

Government of India
Ministry of Health and Family Welfare

## Kerala



# National Family Health Survey (NFHS-5) 

## India

International Institute for Population Sciences
Deonar, Mumbai 400088

# NATIONAL FAMILY HEALTH SURVEY (NFHS-5) 

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## KERALA

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## Introduction

The 2019-21 National Family Health Survey (NFHS-5), the fifth in the NFHS series, provides information on population, health, and nutrition for India and each state and union territory. Like NFHS-4, NFHS-5 also provides district-level estimates for many important indicators. All five 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-5 was provided by the Government of India. Technical assistance and additional funding for NFHS-5 was provided by the USAID-supported Demographic and Health Surveys Program, ICF, USA. Assistance for some of the Clinical, Anthropometric, and Biochemical (CAB) tests was provided by the ICMR 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-5. The first version (district module), which collected information on women's characteristics, marriage, fertility, contraception, reproductive health, children's immunizations, treatment of childhood illnesses, and nutrition was fielded in the entire sample of NFHS-5 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-5 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, waist and hip circumference, haemoglobin levels, and finger-stick blood for additional CAB testing in a laboratory for women age 15-49 and men age 15-54; and blood pressure and random blood glucose for women and men age 15 years and over. Questionnaire information and biomarkers were collected only with informed consent from the respondents.

The NFHS-5 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 707 districts in India, as on 31 March, 2017). The total sample size of approximately 610,000 households for India was based on the size needed to produce reliable indicator estimates for each district. 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 (CEBs) 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 firststage units.

Readers should be cautious while interpreting and comparing the trends as some States/UTs may have a smaller sample size. Moreover, at the time of survey, Ayushman Bharat AB-PMJAY and Pradhan Mantri Surakshit Matritva Abhiyan (PMSMA) were not fully rolled out and hence, their coverage may not have been factored in the results of the percentage of households with any usual member covered under a health insurance/financing scheme and the percentage of mothers who received 4 or more antenatal care visits, respectively. Hence, the results should be interpreted with caution. The decline in the percentage of mothers who received 4 or more antenatal care visits in some districts in Kerala particularly may be due to flooding, in-migration, or other such conditions that emerged in recent years.

NFHS-5 fieldwork for Kerala was conducted in all 14 districts of the state from 20 July, 2019 to 2 December, 2019 by the Society for Promotion of Youth and Masses (SPYM). Information was collected from 12,330 households, 10,969 women age 15-49 (including 1,659 women interviewed in PSUs in the state module), and 1,473 men age 15-54.

This report presents the key findings of the NFHS-5 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

Important household characteristics includes household composition, housing characteristics, household possessions, access to a toilet facility, and education. The household characteristics reflect the environmental risk factors and behavioural outcomes of the household population, including their likely impact on health status.

## Household composition

In Kerala, just over half ( $53 \%$ ) of the households are in rural areas. On average, households are comprised of 3.7 members. Twenty-four percent of households are headed by women, with 20 percent of the population living in female-headed households.

Fifty-seven percent of households in Kerala have household heads who are Hindu. Twentyfour percent of households have household heads who are Muslim and 19 percent of households have household heads who are Christian.

Eleven percent of households in Kerala have household heads who belong to a scheduled caste, 2 percent belong to a scheduled tribe, and 50 percent belong to an other backward class. Thirty-six percent of household heads do not belong to a scheduled caste, a scheduled tribe, or an other backward class. Almost three-fifths (56\%) of households are nuclear, and the same proportion of the population resides in non-nuclear households.

Slightly more than one-fifth ( $21 \%$ ) of Kerala's population is under age 15 ; only 12 percent is age 65 and over. The overall sex ratio of the population is 1,121 females per 1,000 males, and the sex ratio of the population under 7 years of age is much lower at 967 females per 1,000 males. Ninety-five percent of persons have an Aadhaar card.

Among children below 18 years of age, 3 percent have experienced the death of one or both parents. In all, 74 percent of children below 18 years of age live with both parents, 25 percent live with one parent (mostly with their mother), and 2 percent live with neither parent. Births of almost all $(99 \%)$ children under 5 years of age were registered with the civil authorities, and 90 percent of children have a birth certificate.

## Death registration

Almost all deaths of usual household members (97\%) in the three years preceding the survey were registered with the civil authorities. Overall, in Kerala death registration is slightly higher in urban areas ( $98 \%$ ) than rural areas ( $97 \%$ ) and among males ( $98 \%$ ) than females ( $96 \%$ ).

## Disability

The respondent to the Household Questionnaire provided information for all usual household members on whether or not they have any disability in specified domains. The domains of disability are hearing, speech, visual, mental, locomotor, and other. Just over 1 percent (1.2\%) of the de jure household population has any disability. The most prominent type of disability is locomotor $(0.5 \%)$. Men are slightly more likely than women to have any disability $(1.4 \%$ versus $0.9 \%$ ). The proportion of household members who have any disability is higher at ages

## Housing characteristics

Over four-fifths ( $83 \%$ ) of households in Kerala live in a pucca house and all households have electricity.

Ninety-five percent of households in Kerala use an improved source of drinking water, but only 25 percent of households have water piped into their dwelling, yard, or plot. Urban households ( $30 \%$ ) are more likely than rural households ( $20 \%$ ) to have water piped into their dwelling, yard, or plot. Ninety-five percent of households use an appropriate treatment method to make drinking water potable (mostly by boiling). A large majority (72\%) of households in Kerala use a clean fuel for cooking.

## Access to toilet facility

Safe sanitation is one of the foundations of a healthy, comfortable, and dignified life. Households without proper sanitation facilities have a greater risk of diseases like diarrhoea, dysentery, and typhoid than households with improved sanitation facilities that are not shared with other households.

## Almost all (99\%) households in Kerala use an improved sanitation facility.

Ninety-nine percent of households use an improved sanitation facility. In Kerala, access to a toilet facility is universal, that is, all households have access to a toilet facility.

## Selected household possessions

In Kerala, 87 percent of households own a house ( $86 \%$ of urban households and $89 \%$ of rural households). Almost all urban households ( $98 \%$ ) and rural households ( $97 \%$ ) in Kerala have a mobile phone. Ninety-six percent of households have a bank or post office account. Fifty-eight percent of households own either a motorcycle or a scooter. BPL cards are held by 43 percent of households. Irrigated land is owned by 16 percent of rural households and 6 percent of urban households. Overall, 14 percent of all households in Kerala own agricultural land, and one-quarter of households own farm animals.

## Background characteristics of respondents

Twenty-six percent of women and 31 percent of men are in the $15-24$ age group, while 26 percent and 24 percent of women and men, respectively, are in the 25-34 age group. Fifty-two percent of women and 54 percent of men are in rural areas.

In NFHS-5, literate persons are those who have either completed at least standard 9 or passed a simple literacy test conducted as part of the survey. According to this measure, 97 percent each of women and men age 15-49 are literate.

Only 1 percent of women and 2 percent of men age 15-49 have never been to school. More
than half ( $51 \%$ ) of women age 15-49 in Kerala have completed 12 or more years of schooling, compared with 43 percent of men. Women are more likely than men to be currently married ( $74 \%$ versus $52 \%$ ) or widowed ( $2 \%$ versus $0.2 \%$ ), while men are more likely than women to be never married (47\% versus 22\%).

Media exposure is quite widespread among women and men in Kerala. More than threequarters ( $76 \%$ ) of men and nearly three-quarters ( $72 \%$ ) of women watch television at least once a week. However, men ( $66 \%$ ) are much more likely than women ( $58 \%$ ) to read a newspaper or magazine at least once a week. Seven percent of men and 13 percent of women are not regularly exposed to print media or other forms of media.

A majority of female respondents are Hindus ( $54 \%$ ), while 30 percent are Muslims, and 16 percent are Christian. Fifty-eight percent of female respondents belong to an other backward class, while 11 percent belong to a scheduled caste. Two percent of both women and men belong to a scheduled tribe, while 29 percent of women and 27 percent of men 15-49 do not belong to a scheduled caste, a scheduled tribe, or an other backward class.

Almost three-quarters ( $74 \%$ ) of women and one-quarter of men age 15-49 were not employed in the 12 months preceding the survey. Four percent of women and 7 percent of men were engaged in an agricultural occupation, while just over one-fifth (21\%) of women and threefifths of men were employed in a non-agricultural occupation.

