(37.5)	(48.1)	17	*	11	*	15	*	8
5-9 years complete	53.5	49.4	23.4	38.2	510	38.2	308	50.8	406	38.7	206
10-11 years complete	51.8	49.6	19.4	38.9	620	39.6	350	49.3	508	43.4	250
12 or more years complete	46.2	43.5	18.0	31.7	1,749	32.1	785	40.2	1,503	41.0	604
										Co	ontinued

Table 58 ICDS coverage and utilization of ICDS services—Continued

Percentage of children under age six years who received any service and received specific services from an *anganwadi* centre (AWC) in the 12 months preceding the survey, by background characteristics, Kerala, 2015-16

	Percentag	e of children age from a	0-71 months wł n AWC	no received	_	Children ag mont			age 0-59 nths	months v	age 0-59 vho were at an AWC
Background characteristic	Any benefits ¹	Supplementary food ²	Any immunizations	Health check-ups		Percentage who went for early childhood care/pre-school to an AWC		Percentage of children who were weighed at an AWC	Number of children	Percentage whose mothers received counselling from an AWC after child was weighed	
Religion											
Hindu	54.0	50.9	22.2	38.6	1,470	40.7	726	48.7	1,245	40.3	606
Muslim	44.7	42.2	18.3	32.5	1,048	30.4	545	41.2	869	44.0	358
Christian	40.1	36.9	11.2	24.5	384	30.2	186	33.3	320	36.1	107
Caste/tribe											
Scheduled caste	61.8	59.6	29.8	47.4	256	49.7	119	57.0	219	42.4	125
Scheduled tribe	71.4	65.9	23.4	60.1	53	(68.0)	23	67.0	46	38.2	31
Other backward class	49.6	46.7	20.0	35.3	1,694	35.6	887	45.7	1,405	39.1	642
Other	42.3	39.6	14.9	28.3	885	29.3	424	35.8	754	46.7	270
Total	48.8	45.9	19.4	34.6	2,903	35.5	1,457	44.0	2,436	41.2	1,072

Note: Total includes children who have no schooling, children belonging to "other" religions, and children whose caste/tribe is not known, who are not shown separately.

na = Not applicable

ICDS = Integrated Child Development Services

¹ AWC benefits for children include distribution of supplementary food, growth monitoring, immunizations, health check-ups, and pre-school schooling

² Supplementary food includes both food cooked and served at the AWC on a daily basis or given in the form of take home rations

() Based on 25-49 unweighted cases

Table 59 Utilization of ICDS services during pregnancy and while breastfeeding

Percentage of children under age six years whose mothers received specific benefits from an *anganwadi* centre (AWC) during pregnancy and while breastfeeding, according to background characteristics, Kerala, 2015-16

	M	other received from	m an AWC d	uring pregna	ncy	Мо	ther received from	an AWC wh	ile breastfeed	ling ²
				Health and						Number of
Background characteristic	Any benefits	Supplementary food ¹	Health check-ups	nutrition education	Number of children	Any benefits	Supplementary food ¹	Health check-ups	nutrition education	children breastfed
Residence										
Urban	32.0	30.5	18.9	21.1	1,384	23.1	22.1	13.6	15.0	1,384
Rural	31.4	30.0	19.5	22.7	1,519	25.0	24.0	15.3	16.9	1,519
Mother's schooling										
<5 years complete	(30.6)	(30.6)	(30.6)	(25.5)	17	(30.3)	(30.3)	(15.3)	(13.0)	17
5-9 years complete	38.2	35.7	22.0	24.8	510	27.7	27.2	17.3	20.0	510
10-11 years complete	36.1	34.7	21.7	25.3	620	27.7	26.9	16.9	18.6	620
12 or more years										
complete	28.2	26.9	17.4	19.9	1,749	21.7	20.5	12.8	14.0	1,749
Religion										
Hindu	37.4	36.2	22.7	25.6	1,470	27.5	26.6	17.6	19.3	1,470
Muslim	26.8	24.7	16.4	18.7	1,048	21.4	20.0	12.1	13.1	1,048
Christian	23.1	22.0	13.2	16.6	384	18.4	17.9	9.1	11.4	384
Caste/tribe										
Scheduled caste	36.4	35.3	25.7	25.4	256	33.8	32.1	22.7	24.3	256
Scheduled tribe	60.8	60.8	35.7	40.6	53	33.3	30.8	19.9	22.4	53
Other backward class	32.6	31.1	19.3	22.7	1,694	23.9	22.7	14.3	16.6	1,694
Other	26.8	25.3	16.3	18.5	885	21.1	20.8	12.4	12.3	885
Total	31.7	30.2	19.2	21.9	2,903	24.1	23.1	14.5	16.0	2,903

Note: Total includes children who have no schooling, children belonging to "other" religions, and children whose caste/tribe is not known, who are not shown separately.

ICDS = Integrated Child Development Services¹ Supplementary food includes both food cooked and served at the AWC on a daily basis and food given in the form of take home rations

² Services are usually provided to breastfeeding mothers during the first six months of breastfeeding

() Based on 25-49 unweighted cases

Table 60 Nutritional status of children

Percentage of children under age 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, Kerala, 2015-16, and total for NFHS-3

	Hei	ght-for-age ¹			Weight-for	-height		Weight-for-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		Percentage below -3 SD	Percentage below -2 SD ²	Percentage above +2 SD		Numbe of childre
Age in months												
<6	7.6	16.1	-0.2	11.2	26.3	3.6	-1.2	7.1	20.6	2.2	-1.0	184
6-8	4.1	14.4	-0.2	12.9	26.5	4.6	-1.1	8.4	19.4	1.3	-1.1	93
9-11	8.2	16.8	-0.4	7.2	18.4	7.4	-0.4	1.3	8.4	0.9	-0.6	97
12-17	9.2	24.8	-0.8	2.8	13.0	4.2	-0.3	2.3	11.6	0.3	-0.6	233
18-23	13.8	30.5	-1.3	6.6	15.1	5.5	-0.5	5.8	20.8	0.2	-1.0	224
24-35	7.0	18.8	-0.7	6.0	17.2	3.6	-0.7	4.3	17.2	2.2	-0.9	496
36-47	4.0	17.7	-0.7	7.1	12.6	1.1	-0.7	2.2	15.1	1.3	-0.8	479
48-59	4.9	17.9	-0.9	5.2	12.3	3.1	-0.6	2.2	15.1	1.3	-0.9	492
Sex												
Male	7.4	19.5	-0.8	6.4	15.9	3.8	-0.7	3.1	16.4	1.1	-0.9	1,108
Female	6.2	19.8	-0.6	6.7	15.6	3.1	-0.7	4.2	15.8	1.5	-0.8	1,189
Birth interval in												
months ³												
First birth ⁴	7.1	18.1	-0.7	6.9	16.0	4.2	-0.6	3.4	15.7	1.3	-0.8	1,073
<24	4.3	19.8	-0.6	7.9	21.4	0.9	-1.1	5.1	23.8	0.0	-1.1	129
24-47	7.1	24.8	-0.9	6.6	13.0	4.4	-0.6	3.8	16.3	2.0	-0.9	419
48+	7.1	20.2	-0.7	5.5	15.9	2.3	-0.7	3.8	15.6	1.3	-0.9	617
Birth order ³												
1	7.1	18.2	-0.7	7.0	16.1	4.2	-0.6	3.3	15.8	1.2	-0.8	1,056
2-3	6.8	22.0	-0.8	6.2	15.5	2.6	-0.7	4.0	16.6	1.5	-0.9	1,106
4-5	6.8	16.0	-0.8	3.3	15.2	8.4	-0.3	3.3	15.6	2.3	-0.7	71
6+	*	*	*	*	*	*	*	*	*	*	*	6
Size at birth ³												
Small	8.3	22.6	-1.0	8.7	28.3	4.0	-1.0	5.9	25.8	0.6	-1.3	142
	6.8	19.7	-0.7	6.2	14.7	3.5	-0.6	3.6	15.4	1.4	-0.8	2,070

Table 60 Nutritional status of children—Continued

Percentage of children under age 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, Kerala, 2015-16, and total for NFHS-3

	Height-for-age ¹				Weight-for	-height			Weight-fo	or-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)	Number of childrer
Residence												
Urban	6.7	19.8	-0.6	7.0	15.9	4.0	-0.6	3.0	15.5	1.8	-0.8	1,081
Rural	6.9	19.5	-0.8	6.1	15.5	2.9	-0.7	4.2	16.7	1.0	-0.9	1,216
Mother's schooling⁵												
5-9 years complete	6.8	23.4	-1.0	7.8	15.9	2.9	-0.8	6.0	20.5	0.0	-1.1	380
10-11 years complete 12 or more years	6.9	24.1	-1.0	9.5	20.6	2.5	-0.8	4.3	23.6	0.9	-1.1	473
complete	6.7	17.4	-0.6	5.3	14.0	4.0	-0.6	2.6	12.4	1.9	-0.7	1,383
Religion												
Hindu	6.8	19.5	-0.8	5.5	14.0	3.2	-0.6	3.7	17.1	1.5	-0.9	1,172
Muslim	7.1	22.7	-0.8	7.6	16.8	3.2	-0.7	4.1	16.0	0.8	-0.9	796
Christian	5.9	12.9	-0.4	7.6	19.1	4.7	-0.7	2.3	12.6	2.1	-0.7	328
Caste/tribe												
Scheduled caste	5.7	19.1	-0.9	7.7	18.6	2.8	-0.8	4.0	22.0	0.7	-1.1	229
Scheduled tribe	6.6	23.9	-1.1	4.1	18.8	0.0	-0.9	7.2	21.6	0.0	-1.2	36
Other backward class	7.7	22.0	-0.8	7.3	16.0	3.4	-0.7	3.9	16.4	1.4	-0.9	1,256
Other	5.5	15.9	-0.5	5.1	14.4	3.7	-0.6	2.7	12.6	1.3	-0.7	748
Don't know	*	*	*	*	*	*	*	*	*	*	*	28
Mother's interview												
status												
Interviewed	7.0	20.0	-0.7	6.5	15.7	3.5	-0.7	3.7	16.2	1.4	-0.9	2,239
Not interviewed, and												
not in the household ⁶	(0.0)	(2.9)	(-0.4)	(5.8)	(15.4)	(0.7)	(-0.7)	(0.7)	(8.7)	(0.7)	(-0.7)	44
											Con	tinued

Table 60 Nutritional status of children—Continued

Percentage of children under age 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, Kerala, 2015-16, and total for NFHS-3

Height-for-age ¹					Weight-for	r-height				_		
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)	Number of children
Mother's nutritional status ⁷												
Underweight (BMI<18.5) Normal (BMI 18.5-	7.1	20.7	-1.0	6.6	21.5	1.0	-1.0	6.1	24.1	0.0	-1.2	187
24.9) Overweight (BMI \geq	7.9	21.2	-0.7	7.3	16.5	3.9	-0.6	3.6	15.9	1.2	-0.8	1,324
25.0)	5.1	17.3	-0.7	5.2	13.0	3.4	-0.6	3.3	14.9	2.0	-0.9	735
Child's living arrangements Living with both												
parents Living with one or	8.0	21.0	-0.8	6.2	15.6	4.0	-0.6	3.9	17.1	1.2	-0.9	1,641
neither parent	3.9	16.2	-0.6	7.3	16.1	2.0	-0.7	2.9	13.5	1.7	-0.8	656
Total	6.8	19.7	-0.7	6.5	15.7	3.4	-0.7	3.6	16.1	1.3	-0.9	2,297
NFHS-3 (2005-06)	6.5	24.5	-1.1	4.1	15.9	1.2	-0.9	4.7	22.9	0.4	-1.2	925

Note: Table is based on children who stayed in the household the night before the interview. Each of the indices is expressed in standard deviation units (SD) from the median of the WHO Child Growth Standards adopted in 2006. The indices in this table are NOT comparable to those based on the previously used 1977 NCHS/CDC/WHO Reference. Table is based on children with valid dates of birth (month and year) and valid measurement of both height and weight. Total includes information on children whose mothers have no schooling or <5 years of schooling, children belonging to "other" religions, children of mothers who were not interviewed but were in the household and children whose mother's nutritional status is missing, who are not shown separately.

¹ Recumbent length is measured for children under age 2, or in the few cases when the age of the child is unknown and the child is less than 85 cm; standing height is measured for all other children

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

³ Excludes children whose mothers were not interviewed

⁴ First born twins (triplets, etc.) are counted as first births because they do not have a previous birth interval

⁵ For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the household schedule.

⁶ Includes children whose mothers are deceased

⁷ Excludes children whose mothers were not weighed and measured, children whose mothers were not interviewed, and children whose mothers are pregnant or gave birth within the preceding 2 months. Mother's nutritional status in terms of BMI (Body Mass Index) is presented in Table 70.

() Based on 25-49 unweighted cases

Table 61 Initial breastfeeding

Among last-born children who were born in the two years preceding the survey, the percentage who were ever breastfed, and the percentage who started breastfeeding within one hour and 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, Kerala, 2015-16

	Among	last-born children	born in the past t	wo years:	born in the p	oorn children ast two years ⁄er breastfed:
Background characteristic	Percentage ever breastfed	Percentage who started breastfeeding within one hour of birth ¹	started breastfeeding	Number of last-born children	Percentage who received a prelacteal feed ³	Number of last-born ever breastfed children
Residence						
Urban	99.0	64.2	94.0	423	9.9	419
Rural	99.0	62.6	96.0	487	8.2	482
Sex						
Male	98.6	64.7	93.8	462	10.2	456
Female	99.4	61.9	96.4	448	7.7	445
Mother's schooling						
5-9 years complete	97.6	61.8	94.7	134	10.3	131
10-11 years complete	99.2	65.7	95.1	162	6.1	161
12 or more years						
complete	99.2	63.0	95.2	608	9.6	604
Religion						
Hindu	99.7	63.1	95.2	449	10.4	447
Muslim	99.6	67.2	96.2	321	6.9	320
Christian	95.3	55.5	92.2	140	9.3	133
Caste/tribe						
Scheduled caste	100.0	57.2	95.7	76	14.2	76
Scheduled tribe	(100.0)	(73.8)	(94.4)	16	(7.8)	16
Other backward class	99.3	63.0	96.3	521	7.8	518
Other	98.1	65.1	92.8	292	10.0	286
Total	99.0	63.3	95.1	910	9.0	901

Note: Table is based on last-born children born in the past two years whether the children are living or dead at the time of interview. Total includes births to women who have no schooling or <5 years of schooling, to women belonging to "other" religions, and to women who don't know their caste/tribe, which are not shown separately.

TBA = Traditional birth attendant

¹ Includes children who started breastfeeding immediately after birth

² Includes children who started breastfeeding within one hour of birth

³ Children given something other than breast milk during the first three days of life

() Based on 25-49 unweighted cases

Table 62 Breastfeeding status by age

Percent distribution of youngest children under two years living with the mother by breastfeeding status, percentage currently breastfeeding, and percentage of all children under two years using a bottle with a nipple, according to age in months, Kerala, 2015-16

				Breastfeeding	and cons	suming:					
Age in months	Not breastfeeding	Exclusively breastfed	Plain water only	Non-milk liquids/juice	Other milk	Complementary foods	Total	Percentage currently breastfeeding	Number of youngest children under two years living with the mother	Percentage using a bottle with a nipple	Number of all children under two years
2		(0.0.1)	(1.2)	(2, 2)	(1.0)	(2, 2)					
<2	(2.6)	(82.4)	(4.2)	(0.0)	(1.8)	(9.0)	100.0	(97.4)	44	(0.0)	45
2-3	0.0	57.8	11.7	7.3	10.8	12.4	100.0	100.0	83	9.3	85
4-5	0.7	37.5	17.6	3.5	13.4	27.3	100.0	99.3	105	20.5	110
6-8	3.5	8.6	5.3	5.6	13.9	63.1	100.0	96.5	103	40.6	106
9-11	2.0	2.6	4.2	4.4	1.9	84.9	100.0	98.0	99	33.6	101
12-17	5.1	4.5	1.2	0.5	3.4	85.4	100.0	94.9	251	35.1	256
18-23	14.2	2.4	2.1	1.9	1.8	77.7	100.0	85.8	216	27.4	230
<4	0.9	66.3	9.1	4.8	7.7	11.3	100.0	99.1	127	6.1	130
<6	0.8	53.2	13.0	4.2	10.3	18.5	100.0	99.2	232	12.7	240
6-9	2.6	6.7	4.9	5.3	10.4	70.1	100.0	97.4	137	41.3	140
12-15	2.5	4.4	1.1	0.7	4.2	87.1	100.0	97.5	179	33.8	179
12-23	9.3	3.5	1.6	1.1	2.6	81.8	100.0	90.7	468	31.5	486
20-23	14.9	2.6	1.4	1.7	1.9	77.5	100.0	85.1	145	27.4	154

Note: Breastfeeding status refers to a "24-hour" period (yesterday and last night). Children who are classified as breastfeeding and consuming plain water only consumed no liquid or solid supplements. The categories of not breastfeeding, exclusively breastfed, breastfeeding and consuming plain water, non-milk liquids/juice, 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.

Table 63 Median duration of breastfeeding and infant and young child feeding (IYCF) practices

Median duration (months) of breastfeeding among last-born children born in the last three years and percentage of youngest children age 6-23 months living with the mother who were fed with appropriate feeding practices based on the number of food groups and times they were fed during the day or night preceding the survey, by breastfeeding status and background characteristics, Kerala, 2015-16

	brea	dian durati stfeeding a 1 born in th	mong last-l	born		ong breastfe nonths, per	centage fe		Among non-breastfed children 6-23 months, percentage fed:			Among all children 6-23 months, percentage fed:						
Background characteristic	Any breast- feeding	Exclu- sive breast- feeding	Predom- inant breast- feeding ²	Number of children	4+ food groups ³		Both 4+ food groups and mini- mum meal fre- quency	Num- ber of children	Milk or milk pro- ducts ⁵	4+ food groups ³	Minimum meal fre- quency ⁴	With 3 IYCF prac- tices ⁶	Num- ber of children	Breast milk, milk, or milk pro- ducts ⁷	4+ food groups ³	Minimum meal fre- quency ⁸		Num- ber of children
Age in months																		
6-8	na	na	na	103	14.4	51.8	11.4	99	*	*	*	*	4	97.3	13.9	50.7	11.0	103
9-11	na	na	na	103	26.4	35.5	6.7	97	*	*	*	*	2	98.0	26.4	34.8	6.5	99
12-17	na	na	na	252	40.1	41.9	23.0	239	*	*	*	*	13	99.4	39.7	43.0	22.1	251
18-23	na	na	na	216	53.6	44.1	32.1	186	(45.9)	(55.9)	(58.5)	(33.1)	31	92.3	53.9	46.1	32.2	216
Sex																		
Male	28.2	3.3	5.0	661	39.7	42.5	22.3	311	(52.3)	(43.5)	(52.5)	(17.9)	35	95.2	40.1	43.5	21.9	345
Female	29.1	(2.5)	4.9	705	36.1	43.7	20.3	310	*	*	*	*	14	98.1	36.5	44.4	20.8	324
Residence																		
Urban	28.1	3.2	5.2	632	40.2	41.6	19.5	275	*	*	*	*	21	97.5	41.4	42.7	19.9	296
Rural	30.1	2.7	4.7	734	36.1	44.4	22.7	345	(44.7)	(34.5)	(52.1)	(20.6)	28	95.8	36.0	45.0	22.5	374
Mother's schooling																		
5-9 years complete	(29.1)	*	(3.1)	191	33.1	36.2	17.5	97	*	*	*	*	10	91.8	34.0	36.1	17.4	108
10-11 years complete	27.9	(4.1)	(5.5)	260	30.8	39.8	15.7	111	*	*	*	*	7	97.0	32.1	41.1	16.0	118
12 or more years		(,	()															
complete	29.0	2.9	5.1	908	41.3	45.6	23.9	409	(67.0)	(42.9)	(59.6)	(24.7)	32	97.6	41.4	46.6	23.9	441
Religion																		
Hindu	30.0	2.9	4.6	712	37.6	45.6	22.1	309	*	*	*	*	21	96.3	37.2	45.6	21.5	330
Muslim	27.4	3.5	5.6	472	36.7	40.8	21.6	224	*	*	*	*	12	97.8	38.6	42.1	22.0	236
Christian	*	*	(4.9)	182	42.1	40.5	17.7	87	*	*	*	*	16	94.5	41.8	43.1	19.6	103
																	Conti	inued

Table 63 Median duration of breastfeeding and infant and young child feeding (IYCF) practices—Continued

Median duration (months) of breastfeeding among last-born children born in the last three years and percentage of youngest children age 6-23 months living with the mother who were fed with appropriate feeding practices based on the number of food groups and times they were fed during the day or night preceding the survey, by breastfeeding status and background characteristics, Kerala, 2015-16

	brea	astfeeding a	on (months imong last-l ne last three	oorn	Among breastfed children 6-23 months, percentage fed:			Among non-breastfed children 6-23 months, percentage fed:				Among all children 6-23 months, percentage fed:				centage		
Background characteristic	Any breast- feeding	Exclu- sive breast- feeding	Predom- inant breast- feeding ²	Number of children	4+ food groups ³		Both 4+ food groups and mini- mum meal fre- quency	Num- ber of children	Milk or milk pro- ducts ⁵	4+ food groups ³	Minimum meal fre- quency ⁴	With 3 IYCF prac- tices ⁶	Num- ber of children	Breast milk, milk, or milk pro- ducts ⁷	4+ food groups ³	Minimum meal fre- quency ⁸		Num- ber of children
Caste/tribe Scheduled caste Other backward class	(30.8) 29.0	* 2.5	* 4.8	130 773	34.1 36.4	45.0 43.3	22.7 20.3	50 365	*	*	*	*	6 23	91.9 96.7	30.5 38.1	42.7 43.7	20.3 20.5	56 388
Other ⁹ Total	27.2 28.7	3.2 2.9	5.5 5.0	424 1,366	42.9 37.9	43.2 43.1	23.8 21.3	194 621	(72.2) 53.4	(34.3) 44.3	(69.5) 54.7	(26.7) 22.3	20 49	97.4 96.6	42.1 38.4	45.7 44.0	24.1 21.4	214 670

Note: Total includes children whose mothers have no schoolingor < 5 years schooling, scheduled tribe children, and children whose caste/tribe is not known, who are not shown separately. na = Not applicable

¹ Median 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. It is assumed that children not currently living with the mother are not currently breastfeeding.