## Education

In NFHS-5, information related to preschool attendance has been collected for the first time, in addition to school attendance among children age 6-17 years and educational attainment of other members of the household, including reasons for drop-out in the case of those who discontinued education.

## Preschool attendance

In India many children attend anganwadi centres that provide spaces for children to learn, play, eat nutritious food, and develop the skills needed for a lifetime of learning. Attending pre-primary education, such as at an anganwadi centre, improves children's school readiness by providing quality learning through interactive, play methods with qualified instructors. Also, parents or guardians can go to work at ease if children are enrolled in pre-primary education.

## Are there gender differentials in children's school attendance? <br> Percentage of children attending school by age



In Kerala, 51 percent of boys and 56 percent of girls age 2-4 years attend preschool. Preschool attendance is lower among children in nuclear households (49\%), than non-nuclear households (55\%). Preschool attendance is higher among children in households headed by Christians (59\%) or Hindus (58\%) than, Muslims (46\%). Preschool attendance does not vary much by caste/tribe. Overall, there is negligible difference in preschool attendance by residence ( $54 \%$ in urban areas and $53 \%$ in rural areas). Among the districts, preschool attendance is highest in Alappuzha ( $72 \%$ ) and is lowest in Palakkad ( $48 \%$ ) and Malappuram (46\%).

## School attendance among children

Almost all (98\%) children age 6-17 years in Kerala attend school. School attendance is universal at age 6-14 years, but drops to 94 percent at age 15-17 years. There is no gender disparity in school attendance in the 6-14 years age group; however, in the age group 15-17 years, 96 percent of girls, compared with 93 percent of boys, are attending school.

## Fertility

This section provides trends in the total fertility rate, age at marriage, pregnancy outcomes, teenage pregnancy, birth interval, the desire for more children, and son preference. NFHS-5 estimates on the median age at marriage, total fertility rate, and teenage motherhood illustrated in this section can help in setting benchmarks for the Sustainable Development Goals at the sub-national level.

## Age at first marriage

In Kerala, the median age at first marriage is 21.5 years among women age 25-49 years. Six percent of women age 20-24 years got married before attaining the legal minimum age of 18 years, down from 8 percent in NFHS-4. Only ten percent of women age 20-49 years have never married, compared with 36 percent of men age 20-49.

## Fertility levels

The total fertility rate (TFR) in Kerala is 1.8 children per woman, which is well below the replacement level of fertility. Fertility has increased by 0.2 children between NFHS-4 and NFHS5.

The total fertility rate in urban areas and rural areas is the same at 1.8 children per woman, and is below the replacement level. Among births in the three years preceding the survey, 17 percent were of birth order three or higher, compared with 13 percent in NFHS-4.

## Fertility Trends

 Total fertility rate (children per woman)

The greatest differentials in fertility are by religion and caste/tribe. The total fertility rate is below 2.0 children in every group except Muslim women (2.3) and scheduled tribe women (2.2).

> | How does fertility vary with schooling? |
| :--- |
| Total fertility rate (children per woman) |



## Pregnancy outcome

Ninety-two percent of last pregnancies in the five years preceding the survey ended in a live birth, and the remaining 8 percent terminated in foetal wastage (abortion, miscarriage, or stillbirth). Miscarriage is the most commonly reported type of foetal wastage, accounting for 5 percent of all pregnancies, and abortions accounted for 3 percent.

The main reasons for seeking abortion reported by women were complications in pregnancy ( $22 \%$ ), unplanned pregnancy, and health did not permit ( $18 \%$ each). The most common methods used for performing abortions were medicines (77\%), other surgical methods (10\%), and manual vacuum aspiration (MVA) (5\%). About half ( $49 \%$ ) of abortions were performed in public health sector facilities and half in private health sector facilities. Thirteen percent of women reporting an abortion, reported having complications from the abortion.

## Teenage pregnancy

Among young women age 15-19 in Kerala, 2 percent have already begun childbearing, that is, they have already had a live birth or are pregnant with their first child, which is almost the same (3\%) as in NFHS-4. The proportion of women who started childbearing rises sharply from 3 percent among women age 18 years to 9 percent among women age 19 years. Muslim women age 15-19 (5\%) are more likely to have begun childbearing than Hindu women (1\%) and Christian women ( $2 \%$ ). Also, women age 15-19 years belonging to a scheduled tribe (5\%) are more likely to have begun childbearing, than women from any other caste/tribe group (1$3 \%$ ).

## Birth intervals

The median interval between births in the five years before the survey in Kerala is 50.7 months, 1.2 months longer than in NFHS-4. Four percent of births take place within 18 months of the previous birth and 12 percent occur within 24 months. The proportion of births occurring
within 24 months of a previous birth is particularly high for mothers age 20-29. Twenty-seven percent of all 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 and has a positive impact on maternal health.

## Twenty-seven percent of all births occur within three years of the previous birth.

## Fertility preferences

Sixty-five percent of currently married women and 63 percent of men age 15-49 years want no more children, are already sterilized, or have a spouse who is sterilized. Among those who want another child, 35 percent of women and 30 percent of men would like to wait at least two years before the next birth. Seventy-four percent of women and 76 percent of men consider the ideal family size to be two or fewer children.

In Kerala, there is some preference for sons. Eight percent of women and 14 percent of men want more sons than daughters, but only 6 percent of women and 5 percent of men want more daughters than sons. However, more than half ( $51 \%$ ) of women would want at least one son while nearly three-fifths ( $58 \%$ ) of men would like to have at least one son, and more than half of women $(51 \%)$ and men ( $54 \%$ ) want at least one daughter.

Women's desire for more children is strongly affected by their current number of sons. For example, among women with two children, 83 percent with 2 sons want no more children, compared with 80 percent with two daughters who want no more children. Notably, the proportion of currently married women with two children who want no more children irrespective of their number of sons has remained unchanged ( $83 \%$ ) in the 4 years since NFHS4.

How does son preference affect women's desire for children?
Percentage of currently married women with two children who want no more children
NFHS-1 ■NFHS-2 $\quad$ NFHS-3 ■NFHS-4 ■NFHS-5


Current sex composition of families with two living children

In Kerala, unplanned pregnancies are not common. There is almost no difference between the total wanted fertility rate ( 1.7 children per woman) and the total fertility rate ( 1.8 children per woman).

## Family Planning

The family planning section covers trends in contraceptive knowledge and current use, informed choice, and unmet need for family planning methods among women age 15-49 years. It also includes information on men's attitude towards women using a contraceptive method. As in previous rounds of the survey, NFHS-5 provides estimates of the contraceptive prevalence rate and unmet need for family planning.

## Contraceptive knowledge and use

Knowledge of contraception is almost universal (99\%) in Kerala. However, some methods are still less well known. Only three-fifths of currently married women know about the lactational amenorrhoea method (LAM) and 52 percent know about female condom. Among all women, only 46 percent know about emergency contraception.

The contraceptive prevalence rate (CPR) among currently married women age $15-49$ is 61 percent, considerable rise since NFHS-4 (53\%). The use of modern family planning methods (53\%) has increased marginally from its level in NFHS-4 ( $50 \%$ ). The use of female sterilization has remained almost unchanged between NFHS-4 and NFHS-5 (46\% versus $47 \%$ ). Notably, the share of female sterilization in overall contraceptive use has decreased from 86 percent in NFHS-4 to 77 percent in NFHS-5. Contraceptive use in NFHS5 increases sharply with age, from 9 percent for women age $15-19$ to 75 percent for women age 40-49.

How many women use family planning?
Percentage of currently married women

- NFHS-1 ■ NFHS-2 - NFHS-3 - NFHS-4 $■$ NFHS-5


In Kerala, contraceptive use is almost the same in urban areas (61\%) and rural areas (60\%). Contraceptive prevalence decreases with increasing schooling of women. Seventy-two percent of currently married women with no schooling use female sterilization, compared with only 34 percent of women with 12 or more years of schooling. Muslim women ( $57 \%$ ) are less likely to use contraception than either Hindu women or Christian women ( $62 \%$ each).