² Either exclusively breastfed or received breast milk and plain water and/or non-milk liquids only

³ Food groups are: a. infant formula, milk other than breast milk, cheese or yogurt or other milk products; b. foods made from grains or roots, including porridge or gruel, fortified baby food; c. vitamin A-rich fruits and vegetables; d. other fruits and vegetables; e. eggs; f. meat, poultry, fish, shellfish, or organ meats; g. beans, peas, lentils, or nuts; h. foods made with oil, fat, *ghee*, or butter

⁴ Receiving solid or semi-solid food at least twice a day for breastfed infants 6-8 months and at least three times a day for breastfed children 9-23 months

⁵ Includes two or more feedings of commercial infant formula, fresh, tinned and powdered animal milk, and yogurt

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

⁷ Breastfeeding, or not breastfeeding and receiving two or more feedings of commercial infant formula, fresh, tinned, and powdered animal milk, and yogurt

⁸ Children are fed the minimum recommended number of times per day according to their age and breastfeeding status as described in footnotes 4 and 6.

⁹Not belonging to a scheduled caste, scheduled tribe, or other backward class

() Based on 25-49 unweighted cases

* Based on fewer than 25 unweighted cases

Table 64 Child feeding practices and nutritional status of children by district

Among last-born children in the past 2 years, percentage breastfed within one hour of birth, percentage of children under age 6 months living with the mother who are exclusively breastfed, and percentage of children under age five years classified as malnourished according to three anthropometric indices of nutritional status: height-for-age, weight-for-height, and weight-for-age, by district, Kerala, 2015-16

	Among last -born children in the past 2 years		_Height-for-age ¹	Weight-for-height	Weight-for-age	
District	Percentage breastfed within one hour of birth	Number of children	Percentage below -2 SD ²	Percentage below -2 SD ²	Percentage below -2 SD ²	Number of children
		10		10.0	17.0	10.4
Alappuzha	59.5	49	14.5	16.6	17.2	124
Ernakulam	59.7	83	12.4	15.9	12.0	211
Idukki	(58.8)	20	15.1	24.2	14.8	57
Kannur	76.4	77	25.3	10.2	10.5	159
Kasaragod	63.6	39	18.7	9.7	13.9	97
Kollam	28.7	62	14.4	18.8	14.2	182
Kottayam	81.4	51	22.0	16.2	11.3	136
Kozhikode	72.6	74	18.0	13.5	18.5	204
Malappuram	65.1	134	26.3	22.3	17.3	344
Palakkad	63.4	93	20.2	10.3	19.1	248
Pathanamthitta	39.9	31	13.2	14.4	11.4	77
Thiruvananthapuram	66.5	94	19.5	13.1	21.5	227
Thrissur	65.8	76	20.8	15.3	14.0	169
Wayanad	66.0	26	27.7	23.9	27.2	64
Kerala	63.3	910	19.7	15.7	16.1	2,297

¹Recumbent 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.

²Based on the WHO Growth Standards population median

() Based on 25-49 unweighted cases

Table 65 Prevalence of anaemia in children

Percentage of children age 6-59 months classified as having anaemia, by background characteristics, Kerala, 2015-16 and total for NFHS-3

	Anaemia	status by haemoglol	bin level		
	Mild	Moderate	Severe	Any anaemia	Number of
Background characteristic	(10.0-10.9 g/dl)	(7.0-9.9 g/dl)	(<7.0 g/dl)	(<11.0 g/dl)	children
Age in months					
6-11	28.2	20.6	0.6	49.4	178
12-23	23.5	21.6	1.1	46.2	472
24-35	23.0	10.3	0.5	33.8	499
36-47	21.0	7.9	0.0	28.9	479
48-59	21.4	7.6	0.0	29.0	499
Sex					
Male	22.0	12.5	0.6	35.2	1,039
Female	23.4	12.5	0.2	36.0	1,088
Birth order ¹					
1	21.9	10.6	0.5	33.0	981
2-3	22.6	14.1	0.4	37.1	1,019
4-5	38.8	21.4	0.0	60.2	63
Residence					
Urban	22.9	12.1	0.5	35.5	1,007
Rural	22.5	12.9	0.4	35.7	1,120
Mother's schooling ²					
5-9 years complete	27.8	11.9	0.0	39.8	358
10-11 years complete	26.7	15.0	0.6	42.2	449
12 or more years complete	20.1	11.8	0.5	32.3	1,260
Religion					
Hindu	19.6	10.8	0.4	30.8	1,078
Muslim	28.1	17.0	0.3	45.4	744
Christian	20.4	7.3	0.8	28.4	304
Caste/tribe					
Scheduled caste	22.3	10.0	0.0	32.3	216
Scheduled tribe	17.5	32.4	0.0	49.9	33
Other backward class	22.9	12.8	0.3	36.0	1,175
Other	23.4	11.9	0.7	36.0	678
					Continued

Table 65 Prevalence of anaemia in children-Continued

Percentage of children age 6-59 months classified as having anaemia, by background characteristics, Kerala, 2015-16 and total for NFHS-3

	Anaemia	status by haemoglob	oin level		
Background characteristic	Mild (10.0-10.9 g/dl)	Moderate (7.0-9.9 g/dl)	Severe (<7.0 g/dl)	Any anaemia (<11.0 g/dl)	Number of children
Mother's interview status Interviewed Not interviewed, and not in	22.8	12.6	0.4	35.8	2,071
the household ³	(22.2)	(6.8)	(0.0)	(29.1)	44
Child's living arrangements					
Living with both parents Living with one or neither	22.8	12.3	0.4	35.5	1,552
parent	22.6	12.9	0.5	36.0	576
∕lother's anaemia status⁴					
Not anaemic	20.8	10.1	0.3	31.1	1,326
Mildly anaemic Moderately/severely	28.0	16.8	0.6	45.3	632
anaemic	17.1	21.6	1.1	39.8	103
otal	22.7	12.5	0.4	35.6	2,127
VFHS-3 (2005-06)	23.5	20.5	0.5	44.5	824

Note: Table is based on children who stayed in the household the night before the interview. Prevalence of anaemia, based on haemoglobin levels, is adjusted for altitude using the CDC formulas (Centers for Disease Control (CDC). 1998. Recommendations to prevent and control iron deficiency in the United States. *Morbidity and Mortality Weekly Report* 47 (RR-3): 1-29). Haemoglobin levels shown in grams per decilitre (g/dl). Total includes information on children of birth order 6+, children whose mothers have no schooling or <5 years of schooling, children belonging to "other" religions, children whose caste/tribe is not known, and children of mothers who were not interviewed but were in the household, who are not shown separately.

¹ Excludes children whose mothers were not interviewed

² For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the household schedule.

³ Includes children whose mothers are deceased

⁴ Mildly anaemic is classified as 10.0-11.9 g/dl for non-pregnant women and 10.0-10.9 g/dl for pregnant women. Moderately/severely anaemic is

<10.0 g/dl. Adjusted for altitude and for smoking status. Excludes children whose mother's anaemia status is not known.

() Based on 25-49 unweighted cases

Table 66 Micronutrient intake among children

Percentage of youngest children age 9-23 months living with the mother who consumed vitamin A-rich and iron-rich foods in the day or night preceding the survey, percentage of children age 9-59 months who were given vitamin A supplements in the six months preceding the survey and percentage of children age 6-59 months who were given iron supplements in the past seven days, who were given deworming medication in the six months preceding the survey, and who live in households using iodized salt, by background characteristics, Kerala, 2015-16, and total for NFHS-3

		hildren age 9-2 ; with their mot		Children mor		Children age 6-59 months			Children age 6-59 months in households with salt tested	
Background characteristic	Percentage who consumed foods rich in vitamin A in past 24 hours ¹	Percentage who consumed foods rich in iron inpast 24 hours ²	Number of children	Percentage given vitamin A supplements in past 6 months	Number of children	Percentage given iron supplements in past 7 days	Percentage given deworming medication in past 6 months ³	Number of children	Percentage living in households using iodized salt ⁴	Number of children
Age in months										
6-8	na	na	na	na	na	20.3	13.9	106	98.6	106
9-11	47.5	22.1	99	70.9	101	20.6	15.2	101	96.5	100
12-17	57.7	40.7	251	86.6	256	18.8	36.9	256	99.5	266
18-23	69.6	54.6	216	81.9	230	19.2	49.9	230	97.8	236
24-35	na	na	na	78.9	513	18.5	60.8	513	98.2	524
36-47	na	na	na	73.2	487	15.4	57.3	487	97.9	521
48-59	na	na	na	68.3	504	17.0	55.3	504	98.1	519
Sex										
Male	61.5	43.8	287	73.7	1,014	17.2	52.2	1,075	97.8	1,107
Female	59.4	41.6	280	78.0	1,077	18.3	48.9	1,121	98.5	1,165
Birth order										
1	60.1	44.5	255	78.8	1,015	18.3	53.6	1,062	98.0	1,036
2-3	59.4	39.5	292	74.6	1,006	17.2	48.0	1,061	98.2	1,075
4-5	*	*	18	49.5	64	16.1	38.1	68	99.3	69
Breastfeeding status										
Breastfeeding	60.5	43.4	521	82.3	822	21.1	42.4	921	98.1	920
Not breastfeeding	60.6	35.6	45	71.8	1,269	15.4	56.3	1,275	98.1	1,266
Residence										
Urban	61.9	43.7	255	76.0	988	18.8	49.9	1,031	98.8	1,065
Rural	59.3	41.9	311	75.8	1,103	16.9	51.0	1,165	97.6	1,207
										Continued

Table 66 Micronutrient intake among children—Continued

Percentage of youngest children age 9-23 months living with the mother who consumed vitamin A-rich and iron-rich foods in the day or night preceding the survey, percentage of children age 9-59 months who were given vitamin A supplements in the six months preceding the survey and percentage of children age 6-59 months who were given iron supplements in the past seven days, who were given deworming medication in the six months preceding the survey, and who live in households using iodized salt, by background characteristics, Kerala, 2015-16, and total for NFHS-3

	Youngest children age 9-23 months living with their mother			Children mor		Childre	en age 6-59 m	Children age 6-59 months in households with salt tested		
Background characteristic	Percentage who consumed foods rich in vitamin A in past 24 hours ¹	Percentage who consumed foods rich in iron in past 24 hours ²	Number of children	Percentage given vitamin A supplements in past 6 months	Number of children	Percentage given iron supplements in past 7 days	Percentage given deworming medication in past 6 months ³	Number of children	Percentage living in households using iodized salt ⁴	Number of children
Mother's schooling										
5-9 years complete	62.0	38.9	83	72.7	358	14.2	50.3	383	97.0	383
10-11 years complete	58.4	41.9	104	72.0	450	17.0	48.8	464	97.7	475
12 or more years complete	60.9	44.1	378	78.4	1,266	18.9	51.1	1,332	98.7	1,350
Religion										
Hindu	61.3	40.3	281	80.8	1,071	18.9	53.5	1,123	97.9	1,139
Muslim	58.6	45.1	202	67.4	753	15.4	43.7	786	98.4	802
Christian	62.2	45.2	84	80.3	266	20.2	57.1	286	98.4	328
Caste/tribe										
Scheduled caste	(56.8)	(32.1)	46	86.6	189	18.6	50.5	199	98.2	227
Scheduled tribe	*	*	8	66.7	38	23.9	62.7	40	100.0	36
Other backward class	60.5	42.8	331	73.4	1,216	16.2	47.1	1,274	98.0	1,238
Other	62.4	45.8	180	78.6	638	20.5	56.6	674	98.3	740
Don't know	*	*	2	*	10	*	*	10	(100.0)	32
Total	60.5	42.7	567	75.9	2,091	17.8	50.5	2,196	98.1	2,272
NFHS-3 (2005-06)	79.0	57.6	262	31.5	878	6.4	44.7	929	79.9	971

Note: Information on iron supplements and deworming medication is based on the mother's recall. Information on vitamin A supplementation is based on the vaccination card (where available) and mother's recall. Total includes information on children of birth order 6+, children whose mothers have no schooling or <5 years of schooling, and children belonging to "other" religions, who are not shown separately. na = Not applicable

¹ Includes meat and organ meats, fish, poultry, eggs, pumpkin, carrots, squash, and sweet potatoes that are yellow or orange inside, dark green leafy vegetables, ripe mango, papaya, cantaloupe, and jackfruit

² Includes meat and organ meats, fish, poultry, or eggs

³ Deworming for intestinal worms

⁴ Excludes children in households in which salt was not tested. Includes children whose mothers were not interviewed except for birth order ,breastfeeding status and mothers schooling. For mother's schooling, excludes children whose mothers are not listed in the household schedule.

() Based on 25-49 unweighted cases

Table 67 Presence of iodized salt in household

Percentage of households with salt tested for iodine content that have iodized salt, according to background characteristics, Kerala, 2015-16, and total for NFHS-3

	Among hous tested	
	Percentage	
	with	Number of
Background characteristic	iodized salt	households
Residence		
Urban	98.8	5,365
Rural	98.1	6,162
Religion of household head		
Hindu	98.1	6,776
Muslim	99.1	2,644
Christian	98.6	2,098
Caste/tribe of household head		
Scheduled caste	98.1	1,145
Scheduled tribe	94.6	144
Other backward class	98.4	5,695
Other	98.6	4,405
Don't know	100.0	138
Total	98.4	11,527
NFHS-3 (2005-06)	82.6	2,986

Note: Total includes information about households whose head belongs to "other" religions, which are not shown separately.

Table 68 Presence of iodized salt in household by district

	Among households	with tested salt:
District	Percentage with iodized salt	Number of households
Alappuzha	98.2	753
Ernakulam	97.7	1,150
Idukki	99.1	376
Kannur	98.0	776
Kasaragod	94.2	409
Kollam	99.0	984
Kottayam	99.1	712
Kozhikode	98.4	1,019
Malappuram	99.3	1,234
Palakkad	97.2	1,086
Pathanamthitta	99.2	488
Thiruvananthapuram	99.2	1,233
Thrissur	99.2	1,056
Wayanad	96.9	252
Kerala	98.4	11,527

Percentage of households with salt tested for iodine content that have iodized salt, by district, Kerala, 2015-16

Table 69 Women's and men's food consumption

Percent distribution of women and men age 15-49 by frequency of consumption of specific foods, Kerala, 2015-16

_		Frequency	of consumption			Number of
Type of food	Daily	Weekly	Occasionally	Never	Total	respondents
		١	VOMEN			
Milk or curd	40.6	29.5	19.9	10.0	100.0	11,033
Pulses or beans	21.3	66.4	11.8	0.5	100.0	11,033
Dark green leafy						
vegetables	8.7	54.0	35.6	1.7	100.0	11,033
Fruits	31.4	51.2	16.8	0.6	100.0	11,033
Eggs	6.5	49.9	36.1	7.5	100.0	11,033
Fish	64.7	26.6	6.0	2.7	100.0	11,033
Chicken or meat	1.7	37.7	55.3	5.3	100.0	11,033
Fish or chicken or meat	65.0	27.8	5.3	1.9	100.0	11,033
Fried foods	13.4	40.8	41.4	4.4	100.0	11,033
Aerated drinks	1.1	8.8	59.8	30.3	100.0	11,033
			MEN			
Milk or curd	45.0	33.2	16.9	5.0	100.0	1,856
Pulses or beans	50.7	39.6	9.3	0.5	100.0	1,856
Dark green leafy						
vegetables	27.3	52.7	19.1	1.0	100.0	1,856
Fruits	27.9	53.8	17.6	0.7	100.0	1,856
Eggs	11.7	60.7	24.2	3.4	100.0	1,856
Fish	47.9	40.0	10.5	1.6	100.0	1,856
Chicken or meat	4.7	57.3	36.3	1.7	100.0	1,856
Fish or chicken or meat	49.3	40.7	9.2	0.7	100.0	1,856
Fried foods	14.7	52.6	29.2	3.5	100.0	1,856
Aerated drinks	11.3	38.1	38.1	12.5	100.0	1,856

Table 70 Nutritional status of adults

Percentage of women and men age 15-49 with specific body mass index (BMI) levels, by background characteristics, Kerala, 2015-16, and total for NFHS-3

		Body Mas	s Index: Wom	en1		Body Mass Index: Men					
Background characteristic	<18.5 (total thin)	<17.0 (moderately/ severely thin)	≥25.0 (overweight or obese)	≥30.0 (obese)	Number of women	<18.5 (total thin)	<17.0 (moderately/ severely thin)	≥25.0 (overweight or obese)	i ≥30.0 (obese)	Number of men	
Age											
15-19	30.6	13.8	8.3	1.4	1,476	27.2	14.4	11.3	2.4	304	
20-29	12.2	4.4	19.8	3.6	2,826	8.6	2.8	16.0	3.0	535	
30-39	4.5	1.5	37.2	6.8	3,153	2.4	0.8	36.7	4.1	555	
40-49	2.6	0.8	50.5	11.0	3,113	3.1	0.6	44.6	5.3	485	
Marital status											
Never married	25.1	10.6	9.5	1.3	2,488	15.5	7.1	14.3	2.6	842	
Currently married Widowed/divorced/	4.9	1.7	39.5	8.1	7,699	2.5	0.5	40.7	4.9	979	
separated/deserted	4.8	1.9	38.5	7.1	381	*	*	*	*	13	
Residence											
Urban	9.1	4.0	33.5	6.9	4,962	8.4	4.1	31.1	4.5	859	
Rural	10.2	3.7	31.5	6.0	5,606	8.6	3.1	26.3	3.3	976	
Schooling											
No schooling	8.1	2.5	36.8	8.0	104	*	*	*	*	11	
<5 years complete	4.9	2.3	42.8	8.8	245	2.0	2.0	37.1	3.1	54	
5-9 years complete	8.1	3.1	41.5	9.0	2,663	10.1	4.1	34.0	3.2	473	
10-11 years complete	11.7	5.2	32.9	6.7	2,621	12.0	6.0	28.4	4.8	474	
12 or more years complete	9.7	3.6	26.7	4.7	4,935	5.9	2.0	25.1	3.7	822	
Religion											
Hindu	10.9	4.5	30.0	5.5	6,011	7.7	3.4	26.6	4.2	1,060	
Muslim	8.5	3.0	35.8	7.7	2,906	9.3	4.1	31.6	3.3	510	
Christian	7.0	2.7	35.4	7.5	1,649	10.2	3.5	30.2	3.4	262	
Caste/tribe											
Scheduled caste	12.0	5.3	29.4	6.0	1,043	11.5	5.5	20.9	4.2	172	
Scheduled tribe	20.1	9.2	19.6	5.4	140	16.9	5.4	30.4	3.4	35	
Other backward class	9.9	3.8	32.8	6.5	5,856	7.2	3.1	29.1	3.8	899	
Other	8.1	3.1	33.0	6.4	3,490	8.8	3.3	29.7	3.8	694	
Don't know	(15.2)	(0.0)	(50.2)	(10.1)	39	(13.3)	(8.6)	(26.1)	(3.8)	35	
Total age 15-49	9.6	3.8	32.4	6.4	10,568	8.5	3.6	28.5	3.8	1,834	
Total age 15-54	na	na	na	na	na	8.5	3.6	28.5	3.8	1,834	
NFHS-3 (2005-2006)	18.0	8.4	28.1	5.0	3,372	21.5	10.1	17.8	2.1	980	
Age 15-49											
NFHS-3 (2005-06)	18.0	8.4	28.1	5.0	3,372	21.0	9.8	19.2	2.3	1,094	

Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m²). Totals include women/men belonging to "other" religions, who are not shown separately.