Women in Kerala are slightly more likely to use contraception if they already have a son. For example, among women with three children, 82 percent with at least one son use a method of
family planning, compared with 78 percent of women with two daughters and no sons.

What contraceptive methods do women use? Currently married women


The most common modern spacing methods used by currently married women in Kerala are condoms (3\%) and IUDs or PPIUDs (2\%). In general, urban women and better-educated women are more likely than other women to use spacing methods.

Fifty-seven percent of sterilized women had their sterilization operation in the public health sector, mainly in a government or municipal hospital, and 79 percent of IUD or PPIUD users had their IUD insertion in the public health sector. More than half ( $53 \%$ ) of condom/Nirodh users get their supply from the public health sector.

The 12-month discontinuation rate for any reason is 38 percent for all contraceptive methods. Three-fifths 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 reason' which includes infrequent sex or husband away, difficult to get pregnant or menopausal, and marital dissolution or separation.

## Three-fifths of users of modern spacing methods discontinued use within the first year after they adopted the method.

## Informed choice

Women who know about all available contraceptive methods and their side effects can make better choices about what method to use. Only about two-thirds (65\%) of users of selected modern contraceptive methods were ever told by a health or family planning worker about other methods they could use. Only 62 percent were told about the possible side effects or problems with their method, and even fewer (53\%) were told what to do if they experienced any side effects.

## Men's attitudes

Almost one-sixth ( $16 \%$ ) 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, 44 percent of men think that women using contraception may become promiscuous. Half of 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, 13 percent of currently married women have an unmet need for family planning, almost unchanged since NFHS-4 ( $14 \%$ ). Currently, 83 percent of the demand for family planning is being satisfied and 72 percent of the demand is being satisfied by modern methods.

## Infant and Child Mortality

The mortality rate among children under age 5 years including neonatal, postneonatal, and infant mortality rates is an important indicator that measures the overall well-being of a country. The infant mortality rate in Kerala in NFHS-5 is estimated at 4 deaths before the age of one year per 1,000 live births, down from the NFHS-4 estimate of 6, the NFHS-3 estimate of 15, the NFHS-2 estimate of 16, and the NFHS-1 estimate of 24 . The under-five mortality rate (U5MR) is estimated to be 5 deaths per 1,000 live births, lower than the NFHS-4 estimate of 7.

## Trends in Infant Mortality

Deaths per 1,000 live births

■ NFHS-1 ■ NFHS-2 - NFHS-3 - NFHS-4 $■$ NFHS-5


Girls have slightly higher mortality rates than boys at all ages under 5 years. Infant and underfive mortality rates are less than 6 per 1,000 live births. The infant mortality rate is much higher for Hindus than for Muslims. The infant mortality rate is slightly higher in rural areas than urban areas.

# Girls have slightly higher mortality rates than boys at all ages under 5 years. 

## Maternal Health

Maternal health is an important aspect for the development of any country in terms of increasing equity and reducing poverty. The survival and well-being of mothers are not only important in their own right, but are also central to solving broader economic, social, and developmental challenges. Maternal health care services are essential for the health and wellbeing of mothers, as well as their children, affecting the overall population and its health and nutritional status. This section describes the utilization of antenatal care, delivery care, and postnatal care by women who reported their last births in the five years preceding the survey. It also shows the extent of male involvement in maternal health care.

## Antenatal care

Among mothers who gave birth in the five years preceding the survey, almost all (98\%) mothers received antenatal care for their last birth from a health professional (almost $98 \%$ from a doctor). Two percent did not receive any antenatal care (ANC). Among mothers who gave birth in the five years preceding the survey, 97 percent registered the pregnancy for the most recent live birth. Among the registered pregnancies, 91 percent received a Mother and Child Protection Card (MCP Card).

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


Ninety-four percent of women received antenatal care during the first trimester of pregnancy, as is recommended. Only 79 percent of mothers had four or more antenatal care visits. There is not much difference in four or more antenatal care visits by residence. Since NFHS-4, the percentage of mothers who had an antenatal check in the first trimester has remained almost unchanged ( $95 \%$ vs. $94 \%$ ) and there has been a substantial drop in the proportion of women who had four or more antenatal care visits (from $90 \%$ to $79 \%$ ). For almost all ( $98 \%$ ) of their last births, mothers received iron and folic acid (IFA) supplements, but only 80 percent consumed them for the recommended 100 days or more and only 67 percent consumed them for the newly recommended 180 days or more. Ninety-five percent of last births were protected against neonatal tetanus through tetanus toxoid vaccinations given to the mother. Twenty percent of mothers took an intestinal parasite drug during pregnancy.

## Seventy-nine percent of mothers in Kerala had 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, more than 7 in 10 received advice on each of five different areas $(89 \%$ received advice on breastfeeding, $81 \%$ on the importance of institutional delivery, $79 \%$ on keeping the baby warm, $77 \%$ on cord care, and $71 \%$ on family planning).

Even when women receive antenatal care, sometimes they do not receive all the services needed to monitor their pregnancy. In Kerala, nearly all (99-100\%) women who received antenatal care for their last birth received each of the services needed to monitor their pregnancy: having their weight taken, their blood pressure measured, having a urine sample taken, having a blood sample taken, and having their abdomen examined.

An ultrasound test was performed during 95 percent of pregnancies in the five years preceding the survey. Because ultrasound testing is nearly universal, there is little variation in the prevalence of ultrasound testing by background characteristics.

## Delivery care

In Kerala, almost all births take place in a health facility; mostly in a private health facility or in an NGO/trust health facility ( $66 \%$ ). Health facility births are universal in Kerala since NFHS-3. The universality of institutional births cuts across all background characteristics.

Almost all births during the past five years took place in health facility with assistance from a skilled provider. Nearly two-fifths (39\%) of births were delivered by caesarean section, and 28 percent of caesarean sections ( $11 \%$ of all births) were emergency caesarean

## Are babies being delivered safely?

 Percentage of births in the past five years sections.

Among women who had a live birth in the five years preceding the survey that was delivered in a health facility, 13 percent received financial assistance under Janani Suraksha Yojana (JSY). Rural women and urban women are equally likely to receive financial assistance under JSY. Scheduled tribe women ( $38 \%$ ) and scheduled caste women ( $22 \%$ ) were more likely than women from any other caste/tribe group to receive financial assistance under JSY.

## Postnatal care

Early postnatal care for a mother helps safeguard her health and can reduce maternal mortality. In Kerala, 94 percent of mothers had a postnatal check after their last birth and 93 percent of mothers had a postnatal check within two days of the birth, as is recommended.

> Almost all children in Kerala who were born in the past five years were born in a health facility and birth took place with assistance from a skilled provider.

Ninety-one percent of last births in the five years preceding the survey received a health check in the first two days after birth and only 4 percent of newborns either did not have any health check or had it after a week.

## Male involvement in maternal care

All men with a child under three years of age said that the youngest child's mother received antenatal care. Ninety-four 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, but only 81 percent were told by a health provider or health worker what to do if the child's mother had a pregnancy complication. Only 56 percent of men were told about vaginal bleeding as signs of pregnancy complications, and 63-66 percent of men were told about other signs of pregnancy complications (convulsions, prolonged labour, severe abdominal pain, and high blood pressure).

Most fathers with a child less than three years of age were given information about various aspects of maternal care. Eighty-six percent of men 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-eight percent of men were told by a health provider or a health worker about family planning or delaying the next child.

## Child Health

## Vaccination of children

Vaccinations are considered as the most cost-effective intervention that can improve the overall health of children. Seventy-eight 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, 98 percent of children are at least partially vaccinated; only 2 percent have not received any vaccinations at all. Vaccinations were recorded from a vaccination card for a large majority ( $89 \%$ ) of children, increase since NFHS-4 (86\%).

## Trends in Vaccination Coverage Percentage of children 12-23 months receiving vaccinations



Ninety-eight percent of children have received a BCG vaccination. However, more than fourfifths $(84 \%)$ have received the recommended three doses of polio vaccine, 85 percent have received the three recommended doses of DPT or Penta vaccine, and 89 percent have been vaccinated against measles. There is considerable dropout between the first and third doses of DPT vaccine (from $96 \%$ to $85 \%$ ) and polio vaccine (from $95 \%$ to $84 \%$ ). It should be noted that the Penta vaccine was not widely available at the time of NFHS-4 survey.