na = Not applicable

¹ Excludes pregnant women and women with a birth in the preceding 2 months

() Based on 25-49 unweighted cases

Table 71 Prevalence of anaemia in adults

Percentage of women and men age 15-49 with anaemia by background characteristics, Kerala, 2015-16, and total for NFHS-3

		Won	nen				Me	n		
Background characteristic	Mild (10.0-11.9 g/dl) ¹	Moderate (7.0-9.9 g/dl)	Severe (<7.0 g/dl)	Any anaemia (<12.0 g/dl) ²	Number of women	Mild (12.0-12.9 g/dl)	Moderate (9.0-11.9 g/dl)	Severe (<9.0 g/dl)	Any anaemia (<13.0 g/dl)	Number of men
4.00										
Age 15-19	33.8	3.7	0.2	37.7	1,476	10.4	2.7	1.3	14.3	295
20-29	28.7	3.5	0.2	32.5	3,088	8.0	3.8	0.0	11.8	530
30-39	30.2	4.7	0.4	35.3	3,197	6.9	2.4	0.0	9.3	506
40-49	27.5	5.2	0.3	33.1	3,090	9.0	2.7	1.0	12.7	479
Marital status										
Never married	31.3	3.6	0.3	35.2	2,457	10.2	3.1	0.4	13.8	830
Currently married	29.1	4.5	0.3	33.9	8,019	6.8	2.8	0.5	10.0	967
Widowed/divorced/separated/deserted	25.5	7.6	0.2	33.2	374	*	*	*	*	13
Maternity status										
Pregnant	16.6	6.0	0.0	22.6	361	na	na	na	na	na
Breastfeeding	31.9	3.3	0.3	35.5	1,127	na	na	na	na	na
Neither	29.7	4.5	0.3	34.5	9,362	na	na	na	na	na
Residence										
Urban	31.3	4.8	0.2	36.3	5,069	9.3	2.7	0.7	12.6	841
Rural	28.0	4.1	0.4	32.4	5,782	7.5	3.1	0.3	11.0	969
Schooling										
No schooling	30.8	7.4	0.7	38.9	106	*	*	*	*	11
<5 years complete	24.3	6.4	0.0	30.7	239	11.0	8.2	0.0	19.2	54
5-9 years complete	32.5	5.6	0.5	38.6	2,652	9.4	3.1	1.2	13.8	473
10-11 years complete	28.7	4.6	0.4	33.7	2,655	7.6	2.3	0.6	10.5	462
12 or more years complete	28.6	3.5	0.2	32.3	5,199	7.7	2.6	0.0	10.4	811
Religion										
Hindu	28.9	4.9	0.4	34.2	6,185	8.0	2.2	0.7	10.9	1,056
Muslim	32.7	4.2	0.2	37.1	2,953	9.9	4.1	0.2	14.2	491
Christian	26.0	2.8	0.1	29.0	1,710	7.0	3.5	0.0	10.5	261
Caste/tribe										
Scheduled caste	29.3	6.6	0.3	36.2	1,069	8.8	2.4	0.5	11.8	172
Scheduled tribe	36.3	11.2	0.5	48.0	145	6.0	7.5	0.0	13.5	35
Other backward class	30.5	4.2	0.3	35.0	5,974	8.5	2.9	0.2	11.7	886
Other Don't know	27.7 (29.1)	3.8 (5.8)	0.2 (3.8)	31.7 (38.7)	3,624 39	8.3 (4.7)	2.8 (4.4)	0.8 (0.0)	11.9 (9.1)	683 35
Total age 15-49	29.5	4.4	0.3	34.2	10,851	8.3	2.9	0.5	11.7	1,810
Total age 15-54	na	na	na	na	na	3.3	2.9	0.5	11.7	1,810
Total age 15-54	na	na	na	na	na	8.3	3.3	0.6	12.2	2,035
Age 15-49 NFHS-3 (2005-2006)	25.8	6.5	0.5	32.0	3,477	3.8	3.7	0.4	8.0	963

Note: Table is based on women and men who stayed in the household the night before the interview. Prevalence is adjusted for altitude and for smoking status, if known, using the CDC formulas (Centers for Disease Control (CDC). 1998. Recommendations to prevent and control iron deficiency in the United States. *Morbidity and Mortality Weekly Report* 47 (RR-3): 1-29). Totals include women/men belonging to "other" religions, who are not shown separately. Haemoglobin in g/dl = grams per decilitre.

na = Not applicable

¹ For pregnant women the value is 10.0-10.9 g/dl

 2 For pregnant women the value is $<\!11.0 \text{ g/dl}$

() Based on 25-49 unweighted cases

Table 72 Nutritional status and anaemia among children and women by district

Percentage of children age 6-59 months classified as having anaemia and percentage of women age 15-49 with anaemia and specific body mass index (BMI) levels by district, Kerala, 2015-16

District	Percentage of children having any anaemia (<11.0 g/dl)	Number of children	Percentage of women having any anaemia (<12.0 g/dl) ¹	Number of women	Women with BMI <18.5 (total thin)	Women with BMI ≥25.0 (overweight or obese)	Number of women ²
Alappuzha	24.9	108	26.9	645	12.4	37.7	615
Ernakulam	23.4	178	37.6	1 <i>,</i> 039	7.3	34.5	999
Idukki	29.4	58	25.7	318	10.2	28.9	306
Kannur	44.1	134	37.3	687	9.7	30.1	714
Kasaragod	37.7	87	35.0	420	13.0	27.5	406
Kollam	18.1	169	25.5	942	6.7	38.2	925
Kottayam	33.7	132	28.8	600	5.3	31.5	572
Kozhikode	39.7	188	42.9	1,045	12.3	27.1	1,005
Malappuram	54.6	355	38.6	1,442	8.8	34.1	1,381
Palakkad	41.1	227	42.2	1,030	13.5	32.1	1,022
Pathanamthitta	18.4	71	22.4	374	10.5	39.7	366
Thiruvananthapuram	20.5	206	22.5	1,127	9.0	33.6	1,099
Thrissur	39.4	154	42.1	924	8.2	28.1	903
Wayanad	45.6	60	32.2	258	12.2	24.3	255
Kerala	35.6	2,127	34.2	10,851	9.6	32.4	10,568

Note: Table is based on children/women who stayed in the household the night before the interview. Prevalence of anaemia, based on haemoglobin levels, is adjusted for altitude using the CDC formulas (Centers for Disease Control (CDC). 1998. Recommendations to prevent and control iron deficiency in the United States. *Morbidity and Mortality Weekly Report* 47 (RR-3): 1-29). Haemoglobin levels shown in grams per decilitre (g/dl). The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m²).

¹ For pregnant women, the value is <11.0 g/dl

² Excludes pregnant women and women with a birth in the preceding 2 months

Table 73 Knowledge and prevention of HIV/AIDS

Percentage of women and men age 15-49 who have heard of HIV or AIDS and who, in response to prompted questions, say that people can reduce the risk of getting HIV/AIDS by using a condom every time they have sexual intercourse, who know that the risk of HIV/AIDS can be reduced by limiting sex to one uninfected partner, who have a comprehensive knowledge about HIV/AIDS, and who know that HIV/AIDS can be transmitted from a mother to a baby, by background characteristics, Kerala, 2015-16

	Percentage who have heard of HIV or AIDS		have heard of HIV a condom every or AIDS time they have sex		know tha of HIV/A be redu limiting s uninf	Percentage who know that the risk of HIV/AIDS can be reduced by limiting sex to one uninfected partner ¹		Percentage who have a comprehensive knowledge about HIV/AIDS ²		Percentage who know that HIV/AIDS can be transmitted from a mother to her baby		mber
Background characteristic	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men
Age												
15-24	99.2	97.6	71.7	78.2	75.2	76.2	41.8	46.3	83.5	68.2	655	583
15-19	99.8	96.5	63.5	70.6	68.7	68.2	33.4	38.7	79.2	60.9	346	306
20-24	98.6	98.8	81.0	86.7	82.4	85.0	51.1	54.7	88.3	76.2	309	278
25-29	99.4	98.9	84.7	86.6	83.5	81.5	54.3	49.7	86.7	78.8	361	261
30-39	99.1	99.1	74.8	88.7	77.4	86.8	43.8	55.4	84.9	78.9	709	522
40-49	97.6	98.8	70.1	87.6	72.3	85.8	37.4	51.7	81.6	77.6	647	490
Residence												
Urban	99.3	99.0	74.9	86.1	77.4	86.0	42.5	51.8	84.2	81.1	1,154	869
Rural	98.3	98.2	73.5	83.7	75.2	79.3	43.6	49.8	83.6	70.0	1,218	987
Schooling												
No schooling	(70.1)	*	(8.7)	*	(8.0)	*	(1.2)	*	(64.5)	*	20	11
<5 years complete	90.3	94.7	40.2	81.0	44.5	86.5	10.6	31.0	63.3	57.4	66	54
5-9 years complete	98.1	98.2	63.4	80.2	67.8	80.8	29.0	39.3	78.1	70.9	596	482
10-11 years complete	99.0	97.8	72.5	82.1	76.3	79.0	38.9	48.8	80.3	71.1	551	480
12 or more years complete	100.0	99.6	83.7	89.6	83.8	85.6	55.1	60.0	90.2	81.5	1,139	829
Regular media exposure ³												
Yes	99.0	98.6	75.0	85.0	76.9	82.7	44.2	51.0	84.7	75.3	2,287	1,837
No	92.0	(96.1)	53.3	(60.9)	61.8	(59.1)	12.3	(26.8)	63.7	(65.3)	86	18
Marital status												
Never married	99.8	98.1	70.6	80.2	73.8	77.6	42.2	46.5	83.5	71.2	530	850
Currently married	98.5	98.9	75.3	88.6	77.7	86.6	44.0	54.4	84.5	78.6	1,751	992
Widowed/divorced/separated/deserted	97.0	*	72.6	*	64.8	*	31.5	*	75.3	*	91	13
											(Continued

Table 73 Knowledge and prevention of HIV/AIDS—Continued

Percentage of women and men age 15-49 who have heard of HIV or AIDS and who, in response to prompted questions, say that people can reduce the risk of getting HIV/AIDS by using a condom every time they have sexual intercourse, who know that the risk of HIV/AIDS can be reduced by limiting sex to one uninfected partner, who have a comprehensive knowledge about HIV/AIDS, and who know that HIV/AIDS can be transmitted from a mother to a baby, by background characteristics, Kerala, 2015-16

	Percenta have hea or A				Percentage who know that the risk of HIV/AIDS can be reduced by limiting sex to one uninfected partner ¹		Percentage who have a comprehensive knowledge about HIV/AIDS ²		Percentage who know that HIV/AIDS can be transmitted from a mother to her baby		Nur	nber
Background characteristic	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men
Whether been away from home for one month or more at a time in the past 12 months ⁴												
Been away	99.2	99.8	77.9	85.4	79.0	78.7	42.9	48.4	89.3	72.2	143	213
Not been away	98.7	98.4	73.9	84.7	76.1	82.9	43.1	51.1	83.6	75.6	2,229	1,643
Whether been away from home for six months or more at a time in the past 12 months ⁴												
Been away	98.0	100.0	68.2	89.0	74.9	80.7	25.9	50.7	87.1	74.9	50	107
Not been away	98.8	98.4	74.3	84.5	76.3	82.5	43.5	50.8	83.8	75.2	2,323	1,749
Religion												
Hindu	98.7	98.2	75.2	84.6	76.4	81.0	45.0	52.4	84.9	75.1	1,288	1,073
Muslim	98.6	98.5	71.3	85.2	76.6	83.8	38.3	45.0	80.6	73.6	728	518
Christian	99.4	99.9	76.7	84.7	75.7	85.3	46.1	55.2	87.3	78.4	354	263
Caste/tribe												
Scheduled caste	98.5	93.4	67.9	75.6	66.3	73.0	33.7	33.8	81.4	69.0	216	172
Scheduled tribe	79.4	89.9	36.0	62.8	34.9	65.6	23.7	21.5	51.6	54.8	33	37
Other backward class	99.2	99.4	74.7	87.2	78.0	84.4	44.4	52.4	82.5	73.8	1,340	914
Other	98.9	99.6	77.2	87.0	78.0	83.8	44.4	55.8	88.2	80.7	777	698
Don't know	*	(90.5)	*	(47.5)	*	(68.1)	*	(20.8)	*	(50.5)	6	35
Total	98.8	98.5	74.2	84.8	76.3	82.4	43.1	50.8	83.9	75.2	2,372	1,856

Note: Total includes women/men belonging to "other" religions, who are not shown separately.

¹ Partner who has no other sex partners

² Comprehensive knowledge means knowing that consistent use of condoms every time they have sex and having just one uninfected faithful sex partner can reduce the chance of getting HIV/AIDS, knowing that a healthy-looking person can have HIV/AIDS, and rejecting two common misconceptions about transmission or prevention of HIV/AIDS

³ Exposure to radio, television, or newspapers/magazines at least once a week or cinema at least once a month

⁴ For women, visits to parental/in-laws' home excluded

() Based on 25-49 unweighted cases

Table 74 Accepting attitudes toward those living with HIV/AIDS

Among women and men age 15-49 who have heard of HIV/AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristics, Kerala, 2015-16

		Percenta	ge of wome	en who:				Percer	ntage of men	who:		
Background characteristic	Are willing to care for a relative with HIV/AIDS in own home	from a shopkeeper	but is not sick should be allowed to continue	got infected with			Are willing to care for a relative with HIV/AIDS in own home	Would buy fresh vegetables from a shopkeeper or vendor who has HIV/AIDS	HIV/AIDS but is not sick should		Express accepting attitudes on all four indicators	Numbe of men who hav heard o HIV/AID
V						,		,				
Age	76.0		00.0		20.4	6.40	74.6		05.0	40.0	0.6.6	
15-24	76.0	77.0	88.9	44.4	29.4	649	71.6	76.7	85.3	42.0	26.6	570
15-19	78.7	75.0	87.4	44.7	28.7	345	68.2	71.7	82.7	40.0	22.5	295
20-24	73.0	79.3 78.6	90.7	44.0	30.2	304	75.4 76.3	82.2	88.0	44.1	31.1	274
25-29 30-39	82.1 74.6	70.0 71.3	92.9 84.2	45.7 44.6	30.2 28.4	359 702	76.3	83.3 79.1	89.2 88.3	45.0 43.2	31.0 31.8	258 517
40-49	73.4	66.8	82.7	44.0 46.1	24.3	632	71.8	76.1	85.0	45.1	28.1	484
Residence												
Urban	74.5	71.3	87.0	46.5	28.6	1,146	73.6	78.2	88.2	39.5	24.6	860
Rural	77.1	74.2	86.0	43.7	27.2	1,197	75.0	78.1	85.1	47.2	33.0	969
Schooling												
<5 years complete	70.1	52.4	77.0	56.3	20.9	60	57.8	58.3	74.3	29.3	15.4	51
5-9 years complete	73.0	63.3	78.4	45.5	23.9	585	70.6	69.6	82.1	44.6	25.8	474
10-11 years complete	74.7	73.9	84.3	45.8	29.1	546	73.2	78.7	86.5	44.7	29.4	469
12 or more years complete	78.5	78.6	92.6	44.1	29.9	1,139	78.5	84.2	90.2	43.1	31.8	825
Regular media exposure ¹												
Yes	76.1	73.1	86.9	45.2	28.3	2,264	74.5	78.4	86.9	43.5	29.2	1,811
No	67.8	63.0	72.5	42.4	15.3	79	(62.6)	(54.4)	(59.4)	(48.6)	(16.3)	18
											Co	ntinued

Table 74 Accepting attitudes toward those living with HIV/AIDS—Continued

Among women and men age 15-49 who have heard of HIV/AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristics, Kerala, 2015-16

		Percenta	ge of wome	en who:				Percer	ntage of men	who:		
Background characteristic	Are willing to care for a relative with HIV/AIDS in own home	fresh	but is not sick should be allowed to continue	got infected with			Are willing to care for a relative with HIV/AIDS in own home	Would buy fresh vegetables from a shopkeeper or vendor who has HIV/AIDS	Say that a female teacher who has HIV/AIDS but is not sick should be allowed to continue teaching	Would not want to keep secret that a family member got infected with HIV/AIDS	Express accepting attitudes on all four indicators	Number of men who have heard of HIV/AIDS
	78.3	77 5	90.8	47.5	20.7	529	72.0	78.2	85.5	41 7	27.7	834
Never married Currently married	76.3 74.4	77.5 71.1	90.8 84.8	47.5 44.7	30.7 27.1	529 1,725	72.9 75.5	78.2	87.6	41.7 45.5	30.5	034 981
Widowed/divorced/separated/deserted	88.8	76.5	92.0	39.8	25.4	89	/ J.J *	/0.1	*	40.J *	*	13
Religion												
Hindu	79.9	76.8	89.1	49.0	32.6	1,271	76.3	79.5	86.6	46.1	32.9	1,053
Muslim	68.3	63.1	78.8	41.3	21.7	718	70.1	74.6	86.2	36.3	20.7	510
Christian	76.3	78.1	92.6	38.5	23.3	352	74.4	79.6	87.4	46.9	29.3	263
Caste/tribe												
Scheduled caste	77.1	70.0	86.8	49.8	31.8	212	74.0	68.4	77.7	45.2	27.1	160
Scheduled tribe	66.2	48.6	65.2	40.4	24.2	26	69.7	49.5	68.4	50.3	32.4	33
Other backward class	75.8	70.9	85.0	45.3	28.1	1,329	70.5	76.5	86.7	45.9	30.2	908
Other	75.8	77.6	89.4	43.4	26.4	769	80.1	84.5	89.5	39.3	28.1	695
Don't know	*	*	*	*	*	6	(65.5)	(66.7)	(82.6)	(52.4)	(23.9)	32
Total	75.8	72.8	86.4	45.1	27.9	2,343	74.3	78.2	86.6	43.6	29.1	1,829

Note: Total includes women/men have no schooling and women/men belonging to "other" religions, who are not shown separately.

¹ Exposure to radio, television, or newspapers/magazines at least once a week or cinema at least once a month

() Based on 25-49 unweighted cases

Table 75 Sexual behaviour, HIV testing, blood transfusion, and injections

Indicators of higher risk sexual behaviour, use of blood transfusion, prior HIV testing, and any injections for women and men age 15-49 by residence, Kerala, 2015-16

_		Urban			Rural			Total	
Behaviour	Male	Female	Total	Male	Female	Total	Male	Female	Total
Among those who had sexual intercourse in the									
past 12 months:									
Percentage who had two or more partners in the									
past 12 months	1.1	0.4	0.7	2.6	0.1	1.1	2.0	0.2	0.9
Percentage who had higher-risk intercourse in the	o -	0.4	1.2		0.0	o =		0.4	1.0
past 12 months ¹	2.7	0.4	1.3	5.7	0.3	2.5	4.4	0.4	1.9
Percentage who had two or more partners and									
higher-risk intercourse in the past 12 months ¹	1.1	0.4	0.7	2.2	0.1	0.9	1.7	0.2	0.8
Number who had sexual intercourse in the past 12									
months	409	691	1,100	507	768	1,276	917	1,459	2,376
Among those who had higher-risk sexual									
intercourse in the past 12 months:									
Percentage who reported using a condom at last									
higher-risk intercourse ¹	*	*	*	(54.5)	*	(51.9)	(56.0)	*	(53.7
Number who had higher-risk sexual intercourse in									
the past 12 months	11	3	14	29	3	32	40	6	46
Among those who have ever had sexual									
intercourse:	1.2	1.6	4 5	1.0	1.4	4 -	4 -	4 -	4 -
Mean number of sexual partners in lifetime	1.3	1.6	1.5	1.6	1.4	1.5	1.5	1.5	1.5
Number who have ever had sexual intercourse	426	836	1,263	525	927	1,452	952	1,763	2,715
Among all men:									
Percentage who paid for sexual intercourse in the									
past 12 months	0.6	na	na	1.5	na	na	1.1	na	na
Number of men	869	na	na	987	na	na	1,856	na	na
Among women with a birth in the past five years									
who received ANC during pregnancy, percentage									
who were tested for HIV during ANC	na	46.1	na	na	49.8	na	na	47.9	na
Number of women with a birth in the past five									
years who received ANC during pregnancy	na	242	na	na	238	na	na	480	na
								Cor	ntinued

Table 75 Sexual behaviour, HIV testing, blood transfusion, and injections-Continued

		Urban			Rural		Total			
Behaviour	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Percentage ever tested for HIV prior to NFHS-4	12.9	45.4	31.4	10.7	41.6	27.7	11.7	43.4	29.5	
Percentage who have ever had a blood transfusion Percentage who received any injection in the past	6.2	5.1	5.6	6.4	6.3	6.3	6.3	5.7	6.0	
12 months	39.6	28.1	33.0	32.8	29.3	30.9	36.0	28.7	31.9	
Mean number of injections in the past 12 months	4.2	2.1	3.2	2.8	3.0	2.9	3.5	2.6	3.0	
Number of respondents	869	1,154	2,023	987	1,218	2,206	1,856	2,372	4,228	
Among those who received an injection in the past 12 months, percentage for whom for the last										
injection, a disposable syringe was used	91.7	93.9	92.8	80.6	92.9	87.1	86.4	93.4	89.9	
Number who received an injection in the past 12 months	344	324	668	324	357	681	668	680	1,349	