Between NFHS-4 and NFHS-5, there is a decrease in vaccination coverage for three doses of DPT (from $90 \%$ to $85 \%$ ), measles and BCG coverage has remained unchanged between NFHS4 and NFHS-5 ( $89 \%$ and $98 \%$, respectively). The coverage for three doses of polio vaccine has decreased, from 89 percent to 84 percent. In addition, over nine-tenths ( $94 \%$ ) of children have received at least one dose of hepatitis B vaccine, and 83 percent of children have received all three recommended doses of hepatitis $B$ vaccine.

Coverage with all basic vaccinations is almost equal for boys and girls, and for rural areas and urban areas (77-78\%). Children whose mothers have 8-9 years of schooling (70\%), Muslim children $(74 \%)$, and children from an other backward class ( $75 \%$ ) were least likely to have received all basic vaccinations.

## Childhood illnesses

In the two weeks before the survey, 2 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). Of these children, 70 percent were taken to a health facility or health provider.

Twenty-three percent of children under age five years were reported to have had fever in the two weeks preceding the survey; 89 percent of these children were taken to a health facility or provider for treatment.

Overall, 4 percent of children under age five years had diarrhoea in the two weeks preceding the survey. Eighty-seven percent of these children were taken to a health facility or health provider. Ninety-eight percent of mothers of young children have heard of oral rehydration salt (ORS) packets for the treatment of diarrhoea, but only 61 percent of children with diarrhoea were given ORS. Fifty-four percent of children with diarrhoea were given gruel and three-quarters were given any type of oral rehydration therapy (ORT). Twenty-two percent were given zinc supplements. Thirteen 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 15 percent of children with diarrhoea received more to drink than normal. A little less than one-quarter $(24 \%)$ of children received the same amount to drink as usual. Of greater concern, three-fifths of children with diarrhoea were given less to drink or nothing at all to drink. Nearly onequarter $(24 \%)$ of children with diarrhoea were given the same amount of food or more food, as 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.

Fifty-six percent of children under 6 years received services of some kind from an anganwadi centre in the 12 months preceding the survey. The most common services that ageeligible children receive are supplementary food (53\%), growth monitoring (51\%), health check-ups (42\%), and early childhood care or preschool (32\%). The service that is least likely to be accessed

## How many children received anganwadi centre services?

Percentage of age-eligible children receiving services
 is immunizations (24\%). More than two-fifths ( $43 \%$ ) of mothers of children who were weighed at an anganwadi centre received counselling from an anganwadi worker or an ANM. Among children under 6 years, nearly two-thirds ( $63 \%$ ) of their mothers received any service from an anganwadi centre during pregnancy, and more than half (55\%) of their mothers received any service while breastfeeding.

## Breastreeding, Nutrition, and Anaemia

## Infant feeding

Although breastfeeding is nearly universal in Kerala, only 56 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 70 percent started breastfeeding in the first hour of life (as recommended). While exclusive breastfeeding indicators show an improvement since NFHS-4, 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 breastmilk 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, 8 percent of children are given something other than breastmilk during the first three days. Overall, 94 percent of children continue breastfeeding at 1 year and more than four-fifths ( $85 \%$ ) continue breastfeeding at 2 years. The median duration of breastfeeding is 27.6 months, which is the age to which half of children are breastfed.

After the first 6 months, breastmilk 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, only 71 percent of children in Kerala receive breastmilk 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. Nearly half ( $49 \%$ ) of children age 6-23 months are fed the recommended minimum number of times per day and even fewer $(46 \%)$ are fed from the appropriate number of food groups. Less than one-quarter ( $23 \%$ ) are fed according to all three recommended practices.

Micronutrient deficiency is a major component of childhood undernutrition and a significant contributor to childhood morbidity and mortality. Vitamin A is an essential nutrient for growth, immunity, and vision. 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, more than four-fifths ( $84 \%$ ) of children age 9-35 months were given a vitamin A supplement in the last six months, but only two-thirds of youngest children age 6-23 months living with their mother consumed 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. Fifty-one percent of children age 6-23 months ate ironrich foods during the day or night before the survey; however, 32 percent of children in the same age group were given iron supplements in the week before the survey.

## Children's nutritional status

Childhood undernutrition contributes to childhood diseases and is a major cause of child mortality in India. Twenty-three 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 are wasted, or too thin for their height, which may result from inadequate recent food intake or a recent illness causing weight loss, and 6 percent are severely

Trends in Children's Nutritional Status
Percentage of children under five years



Note: Nutritional status estimates are based on the 2006 WHO International Reference Population wasted. Twenty percent are underweight, which takes into account both chronic and acute undernutrition. Even during the first six months of life when almost all babies are breastfed, 23 percent of children are stunted, 26 percent are wasted, and 29 percent are underweight.

Children's nutritional status in Kerala has worsened since NFHS-4 by most measures. The percentage of children who are stunted increased marginally from 20 percent to 23 percent in the 4 years between NFHS-4 and NFHS-5. Similarly, the percentage of children who are underweight ( $20 \%$ ) has increased since NFHS-4 (16\%). The proportion of children wasted has
remained the same (16\%). The continuing high levels of undernutrition are still a major problem in Kerala.

Differences in the levels of malnutrition are quite pronounced for several background characteristics. Stunting generally decreases with increasing mother's schooling, better nutritional status of the mother, and larger child's size at birth. Stunting is relatively high for children of higher birth orders. It is generally higher among scheduled tribe children and lower among Christian children than any other group of children. Malnutrition is somewhat higher for male children than female children on all three nutritional status measures.

## Adults' nutritional status

Malnutrition refers to deficiencies, excesses, or imbalances in a person's intake of energy and/or nutrients, and includes undernutrition as well as overweight and obesity. The body mass index (BMI), which is defined as a person's weight in kilograms divided by the square of the person's height in metres, is a measure that indicates the nutritional status in adults.

Nearly half of women (48\%) and men (46\%) are either too thin or overweight or obese. Women and men are almost four times as likely to be overweight or obese as to be thin, which is slightly higher than the pattern observed in NFHS-4. Among women age 15-49, the proportion overweight or obese is 38 percent, which has increased from 32 percent in NFHS4. Just over half of women and men are at a healthy weight for their height.

Undernutrition is particularly common among women and men in the younger age groups (especially age 15-19), in rural areas, and scheduled tribes. Overweight and obesity are most prevalent in older adults, and those in urban areas.

For the first time, the 2019-21 NFHS measured the waist circumference and hip circumference of women and men age 15-49 years. This information was used to calculate the waist-to-hip ratio (WHR). WHR helps to identify the distribution of body fat and predicts abdominal obesity. Abdominal obesity is associated with an increased risk of type 2 diabetes mellitus, myocardial infarction, stroke, and premature death.

More than two-thirds ( $71 \%$ ) of women and 57 percent of men have a waist-to-hip ratio (WHR) that puts them at a substantially increased risk of metabolic complications. The proportion of adults with an increased risk WHR increases with age, from 50 percent for women age 15-19 to 82 percent for women age 40-49, and from 41 percent for men age 15-19 to 68 percent for men age 40-49. Women with 12 or more years of schooling are at less risk of metabolic complications than women with no schooling.

The use of iodized salt prevents iodine deficiency, which can lead to miscarriage, goitre, and mental retardation. Ninety-nine percent of households with tested salt were using iodized salt at the time of the survey.

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, hookworms 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 a major health problem in Kerala, especially among women and children.

Anaemia among women, men, and children
■ Mild anaemia $■$ Moderate anaemia ■ Severe anaemia


Nearly two-fifths (39\%) of children age 6-59 months are anaemic. This includes 24 percent who are mildly anaemic, 15 percent who are moderately anaemic, and 1 percent who have severe anaemia. The overall prevalence of anaemia in children increased from 36 percent in NFHS-4 to 39 percent in NFHS-5. Boys are more likely to be anaemic than girls ( $41 \%$ vs $38 \%$ ). 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. Nearly two-fifths (39\%) of children in Kerala are anaemic even if their mother has 12 or more years of schooling. Anaemia is much higher among scheduled tribe children (58\%) and children in age groups below 2 years (55-60\%).