Indicators of higher risk sexual behaviour, use of blood transfusion, prior HIV testing, and any injections for women and men age 15-49 by residence, Kerala, 2015-16

na = Not applicable

ANC = Antenatal care

¹ Sexual intercourse with a partner who was neither a spouse nor who lived with the respondent

() Based on 25-49 unweighted cases

Table 76 Knowledge of HIV/AIDS and sexual behaviour among youth

Indicators of HIV/AIDS knowledge and sexual behaviour for women and men age 15-24 by residence, Kerala, 2015-16

		Urban			Rural			Total	
- Knowledge and behaviour	Male	Female	Total	Male	Female	Total	Male	Female	Total
Knowledge									
Percentage with comprehensive knowledge about HIV/AIDS ¹ Percentage who know a condom	45.7	36.5	40.6	46.8	47.6	47.2	46.3	41.8	43.9
source	79.2	55.8	66.2	83.7	56.3	70.0	81.6	56.0	68.1
Sexual behaviour									
Percentage who have ever had sexual intercourse	2.8	28.3	17.0	5.8	27.3	16.5	4.4	27.8	16.8
Percentage who had sexual intercourse before age 15	0.0	0.0	0.0	0.4	0.1	0.2	0.2	0.1	0.1
HIV testing, injections and blood transfusion									
Percentage ever tested for HIV prior to NFHS-4 Percentage who have ever had a	1.9	17.1	10.4	1.8	15.4	8.6	1.9	16.3	9.5
blood transfusion	3.9	0.6	2.1	7.2	3.6	5.4	5.7	2.0	3.7
Percentage who received any injection in the past 12 months Mean number of injections in the	45.5	29.8	36.7	33.6	28.6	31.1	39.2	29.2	33.9
past 12 months	2.3	1.8	2.1	3.6	2.6	3.1	2.9	2.1	2.6
Number age 15-24	274	345	618	310	310	620	583	655	1,238
Among those who received an injection in the past 12 months, percentage for whom a disposable									
syringe was used Number who received an injection	87.3	93.7	90.2	79.9	94.3	86.5	83.9	94.0	88.5
in the past 12 months	124	103	227	104	89	193	228	191	420
Among those who have ever had sexual intercourse, percentage who used a condom at first sexual									
intercourse Number who have ever had sexual	*	12.0	13.6	*	8.9	13.3	(33.8)	10.6	13.4
intercourse	8	99	107	18	86	104	26	185	211
Among those who had sexual intercourse in the past 12 months, percentage who had higher-risk									
sexual intercourse in the past 12 months ² Number who had sexual	*	0.0	3.2	*	2.1	13.1	*	1.0	8.3
intercourse in the past 12 months	5	76	81	15	71	86	20	147	167
Among the never married: Percentage who have never had sexual intercourse Percentage who had sexual	98.1	98.9	98.5	95.8	98.9	97.1	96.9	98.9	97.8
intercourse in the past 12 months Number never married	1.0 271	0.0 248	0.5 520	3.4 305	0.7 226	2.2 531	2.2 576	0.3 475	1.4 1,051

¹Comprehensive knowledge means knowing that consistent use of condoms every time they have sex and having just one uninfected faithful sex partner can reduce the chance of getting HIV/AIDS, knowing that a healthy-looking person can have HIV/AIDS, and rejecting two common misconceptions about transmission or prevention of HIV/AIDS

2 Sexual intercourse with a partner who was neither a spouse nor lived with the respondent

() Based on 25-49 unweighted cases

Table 77 Prevalence of tuberculosis

Number of persons per 100,000 usual household residents suffering from any tuberculosis and medically treated tuberculosis by age, sex, and main type of cooking fuel, according to residence, Kerala, 2015-16

-	Number of pe	ersons per 100,000	suffering from:		
Age and sex	Tuberculosis ¹	Medically treated tuberculosis ²	Number of usual residents		
	U	RBAN			
Sex					
Female	199	186	10,795		
Male	485	485	10,347		
Age					
< 15	127	127	4,205		
15-59	286	286	13,672		
60 +	837	792	3,264		
Cooking fuel					
Solid fuel ³	541	541	7,736		
Other fuel	223	212	13,405		
Total	339	332	21,141		
	R	URAL			
Sex					
Female	198	198	12,181		
Male	618	610	11,836		
Age					
< 15	181	181	4,769		
15-59	284	284	15,576		
60 +	1,208	1,182	3,672		
Cooking fuel					
Solid fuel ³	576	573	12,082		
Other fuel	232	227	11,935		
Total	405	401	24,017		
	Т	OTAL			
Sex					
Female	199	192	22,976		
Male	556	552	22,182		
Age					
< 15	156	156	8,975		
15-59	285	285	29,248		
60 +	1,033	999	6,936		
Cooking fuel					
Solid fuel ³	562	561	19,819		
Other fuel	227	219	25,340		
Total	374	369	45,158		

¹ Includes medically treated tuberculosis

² Suffering from tuberculosis and received medical treatment

³ Includes coal, lignite, charcoal, wood, straw/shrubs/grass, agricultural crop waste, and dung cakes

Table 78 Knowledge and attitudes toward tuberculosis

Percentage of women and men age 15-49 who have heard of tuberculosis (TB), and among those who have heard of TB, percentage with specific knowledge and beliefs, according to background characteristics, Kerala, 2015-16

			Among w	omen who have he who:	ard of TB, p	percentage	_			Among	men who have hea who:	rd of TB, pe	ercentage	
	Number of women	Report that TB is spread through the air by coughing or sneezing	Have misconceptions about transmission of TB ¹	Believe that TB can be cured	Would want a family member's TB kept secret	Number of women who have heard of TB	Percentage o men who have heard of TB	f Number of men	Report that TB is spread through the air by coughing or sneezing	Have misconceptions about transmission of TB ¹	Believe that TB can be cured	Would want a family member's TB kept secret	Number of men who have heard of TB	
Age														
15-19	94.9	1,504	82.5	21.6	75.4	16.0	1,427	77.5	306	74.5	7.7	71.1	13.7	237
20-34	97.3	4,690	87.3	18.9	84.8	15.4	4,561	88.5	791	78.6	11.6	83.9	12.6	700
35-49	96.9	4,840	84.6	22.8	83.8	17.0	4,689	91.3	759	77.7	11.4	87.3	13.4	693
Residence														
Urban	97.2	5,172	85.9	19.3	83.5	16.7	5 <i>,</i> 030	88.2	869	78.4	12.7	85.1	17.2	766
Rural	96.4	5,861	85.1	22.6	82.8	15.7	5,647	87.5	987	76.8	9.4	82.0	9.5	864
Schooling														
No schooling	79.0	106	38.7	28.4	45.2	18.9	84	*	11	*	*	*	*	5
<5 years complete	88.2	246	58.9	19.8	67.3	17.1	217	85.6	54	(58.8)	(11.7)	(75.6)	(10.7)	46
5-9 years complete	95.6	2,716	75.5	23.2	75.8	17.0	2,597	89.0	482	71.3	12.7	82.7	16.5	429
10-11 years complete 12 or more years	96.9	2,689	85.5	20.6	82.4	16.0	2,605	84.7	480	75.1	10.7	81.3	11.2	407
complete	98.1	5,276	92.3	20.1	88.5	15.8	5,174	89.6	829	83.8	10.0	85.7	12.5	743
Religion														
Hindu	97.1	6,229	86.4	21.0	84.4	14.1	6,050	89.7	1,073	78.2	9.6	84.2	12.4	962
Muslim	96.4	3,077	80.4	21.2	77.8	19.2	2,967	81.8	518	70.0	13.8	80.3	13.5	423
Christian	96.2	1,725	91.1	20.7	87.9	18.1	1,659	92.4	263	88.2	11.4	85.9	15.4	243
Caste/tribe														
Scheduled caste	95.6	1,075	81.7	18.8	80.8	15.7	1,027	82.9	172	74.1	9.2	82.0	15.3	142
Scheduled tribe	81.7	145	63.9	24.3	67.4	14.9	118	66.1	37	(78.4)	(10.7)	(74.4)	(6.6)	25
Other backward class	97.5	6,108	84.3	21.0	81.5	16.2	5,953	90.8	914	74.5	12.7	83.6	12.1	830
Other	96.7	3,666	89.3	21.6	87.2	16.3	3,544	86.4	698	83.0	8.9	84.0	14.1	604
Don't know	(86.9)	40	(69.2)	(13.4)	(65.1)	(10.4)	35	(85.7)	35	(68.5)	(12.2)	(83.4)	(17.3)	30
Total	96.8	11,033	85.5	21.0	83.1	16.2	10,677	87.8	1,856	77.6	10.9	83.5	13.1	1,630

Note: Total includes women and men belonging to "other" religions, who are not shown separately.

¹ Misconceptions about the transmission of TB include that it can be spread by sharing utensils, by touching a person with TB, through food, through sexual contact, through mosquito bites, or through any other means except through the air when coughing or sneezing

() Based on 25-49 unweighted cases

Table 79 Health insurance coverage among women and men

Percentage of women and men age 15-49 who are covered by any health scheme or health insurance
by background characteristics, Kerala, 2015-16

Background characteristic	Percentage of women covered by any health scheme or health insurance	Number of women	Percentage of men covered by any health scheme or health insurance	Number of men
Age 15-19	37.9	1,504	26.2	306
20-24	37.7	1,504	20.2	278
25-34	40.2	3,171	29.8 34.0	513
35-49	45.5	4,840	36.8	759
Residence				
Urban	39.4	5,172	30.7	869
Rural	44.1	5,861	35.5	987
Schooling				
No schooling	42.9	106	*	11
<5 years complete	44.0	246	38.3	54
5-9 years complete	43.7	2,716	34.2	482
10-11 years complete	43.1	2,689	30.7	480
12 or more years complete	40.2	5,276	33.6	829
Religion				
Hindu	48.3	6,229	37.6	1,073
Muslim	29.6	3,077	23.2	518
Christian	40.7	1,725	35.0	263
Caste/tribe				
Scheduled caste	55.4	1,075	38.5	172
Scheduled tribe	61.1	145	39.8	37
Other backward class	39.5	6,108	35.3	914
Other	41.3	3,666	29.7	698
Don't know	(28.4)	40	(16.5)	35
Total age 15-49	41.9	11,033	33.2	1,856
Age 50-54	na	na	44.9	230
Total age 15-54	na	na	34.5	2,086

Note: Total includes women and men belonging to "other" religions, who are not shown separately.

na = Not applicable

() Based on 25-49 unweighted cases * Percentage not shown; based on fewer than 25 unweighted cases

Table 80 Source of health care and health insurance coverage among households

Percent distribution of households by the source of health care that household members generally use when they get sick, percentage of households with at least one usual member covered by health insurance or a health scheme, and among households with at least one usual member covered by health insurance or a health scheme, type of health insurance/scheme coverage, according to residence, Kerala, 2015-16

	Resid	lence	
Source	Urban	Rural	Total
Public health sector	62.5	71.9	67.5
Government/municipal hospital	44.1	47.7	46.1
Government dispensary	2.8	2.1	2.4
UHC/UHP/UFWC	0.4	0.4	0.4
CHC/rural hospital/Block PHC	4.6	6.1	5.4
PHC/additional PHC	9.3	14.5	12.1
Sub-centre	0.2	0.5	0.3
Vaidya/hakim/homeopath (AYUSH)	0.9	0.6	0.7
Government mobile clinic	0.0	0.1	0.0
Other public health sector	0.1	0.1	0.1
NGO or trust hospital/clinic	0.1	0.1	0.1
Private health sector	37.3	27.9	32.3
Private hospital	32.3	23.8	27.8
Private doctor/clinic	4.4	3.6	3.9
Private paramedic	0.1	0.0	0.1
Vaidya/hakim/homeopath (AYUSH)	0.4	0.4	0.4
Pharmacy/drugstore	0.1	0.1	0.1
Other source	0.1	0.1	0.1
Home treatment	0.0	0.1	0.1
Other	0.1	0.0	0.1
Total	100.0	100.0	100.0
Health insurance			
Percentage of households in which at least one usual member is			
covered by a health scheme or health insurance	45.3	49.8	47.7
Number of households	5,382	6,173	11,555
Type of coverage among households in which at least one			
usual member is covered by a health scheme/health insurance			
Employees' State Insurance Scheme (ESIS)	5.2	2.9	3.9
Central Government Health Scheme (CGHS)	4.7	2.5	3.5
State health insurance scheme	2.4	2.2	2.3
Rashtriy Swasthy Bima Yojana (RSBY)	71.3	84.3	78.6
Community health insurance programme	0.7	0.6	0.6
Other health insurance through employer	1.7	1.1	1.3
Medical reimbursement from employer	1.4	0.7	1.0
Other privately purchased commercial health insurance	15.6	8.1	11.4
Other	0.9	0.3	0.5
Number of households	2,437	3,073	5,509

UHC = Urban health centre; UHP = Urban health post; UFWC = Urban family welfare centre; CHC = Community health centre; PHC = Primary health centre; AYUSH = Ayurveda, yoga and naturopathy, unani, siddha and homeopathy; ICDS = Integrated Child Development Services; NGO = Nongovernmental organization;

Table 81 Health problems

Number of women and men age 15-49 per 100,000 who reported that they have diabetes, asthma, goitre or any other thyroid disorder, any heart disease, or cancer, by background characteristics, Kerala, 2015-16

		Number o	of women per	100,000		_		Number	of men per 1	100,000		_
Background characteristic	Diabetes	Asthma	Goitre or any other thyroid disorder	Any heart disease	Cancer	Number of women	Diabetes	Asthma	Goitre or any other thyroid disorder	Any heart disease	Cancer	Number of men
Age												
15-19	0	1,594	3,445	219	98	1,504	377	418	0	690	0	306
20-34	1,603	2,099	6,779	586	71	4,690	1,886	461	562	927	0	791
35-49	8,314	4,631	10,850	2,371	279	4,840	8,418	1,815	570	1,992	136	759
Residence												
Urban	4,395	3,274	8,421	1,508	163	5,172	4,441	1,033	41	1,288	0	869
Rural	4,269	3,024	7,836	1,152	168	5,861	4,194	986	852	1,355	105	987
Schooling												
No schooling	6,913	3,511	4,131	600	399	106	*	*	*	*	*	11
<5 years complete	13,207	8,611	6,463	5,568	227	246	5,124	3,026	658	0	1,921	54
5-9 years complete	6,925	4,122	8,349	2,473	320	2,716	6,395	1,070	647	1,573	0	482
10-11 years complete	4,075	3,201	9,406	1,324	149	2,689	4,319	945	257	1,908	0	480
12 or more years complete	2,655	2,343	7,484	539	88	5,276	3,095	891	490	944	0	829
Marital status												
Never married	336	1,634	3,709	385	136	2,503	1,287	579	376	1,098	0	850
Currently married	5,469	3,493	9,325	1,583	175	8,147	6,779	1,389	562	1,339	104	992
Widowed/divorced/separated/deserted	6,150	5,500	11,029	1,796	171	383	*	*	*	*	*	13
Religion												
Hindu	4,080	3,405	8,548	1,370	141	6,229	3,985	875	630	1,116	96	1,073
Muslim	4,334	2,374	6,434	1,242	192	3,077	4,205	1,460	223	1,085	0	518
Christian	5,196	3,562	9,532	1,271	209	1,725	5,877	674	327	2,650	0	263
Caste/tribe												
Scheduled caste	3,783	3,178	9,177	2,143	152	1,075	4,765	0	1,353	2,276	0	172
Scheduled tribe	3,753	2,887	5,146	611	710	145	2,832	0	0	0	0	37
Other backward class	4,257	2,844	7,826	1,310	154	6,108	4,553	1,204	126	943	113	914
Other	4,562	3,670	8,356	1,135	169	3,666	3,746	1,103	758	1,724	0	698
Don't know	(10,572)	(0)	(11,050)	(0)	(0)	40	(8,545)	(0)	(0)	(0)	(0)	35
Total age 15-49	4,328	3,141	8,110	1,319	166	11,033	4,310	1,008	473	1,324	56	1,856
Age 50-54	na	na	na	na	na	na	17,142	1,463	1,553	5,634	0	230
Total age 15-54	na	na	na	na	na	na	5,725	1,058	592	1,799	50	2,086

Note: Total includes women and men belonging to "other" religions, who are not shown separately.

na = Not applicable () Based on 25-49 unweighted cases

Table 82 Health examinations

Percentage of women age 15-49 who have ever undergone specific health examinations by background characteristics, Kerala, 2015-16

	Т	Number of		
Background characteristic	Cervix	Breast	Oral cavity	women
Age				
15-19	6.3	4.7	41.3	1,504
20-24	33.6	19.8	48.8	1,519
25-34	76.1	39.6	51.7	3,171
35-49	77.4	42.5	53.7	4,840
Residence				
Urban	61.7	34.0	51.5	5,172
Rural	61.0	32.9	50.1	5,861
Schooling				
No schooling	67.2	27.4	32.9	106
<5 years complete	74.1	34.2	43.3	246
5-9 years complete	69.7	36.0	47.9	2,716
10-11 years complete	62.1	33.0	51.0	2,689
12 or more years complete	55.8	32.3	52.8	5,276
Religion				
Hindu	60.3	34.2	50.7	6,229
Muslim	64.3	32.3	51.4	3,077
Christian	59.6	32.2	50.0	1,725
Caste/tribe				
Scheduled caste	59.0	30.8	46.7	1,075
Scheduled tribe	62.9	30.4	40.6	145
Other backward class	62.6	33.3	51.3	6,108
Other	59.6	34.4	51.5	3,666
Don't know	(74.5)	(35.8)	(41.7)	40
Total	61.3	33.4	50.8	11,033

Note: Total includes women belonging to "other" religions, who are not shown separately. () Based on 25-49 unweighted cases

Table 83.1 Blood pressure status: Women

Among women age 15-49, prevalence of hypertension, percent distribution of blood pressure values, and percentage having normal blood pressure and taking medication to lower blood pressure, by background characteristics, Kerala, 2015-16

		Normal	Pre-hypertensive		Hypertensive				
Background characteristic	Prevalence of hypertension ¹	SBP <120 mmHg and DBP <80 mmHg	SBP 120-139 mmHg or DBP 80-89 mmHg	Stage 1: SBP 140-159 mmHg or DBP 90-99 mmHg	Stage 2: SBP 160-179 mmHg or DBP 100-109 mmHg	Stage 3: SBP ≥180 mmHg or DBP >110 mmHg	Total	Percentage with normal blood pressure and taking medicine to lower blood pressure	Number of women
Age									
15-19	1.2	88.2	10.9	0.8	0.1	0.0	100.0	0.3	1,497
20-24	3.2	81.7	16.0	2.1	0.1	0.2	100.0	0.8	1,513
25-29	4.2	77.5	19.5	2.5	0.3	0.1	100.0	0.8	1,621
30-34	5.2	69.2	26.8	3.4	0.3	0.3	100.0	0.5	1,534
35-39	10.0	60.0	32.1	6.5	0.6	0.8	100.0	0.9	1,695
40-44	17.1	46.3	41.5	9.8	1.8	0.5	100.0	1.6	1,529
45-49	23.1	43.6	39.2	13.1	2.4	1.7	100.0	1.2	1,588
Residence									
Urban	8.4	68.0	26.0	4.8	0.6	0.6	100.0	0.9	5,141
Rural	10.0	65.1	27.3	6.1	1.0	0.5	100.0	0.9	5,836
Schooling									
No schooling	21.6	43.9	39.5	14.2	1.5	0.9	100.0	1.6	106
<5 years complete	21.2	48.7	35.7	12.5	2.6	0.5	100.0	1.8	245
5-9 years complete	13.3	56.6	33.1	7.8	1.5	1.0	100.0	1.0	2,698
10-11 years complete	8.5	66.8	26.8	5.1	0.7	0.5	100.0	0.8	2,677
12 or more years complete	6.7	72.6	22.7	4.0	0.4	0.3	100.0	0.8	5,251
Religion									
Hindu	8.8	66.7	26.6	5.3	0.8	0.5	100.0	0.8	6,207
Muslim	9.0	66.9	26.6	5.4	0.7	0.4	100.0	1.0	3,053
Christian	11.0	64.5	27.4	6.3	1.0	0.8	100.0	0.8	1,715
Caste/tribe									
Scheduled caste	8.5	68.5	24.6	5.5	0.9	0.4	100.0	0.8	1,071
Scheduled tribe	7.1	65.8	28.4	5.2	0.3	0.3	100.0	0.8	145
Other backward class	9.0	66.5	26.7	5.6	0.7	0.4	100.0	0.8	6,074
Other	10.0	65.6	27.3	5.5	0.9	0.7	100.0	0.9	3,648
Don't know	(5.7)	(72.6)	(21.6)	(0.0)	(5.7)	(0.0)	100.0	(0.0)	39
Total	9.2	66.4	26.7	5.5	0.8	0.5	100.0	0.9	10,977

Note: Total includes women belonging to "other" religions, who are not shown separately.

SBP = Systolic blood pressure; BP = Diastolic blood pressure

¹ A woman is classified as having hypertension if she has SBP levels \geq 140 mmHg or DBP \geq 90 mmHg at the time of the survey, or she is currently taking antihypertension medication to control blood pressure. The term hypertension as used in this table is not meant to be a clinical diagnosis of the disease, but rather to provide an indication of the disease burden in the population at the time of the survey.

() Based on 25-49 unweighted cases

Table 83.2 Blood pressure status: Men

Among men age 15-49, prevalence of hypertension, percent distribution of blood pressure values, and percentage having normal blood pressure and taking medication to lower blood pressure, by background characteristics, Kerala, 2015-16

		Normal	Pre-hypertensive		Hypertensive			Percentage with normal	
Background characteristic	Prevalence of hypertension ¹	SBP <120 mmHg and DBP <80 mmHg	SBP 120-139 mmHg or DBP 80- 89 mmHg	Stage 1: SBP 140-159 mmHg or DBP 90-99 mmHg	Stage 2: SBP 160-179 mmHg or DBP 100-109 mmHg	Stage 3: SBP ≥180 mmHg or DBP >110 mmHg	Total	blood pressure and taking medicine to lower blood pressure	Number of men
Ago									
Age 15-19	2.0	77.4	21.1	1.5	0.0	0.0	100.0	0.4	304
20-24	4.4	61.6	34.6	3.8	0.0	0.0	100.0	0.4	277
25-29	5.9	49.7	45.5	4.6	0.0	0.0	100.0	0.0	260
30-34	12.7	46.2	42.6	7.8	3.1	0.4	100.0	0.6	251
35-39	14.0	38.5	48.0	11.2	0.9	1.5	100.0	0.0	262
40-44	19.6	32.9	52.6	9.2	3.2	2.0	100.0	1.1	235
45-49	25.2	28.8	51.1	16.4	2.8	0.9	100.0	1.6	251
Residence									
Urban	9.7	50.3	42.2	5.6	1.5	0.5	100.0	0.6	859
Rural	13.0	47.9	40.8	9.3	1.2	0.8	100.0	0.6	979
Schooling									
<5 years complete	28.3	36.1	42.9	19.9	0.0	1.1	100.0	4.7	54
5-9 years complete	14.8	42.1	44.5	10.2	1.8	1.4	100.0	0.5	476
10-11 years complete	11.8	52.2	37.4	7.6	2.0	0.8	100.0	0.4	474
12 or more years									
complete	8.3	51.7	42.1	5.2	0.8	0.2	100.0	0.5	823
Religion									
Hindu	12.9	46.6	42.2	8.5	1.5	1.1	100.0	0.4	1,061
Muslim	9.1	52.2	40.5	6.3	1.0	0.0	100.0	1.1	511
Christian	10.2	52.7	39.6	6.0	1.2	0.5	100.0	0.3	263
								Con	tinued

Table 83.2 Blood pressure status: Men-Continued

Among men age 15-49, prevalence of hypertension, percent distribution of blood pressure values, and percentage having normal blood pressure and taking medication to lower blood pressure, by background characteristics, Kerala, 2015-16

		Normal	Pre-hypertensive		Hypertensive			Percentage	
Background characteristic	Prevalence of hypertension ¹	SBP <120 mmHg and DBP <80 mmHg	SBP 120-139 mmHg or DBP 80- 89 mmHg	Stage 1: SBP 140-159 mmHg or DBP 90-99 mmHg	Stage 2: SBP 160-179 mmHg or DBP 100-109 mmHg	Stage 3: SBP ≥180 mmHg or DBP >110 mmHg	Total	with normal blood pressure and taking medicine to lower blood pressure	Number of men
Caste/tribe									
Scheduled caste	15.3	46.7	38.8	11.4	2.6	0.5	100.0	0.8	172
Scheduled tribe	18.6	37.1	44.2	18.0	0.0	0.6	100.0	0.0	35
Other backward class	12.5	51.7	38.1	8.0	1.3	0.9	100.0	1.0	902
Other	9.3	46.7	45.8	5.9	1.2	0.4	100.0	0.1	694
Don't know	(2.7)	(48.9)	(50.7)	(0.4)	(0.0)	(0.0)	100.0	(0.0)	35
Total age 15-49	11.5	49.0	41.5	7.5	1.3	0.7	100.0	0.6	1,838
Age 50-54	26.4	28.0	50.2	17.2	2.9	1.7	100.0	0.9	227
Total age 15-54	13.1	46.7	42.4	8.6	1.5	0.8	100.0	0.6	2,064

Note: Total includes men with no schooling and men belonging to "other' religions, who are not shown separately.

SBP = Systolic blood pressure; DBP = Diastolic blood pressure

¹ A man is classified as having hypertension if he has SBP levels \geq 140 mmHg or DBP \geq 90 mmHg at time of survey, or he is currently taking antihypertension medication to control blood pressure. The term hypertension as used in this table is not meant to be a clinical diagnosis of the disease, but rather to provide an indication of the disease burden in the population at the time of the survey.

() Based on 25-49 unweighted cases

Table 84.1 Random blood glucose levels: Women

Among women	age 15-49,	percent	distribution	of	random	blood	glucose	values,	by
background char	acteristics, Ke	rala, 2015	5-16						

	Random	blood gluce	ose values		
Background characteristic	≤140 mg/dl (normal)	141-160 mg/dl (high)	>160 mg/dl (very high)	Total	Number of women
A					
Age 15-19	98.3	1.2	0.5	100.0	1 475
20-24	96.3 96.9	1.2	0.5 1.6	100.0	1,475
					1,495
25-29	96.0	2.0 3.8	2.0	100.0	1,593
30-34	91.5		4.7	100.0	1,523
35-39	90.0	5.6	4.4	100.0	1,674
40-44	85.0	6.1	8.9	100.0	1,517
45-49	81.7	6.8	11.5	100.0	1,573
Residence					
Urban	91.6	3.6	4.8	100.0	5,069
Rural	91.0	4.2	4.8	100.0	5,781
Schooling					
No schooling	87.1	5.1	7.8	100.0	106
<5 years complete	82.0	6.3	11.7	100.0	239
5-9 years complete	88.5	4.4	7.1	100.0	2,652
10-11 years complete	91.6	3.7	4.8	100.0	2,655
12 or more years complete	93.0	3.6	3.3	100.0	5,198
Religion					
Hindu	91.4	3.9	4.7	100.0	6,185
Muslim	92.0	3.4	4.6	100.0	2,953
Christian	89.4	4.8	5.8	100.0	1,710
Caste/tribe					
Scheduled caste	91.4	3.7	4.9	100.0	1,069
Scheduled tribe	95.7	2.1	2.2	100.0	144
Other backward class	91.5	3.7	4.8	100.0	5,974
Other	90.8	4.3	4.9	100.0	3,624
Don't know	(85.0)	(1.9)	(13.1)	100.0	39
Total	91.3	3.9	4.8	100.0	10,850

Note: Total includes women belonging to "other" religions, who are not shown separately. () Based on 25-49 unweighted cases

Table 84.2 Random blood glucose levels: Men

Among men age 15-49, percent	distribution of	f random	blood	glucose	values,	by backgro	und
characteristics, Kerala, 2015-16							

	Random	blood gluce			
Background characteristic	≤140 mg/dl (normal)	141-160 mg/dl (high)	>160 mg/dl (very high)	Total	Number of men
Age					
15-19	96.0	2.4	1.6	100.0	295
20-24	93.8	3.4	2.8	100.0	271
25-29	86.8	8.6	4.6	100.0	259
30-34	87.2	7.3	5.5	100.0	245
35-39	86.8	6.6	6.6	100.0	261
40-44	77.1	11.6	11.3	100.0	231
45-49	77.5	9.1	13.4	100.0	249
Residence					
Urban	86.3	9.0	4.7	100.0	841
Rural	87.4	4.9	7.6	100.0	969
Schooling					
<5 years complete	83.9	4.6	11.5	100.0	54
5-9 years complete	85.5	6.7	7.8	100.0	473
10-11 years complete	91.1	3.8	5.1	100.0	462
12 or more years complete	85.4	8.9	5.7	100.0	811
Religion					
Hindu	86.4	8.1	5.5	100.0	1,056
Muslim	88.1	4.5	7.3	100.0	491
Christian	86.5	6.1	7.4	100.0	261
Caste/tribe					
Scheduled caste	85.1	4.7	10.3	100.0	172
Scheduled tribe	93.4	6.1	0.5	100.0	35
Other backward class	88.0	5.9	6.1	100.0	886
Other	85.0	8.8	6.1	100.0	683
Don't know	(97.2)	(2.8)	(0.0)	100.0	35
Total age 15-49	86.9	6.8	6.3	100.0	1,810
Age 50-54	77.2	10.4	12.4	100.0	225
Total age 15-54	85.8	7.2	7.0	100.0	2,035

Note: Total includes men who have no schooling and men belonging to "other" religion, who are not shown separately. () Based on 25-49 unweighted cases

Table 85 Tobacco and alcohol use by women and men

Percentage of women and men age 15-49 by their use of tobacco and alcohol, percent distribution of those who smoke cigarettes or *bidis* by number of cigarettes/*bidis* smoked in the 24 hours preceding the survey, and among those who drink alcohol, the percent distribution of the frequency of alcohol consumption, by residence, Kerala, 2015-16

_	Women			Men			
Tobacco use	Urban	Rural	Total	Urban	Rural	Total	
Use of tobacco/alcohol							
Smokes cigarettes	0.0	0.0	0.0	21.1	21.6	21.4	
Smokes bidis	0.0	0.0	0.0	3.3	7.0	5.3	
Smokes cigars or pipe	0.0	0.0	0.0	1.9	2.2	2.1	
Smokes hookah	0.0	0.0	0.0	0.1	0.1	0.1	
Chews <i>paan</i> with tobacco Uses other chewing	0.1	0.4	0.3	1.4	1.5	1.5	
tobacco Uses gutkha or paan	0.1	0.8	0.5	0.6	2.4	1.5	
masala with tobacco	0.0	0.1	0.1	1.1	1.4	1.2	
Uses khaini	0.0	0.0	0.0	0.8	1.3	1.1	
Uses snuff	0.0	0.1	0.0	0.3	0.0	0.1	
Uses other tobacco							
product	0.0	0.0	0.0	0.0	0.4	0.2	
Uses any type of tobacco	0.1	1.4	0.8	23.6	27.5	25.7	
Drinks alcohol	2.3	0.9	1.6	32.8	40.8	37.0	
Number of respondents	5,172	5,861	11,033	869	987	1,856	
Among those who smoke cigarettes/ <i>bidis</i> , number of cigarettes/ <i>bidis</i> smoked in the past 24 hours							
0	*	*	*	14.9	11.5	13.0	
1-2	*	*	*	24.5	24.1	24.3	
3-5	*	*	*	29.4	26.0	27.5	
6-9	*	*	*	13.9	11.1	12.4	
10 or more	*	*	*	14.2	24.6	19.9	
Don't know	*	*	*	3.0	2.7	2.8	
Total	100.0	100.0	100.0	100.0	100.0	100.0	
Number of cigarette/bidi							
smokers	1	0	2	186	230	417	
Among those who drink alcohol, frequency of drinking							
drinking	1 5	2.6	1.9	10.0	11.6	10.9	
Almost every day About once a week	1.5 7.2	2.6 6.7	1.9 7.0	38.3	40.2	10.9 39.4	
Less than once a week	91.3	6.7 90.7	7.0 91.1	50.3 51.8	40.2 48.2	39.4 49.7	
LESS UIAH UHLE A WEEK	31.3	90.7	91.1	51.0	40.2	49./	
Total	100.0	100.0	100.0	100.0	100.0	100.0	
Number who drink alcohol	122	54	176	285	402	687	

Table 86 Methods of menstrual protection

Percentage of women age 15-24 who use various methods of menstrual protection and percentage using a hygienic method, according to background characteristics, Kerala, 2015-16

_		Type of menstr	ual protection ¹		Percentage	
Background characteristic	Cloth	Locally prepared napkins	Sanitary napkins	Tampons	using a hygienic method ²	Number of women
Age						
15-19	49.1	6.5	85.3	1.0	90.8	1,504
20-24	46.9	6.1	84.0	0.5	89.2	1,519
Residence						
Urban	43.2	6.5	86.5	0.7	91.7	1,418
Rural	52.3	6.1	83.1	0.9	88.5	1,605
Schooling						
5-9 years complete	46.6	5.6	81.5	2.1	86.0	252
10-11 years complete	51.9	6.4	84.2	0.4	89.2	785
12 or more years complete	46.7	6.3	85.3	0.7	90.9	1,982
Religion						
Hindu	47.0	5.8	84.8	0.7	89.5	1,629
Muslim	55.3	5.6	84.4	1.1	89.1	951
Christian	35.9	9.4	85.0	0.3	93.9	443
Caste/tribe						
Scheduled caste	60.2	4.6	76.7	0.6	79.7	274
Scheduled tribe	63.8	3.3	67.7	0.0	71.0	46
Other backward class	50.6	6.4	86.0	0.8	91.3	1,726
Other	39.4	6.5	85.5	0.8	91.4	974
Total	48.0	6.3	84.7	0.8	90.0	3,023

Note: Table is based on women age 15-24 who have ever menstruated. Total includes women who have no schooling or <5 years of schooling, women belonging to "other" religions, and women who don't know their caste/tribe, who are not shown separately.

¹ Respondents may report multiple methods so the sum may exceed 100 percent

² Locally prepared napkins, sanitary napkins and tampons are considered to be hygienic methods of protection

Table 87 Employment and cash earnings of women and men

Percentage of women and men age 15-49 who were employed at any time in the 12 months preceding the survey and percent distribution of women and men employed in the 12 months preceding the survey by type of earnings and sector of employment, according to age, Kerala, 2015-16

			Percent distribution of employed respondents by type of earnings			_	Percent distribution of employed respondents by sector				
Age	Percentage employed	Number of respondents	Cash only	Cash and in-kind	In-kind only	Not paid	Total	Agriculture	Non- agriculture	Total	Number of employed respondents
					WOMEN	1					
15-19	2.1	346	*	*	*	*	*	*	*	*	7
20-24	14.5	309	(90.8)	(0.0)	(1.0)	(8.3)	100.0	(11.3)	(88.7)	100.0	45
25-29	21.1	361	98.5	0.6	0.0	0.8	100.0	4.4	95.6	100.0	76
30-34	25.9	330	96.7	0.0	0.0	3.3	100.0	7.1	92.9	100.0	85
35-39	25.9	379	97.4	1.1	0.0	1.5	100.0	10.0	90.0	100.0	98
40-44	30.6	328	95.6	1.5	0.8	2.1	100.0	12.9	87.1	100.0	100
45-49	27.7	320	92.7	4.3	0.0	3.0	100.0	14.3	85.7	100.0	89
Total	21.1	2,372	95.1	1.4	0.2	3.3	100.0	10.7	89.3	100.0	501
					MEN						
15-19	8.0	306	(93.6)	(6.4)	(0.0)	(0.0)	100.0	(18.0)	(82.0)	100.0	24
20-24	50.0	278	98.8	0.8	0.0	0.4	100.0	2.7	97.3	100.0	139
25-29	88.4	261	97.1	2.8	0.0	0.1	100.0	4.8	95.2	100.0	231
30-34	97.7	252	94.5	5.1	0.0	0.3	100.0	4.8	95.2	100.0	246
35-39	98.8	270	95.9	4.1	0.0	0.0	100.0	7.8	92.2	100.0	266
40-44	97.6	236	95.1	4.9	0.0	0.0	100.0	11.2	88.8	100.0	231
45-49	97.4	253	94.0	6.0	0.0	0.0	100.0	15.8	84.2	100.0	247
Total	74.6	1,856	95.6	4.3	0.0	0.1	100.0	8.4	91.6	100.0	1,384

() Based on 25-49 unweighted cases * Percentage not shown; based on fewer than 25 unweighted cases

Table 88 Control over and magnitude of women's cash earnings

Percentage of currently married women and men age 15-49 by who decide how women's and men's cash earnings are used and by the magnitude of women's cash earnings compared with their husband's cash earnings, according to background characteristics, Kerala, 2015-16

		Percentage of	currently married	d women who r	eport that they	:		Percentage of	currently mari	ried men who	report that:	
Background characteristic	Alone or jointly with their husband decide how their own earnings are used	Number employed for cash	Alone or jointly with their husband decide how their husband's earnings are used		about the	Number employed for cash and whose husbands are employed for cash	They alone or jointly with their wife decide how their wife's earnings are used	Number of men with wives who are employed for cash	Their wife alone or jointly with them decides how their own earnings are used	Number employed for cash	earns more or about	Number employed for cash and whose wives are employed for cash
Age												
20-29	95.3	59	66.4	277	(46.8)	38	*	17	57.8	90	*	17
30-39	90.8	157	69.3	465	39.0	118	80.6	75	55.4	422	40.5	74
40-49	89.3	157	66.8	315	33.3	97	80.7	85	55.3	459	31.7	83
Residence												
Urban	91.5	190	68.0	492	40.6	128	82.0	93	53.6	446	39.4	92
Rural	90.1	184	67.1	578	35.3	126	79.5	84	57.3	525	26.0	82
Schooling												
<5 years complete	*	17	(52.5)	29	*	9	*	8	39.8	49	*	8
5-9 years complete	90.9	100	63.0	306	26.7	77	68.1	44	52.8	365	(28.5)	43
10-11 years complete 12 or more years	89.5	59	65.4	252	(23.6)	37	(93.6)	37	56.7	229	(22.8)	36
complete	93.5	189	73.1	474	51.0	125	82.7	88	60.2	322	39.7	86
Religion												
Hindu	91.6	264	69.3	609	42.1	184	79.2	123	55.1	549	28.7	120
Muslim	(94.4)	34	63.5	300	*	19	*	22	48.5	279	*	22
Christian	86.1	74	68.4	159	24.8	50	(80.6)	32	71.3	141	(45.1)	30
Caste/tribe												
Scheduled caste	90.9	62	71.3	100	(38.5)	40	*	21	56.1	92	*	20
Scheduled tribe	*	11	(55.5)	17	*	7	*	2	(49.5)	20	*	2
Other backward class	89.5	171	65.6	586	33.4	106	81.1	67	54.7	491	30.3	66
Other	94.0	130	70.3	366	44.4	100	85.0	87	56.8	358	37.3	85
Total	90.8	373	67.5	1,071	38.0	254	80.8	177	55.6	971	33.1	173

Note: Total includes women/men age 15-19, women/men who have no schooling, women/men belonging to " other" religions, and women/men who don't know their caste/tribe, who are not shown separately.