Thirty-six percent of women in Kerala have anaemia, including 21 percent with mild anaemia, 14 percent with moderate anaemia, and 1 percent with severe anaemia. Almost three-fifths $(58 \%)$ of women with no schooling and more than half ( $53 \%$ ) of scheduled tribe women are anaemic. Anaemia among women has increased by 2 percentage points since NFHS-4. Nearly one-fifth $(18 \%)$ of men in Kerala are anaemic. Men age $15-19$, men with less than 10 years of schooling, scheduled caste men, and scheduled tribe men are particularly likely to be anaemic.

## Adult Health and Health Care

## Tuberculosis

Tuberculosis is an infectious disease caused by a type of bacterium called Mycobacterium tuberculosis, which primarily affects the lungs. Tuberculosis is transmitted from person to person through the air, and people with lowered immunity, HIV, malnutrition, diabetes, and those who use tobacco or alcohol have higher chances of getting tuberculosis. Tuberculosis is both preventable and curable, however, mortality is high if not treated properly.

In Kerala, 453 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 (473), than among women (436) and is higher in rural areas (476) than in urban areas (429). The prevalence of tuberculosis is particularly high among younger people age less than 15 years ( 918 per 100,000) and in households using solid fuel for cooking ( 666 per 100,000).

Almost all respondents have heard of tuberculosis ( $98 \%$ of women and $96 \%$ of men), but even among those who have heard of tuberculosis, only 88 percent of women and 86 percent of men know that it is spread through the air by coughing or sneezing. One-sixth ( $17 \%$ ) of women and more than one-fifth $(22 \%)$ of men have misconceptions about how tuberculosis is spread. Overall, 84 percent of women and 89 percent of men know that tuberculosis can be cured, and only 7 percent of women and 12 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, 4,081 women and 3,987 men age 15-49 per 100,000 have diabetes. Overall, 4,792 women and 833 men per 100,000 have asthma. The prevalence of asthma among women and men is higher in older age groups and those in urban areas. The prevalence of asthma among women is higher for women with little or no schooling. The prevalence of goitre or any other thyroid disorder is 8,696 per 100,000 among women and only 522 per 100,000 among men. The prevalence of any heart disease is lower among men ( 516 per 100,000)
than among women ( 777 per 100,000). Among the five diseases, cancer is the least common, with 192 women per 100,000 and 277 men per 100,000 reportedly having cancer.

## Blood pressure (hypertension)

Blood pressure is the force exerted by circulating blood against the arterial walls. Hypertension or high blood pressure is a condition in which the blood vessels have persistently raised pressure. Hypertension is a major risk factor for cardiovascular diseases, chronic kidney diseases, and brain diseases, and it is a major cause of premature deaths worldwide. Some of the risk factors for developing hypertension are unhealthy diets, physical inactivity, alcohol and tobacco consumption, and excess body weight.

Twelve percent of women age 15-49 in Kerala have hypertension, including 7 percent with Stage 1 hypertension, 2 percent with Stage 2 and 1 percent with Stage 3 hypertension. Hypertension also includes women with normal blood pressure who are taking medicine to lower their blood pressure. Fifty-eight percent of women have normal blood pressure.

The prevalence of hypertension among men age 15-49 is higher than among women. Eighteen percent of men in Kerala have hypertension, including 14 percent with Stage 1 hypertension, 3 percent with Stage 2 hypertension, and 1 percent with Stage 3 hypertension. Hypertension also includes men with normal blood pressure who are taking medicine to lower their blood pressure. Thirty percent of men have normal blood pressure. For both women and men, hypertension increases with age.

## Blood glucose

Diabetes mellitus is a chronic metabolic disease characterized by elevated levels of blood glucose. Diabetes over a period of time can cause severe damage to the heart, blood vessels, retina, kidneys, and nerves, and it puts sufferers at increased risk of various infectious and non-infectious diseases. Early diagnosis, determined by blood glucose testing, and adequate treatment are the key steps for managing diabetes and its complications. NFHS-5 has included random blood glucose measurement using capillary blood among women and men age 15 and above.
In Kerala, 5 percent of women age 15-49 have high blood glucose levels, and an additional 6 percent have very high blood glucose levels. In comparison, 5 percent of men age 15-49 have high blood glucose levels, and an additional 7 percent have very high blood glucose levels. Women and men in older age groups and with fewer than 12 years of schooling have relatively high blood glucose levels.

Almost 9 in 10 women ( $89 \%$ ) and men ( $88 \%$ ) age 15-49 have normal blood glucose levels. Men are more likely than women to have normal blood glucose levels and to be taking medicine to lower their blood glucose level ( $2 \%$ of men versus $1 \%$ of women). Twelve percent of women and 14 percent of men have high or very high blood glucose levels or are taking medicine to lower their blood glucose level.

## Screening tests for cancer

Cancer is a group of diseases with high mortality, and it is the second leading cause of death globally. The chances of successful treatment of cancer increase if diagnosed early. One way of early detection is screening, which is identification of unrecognized disease by using simple tests or examinations among those individuals who have the disease but do not yet have symptoms. NFHS-5 collected information about whether women had ever undergone a screening test for cancer of the oral cavity, breast, and cervix.

In Kerala, 2 percent each of women age 15-49 have ever undergone a screening test for cervical cancer and breast cancer, and 1 percent each of women and men have ever undergone a screening test for cancer of the oral cavity.

## Health insurance

Universal access to health care is the absence of any barriers in health care, including economic barriers. Adequate coverage by health insurance protects a person from financial hardships because of the costs of health care. Despite the emergence of a number of health insurance programmes and health schemes in India, only 52 percent of households in Kerala have any kind of health insurance that covers at least one member of the household. Health insurance/financing scheme coverage is higher in rural areas (55\%) than urban areas (47\%). In Kerala, among households with health insurance/financing scheme coverage one type of health scheme dominates: Rashtriya Swasthya Bima Yojana (RSBY) (78\%), particularly in rural areas ( $84 \%$ ), compared with urban areas ( $71 \%$ ).

Half of women and men (51\%) age 15-49 in Kerala are covered by any health insurance/financing scheme. Older women and men are more likely to be covered than younger women and men. Health insurance/financing scheme coverage is higher in rural areas than urban areas.

## Tobacco and alcohol use

Almost one-fifth ( $18 \%$ ) of men, but less than 1 percent ( $0.4 \%$ ) of women age 15-49 use some form of tobacco. Tobacco products mostly used by men are cigarettes ( $16 \%$ ), cigars or pipe $(3 \%)$, bidis ( $2 \%$ ), paan with tobacco ( $1 \%$ ), and gutkha or paan masala with tobacco (1\%). Among women and men, the use of any form of tobacco is slightly higher in rural areas ( $1 \%$ for women and $21 \%$ for men) than in urban areas ( $0.1 \%$ for women and $15 \%$ for men). Most men ( $61 \%$ ) who smoke cigarettes smoked fewer than five cigarettes in the past 24 hours.

In Kerala, a negligible proportion ( $0.3 \%$ ) of women say that they drink alcohol. Men are more likely to drink alcohol ( $26 \%$ ) than use tobacco (18\%). The consumption is higher in rural areas ( $28 \%$ ) than urban areas ( $24 \%$ ). Among men who drink alcohol, 9 percent drink alcohol almost every day, 41 percent say they drink alcohol at least once a week, and 50 percent drink alcohol less than once a week.

## HIV/AIDS

This section presents the findings from NFHS-5 on HIV/ AIDS knowledge and attitudes, prior HIV testing, and the prevalence of sexually transmitted infections (STIs), as well as sexual behaviour of the adult and youth population. Questions on HIV/AIDS were included only in the subsample of households selected for the state module.

## Awareness of HIV or AIDS

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

## Knowledge of prevention and transmission

Men are much more likely than women to know how HIV/AIDS is transmitted and how to keep from getting it. For example, only 74 percent of women know that consistent condom use can help to prevent HIV/AIDS, compared with 85 percent of men, and 71 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 78 percent of men.

Only 35 percent of women and 45 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 the transmission or prevention of HIV/AIDS.

## HIV-related stigma

Do people know how to prevent HIV/AIDS? Percentage of women and men age 15-49


Nearly three-quarters ( $71 \%$ ) of women and 65 percent of men in Kerala would be willing to take care of a relative with HIV/AIDS in their home. A higher ( $85 \%$ each) proportion of women and men say that a female teacher who has HIV/AIDS but is not sick should be allowed to continue teaching. Over seven-tenths of women (72\%) and men (79\%) say that they would buy fresh vegetables from a shopkeeper with HIV/AIDS. Sixty percent of women and 52 percent of men say that if a family member got infected with HIV/AIDS, they would not want to keep it a secret. Eighty-two percent of women and 86 percent of men say that an HIV positive student should be allowed to attend school with students who are HIV negative. Almost four-fifths ( $79 \%$ ) of women and about three-quarters ( $74 \%$ ) of men think that people living with HIV/AIDS should be treated in the same public hospital as persons who are HIV negative. More than four-fifths ( $85 \%$ each) of women and men think that people living with HIV should be allowed to work in the same office with people who are HIV negative.

## HIV testing prior to NFHS-5, blood transfusions, and safe injections

Only 47 percent of women and 12 percent of men age 15-49 had ever been tested for HIV prior to NFHS-5. Women in urban areas are somewhat more likely to have ever been tested for HIV prior to NFHS-5 than rural women ( $51 \%$ versus $44 \%$ ). Forty-five percent of women who had a live birth in the past five years and received ANC during pregnancy were tested for HIV during ANC. Urban women (43\%) are slightly less likely than rural women (47\%) to have been tested for HIV during ANC.

Forty-five percent of women who had a live birth in the past five years and received ANC during pregnancy were tested for HIV during ANC.

In Kerala, 5 percent of women and 7 percent of men have ever had a blood transfusion. Women are more likely than men to have received an injection in the past 12 months ( $31 \%$ of women, compared with $28 \%$ of men). A disposable syringe was used for injections for 96 percent of adults who received an injection in the past 12 months.

## Sexual Behaviour

NFHS-5 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 men who had sex in the past 12 months, only 1 percent men reported having had higher-risk sex during the past 12 months with almost same proportion in both rural areas ( $1.3 \%$ ) and urban ( $0.8 \%$ ) areas. A negligible proportion of adults said that they had multiple sex partners in the past 12 months ( $0.3 \%$ of men and $0.1 \%$ of women).

Only 0.2 percent of men in rural areas said they had paid for sex in the past year.

## Women's Empowerment

Empowering women and promoting gender equality in every sphere of life are essential to improving their lives and achieving the Sustainable Development Goals. NFHS-5 has collected information related to women's empowerment and autonomy, including menstrual hygiene, employment and earnings, decision-making, ownership of assets, gender role attitudes, and domestic violence.

## Women's hygiene

Using a hygienic method of menstrual protection is important for women's health and personal hygiene. In NFHS-5, young women age 15-24 were asked what method or methods they use for menstrual protection, if anything. In Kerala, 90 percent use sanitary napkins, 40 percent use cloth, 3 percent use locally prepared napkins. Overall, 93 percent of women age $15-24$ use a hygienic method of menstrual protection, up from 90 percent in NFHS-4. Notably, 92 percent of rural women use a hygienic method of menstrual protection, compared with 95 percent of urban women. Use of a hygienic method is lowest among scheduled tribes (86\%) and scheduled castes ( $88 \%$ ).

## Employment and earnings

Only a little over one-quarter ( $26 \%$ ) of all women age 15-49, compared with three-quarters of men, were employed in the 12 months preceding the survey. Among employed women, almost all (99\%) percent earned cash, including 2 percent who earned both cash and in-kind. Only 1 percent women were not paid at all. Similarly, almost all $(99 \%)$ men who were employed earned cash, including 3 percent who earned both cash and in-kind. Only 1 percent of employed men were not paid at all. A large majority ( $86 \%$ ) of employed women work in non-agricultural occupations, compared with 91 percent of employed men.

## Only 26 percent of all women age 15-49 were employed in the 12 months preceding the survey.

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. One-third of women who work for cash say that they earn more than or about the same as their husbands. Three-quarters 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 36 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. Women are somewhat more likely to participate in decisions about their own health care ( $83 \%$ ) and visit to her family and relatives ( $85 \%$ ) or about major household purchases ( $81 \%$ ). Overall, 69 percent of currently married women participate in making all three of these decisions, and 6 percent do not participate in making any of the three decisions. Participation in all three decisions varies most by age, increasing sharply from 57 percent among women age 20-24 to 70 percent among women age 40-49.

In the case of currently married men, they are much more likely than women to report that they alone or jointly with their wives participated in making decisions about their own health care $(90 \%)$ and 95 percent participated in decisions about major household purchases. Two percent
of men participated in making neither of these decisions.

## Other indicators of women's empowerment

In Kerala, 53 percent of women have money that they can decide how to use. The proportion of women who have money that they can decide how to use is slightly higher among urban ( $54 \%$ ) than rural ( $53 \%$ ) women, it increases sharply with age, is much higher ( $58 \%$ ) among women with 12 or more years of schooling, and is highest ( $88 \%$ ) among women who are employed for cash ( $87 \%$ ) than any other group of women.

## Nearly four-fifths (79\%) of women have a bank or savings account that they themselves use.

Seventy-nine percent of women have a bank or savings account that they themselves use. This percentage increases with age, and it is very high among employed women, Hindu women, women with 12 or more years of education, and scheduled caste women. Fifty-eight percent of women know about microcredit programmes, but only one-tenth of women have ever taken a loan from a microcredit programme.

Less than one-quarter ( $23 \%$ ) of women who have a mobile phone use it for financial transactions. Urban women ( $24 \%$ ) are more likely to use a mobile phone for financial transactions, than rural women $(22 \%)$. This percentage increases with education with almost one-third ( $32 \%$ ) of women with 12 or more years of education using a mobile phone for financial transactions, compared with only 6 percent of women having 5-7 years of schooling. About one-third ( $32 \%$ ) of employed women who have a mobile phone use a mobile phone for financial transactions, compared with 19 percent of unemployed women who have a mobile phone. Muslim women ( $11 \%$ ) are least likely to use a mobile phone for financial transactions, compared with Hindu ( $28 \%$ ) or Christian ( $27 \%$ ) women. Women not belonging to a scheduled caste, a scheduled tribe, or an other backward class are much more likely ( $28 \%$ ) to use a mobile phone for financial transactions than women belonging to any other caste/tribe group.

## Ownership of assets

Twenty-five percent of women and 54 percent of men age 15-49 in Kerala own a house alone or jointly with someone else, and 12 percent of women and 25 percent of men own land alone or jointly with someone else. Among men and women, ownership of a house and land is more common in rural than urban areas.

Twenty-five percent of women own a house alone or jointly with someone else, and 12 percent of women own land alone or jointly with someone else.

In Kerala, a large majority of women in rural areas ( $87 \%$ ) and urban areas ( $86 \%$ ) have a mobile phone that they themselves use. Among women who have a mobile phone that they themselves
use, 88 percent can read SMS messages. Women with 5-9 years of schooling are less likely to be able to read SMS messages.

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

## Gender-role attitudes

Fifty-two percent of women agree that a husband is justified in hitting or beating his wife under some circumstances. Women are most likely to agree that wife beating is justified if a woman shows disrespect for her in-laws ( $38 \%$ ), followed by if she neglects the house or children ( $33 \%$ ) and if he suspects her of being unfaithful ( $27 \%$ ). In case of men, 63 percent say that wife beating is justified in some circumstances, especially if husband suspects her of being unfaithful (47\%), the wife shows disrespect for in-laws (40\%), or if she neglects the house or children (34\%) and if she argues with him ( $20 \%$ ). Even among women and men who have completed at least 12 years of schooling, 53 percent of women and 66 percent of men say that a husband is justified in hitting or beating his wife for one or more of the specified reasons.

Seventy-two percent of women and 75 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 knows he has intercourse with other women, and if she is tired or not in the mood. Only 69 percent of men agree that if a wife refuses to have sex with her husband he does not have a right to get angry and reprimand her, refuse to give her financial support, use force to have sex even if she doesn't want to, or have sex with another woman.