() Based on 25-49 unweighted cases

Table 89 Decision making

	Accord	ling to women, per	son who usu	ally makes th	he decisio	n	Accord	ling to men, persor	n who usu	ally makes th	e decisio	n
Decision	Mainly respondent	Respondent and husband jointly	Mainly husband	Someone else	Other	Total	Mainly respondent	Respondent and wife jointly	Mainly wife	Someone else	Other	Total
					URBAN							
Own health care Major household	16.7	63.9	19.1	0.0	0.2	100.0	38.5	39.9	21.6	0.0	0.0	100.0
purchases Visits to her family or	12.7	68.2	15.7	2.6	0.8	100.0	27.2	62.2	10.6	0.1	0.0	100.0
relatives	9.3	74.8	14.7	0.7	0.4	100.0	na	na	na	na	na	na
					RURAL							
Own health care Major household	15.4	65.2	19.1	0.0	0.2	100.0	32.6	46.2	21.2	0.1	0.0	100.0
purchases Visits to her family or	9.9	68.2	19.7	1.9	0.3	100.0	21.1	67.5	11.1	0.3	0.1	100.0
relatives	7.0	76.3	16.1	0.7	0.0	100.0	na	na	na	na	na	na
					TOTAL							
Own health care Major household	16.0	64.6	19.1	0.0	0.2	100.0	35.3	43.3	21.4	0.0	0.0	100.0
purchases Visits to her family or	11.2	68.2	17.8	2.2	0.5	100.0	23.9	65.0	10.8	0.2	0.1	100.0
relatives	8.1	75.6	15.4	0.7	0.2	100.0	na	na	na	na	na	na
na = Not applicable												

Percent distribution of currently married women and men age 15-49 by who usually make decisions about specific issues, by residence, Kerala, 2015-16

Table 90 Decision making by background characteristics

	Making major household purchases 72.1 79.4	Visits to her family or relatives 79.5	Percentage who participate in all three decisions	three		Own health	Making major	Percentage who participate	who participate	
5 6	79.4	79.5		n none of the three	Number C of women	care	household purchases	in both decisions	in neither decision	Number of men
5 6	79.4	79 5								
6		1 5.5	65.0	14.3	152	*	*	*	*	8
		83.9	66.2	7.1	315	73.4	85.4	69.8	11.0	88
3	79.7	84.1	67.4	7.6	666	78.6	89.7	73.3	5.0	428
	82.2	84.6	69.9	6.8	594	79.7	88.8	74.0	5.6	469
6	80.9	84.2	69.1	8.3	836	78.4	89.3	73.5	5.7	458
6	78.2	83.3	66.3	7.6	915	78.8	88.6	73.2	5.8	534
9)	(57.9)	(64.4)	(29.1)	(19.8)	17	*	*	*	*	6
7	72.5	75.2	55.9	17.1	56	78.8	90.9	71.5	1.8	51
6	76.2	78.7	60.1	9.5	495	77.2	87.6	70.9	6.1	374
8	80.0	82.5	68.9	7.9	394	82.8	88.4	75.9	4.7	235
9	82.1	88.5	73.4	6.1	789	76.8	90.4	74.1	6.9	327
2	80.2	88.1	67.0	3.3	383	78.8	89.1	73.6	5.7	973
7	81.0	89.0	68.2	3.0	373	78.8	89.1	73.6	5.7	971
	79.2	82.5	67.8	9.2	1,368	*	*	*	*	20
	2	2 80.2 7 81.0	2 80.2 88.1 7 81.0 89.0	2 80.2 88.1 67.0 7 81.0 89.0 68.2	2 80.2 88.1 67.0 3.3 7 81.0 89.0 68.2 3.0	2 80.2 88.1 67.0 3.3 383 7 81.0 89.0 68.2 3.0 373	2 80.2 88.1 67.0 3.3 383 78.8 7 81.0 89.0 68.2 3.0 373 78.8	2 80.2 88.1 67.0 3.3 383 78.8 89.1 7 81.0 89.0 68.2 3.0 373 78.8 89.1	2 80.2 88.1 67.0 3.3 383 78.8 89.1 73.6 7 81.0 89.0 68.2 3.0 373 78.8 89.1 73.6	2 80.2 88.1 67.0 3.3 383 78.8 89.1 73.6 5.7 7 81.0 89.0 68.2 3.0 373 78.8 89.1 73.6 5.7

Percentage of currently married women and men age 15-49 who usually make specific decisions either by themselves or jointly with their spouse, by background characteristics, Kerala, 2015-16

Table 90 Decision making by background characteristics—Continued

Percentage of currently married women and men age 15-49 who usually make specific decisions either by themselves or jointly with their spouse, by background characteristics, Kerala, 2015-16

	make spe	e of women v cific decision with their hu	s alone or		Percentage		make specific	nen who usually decisions alone ith their wife			
Background characteristic	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	Number of women	Own health care	Making major household purchases	Percentage who participate in both decisions	Percentage who participate in neither decision	Number of men
Number of living											
children											
0	84.2	77.1	86.8	71.5	7.8	183	72.6	90.6	69.1	5.9	130
1-2	80.9	79.5	83.4	67.5	7.9	1,252	78.0	89.4	73.7	6.3	706
3-4	77.8	82.6	83.7	66.9	7.8	293	86.7	84.8	75.4	3.8	141
Household structure ¹											
Nuclear	82.5	80.9	85.3	69.5	7.1	742	79.4	88.1	73.1	5.6	397
Non-nuclear	79.3	78.4	82.6	66.3	8.5	1,009	78.0	89.5	73.4	5.9	596
Religion											
Hindu	83.2	79.7	85.4	70.3	7.2	936	78.5	91.1	74.6	5.1	558
Muslim	75.2	76.9	78.8	62.2	11.2	557	78.2	83.7	69.7	7.8	290
Christian	83.6	83.9	88.0	70.0	3.9	255	79.5	90.8	74.9	4.5	142
Caste/tribe											
Scheduled caste	74.2	74.2	77.9	58.6	12.3	150	78.0	89.0	73.4	6.3	96
Scheduled tribe	50.0	62.0	68.9	41.1	27.0	28	(80.2)	(73.0)	(66.7)	(13.5)	20
Other backward class	80.3	79.8	82.6	67.9	8.3	996	78.4	89.6	72.6	4.6	498
Other	84.3	81.3	87.8	70.9	5.4	574	78.7	89.2	74.4	6.6	366
Total	80.6	79.5	83.7	67.6	7.9	1,751	78.6	88.9	73.3	5.8	992

Note: Total includes women/men age 15-19; employed, not for cash; who have 5 or more living children; belonging to "other" religions; and who don't know their caste/tribe, who are not shown separately.

¹ Nuclear households are households comprised of a married couple or a man or a woman living alone or with unmarried children (biological, adopted, or fostered) with or without unrelated individuals

() Based on 25-49 unweighted cases

Table 91 Women's access to money and credit

Percentage of women age 15-49 who have access to money, who know of a microcredit programme, who have taken a loan from a microcredit programme and who are allowed to go to three specified places alone by background characteristics, Kerala, 2015-16

	Women's ac	cess to money		ledge and use of programmes	Percentage of	
	Percentage who have money that they can decide	Percentage who have a bank or savings account that	Percentage who know of a microcredit	Percentage who have taken a loan from a microcredit	women allowed to go to three specified places	Number of
Background characteristic	how to use	they themselves use	programme	programme	alone ¹	women
Age						
15-19	11.6	51.2	47.8	0.1	2.8	346
20-24	30.1	67.5	67.6	2.0	7.8	309
25-29	48.0	72.8	69.0	5.7	9.4	361
30-39	46.9	74.0	71.4	12.9	13.4	709
40-49	48.2	77.4	71.4	17.5	18.4	647
Residence						
Urban	42.2	70.3	64.7	9.3	9.5	1,154
Rural	38.0	70.8	69.3	10.3	14.2	1,218
Schooling						
No schooling	(28.7)	(61.5)	(64.9)	(12.9)	(8.1)	20
< 5 years complete	40.9	68.1	56.6	8.2	21.1	66
5-9 years complete	34.9	65.1	68.5	15.4	12.6	596
10-11 years complete	33.7	64.7	64.0	11.5	9.4	551
12 or more years complete	46.1	76.6	68.5	6.0	12.2	1,139
Employment (past 12						
months)						
Employed	84.7	86.2	81.8	19.1	20.6	501
Employed, for cash	86.3	86.7	81.3	19.0	21.2	483
Not employed	28.1	66.4	63.2	7.3	9.5	1,871
Number of living children						
0	27.3	63.9	60.7	2.5	7.6	732
1-2	48.1	74.9	72.0	14.1	15.1	1,310
3-4	37.4	69.2	61.7	9.2	8.9	307

Table 91 Women's access to money and credit-Continued

Percentage of women age 15-49 who have access to money, who know of a microcredit programme, who have taken a loan from a microcredit programme, and who are allowed to go to three specified places alone by background characteristics, Kerala, 2015-16

	Women's ac	cess to money		/ledge and use of programmes	Percentage of	
Background characteristic	Percentage who have money that they can decide how to use	Percentage who have a bank or savings account that they themselves use	Percentage who know of a microcredit programme	Percentage who have taken a loan from a microcredit programme	women allowed to go to three specified places alone ¹	Number of women
Household structure ²						
Nuclear	37.8	71.4	64.3	10.9	12.9	1,115
Non-nuclear	42.1	69.8	69.6	8.8	10.9	1,257
Religion						
Hindu	45.5	74.5	70.9	12.3	13.5	1,288
Muslim	27.2	60.2	57.0	5.1	6.6	728
Christian	46.5	77.7	73.8	10.3	17.0	354
Caste/tribe						
Scheduled caste	42.7	71.1	70.8	19.0	13.8	216
Scheduled tribe	27.3	70.2	62.5	8.2	8.6	33
Other backward class	37.3	69.1	66.3	9.1	10.5	1,340
						,
Other	44.8	73.0	68.0	8.6	13.6	777
Total	40.1	70.6	67.1	9.8	11.9	2,372

Note: Total includes women who are employed, not for cash; women with 5 or more children, women belonging to "other" religions, and women who don't know their caste/tribe, who are not shown separately.

¹ To the market, to the health facility, and to places outside the village/community

² Nuclear households are households comprised of a married couple or a man or a woman living alone or with unmarried children (biological, adopted, or fostered) with or without unrelated individuals

() Based on 25-49 unweighted cases

Table 92 Ownership of assets

Percentage of women and men age 15-49 who own a house or land either alone or jointly, percentage of women who own a mobile phone that they themselves use, and among women who own a mobile phone, percentage who can read SMS messages, according to background characteristics, Kerala, 2015-16

		Women			Among women who have	Mer	1	-	
Background characteristic	Own a house alone or jointly	Own land alone or jointly	Have a mobile phone that they themselves use	Number of women	a mobile phone, percentage who can read SMS messages	Number of women	Own a house alone or jointly	Own land alone or jointly	Number of men
Age									
15-19	11.8	9.8	40.0	346	98.4	138	24.7	22.3	306
20-24	16.1	16.0	90.3	309	97.7	279	32.3	27.9	278
25-29	24.6	24.2	93.7	361	94.7	339	36.5	28.6	261
30-34	34.9	26.0	89.1	330	87.0	294	50.8	33.4	252
35-39	31.6	28.6	87.8	379	80.5	332	64.3	44.9	270
40-44	40.5	28.3	88.2	328	71.5	289	72.8	51.3	236
45-49	45.5	30.8	79.6	320	62.5	254	81.3	46.2	253
esidence									
Urban	25.0	21.3	81.1	1,154	85.5	936	52.7	35.6	869
Rural	33.2	25.5	81.2	1,218	82.6	990	48.8	35.9	987
eligion									
Hindu	32.0	25.5	81.8	1,288	85.9	1,053	48.1	32.9	1,073
Muslim	24.0	19.5	79.2	728	78.9	576	53.1	38.8	518
Christian	30.1	24.3	83.0	354	87.7	294	55.6	40.9	263
Caste/tribe									
Scheduled caste	28.7	19.7	73.5	216	70.3	159	49.5	27.3	172
Scheduled tribe	37.1	13.8	59.5	33	(46.3)	20	56.8	33.4	37
Other backward class	26.3	20.5	82.5	1,340	83.1	1,106	45.7	31.9	914
Other	34.0	29.8	81.9	777	90.1	637	55.9	41.3	698
Don't know	*	*	*	6	*	5	(73.5)	(68.4)	35
chooling									
No schooling	(49.9)	(8.1)	(44.5)	20	*	9	*	*	11
<5 years complete	48.6	26.1	69.3	66	4.0	46	76.8	34.1	54
5-9 years complete	28.4	19.6	74.4	596	58.0	443	60.7	38.1	482
10-11 years complete	28.1	23.5	70.5	551	87.5	389	44.4	34.6	480
12 or more years complete	28.7	25.5	91.1	1,139	98.1	1,038	46.7	35.1	829
otal age 15-49	29.2	23.4	81.2	2,372	84.1	1,925	50.7	35.8	1,856
vge 50-54	na	na	na	na	na	na	90.3	51.2	230
otal age 15-54	na	na	na	na	na	na	55.0	37.5	2,086

Note: Total includes women/men belonging to "other" religions, who are not shown separately.

na = Not applicable

() Based on 25-49 unweighted cases

Table 93 Gender role attitudes

Percentage of women and men age 15-49 with specific attitudes toward wife beating and refusal by a wife to have sex with her husband by reason, and percentage of men age 15-49 who agree that a man can behave in specific ways if his wife refuses to have sex with him, according to marital status, Kerala, 2015-16

	Ever-m	narried	Never n	narried	Total		
Reason/behaviour	Women	Men	Women	Men	Women	Men	
Percentage who agree that a husband is							
justified in hitting or beating his wife if:							
She goes out without telling him	32.4	16.7	24.9	17.3	30.8	17.0	
She neglects the house or children	50.5	21.2	45.9	22.6	49.4	21.8	
She argues with him	31.4	11.6	25.2	16.5	30.0	13.8	
She refuses to have sexual intercourse with	5111	11.0	23.2	10.5	50.0	15.0	
him	14.3	4.3	11.8	7.6	13.7	5.8	
She doesn't cook properly	15.7	5.0	12.4	6.2	14.9	5.5	
He suspects her of being unfaithful	40.9	34.1	34.3	40.0	39.5	36.8	
She shows disrespect for in-laws	47.6	43.6	40.8	50.6	46.1	46.8	
she shows disrespect for in laws	17.0	15.0	10.0	50.0	10.1	10.0	
Percentage who agree with at least one			c= 0	C1 C	60.4	50.4	
specified reason	70.5	55.2	65.8	61.6	69.4	58.1	
Percentage who agree that a wife is							
justified in refusing to have sex with her							
husband when she:							
Knows her husband has a sexually							
transmitted disease	76.0	85.2	65.9	77.9	73.7	81.9	
Knows her husband has sex with other							
women	83.7	87.0	72.7	80.2	81.3	83.9	
Is tired or not in the mood	75.0	86.6	65.8	77.9	72.9	82.6	
Percentage who agree with all three reasons	63.9	74.1	58.7	64.6	62.8	69.8	
Percentage who agree with none of the three							
reasons	10.1	5.0	23.6	11.3	13.1	7.9	
Percentage who agree that when a wife							
refuses to have sex with her husband, he							
has the right to:	<i>ic</i> -	17.0		10 7		170	
Get angry and reprimand her	na	17.0	na	18.7	na	17.8	
Refuse to give her financial support	na	6.1	na	6.7	na	6.4	
Use force to have sex even if she doesn't						4.2	
want to	na	4.1	na	4.5	na	4.3	
Have sex with another woman	na	6.2	na	7.0	na	6.6	
Percentage who agree with all four							
behaviours	na	1.6	na	1.2	na	1.5	
Percentage who agree with none of the four							
pehaviours	na	78.7	na	76.4	na	77.6	
Number of respondents	1,842	1,006	530	850	2,372	1,856	
na = Not applicable							

Table 94 Gender role attitudes by background characteristics

Percentage of women and men age 15-49 who agree that a husband is justified in hitting or beating his wife for at least one specified reason, who agree that a wife is justified in refusing to have sex with her husband for all specified reasons, and percentage of men who agree that when a wife refuses to have sex with her husband does not have the right to any of the four specified behaviours, by background characteristics, Kerala, 2015-16

	for at least one specified		Percentage who agree that a wife is justified in refusing to have sex with her husband for all specified reasons ²		Percentage who agree that when a wife refuses to have sex with her husband, he does not have the right to any of the four specified behaviours ³	Number	
Background characteristic	Women	Men	Women	Men	Men	Women	Men
Age							
15-19	65.7	61.5	52.6	60.5	71.2	346	306
20-24	67.4	61.5	68.0	68.9	74.4	309	278
25-29	71.3	56.1	67.8	71.2	74.0	361	261
30-39	69.1	54.7	66.1	72.1	75.9	709	522
40-49	71.8	58.7	59.2	72.9	76.0	647	490
Residence							
Urban	67.7	56.9	65.3	69.8	73.3	1,154	869
Rural	71.1	59.2	60.3	69.7	75.8	1,218	987
Schooling							
No schooling	(82.0)	*	(21.4)	*	*	20	11
<5 years complete	76.7	59.3	59.4	71.2	73.6	66	54
5-9 years complete	75.3	61.4	60.5	69.2	74.9	596	482
10-11 years complete	67.1	53.6	58.6	68.7	73.5	551	480
12 or more years complete	66.8	58.5	66.9	70.8	75.4	1,139	829
Employment (past 12 months)							
Employed	72.2	57.0	67.8	72.4	76.1	501	1,384
Employed, for cash	72.1	57.0	67.3	72.4	76.1	483	1,382
Not employed	68.7	61.3	61.4	62.0	70.4	1,871	472
Marital status							
Never married	65.8	61.6	58.7	64.6	70.7	530	850
Currently married	70.9	55.1	63.7	74.2	78.2	1,751	992
Widowed/divorced/separated/deserted	62.5	*	69.1	*	*	91	13

Table 94 Gender role attitudes by background characteristics—Continued

Percentage of women and men age 15-49 who agree that a husband is justified in hitting or beating his wife for at least one specified reason, who agree that a wife is justified in refusing to have sex with her husband for all specified reasons, and percentage of men who agree that when a wife refuses to have sex with her husband, the husband does not have the right to any of the four specified behaviours, by background characteristics, Kerala, 2015-16

	Percentage who agree that a husband is justified in hitting or beating his wife for at least one specified reason ¹ Women Men		that a wife in refusing with her h	e who agree is justified to have sex iusband for ed reasons ²	Percentage who agree that when a wife refuses to have sex with her husband, he does not have the right to any of the four specified behaviours ³	Number	
Background characteristic	Women	Men	Women	Men	Men	Women	Men
Number of living children							
0	66.6	60.2	59.2	65.8	71.8	732	984
1-2	70.3	55.9	65.0	72.5	78.3	1,310	716
3-4	73.4	53.3	61.4	83.9	78.0	307	142
Household structure ⁴							
Nuclear	70.9	59.2	61.8	67.6	75.0	1,115	917
Non-nuclear	68.2	57.0	63.6	71.9	74.3	1,257	939
Religion							
Hindu	70.6	58.7	63.1	69.5	73.0	1,288	1,073
Muslim	70.1	56.4	62.8	68.6	76.2	728	518
Christian	63.9	59.3	61.4	72.7	78.1	354	263
Caste/tribe							
Scheduled caste	80.0	64.3	58.9	67.6	76.0	216	172
Scheduled tribe	66.4	60.8	40.2	59.6	63.2	33	37
Other backward class	70.1	53.8	64.3	70.4	77.0	1,340	914
Other	65.7	62.1	62.3	70.0	73.5	777	698
Don't know	*	(55.4)	*	(70.9)	(43.2)	6	35
Total	69.4	58.1	62.8	69.8	74.7	2,372	1,856

Note: Total includes women/men who are employed, not for cash; with 5 or more living children; and belonging to "other" religions, who are not shown separately

¹ Specified reasons are: she goes out without telling him, she neglects the house or children, she argues with him, she refuses to have sexual intercourse with him, she doesn't cook properly, he suspects she is unfaithful, and she shows disrespect for in-laws.

² Specified reasons are: knows husband has a sexually transmitted disease, knows husband has sex with other women, and is tired or not in the mood.

³ Specified behaviours are: gets angry and reprimands her, refuses to give her financial support, uses force to have sex, and has sex with another woman.

⁴ Nuclear households are households comprised of a married couple or a man or a woman living alone or with unmarried children (biological, adopted, or fostered) with or without unrelated individuals.

() Based on 25-49 unweighted cases

Table 95 Experience of physical and sexual violence

Percentage of women age 15-49 who have ever experienced physical or sexual violence; among those who have experienced physical violence, the person committing the violence; and among those who have experienced sexual violence, the person committing the violence the first time, by marital status, Kerala, 2015-16

Гуре of violence/perpetrator	Ever-married	Never married	Total
Type of violence experienced			
Physical violence only	10.8	7.6	10.1
Sexual violence only	1.2	1.2	1.2
Physical and sexual violence	3.7	1.9	3.3
Physical or sexual violence	15.8	10.7	14.7
Number of women	1,363	384	1,747
Person committing physical violence ¹			
Current husband	88.9	*	75.1
Former husband	0.8	*	0.7
Father/step-father	7.8	*	15.6
Mother/step-mother	6.0	*	12.5
Sister/brother	2.0	*	3.1
Other relative	3.2	*	2.7
Former boyfriend	0.8	*	1.2
Teacher	0.3	*	0.6
Other	0.0	*	0.2
Number who experienced physical violence since age 15	199	37	235
Person committing sexual violence the first time			
Current husband	90.2	*	76.5
Former husband	3.2	*	2.7
Current/former boyfriend	0.0	*	0.7
Father/step-father	0.0	*	4.8
Other relative	1.7	*	1.7
Family friend	0.7	*	4.1
Stranger	0.7	*	3.5
Other	3.5	*	6.0
Number who experienced sexual violence	68	12	80

Note: All women were asked about their experience of physical violence since age 15. Ever-married women were also asked about their experience of spousal physical violence at any age.