## Domestic Violence

The World Health Organization recognizes that violence against women, particularly domestic or spousal violence, is a major public and clinical health problem and a violation of women's human rights, which also reflects the scale of gender inequality and discrimination against women. The consequences of violence on physical, mental, sexual, and reproductive health often last a lifetime. NFHS-5 collected information on domestic violence from women age 1849 , related to behaviours of her husband that cause physical, sexual or emotional harm, including physical violence, sexual coercion, emotional abuse, and controlling behaviours. Information was also collected on violence during pregnancy and help seeking behaviour for any violence experienced.

In Kerala, 9 percent of all women age 18-49 have ever experienced physical violence, and 1 percent have ever experienced sexual violence. In all, 10 percent of women ever experienced physical or sexual violence and 1 percent experienced both physical and sexual violence. For ever-married women who experienced physical violence since age 15, the most common perpetrator was the current husband.

## Ten percent of women age 18-49 in Kerala have ever experienced physical or sexual violence.

## Violence during pregnancy

Less than 1 percent of women age 15-49 who have ever been pregnant have ever experienced physical violence during one or more of their pregnancies.

## Spousal violence

In Kerala, 10 percent of ever-married women age 18-49 have experienced any form of physical violence committed by their husband, 2 percent have experienced any form of sexual violence committed by their husband, and 7 percent have experienced any form of emotional violence committed by their husband. Seven percent of ever-married women report having been slapped by their husband. Six percent report being pushed, shaken, or having something thrown at them. Four percent experienced having their arm twisted or hair pulled, 3 percent report being kicked, dragged, or beaten up, and 2 percent being punched with a fist or something that could hurt her.

One percent of ever-married women age 18-49 report that their husband 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 in any other way to perform sexual acts they did not want to perform. Overall, 10 percent of ever-married women have experienced spousal physical or sexual violence from their current husband or, if not currently married, from their most recent husband. Few (1\%) ever-married women reported that they have initiated violence against their husband when he was not already beating or physically hurting them.

Spousal violence prevails across all groups of women. Although spousal violence is lower among more educated women, 1 in 9 women who have at least 12 years of schooling have experienced emotional, physical, or sexual spousal violence. The experience of spousal violence is higher among women in urban areas (14\%) than in rural areas (12\%); and among women who are employed for cash ( $20 \%$ ) than women who are not employed $(10 \%)$. Husband's characteristics are also related to overall spousal violence (emotional, physical, or sexual). For instance, women are more likely to experience spousal violence if their husband gets drunk sometimes (19\%), and if the husband has less than 10 years of education. 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.

# Is alcohol use related to spousal physical or sexual violence? 

Percentage of ever-married women experiencing violence


Note: Category "Husband drinks, but never gets drunks" not shown since there are fewer than 25 unweighted cases.

Nearly one-third (29\%) of ever-married women age 18-49 who have ever experienced physical or sexual violence reported suffering from injuries from what their husband did to them. The most common types of injuries are cuts, bruises, or aches.

## Help Seeking

Only 24 percent of women who have ever experienced physical violence by anyone have sought help. Nearly three-fifths of women (57\%) have neither sought help nor told anyone about the violence.

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, 2019-21

| Result | Residence |  | Total |
| :---: | :---: | :---: | :---: |
|  | Urban | Rural |  |
| Household interviews |  |  |  |
| Households selected | 5,352 | 7,592 | 12,944 |
| Households occupied | 5,175 | 7,383 | 12,558 |
| Households interviewed | 5,047 | 7,283 | 12,330 |
| Household response rate ${ }^{1}$ | 97.5 | 98.6 | 98.2 |
| Interviews with women age 15-49 |  |  |  |
| Number of eligible women | 4,751 | 6,600 | 11,351 |
| Number of eligible women interviewed | 4,564 | 6,405 | 10,969 |
| Women response rate ${ }^{2}$ | 96.1 | 97.0 | 96.6 |
| Interviews with men age 15-54 |  |  |  |
| Number of eligible men | 658 | 996 | 1,654 |
| Number of eligible men interviewed | 572 | 901 | 1,473 |
| Men response rate ${ }^{2}$ | 86.9 | 90.5 | 89.1 |

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, 2019-21

| District | Households interviewed |  |  | Household <br> response rate ${ }^{1}$ | Number of women interviewed |  |  | Women response rate ${ }^{2}$ | Number of men interviewed |  |  | Men response rate ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total |  | Urban | Rural | Total |  | Urban | Rural | Total |  |
| Alappuzha | 486 | 400 | 886 | 98.7 | 376 | 309 | 685 | 96.3 | 57 | 54 | 111 | 94.9 |
| Ernakulam | 585 | 272 | 857 | 96.7 | 523 | 224 | 747 | 96.0 | 84 | 31 | 115 | 87.1 |
| Idukki | 41 | 816 | 857 | 97.2 | 41 | 669 | 710 | 96.5 | 9 | 112 | 121 | 86.4 |
| Kannur | 592 | 327 | 919 | 99.9 | 617 | 333 | 950 | 97.4 | 55 | 46 | 101 | 91.8 |
| Kasaragod | 351 | 571 | 922 | 99.9 | 343 | 602 | 945 | 97.8 | 43 | 73 | 116 | 95.1 |
| Kollam | 379 | 480 | 859 | 97.3 | 349 | 404 | 753 | 94.8 | 40 | 38 | 78 | 76.5 |
| Kottayam | 244 | 623 | 867 | 97.6 | 191 | 468 | 659 | 95.9 | 29 | 71 | 100 | 86.2 |
| Kozhikode | 587 | 301 | 888 | 98.2 | 543 | 282 | 825 | 97.3 | 73 | 34 | 107 | 88.4 |
| Malappuram | 413 | 492 | 905 | 99.3 | 475 | 529 | 1,004 | 98.7 | 57 | 84 | 141 | 97.9 |
| Palakkad | 217 | 695 | 912 | 99.7 | 208 | 673 | 881 | 97.9 | 25 | 88 | 113 | 91.9 |
| Pathanamthitta | 96 | 758 | 854 | 98.8 | 64 | 561 | 625 | 97.8 | 14 | 78 | 92 | 90.2 |
| Thiruvananthapuram | 445 | 388 | 833 | 95.0 | 340 | 317 | 657 | 90.0 | 42 | 42 | 84 | 71.8 |
| Thrissur | 570 | 282 | 852 | 96.3 | 463 | 252 | 715 | 97.1 | 37 | 29 | 66 | 86.8 |
| Wayanad | 41 | 878 | 919 | 99.7 | 31 | 782 | 813 | 97.5 | 7 | 121 | 128 | 97.0 |
| Kerala | 5,047 | 7,283 | 12,330 | 98.2 | 4,564 | 6,405 | 10,969 | 96.6 | 572 | 901 | 1,473 | 89.1 |

Note: This table is based on the unweighted sample; all subsequent tables are based on the weighted sample unless otherwise specified. The number of women and men is based on the de facto population.
na $=$ Not applicable
${ }^{1}$ Households interviewed/households occupied
${ }^{2}$ Respondents interviewed/eligible respondents

Table 3 Household population by age, schooling, residence, sex, and possession of an Aadhaar card
Percent distribution of the de facto household population by age and schooling and percentage of de facto individuals who have an Aadhaar card, according to residence and sex, Kerala, 2019-21