¹ Women can report more than one person who committed the violence

Table 96 Experience of violence during pregnancy

Among women age 15-49 who have ever been pregnant, percentage who have ever experienced physical violence during pregnancy, by background characteristics, Kerala, 2015-16

Background characteristic	Percentage who experienced violence during	Number of women who have ever been
	pregnancy	pregnant
Age		
20-24	0.5	75
25-29	0.6	204
30-39	1.1	491
40-49	2.1	469
Residence		
Urban	0.9	599
Rural	1.8	653
Marital status		
Currently married	1.1	1,191
Widowed/divorced/separated/deserted	3.4	60
Number of living children		
0	(1.0)	38
1-2	1.3	968
3-4	1.6	231
Schooling		
<5 years complete	12.7	46
5-9 years complete	1.8	372
10-11 years complete	0.7	310
12 or more years complete	0.4	512
Religion		
Hindu	1.8	664
Muslim	0.4	404
Christian	1.7	183
Caste/tribe		
Scheduled caste	2.9	104
Scheduled tribe	(1.8)	21
Other backward class	1.1	708
Other	1.4	415
Total	1.3	1,252

Note: Total includes women age 15-19, never married women, women with 5 or more living children, women who have no schooling, women belonging to "other" religions, and women who don't know their caste/tribe, who are not shown separately. () Based on 25-49 unweighted cases

Table 97 Forms of spousal violence

Percentage of ever-married women age 15-49 who have experienced various forms of violence committed by their husband ever and in the 12 months preceding the survey, Kerala, 2015-16

		lı	In the past 12 months				
Type of violence	Ever ¹	Often	Sometimes	Often or sometimes			
Physical violence							
Any form of physical violence	13.0	1.7	6.4	8.1			
Pushed her, shook her, or threw something at her	8.8	1.3	3.9	5.2			
Twisted her arm or pulled her hair	3.5	0.7	1.0	1.7			
Slapped her	7.0	0.7	3.7	4.4			
Punched her with his fist or with something that could hurt							
her	3.0	0.6	1.3	1.9			
Kicked her, dragged her, or beat her up	1.9	0.5	0.8	1.3			
Tried to choke her or burn her on purpose	0.9	0.1	0.6	0.7			
Threatened her or attacked her with a knife, gun, or any							
other weapon	0.5	0.0	0.4	0.4			
Sexual violence							
Any form of sexual violence	4.5	0.7	2.5	3.2			
Physically forced her to have sexual intercourse with him							
even when she did not want to	3.1	0.5	2.0	2.4			
Physically forced her to perform any sexual acts she did not							
want to	1.4	0.3	0.6	0.9			
Forced her with threats or in any other way to perform							
sexual acts she did not want to	3.0	0.6	1.3	1.9			
Emotional violence							
Any form of emotional violence	8.7	1.5	4.7	6.2			
Said or did something to humiliate her in front of others	4.6	1.1	2.1	3.2			
Threatened to hurt or harm her or someone close to her	3.0	0.8	1.1	2.0			
Insulted her or made her feel bad about herself	7.3	1.1	4.0	5.1			
Any form of physical and/or sexual violence	14.3	1.9	7.6	9.5			
Any form of physical and sexual violence	3.2	0.5	1.4	1.8			
Any form of physical and/or sexual and/or emotional violence	16.5	2.5	9.3	11.9			
Any form of physical and sexual and emotional violence	2.3	0.5	1.0	1.4			
Any violence by women against their husband ²	1.7	0.3	0.8	1.0			
Number of ever-married women	1,363	1,363	1,363	1,363			

Note: Husband refers to the current husband for currently married women and the most recent husband for widowed, divorced, separated, or deserted women.

¹ Includes in the past 12 months

 2 Any violence by women against their husband when he was not already beating or physically hurting her

Table 98 Spousal violence by background characteristics

Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their husband, according to background characteristics, Kerala, 2015-16

Background characteristic	Emotional violence	Physical violence	Sexual violence	Physical or sexual violence	Emotional, physical, or sexual violence	Number of women
A						
Age 20-24	3.2	3.0	3.1	5.1	6.9	104
25-29	4.4	5.9	2.2	5.1 7.4	0.9 9.8	232
30-39	10.5	14.3	6.3	15.8	9.0 17.6	515
40-49	10.5	17.5	4.3	18.5	21.2	492
Residence						
Urban	9.3	12.3	4.6	13.7	16.6	638
Rural	8.2	13.5	4.5	14.8	16.4	726
Schooling						
<5 years complete	16.2	27.9	8.8	29.0	31.2	50
5-9 years complete	15.8	21.5	6.8	23.7	28.1	387
10-11 years complete	7.7	12.9	3.0	13.9	15.3	333
12 or more years complete	4.0	6.1	3.5	7.1	8.3	580
Employment (past 12 months)						
Not employed	5.8	10.1	3.5	11.4	12.9	1,036
Employed for cash	18.6	22.4	8.1	23.8	28.3	318
Marital status						
Currently married	7.7	11.8	4.1	13.3	15.5	1,290
Widowed	16.4	19.6	10.4	19.6	21.2	56
Marital duration ¹						
Married only once	7.3	11.6	3.8	12.7	15.0	1,256
0-4 years	1.5	2.9	2.3	4.1	4.5	217
5-9 years	4.7	6.7	2.1	7.9	10.5	208
10+ years	9.5	15.1	4.6	16.2	18.8	832
Married more than once	(18.6)	(17.1)	(14.5)	(27.3)	(31.0)	40
Number of living children						
0	8.2	10.8	2.3	11.1	11.9	150
1-2 3-4	8.6 9.6	12.7 15.1	4.2 7.6	14.0 17.6	16.7 18.8	967 231
Household structure ²						
Nuclear	12.2	16.9	5.7	17.9	20.4	575
Non-nuclear	6.2	10.9	3.7	17.9	13.7	788
	0.2	10.1	3./	11.0	13./	/ 00
Religion Hindu	9.4	14.8	4.3	15.8	18.0	723
Muslim	9.4 6.5	8.7	4.3 4.1	15.8	10.0	440
Christian	0.5 11.5	15.6	4.1 6.4	18.0	21.2	440 198
						Continued

Table 98 Spousal violence by background characteristics—Continued

Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their husband, according to background characteristics, Kerala, 2015-16

Background characteristic	Emotional violence	Physical violence	Sexual violence	Physical or sexual violence	Emotional, physical, or sexual violence	Number of women
Caste/tribe						
Scheduled caste	17.2	23.7	4.9	24.9	29.2	113
Scheduled tribe	(26.2)	(27.3)	(9.3)	(27.3)	(34.5)	23
Other backward class	8.0	12.6	4.5	13.6	15.6	773
Other	7.0	10.3	4.4	12.3	14.1	450
Respondent's father beat her mother						
Yes	19.6	27.0	9.6	30.2	36.3	214
No	6.4	10.0	3.4	11.0	12.5	1,137
Total	8.7	13.0	4.5	14.3	16.5	1,363

Note: Husband refers to the current husband for currently married women and the most recent husband for widowed, divorced, separated, or deserted women. Total includes women age 15-19; women who have no schooling, women who are employed, not for cash; divorced/separated/deserted women; women with 5 or more living children; women belonging to "other" religions; women who don't know their caste/tribe; and women who don't know whether their father beat their mother, who are not shown separately.

¹ Currently married women only

² Nuclear households are households comprised of a married couple or a man or a woman living alone or with unmarried children (biological, adopted, or fostered) with or without unrelated individuals

() Based on 25-49 unweighted cases

Table 99 Spousal violence by husband's characteristics and empowerment indicators

Percentage of ever-married women age 15-49 who have ever suffered emotional, physical, or sexual violence committed by their husband, according to his characteristics, marital characteristics, and selected empowerment indicators, Kerala, 2015-16

Background characteristic	Emotional violence	Physical violence	Sexual violence	Physical or sexual violence	Emotional, physical, or sexual violence	Number of women
	violence	violence	Jexual Molence	Sexual Violence	Jexual Molence	wonnen
Husband's schooling						
No schooling	(27.3)	(26.0)	(23.6)	(30.0)	(31.0)	20
<5 years complete	15.1	15.5	7.6	18.0	22.9	99
5-9 years complete	13.5	20.3	5.3	21.2	24.5	469
10-11 years complete	4.9	8.7	4.3	11.1	11.8	351
12 or more years complete	4.4	6.9	2.2	7.4	9.1	418
Husband's alcohol consumption						
Does not drink	4.6	5.6	2.1	6.7	8.7	898
Gets drunk sometimes	12.7	22.8	6.5	24.8	27.8	379
Gets drunk often	36.2	47.5	22.0	48.8	49.6	83
Spousal age difference ¹						
Wife 1-4 years younger	10.9	14.5	5.2	15.7	18.8	371
Wife 5-9 years younger	7.0	9.8	3.9	11.2	13.6	629
Wife 10+ years younger	5.4	11.9	2.9	13.4	14.1	258
Spousal schooling difference						
Husband has more schooling	9.5	15.5	3.3	16.9	19.7	290
Wife has more schooling	8.4	13.0	5.3	14.4	16.6	690
Both have equal schooling	8.9	10.9	3.9	12.0	13.7	371
Number of marital control						
behaviours displayed by husband ²						
0	4.4	8.5	2.1	9.4	11.1	1,065
1-2	14.4	20.1	7.2	22.7	26.3	244
3-4	(63.3)	(61.7)	(27.5)	(69.1)	(77.5)	39
Number of decisions in which women participate ³						
0	14.2	16.8	9.2	18.6	21.1	111
1-2	9.5	14.1	5.5	17.4	20.8	325
3	6.1	10.3	3.0	11.0	12.7	853
Number of reasons for which wife- beating is justified ⁴						
0	5.3	7.7	4.1	9.4	11.1	404
1-2	9.2	15.9	4.7	17.3	18.6	342
3-4	9.8	14.3	3.7	14.6	17.1	377
5-6	12.8	15.3	5.9	18.0	22.7	175
7	10.8	16.1	7.5	17.0	19.4	66
						Continued

Table 99 Spousal violence by husband's characteristics and empowerment indicators—Continued

Percentage of ever-married women age 15-49 who have ever suffered emotional, physical, or sexual violence committed by their husband, according to his characteristics, marital characteristics, and selected empowerment indicators, Kerala, 2015-16

Background characteristic	Emotional violence	Physical violence	Sexual violence	Physical or sexual violence	Emotional, physical, or sexual violence	Number of women
Number of reasons given for refusing to have sexual intercourse with husband ⁵						
0	10.9	14.3	3.9	14.3	17.8	145
1-2	7.9	11.9	3.2	13.1	15.9	354
3	8.7	13.1	5.2	14.8	16.5	865
Afraid of husband						
Most of the time	40.1	46.5	17.9	48.0	52.2	115
Sometimes	7.1	11.4	3.8	13.1	15.3	880
Never	2.8	6.1	2.2	6.6	8.1	368
Total	8.7	13.0	4.5	14.3	16.5	1,363

Note: Husband refers to the current husband for currently married women and the most recent husband for widowed, divorced, separated, or deserted women. Total includes currently married women whose husbands drink, but never get drunk, who are older or the same age as their husband, who have never attended school and whose husbands have never attended school, and for whom the number of marital control behaviours displayed by the husbands 5-6, who are not shown separately.

¹ Currently married women only

² Behaviours include: Is jealous or angry if she talks to other men, frequently accuses her of being unfaithful, does not permit her to meet her female friends, tries to limit her contact with her family, insists on knowing where she is at all times, and does not trust her with any money

³ Currently married women only. Decisions included are decisions about own health care, major household purchases, and visits to her family or relatives.

⁴ Reasons given for which wife beating is justified include: she goes out without telling him, she neglects the house or children, she argues with him, she refuses to have sexual intercourse with him, she doesn't cook properly, he suspects she is unfaithful, and she shows disrespect for in-laws

⁵ Reasons given for refusing to have sexual intercourse with husband include: she knows her husband has a sexually transmitted disease, she knows her husband has sex with other women, and she is tired or not in the mood

() Based on 25-49 unweighted cases

Table 100 Injuries to women due to spousal violence

Percentage of ever-married women age 15-49 who have experienced spousal violence by types of injuries resulting from what their husband did to them, the type of violence, and whether they have experienced the violence ever and in the 12 months preceding the survey, Kerala, 2015-16

		_				
Type of spousal violence experienced	Cuts, bruises, or aches	Severe burns	Eye injuries, sprains, dislocations, or minor burns	Deep wounds, broken bones, broken teeth, or any other serious injury	Any of these injuries	Number of ever- married women
Experienced physical violence ¹						
Ever ²	22.3	2.1	5.6	5.1	24.0	177
In the past 12 months	25.5	2.3	5.7	6.2	27.7	110
Experienced sexual violence						
Ever ²	27.3	0.8	5.8	7.5	27.3	62
In the past 12 months	(28.2)	(1.2)	(8.1)	(7.9)	(28.2)	44
Experienced physical or sexual violence						
Ever ²	21.3	1.9	5.1	4.6	22.8	195
In the past 12 months	23.8	2.0	4.8	5.3	25.7	130
Experienced physical and sexual violence						
Ever ²	(33.9)	(1.2)	(8.2)	(10.6)	(33.9)	44
In the past 12 months	(38.9)	(2.1)	(14.4)	(13.9)	(38.9)	25

Note: Husband refers to the current husband for currently married women and the most recent husband for widowed, divorced, separated, or deserted women.

¹ Excludes women who reported violence only in response to a direct question on violence during pregnancy

 $^{\rm 2}$ Includes violence in the past 12 months

() Based on 25-49 unweighted cases

Table 101 Help seeking

Percentage of women age 15-49 who have ever experienced physical or sexual violence by whether they have ever sought help, and among those who have sought help from any source, the source from which help was sought, according to the type of violence experienced and marital status, Kerala, 2015-16

	Type of violence experienced		Marital s			
Source	Physical only	Sexual only	Both physical and sexual	Ever-married	Never married	Total
Help seeking		<i>(</i>)				
Never sought help and never told anyone	54.7	(59.4)	47.9	59.1	*	53.5
Never sought help but told someone	20.1	(24.1)	12.7	19.3	*	18.8
Sought help	25.2	(16.5)	39.4	21.6	*	27.7
Don't know/missing	0.0	(0.0)	0.0	0.0	*	0.0
Number of women who experienced						
violence	177	22	58	216	41	257
Sources of help among those who sought any help ¹						
Own family	(71.7)	*	*	68.0	*	67.7
Husband's family	(23.9)	*	*	34.1	*	22.3
Current/former husband	(0.3)	*	*	0.3	*	0.2
Current/former boyfriend	(0.0)	*	*	0.0	*	0.0
Friend	(6.2)	*	*	7.5	*	12.9
Neighbour	(5.9)	*	*	11.4	*	9.2
Religious leader	(5.4)	*	*	7.0	*	4.6
Doctor/medical personnel	(0.0)	*	*	0.0	*	0.0
Police	(5.5)	*	*	11.9	*	7.8
Lawyer	(13.6)	*	*	14.9	*	9.8
Social service organization	(1.4)	*	*	5.5	*	3.6
Other	(0.0)	*	*	0.0	*	3.4
Number of women who experienced						
violence and sought help	45	4	23	47	25	71

¹ Women can report more than one source from which they sought help.

() Based on 25-49 unweighted cases

APPENDIX

ESTIMATES OF SAMPLING ERRORS

The estimates from a sample survey are affected by two types of errors: (1) non-sampling errors, and (2) sampling errors. Non-sampling 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 fourth National Family Health Survey (NFHS-4) to minimize this type of error, non-sampling 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 NFHS-4 is only one of many samples that could have been selected from the same population, using the same design and expected sample size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling errors are a measure of the variability among all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

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 NFHS-4 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 NFHS-4 is programmed in SAS. This procedure uses 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 total fertility rates and child mortality rates.

The Taylor linearization method treats any proportion or mean as a ratio estimate, r = y/x, where y represents the total sample value for variable y, and x represents the total number of cases in the group or subgroup under consideration. The variance of r is computed using the formula given below, with the standard error being the square root of the variance:

$$SE^{2}(r) = var(r) = \frac{1-f}{x^{2}} \sum_{h=1}^{H} \left[\frac{m_{h}}{m_{h}-1} \left(\sum_{i=1}^{m_{h}} z_{hi}^{2} - \frac{z_{h}^{2}}{m_{h}} \right) \right]$$

in which

$$z_{hi} = y_{hi} - rx_{hi}$$
, and $z_h = y_h - rx_h$

where <i>h</i>	represents the stratum, which varies from 1 to H ,
m_h	is the total number of clusters selected in the h^{th} stratum,
Yhi	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
f	is the overall sampling fraction, which is so small that it is ignored.

The Jackknife repeated replication method derives estimates of complex rates from each of several replications of the parent sample, and calculates standard errors for these estimates using simple formulae. Each replication considers all but one cluster in the calculation of the estimates. Pseudo-independent replications are thus created. In the NFHS-4 sample for Kerala, there were 533 clusters. Hence, 533 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 533 clusters,

 $r_{(i)}$ is the estimate computed from the reduced sample of 532 clusters (*i*th cluster excluded), and

k is the total number of clusters.

In addition to the standard error, the design effect (DEFT) for each estimate is also computed, 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. The relative standard error (SE/R) and confidence limits (R±2SE) for each estimate are also computed.

Sampling errors for NFHS-4 are calculated for selected variables considered to be of primary interest. The results are presented in this appendix for Kerala as a whole and for the urban and rural areas of the state. For each variable, the type of statistic (mean, proportion, rate, or ratio) and the base population are given in Table A.1. Table A.2 presents the value of the statistic (R), its standard error (SE), the number of unweighted (N) and weighted (WN) cases, the design effect (DEFT), the relative standard error (SE/R), and the 95 percent confidence limits (R±2SE); for each variable. The DEFT is considered undefined when the standard error for a simple random sample is zero (when the estimate is close to 0 or 1).

Variable	Estimate	Base population
	HOUSEI	
Using an improved source of drinking water	Proportion	Households
Using an improved sanitation facility	Proportion	Households
Using iodized salt	Proportion	Households
Sex ratio (females per 1,000 males)	Ratio	De facto household population, all ages
	WON	
No schooling (Females age 6 years and above)	Proportion	De facto household population of females age 6 and above
Urban residence	Proportion	Women age 15-49
No schooling (Women age 15-49) Completed 10 or more years of schooling	Proportion Proportion	Women age 15-49 Women age 15-49
Never married, including married gauna not performed	Proportion	Women age 15-49
Currently married	Proportion	Women age 15-49
Married before age 18	Proportion	Women age 20-49
Currently using any contraceptive method	Proportion	Currently married women age 15-49
Currently using a modern contraceptive method	Proportion	Currently married women age 15-49
Currently using a traditional contraceptive method	Proportion	Currently married women age 15-49
Currently using pill Currently using IUD/PPIUD	Proportion	Currently married women age 15-49 Currently married women age 15-49
Currently using condom/Nirodh	Proportion Proportion	Currently married women age 15-49
Currently using female sterilization	Proportion	Currently married women age 15-49
Using public health sector source of contraception	Proportion	Women age 15-49 currently using modern methods of contraception
Unmet need for family planning	Proportion	Currently married women age 15-49
Want no more children	Proportion	Currently married women age 15-49
Want to delay next birth at least 2 years	Proportion	Currently married women age 15-49
Mother received four or more antenatal care (ANC) visits	Proportion	Women with at least one birth in last five years (last birth)
Took iron and folic acid (IFA) for 100 days or more Birth registration	Proportion Proportion	Women with at least one birth in last five years (last birth) De jure children under age 5 years
Births delivered by a health personnel	Proportion	Births in last 5 years
Institutional delivery	Proportion	Births in last 5 years
Postnatal check for mother within 2 days of birth	Proportion	Women with at least one birth in last five years (last birth)
Postnatal check for newborn within 2 days of birth	Proportion	Women with at least one birth in last five years (last birth)
Exclusive breastfeeding	Proportion	Children under age 6 months
Children with diarrhoea	Proportion	Children under age 5 years
Treated with oral rehydration salt (ORS) packets	Proportion	Children under age 5 years with diarrhoea in last 2 weeks
Children with diarrhoea taken to a health provider Child received BCG vaccination	Proportion Proportion	Children under age 5 years with diarrhoea in last 2 weeks Children age 12-23 months
Child received DPT vaccination (3 doses)	Proportion	Children age 12-23 months
Child received polio vaccination (3 doses)	Proportion	Children age 12-23 months
Child received measles vaccination	Proportion	Children age 12-23 months
Child received hepatitis B vaccination (3 doses)	Proportion	Children age 12-23 months
Child with all basic vaccinations	Proportion	Children age 12-23 months
Children given vitamin A supplement in past 6 months	Proportion	Children age 9-59 months
Height-for-age, stunting (below -2SD)	Proportion	Children under age 5 years who were measured
Weight-for-height, wasting (below -2SD) Weight-for-age, underweight (below -2SD)	Proportion Proportion	Children under age 5 years who were measured Children under age 5 years who were measured
Children with any anaemia	Proportion	Children age 6-59 months with an anaemia test
Women with any anaemia	Proportion	Women age 15-49 with an anaemia test
Body mass index (BMI) <18.5 kg/m ²	Proportion	Women age 15-49 who were measured
Body mass index (BMI) ≥25.0 kg/m ²	Proportion	Women age 15-49 who were measured
Have heard of HIV/AIDS	Proportion	Women age 15-49
Have comprehensive knowledge about HIV/AIDS	Proportion	Women age 15-49
Ever experienced physical or sexual violence Total fertility rate (last 3 years)	Proportion Poto	Women age 15-49
Neonatal mortality	Rate Rate	Women Births in last 5 years
Postneonatal mortality	Rate	Births in last 5 years
Infant mortality	Rate	Births in last 5 years
Child mortality	Rate	Births in last 5 years
Under-five mortality	Rate	Births in last 5 years
	ME	
No schooling (Males age 6 years and above)	Proportion	De facto household population of males age 6 and above
Urban residence	Proportion	Men age 15-49
No schooling (Men age 15-49) Completed 10 or more years of schooling	Proportion	Men age 15-49 Men age 15-49
Never married, including married gauna not performed	Proportion Proportion	Men age 15-49 Men age 15-49
Currently married	Proportion	Men age 15-49
Married before age 21	Proportion	Men age 25-49
Want no more children	Proportion	Currently married men age 15-49
Want to delay next birth at least 2 years	Proportion	Currently married men age 15-49
Men with any anaemia	Proportion	Men age 15-49 with an anaemia test
Body mass index (BMI) <18.5 kg/m ²	Proportion	Men age 15-49 who were measured
Body mass index (BMI) ≥25.0 kg/m ²	Proportion	Men age 15-49 who were measured
Have heard of HIV/AIDS	Proportion	Men age 15-49 Men age 15-49
Have comprehensive knowledge about HIV/AIDS	Proportion	Men age 15-49

Table A.2 Sampling errors: Total sample, Kerala, 2015-16

		Standard	Number	of cases	Design	Relative standard		
	Value	error	Unweighted	Weighted	effect	error	Confider	ice limits
Variable	(R)	(SE)	(N)	(ŴN)	(DEFT)	(SE/R)	R-2SE	R+2SE
Line on improved course of drinking water		HOUSEHO		44 EEE	1.050	0.004	0.026	0.050
Using an improved source of drinking water Using an improved sanitation facility	0.943 0.981	0.004 0.002	11,555 11,555	11,555 11,555	1.650 1.447	0.004 0.002	0.936 0.977	0.950 0.984
Using iodized salt	0.984	0.002	11,524	11,527	1.299	0.002	0.981	0.987
Sex ratio (females per 1,000 males)	1048.555	8.813	22,045	22,159	1.225	0.008		1066.181
		WOMEN						
No schooling (Females age 6 years and above)	0.042	0.002	21,642	21,726	1.556	0.051	0.038	0.047
Urban residence No schooling (Women age 15-49)	0.469 0.010	0.007 0.001	11,033 11,033	11,033 11,033	1.503 1.088	0.015 0.105	0.455 0.008	0.483 0.012
Completed 10 or more years of schooling	0.722	0.007	11.033	11,033	1.577	0.009	0.708	0.735
Never married, including married gauna not performed	0.227	0.005	11,033	11,033	1.172	0.021	0.218	0.236
Currently married	0.738	0.005	11,033	11,033	1.183	0.007	0.729	0.748
Married before age 18	0.160	0.006	9,549	9,529	1.610	0.038	0.148	0.172
Currently using any contraceptive method Currently using a modern contraceptive method	0.531 0.503	0.009 0.009	8,094 8,094	8,147 8,147	1.702 1.657	0.018 0.018	0.512 0.485	0.550 0.521
Currently using a traditional contraceptive method	0.028	0.003	8,094	8,147	1.363	0.089	0.403	0.021
Currently using pill	0.002	0.001	8,094	8,147	1.174	0.293	0.001	0.003
Currently using IUD/PPIUD	0.016	0.002	8,094	8,147	1.156	0.100	0.013	0.019
Currently using condom/Nirodh	0.026	0.002	8,094	8,147	1.201	0.082	0.021	0.030
Currently using female sterilization Using public health sector source of contraception	0.458 0.584	0.009 0.012	8,094 4,215	8,147	1.640 1.623	0.020 0.021	0.440 0.559	0.476 0.608
Unmet need for family planning	0.584	0.012	4,215 8,094	4,253 8,147	1.319	0.021	0.559	0.000
Want no more children	0.631	0.008	8,094	8,147	1.416	0.012	0.616	0.646
Want to delay next birth at least 2 years	0.110	0.004	8,094	8,147	1.238	0.039	0.101	0.118
Mother received four or more antenatal care (ANC) visits	0.902	0.008	2,127	2,115	1.290	0.009	0.885	0.919
Took iron and folic acid (IFA) for 100 days or more	0.671	0.015	2,127	2,115	1.450	0.022	0.642	0.701
Birth registration Births delivered by a health personnel	0.977 1.000	0.003 0.000	2,425 2,460	2,437 2,452	1.057 0.418	0.004 0.000	0.970 1.000	0.984 1.000
Institutional delivery	0.999	0.000	2,460	2,452	1.144	0.000	0.997	1.000
Postnatal check for mother within 2 days of birth	0.889	0.009	2,127	2,115	1.258	0.010	0.871	0.906
Postnatal check for newborn within 2 days of birth	0.494	0.016	2,127	2,115	1.444	0.032	0.463	0.526
Exclusive breastfeeding	0.532	0.039	223	232	1.175	0.072	0.455	0.610
Children with diarrhoea Treated with oral rehydration salt (ORS) packets	0.033 0.494	0.004 0.063	2,443 86	2,436 82	1.104 1.143	0.120 0.128	0.025 0.367	0.041 0.621
Children with diarrhoea taken to a health provider	0.494	0.003	86	82	1.143	0.120	0.654	0.021
Child received BCG vaccination	0.981	0.007	492	486	1.132	0.007	0.967	0.995
Child received DPT vaccination (3 doses)	0.904	0.014	492	486	1.077	0.016	0.875	0.933
Child received polio vaccination (3 doses)	0.885	0.017	492	486	1.144	0.019	0.852	0.918
Child received measles vaccination	0.894 0.824	0.015 0.019	492 492	486 486	1.084 1.083	0.017 0.023	0.863 0.786	0.924 0.861
Child received hepatitis B vaccination (3 doses) Child with all basic vaccinations	0.824	0.019	492	486	1.169	0.025	0.780	0.861
Children given vitamin A supplement in past 6 months	0.759	0.013	2,109	2,091	1.285	0.017	0.734	0.785
Height-for-age, stunting (below -2SD)	0.197	0.010	2,291	2,297	1.187	0.052	0.176	0.217
Weight-for-height, wasting (below -2SD)	0.157	0.009	2,291	2,297	1.189	0.060	0.138	0.176
Weight-for-age, underweight (below -2SD)	0.161	0.009	2,291	2,297	1.113	0.055	0.143	0.179
Children with any anaemia Women with any anaemia	0.356 0.342	0.016 0.008	2,114 10,822	2,127 10,851	1.419 1.657	0.044 0.022	0.325 0.327	0.387 0.357
Body mass index (BMI) <18.5 kg/m ²	0.096	0.003	10,550	10,568	1.214	0.036	0.090	0.103
Body mass index (BMI) ≥25.0 kg/m ²	0.325	0.006	10,550	10,568	1.347	0.019	0.312	0.337
Have heard of HIV/AIDS	0.988	0.003	2,397	2,372	1.138	0.003	0.982	0.993
Have comprehensive knowledge about HIV/AIDS	0.431	0.014	2,397	2,372	1.422	0.033	0.402	0.460
Ever experienced physical or sexual violence Total fertility rate (last 3 years)	0.147 1.561	0.012 0.048	1,747 31,783	1,747 31,761	1.470 1.252	0.085 0.031	0.122 1.465	0.172 1.658
Neonatal mortality	4.403	1.456	2,498	2,494	1.100	0.331	1.403	7.314
Postneonatal mortality	1.188	0.605	2,505	2,505	0.904	0.509	0.000	2.398
Infant mortality	5.591	1.570	2,498	2,494	1.068	0.281	2.452	8.730
Child mortality	1.470	0.940	2,498	2,488	1.302	0.639	0.000	3.350
Under-five mortality	7.053	1.803	2,500	2,495	1.122	0.256	3.448	10.658
No schooling (Males age 6 years and above)	0.019	MEN 0.001	20,585	20,675	1.506	0.076	0.016	0.022
Urban residence	0.468	0.001	1,864	1,856	1.352	0.033	0.010	0.022
No schooling (Men age 15-49)	0.006	0.002	1,864	1,856	0.982	0.294	0.002	0.009
Completed 10 or more years of schooling	0.705	0.014	1,864	1,856	1.338	0.020	0.677	0.733
Never married, including married gauna not performed	0.458	0.013	1,864	1,856	1.126	0.028	0.432	0.484
Currently married Married before age 21	0.535 0.053	0.013 0.007	1,864 1,289	1,856 1,272	1.117 1.183	0.024 0.139	0.509 0.039	0.560 0.068
Warried before age 21 Want no more children	0.053	0.007	1,289	992	1.183	0.139	0.039	0.068
Want to delay next birth at least 2 years	0.004	0.010	1,012	992	1.043	0.027	0.027	0.119
Men with any anaemia	0.117	0.011	1,816	1,810	1.369	0.089	0.096	0.138
Body mass index (BMI) <18.5 kg/m ²	0.085	0.009	1,844	1,834	1.246	0.100	0.068	0.102
Body mass index (BMI) ≥25.0 kg/m ²	0.285	0.013	1,844	1,834	1.177	0.045	0.260	0.31
Have heard of HIV/AIDS	0.985 0.508	0.004 0.021	1,864 1,864	1,856 1,856	1.439 1.821	0.004 0.042	0.977 0.465	0.993 0.550

						Relative		
		Standard	Number of	of cases	Design	standard		
	Value	error	Unweighted	Weighted	effect	error		nce limits
/ariable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
loing on improved course of driphing water		HOUSEHOL		5 000	4 000	0.004	0.040	0.000
Jsing an improved source of drinking water Jsing an improved sanitation facility	0.957	0.004	4,296	5,382	1.339	0.004	0.949	0.966
Jsing iodized salt	0.987 0.988	0.003 0.002	4,296 4,281	5,382	1.501 1.169	0.003 0.002	0.982 0.984	0.992 0.992
Sex ratio (females per 1,000 males)	1058.457	14.165	8,296	5,365 10,318	1.164	0.002	1030.127	1086.78
	1030.437	WOMEN	0,230	10,510	1.104	0.015	1030.127	1000.700
lo schooling (Females age 6 years and above)	0.033	0.002	8,202	10,205	1.247	0.076	0.028	0.038
Currently using any contraceptive method	0.533	0.015	3,109	3,854	1.637	0.027	0.504	0.56
Currently using a modern contraceptive method	0.506	0.014	3,109	3,854	1.568	0.028	0.477	0.53
Currently using a traditional contraceptive method	0.028	0.004	3,109	3,854	1.286	0.137	0.020	0.03
Currently using pill	0.003	0.001	3,109	3,854	1.072	0.371	0.001	0.00
Currently using IUD/PPIUD	0.015	0.003	3,109	3,854	1.153	0.167	0.010	0.02
Currently using condom/Nirodh	0.030	0.004	3,109	3,854	1.196	0.122	0.023	0.03
Currently using female sterilization	0.457	0.014	3,109	3,854	1.558	0.030	0.429	0.48
Jsing public health sector source of contraception	0.551	0.020	1,571	2,017	1.592	0.036	0.511	0.59
Inmet need for family planning	0.143	0.008	3,109	3,854	1.296	0.057	0.127	0.15
Vant no more children	0.624	0.012	3,109	3,854	1.334	0.019	0.601	0.64
Nother received four or more antenatal care (ANC) visits	0.885	0.014	817	998	1.237	0.016	0.857	0.91
Fook iron and folic acid (IFA) for 100 days or more	0.697	0.024	817	998	1.487	0.035	0.648	0.74
Birth registration	0.972	0.006	917	1,150	1.020	0.006	0.961	0.98
Births delivered by a health personnel	1.000	0.000	947	1,169	NA	0.000	1.000	1.00
nstitutional delivery	0.999	0.001	947	1,169	0.889	0.001	0.998	1.00
Postnatal check for mother within 2 days of birth	0.879	0.014	817	998	1.197	0.016	0.851	0.90
Postnatal check for newborn within 2 days of birth	0.482	0.023	817	998	1.332	0.049	0.436	0.52
Children with diarrhoea	0.027	0.006	939	1,160	1.100	0.216	0.015	0.03
Freated with oral rehydration salt (ORS) packets	0.405	0.104	27	31	1.065	0.257	0.197	0.61
Children with diarrhoea taken to a health provider	0.695	0.095	27	31	1.040	0.137	0.504	0.88
Child received BCG vaccination	0.983	0.011	173	217	1.136	0.011	0.961	1.00
Child received DPT vaccination (3 doses)	0.905	0.022	173	217	1.005	0.025	0.860	0.95
Child received polio vaccination (3 doses)	0.896	0.024	173	217	1.018	0.026	0.849	0.94
Child received measles vaccination	0.903	0.023	173	217	1.028	0.026	0.856	0.94
Child received hepatitis B vaccination (3 doses)	0.827	0.028	173	217	0.990	0.034	0.771	0.88
Child with all basic vaccinations	0.822	0.032	173	217	1.116	0.039	0.757	0.88
Children given vitamin A supplement in past 6 months	0.760	0.021	804	988	1.322	0.028	0.718	0.80
leight-for-age, stunting (below -2SD)	0.198	0.016	866	1,081	1.110	0.079	0.167	0.23
Neight-for-height, wasting (below -2SD)	0.159	0.015	866	1,081	1.121	0.094	0.130	0.18
Veight-for-age, underweight (below -2SD)	0.155	0.014	866	1,081	1.081	0.090	0.127	0.18
Children with any anaemia	0.355	0.023	805	1,007	1.315	0.066	0.308	0.40
Nomen with any anaemia	0.363	0.012	4,084	5,069	1.599	0.033	0.339	0.38
Body mass index (BMI) <18.5 kg/m ²	0.091	0.005	4,017	4,962	1.166	0.058	0.080	0.10
Body mass index (BMI) ≥25.0 kg/m ²	0.335	0.010	4,017	4,962	1.404	0.031	0.314	0.35
lave heard of HIV/AIDS	0.993	0.003	982	1,154	0.992	0.003	0.987	0.99
Have comprehensive knowledge about HIV/AIDS	0.425	0.023	982	1,154	1.484	0.055	0.378	0.47
Total fertility rate (last 3 years)	1.571	0.068	12,050	14,881	1.109	0.044	1.434	1.70
Neonatal mortality	4.388	2.161	966	1,191	1.006	0.492	0.066	8.70
Postneonatal mortality	1.417	1.127	971	1,192	0.928	0.795	0.000	3.67
nfant mortality	5.805	2.420	966	1,191	0.988	0.417	0.965	10.64
Child mortality	2.357	1.892	964	1,184	1.285	0.803	0.000	6.14
Inder-five mortality	8.148	3.006	966	1,191	1.082	0.369	2.136	14.16
		MEN						·
lo schooling (Males age 6 years and above)	0.013	0.002	7,734	9,610	1.448	0.149	0.009	0.01
Vant no more children	0.659	0.024	384	458	0.973	0.036	0.612	0.70
Men with any anaemia	0.126	0.016	713	841	1.321	0.130	0.093	0.15
Body mass index (BMI) <18.5 kg/m ²	0.084	0.014	727	859	1.296	0.163	0.057	0.11
Body mass index (BMI) ≥25.0 kg/m²	0.311	0.023	727	859	1.265	0.073	0.265	0.35
Have heard of HIV/AIDS	0.990	0.007	736	869	1.772	0.007	0.976	1.00
lave comprehensive knowledge about HIV/AIDS	0.518	0.034	736	869	1.843	0.066	0.450	0.58

Table A.4 Sampling errors: R	ural sample, Kerala, 2015-16

		Standard	Number of cases Unweighted Weighted		Design effect	Relative standard error	Confidence limits	
Variable	Value (R)	error						
		(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
		HOUSEHOL		0.170	4.0.40	0.000	0.040	0.044
Using an improved source of drinking water	0.930	0.006	7,259	6,173	1.843	0.006	0.919	0.941
Using an improved sanitation facility	0.975	0.003	7,259	6,173	1.456	0.003	0.969	0.980
Using iodized salt	0.981	0.002	7,243	6,162	1.401	0.002	0.976	0.985
Sex ratio (females per 1,000 males)	1039.927	10.973 WOMEN	13,749	11,841	1.245	0.011	1017.981	1061.872
No schooling (Females age 6 years and above)	0.051	0.003	13,440	11,521	1.784	0.067	0.044	0.058
Currently using any contraceptive method	0.529	0.012	4,985	4,293	1.721	0.023	0.505	0.554
Currently using a modern contraceptive method	0.501	0.012	4,985	4,293	1.706	0.024	0.477	0.525
Currently using a traditional contraceptive method	0.028	0.003	4,985	4,293	1.411	0.117	0.022	0.035
Currently using pill	0.001	0.001	4,985	4,293	1.232	0.473	0.000	0.003
Currently using IUD/PPIUD	0.017	0.002	4,985	4,293	1.131	0.121	0.013	0.021
Currently using condom/Nirodh	0.022	0.002	4,985	4,293	1.097	0.104	0.017	0.026
Currently using female sterilization	0.459	0.012	4,985	4,293	1.681	0.026	0.435	0.483
Using public health sector source of contraception	0.613	0.015	2,644	2,237	1.573	0.024	0.583	0.643
Unmet need for family planning	0.132	0.006	4,985	4,293	1.289	0.047	0.119	0.144
Want no more children	0.637	0.010	4,985	4,293	1.465	0.016	0.617	0.657
Mother received four or more antenatal care (ANC) visits	0.917	0.010	1,310	1,117	1.267	0.011	0.897	0.936
Took iron and folic acid (IFA) for 100 days or more	0.649	0.018	1,310	1,117	1.381	0.028	0.612	0.685
Birth registration	0.981	0.004	1,508	1,287	1.027	0.004	0.973	0.988
Births delivered by a health personnel	1.000	0.000	1,513	1,282	0.452	0.000	1.000	1.000
Institutional delivery	0.999	0.001	1,513	1,282	1.320	0.001	0.996	1.001
Postnatal check for mother within 2 days of birth	0.897	0.011	1,310	1,117	1.271	0.012	0.876	0.919
Postnatal check for newborn within 2 days of birth	0.505	0.021	1,310	1,117	1.523	0.042	0.462	0.547
Children with diarrhoea	0.040	0.006	1,504	1,276	1.105	0.141	0.028	0.051
Treated with oral rehydration salt (ORS) packets	0.549	0.077	59	50	1.189	0.141	0.394	0.703
Children with diarrhoea taken to a health provider	0.804	0.063	59	50	1.224	0.079	0.678	0.931
Child received BCG vaccination	0.979	0.009	319	269	1.126	0.009	0.961	0.997
Child received DPT vaccination (3 doses)	0.903	0.019	319	269	1.130	0.021	0.866	0.941
Child received polio vaccination (3 doses)	0.876	0.023	319	269	1.245	0.027	0.829	0.922
Child received measles vaccination	0.886	0.020	319	269	1.129	0.023	0.846	0.927
Child received hepatitis B vaccination (3 doses)	0.821	0.025	319 319	269 269	1.155	0.031	0.771	0.871 0.872
Child with all basic vaccinations Children given vitamin A supplement in past 6 months	0.820 0.758	0.026 0.015	1,305	1,103	1.199	0.032 0.020	0.767 0.728	0.872
Height-for-age, stunting (below -2SD)	0.758	0.013		1,103	1.182 1.231	0.020	0.728	0.788
Weight-for-height, wasting (below -2SD)	0.195	0.013	1,425 1,425	1,216	1.231	0.008	0.188	0.221
Weight-for-age, underweight (below -2SD)	0.167	0.012	1,425	1,216	1.104	0.066	0.132	0.189
Children with any anaemia	0.357	0.011	1,309	1,120	1.485	0.058	0.316	0.399
Women with any anaemia	0.324	0.021	6,738	5,782	1.669	0.029	0.305	0.343
Body mass index (BMI) <18.5 kg/m ²	0.102	0.005	6,533	5,606	1.228	0.045	0.093	0.040
Body mass index (BMI) ≥25.0 kg/m ²	0.316	0.007	6,533	5,606	1.208	0.022	0.302	0.329
Have heard of HIV/AIDS	0.983	0.004	1,415	1,218	1.247	0.004	0.974	0.991
Have comprehensive knowledge about HIV/AIDS	0.436	0.017	1,415	1,218	1.298	0.039	0.402	0.470
Total fertility rate (last 3 years)	1.553	0.069	19,733	16,880	1.372	0.044	1.416	1.690
Neonatal mortality	4.417	1.976	1,532	1,303	1.171	0.447	0.465	8.368
Postneonatal mortality	0.985	0.550	1,534	1,313	0.537	0.559	0.000	2.085
Infant mortality	5.401	2.047	1,532	1,303	1.118	0.379	1.307	9.495
Child mortality	0.648	0.460	1,534	1,304	0.734	0.709	0.000	1.568
Under-five mortality	6.046	2.092	1,534	1,304	1.077	0.346	1.862	10.230
		MEN	10					= =
No schooling (Males age 6 years and above)	0.025	0.002	12,851	11,065	1.576	0.087	0.021	0.030
Want no more children	0.668	0.027	628	534	1.446	0.041	0.613	0.722
Men with any anaemia	0.110	0.014	1,103	969	1.389	0.123	0.083	0.137
Body mass index (BMI) <18.5 kg/m ²	0.086	0.010	1,117	976	1.167	0.122	0.065	0.107
Body mass index (BMI) ≥25.0 kg/m ²	0.263	0.014	1,117	976	1.028	0.053	0.235	0.291
Have heard of HIV/AIDS	0.982	0.005	1,128	987	1.190	0.005	0.972	0.991
Have comprehensive knowledge about HIV/AIDS	0.498	0.026	1,128	987	1.745	0.052	0.446	0.550