| Background characteristic | Urban |  |  | Rural |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Age |  |  |  |  |  |  |  |  |  |
| 0-4 | 6.4 | 5.7 | 6.0 | 6.8 | 5.6 | 6.2 | 6.6 | 5.6 | 6.1 |
| 5-9 | 7.1 | 6.4 | 6.7 | 7.3 | 6.7 | 7.0 | 7.2 | 6.6 | 6.9 |
| 10-14 | 8.3 | 7.6 | 7.9 | 8.1 | 6.7 | 7.4 | 8.2 | 7.1 | 7.6 |
| 15-19 | 7.8 | 6.3 | 7.0 | 7.5 | 6.3 | 6.8 | 7.6 | 6.3 | 6.9 |
| 20-24 | 7.3 | 6.0 | 6.6 | 6.8 | 6.3 | 6.5 | 7.0 | 6.2 | 6.6 |
| 25-29 | 5.7 | 5.6 | 5.7 | 5.7 | 5.9 | 5.8 | 5.7 | 5.8 | 5.7 |
| 30-34 | 5.5 | 6.8 | 6.2 | 6.5 | 6.5 | 6.5 | 6.0 | 6.6 | 6.3 |
| 35-39 | 6.4 | 7.4 | 6.9 | 6.6 | 7.7 | 7.2 | 6.5 | 7.6 | 7.1 |
| 40-44 | 6.6 | 7.4 | 7.0 | 6.9 | 6.8 | 6.8 | 6.7 | 7.1 | 6.9 |
| 45-49 | 6.9 | 7.1 | 7.0 | 7.0 | 7.4 | 7.2 | 6.9 | 7.3 | 7.1 |
| 50-54 | 7.3 | 7.7 | 7.5 | 6.4 | 8.4 | 7.4 | 6.8 | 8.1 | 7.5 |
| 55-59 | 6.4 | 6.6 | 6.5 | 7.0 | 6.5 | 6.7 | 6.7 | 6.6 | 6.6 |
| 60-64 | 6.4 | 6.2 | 6.3 | 6.2 | 6.4 | 6.3 | 6.3 | 6.3 | 6.3 |
| 65-69 | 4.8 | 5.1 | 5.0 | 4.5 | 4.5 | 4.5 | 4.6 | 4.8 | 4.7 |
| 70-74 | 3.4 | 3.4 | 3.4 | 3.1 | 3.3 | 3.2 | 3.3 | 3.4 | 3.3 |
| 75-79 | 1.9 | 1.9 | 1.9 | 1.8 | 2.3 | 2.1 | 1.9 | 2.1 | 2.0 |
| 80 and over | 1.7 | 2.6 | 2.2 | 1.9 | 2.7 | 2.3 | 1.8 | 2.7 | 2.3 |
| 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 | 94.6 | 95.6 | 95.1 | 95.1 | 96.3 | 95.7 | 94.9 | 95.9 | 95.4 |
| Number | 10,386 | 11,818 | 22,205 | 11,491 | 12,698 | 24,189 | 21,876 | 24,516 | 46,394 |
| Sex ratio, all ages ${ }^{1}$ | na | na | 1,138 | na | na | 1,105 | na | na | 1,121 |
| Sex ratio, age 0-6 years ${ }^{1}$ | na | na | 999 | na | na | 940 | na | na | 967 |
| Schooling ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| No schooling | 1.3 | 3.0 | 2.2 | 2.8 | 5.7 | 4.4 | 2.1 | 4.4 | 3.3 |
| <5 years complete | 13.5 | 15.4 | 14.5 | 16.3 | 16.9 | 16.6 | 15.0 | 16.2 | 15.6 |
| 5-9 years complete | 30.9 | 29.7 | 30.3 | 32.8 | 29.1 | 30.9 | 31.9 | 29.4 | 30.6 |
| 10-11 years complete | 22.4 | 19.3 | 20.7 | 21.5 | 19.7 | 20.5 | 21.9 | 19.5 | 20.6 |
| 12 or more years complete | 31.5 | 32.6 | 32.1 | 26.5 | 28.3 | 27.5 | 28.9 | 30.4 | 29.7 |
| Don't know | 0.3 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 9,566 | 11,010 | 20,576 | 10,539 | 11,813 | 22,352 | 20,104 | 22,823 | 42,929 |
| Median number of years of schooling completed | 9.2 | 9.1 | 9.2 | 8.8 | 8.8 | 8.8 | 9.0 | 9.0 | 9.0 |

[^0]
## Table 4 Household and housing characteristics

Percent distribution of urban, rural, and total households and de jure population by household and housing characteristics, Kerala, 2019-21

| Household and housing characteristic | Urban | Rural | Total | De jure population |
| :---: | :---: | :---: | :---: | :---: |
| Household headship |  |  |  |  |
| Male | 76.2 | 76.6 | 76.4 | 79.6 |
| Female | 23.8 | 23.4 | 23.6 | 20.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Mean household size | 3.8 | 3.7 | 3.7 | na |
| Household structure ${ }^{1}$ |  |  |  |  |
| Nuclear | 56.1 | 56.4 | 56.2 | 43.7 |
| Non-nuclear | 43.9 | 43.6 | 43.8 | 56.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Religion of household head |  |  |  |  |
| Hindu | 57.7 | 56.4 | 57.0 | 54.7 |
| Muslim | 26.9 | 21.3 | 24.0 | 27.7 |
| Christian | 15.3 | 22.3 | 19.0 | 17.6 |
| Other | 0.1 | 0.0 | 0.1 | 0.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Caste/tribe of household head |  |  |  |  |
| Scheduled caste | 9.6 | 12.0 | 10.9 | 10.9 |
| Scheduled tribe | 0.4 | 3.0 | 1.8 | 1.7 |
| Other backward class | 56.5 | 44.8 | 50.3 | 52.2 |
| Other | 33.0 | 39.4 | 36.4 | 34.6 |
| Don't know | 0.6 | 0.7 | 0.6 | 0.6 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Electricity |  |  |  |  |
| Yes | 99.9 | 99.2 | 99.5 | 99.6 |
| No | 0.1 | 0.8 | 0.5 | 0.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Source of drinking water |  |  |  |  |
| Improved source | 96.5 | 93.4 | 94.9 | 94.9 |
| Piped water into dwelling/yard/plot | 30.3 | 20.0 | 24.8 | 24.4 |
| Piped to neighbour | 1.3 | 1.5 | 1.4 | 1.4 |
| Public tap/standpipe | 5.5 | 5.2 | 5.3 | 5.0 |
| Tube well or borehole | 5.2 | 6.5 | 5.9 | 6.1 |
| Other improved ${ }^{2}$ | 54.2 | 60.2 | 57.4 | 58.1 |
| Unimproved source | 3.4 | 6.1 | 4.8 | 4.7 |
| Unprotected dug well | 3.4 | 5.0 | 4.2 | 4.2 |
| Unprotected spring | 0.0 | 0.6 | 0.3 | 0.3 |
| Surface water | 0.0 | 0.5 | 0.3 | 0.3 |
| Other source | 0.1 | 0.5 | 0.3 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |

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, 2019-21

| Household and housing characteristic | Urban | Rural | Total | De jure population |
| :---: | :---: | :---: | :---: | :---: |
| Time to obtain drinking water (round trip) |  |  |  |  |
| Water on premises/delivered to dwelling | 96.5 | 94.2 | 95.3 | 95.6 |
| Less than 30 minutes | 3.2 | 5.2 | 4.2 | 4.0 |
| Thirty minutes or longer | 0.2 | 0.4 | 0.3 | 0.3 |
| Don't know | 0.1 | 0.2 | 0.2 | 0.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Percentage with basic drinking water service ${ }^{3}$ | 96.2 | 92.9 | 94.5 | 94.6 |
| Percentage with limited drinking water service ${ }^{4}$ | 0.3 | 0.4 | 0.4 | 0.3 |
| Water treatment prior to drinking ${ }^{5}$ |  |  |  |  |
| Boil | 90.9 | 90.7 | 90.8 | 91.3 |
| Bleach or chlorine tablets | 44.5 | 48.3 | 46.5 | 47.5 |
| Strain through cloth | 0.9 | 0.5 | 0.7 | 0.7 |
| Use ceramic, sand, or other water filter | 3.9 | 1.5 | 2.6 | 2.5 |
| Use electronic purifier | 4.6 | 1.7 | 3.1 | 2.9 |
| Use solar disinfection | 0.0 | 0.0 | 0.0 | 0.0 |
| Allow water to stand and settle | 0.3 | 0.3 | 0.3 | 0.3 |
| Other | 1.0 | 1.5 | 1.3 | 1.2 |
| No treatment | 4.5 | 5.0 | 4.8 | 4.4 |
| Percentage using an appropriate treatment method ${ }^{6}$ | 95.2 | 94.9 | 95.1 | 95.4 |
| Sanitation Facility |  |  |  |  |
| Improved, not shared facility | 98.8 | 98.1 | 98.5 | 98.7 |
| Flush/pour flush to piped sewer system, septic tank, or pit latrine | 94.7 | 89.1 | 91.8 | 92.2 |
| Flush/pour flush, don't know where | 0.0 | 0.1 | 0.1 | 0.0 |
| Pit latrine with slab | 2.8 | 7.0 | 5.0 | 4.9 |
| Other ${ }^{7}$ | 1.2 | 2.0 | 1.6 | 1.5 |
| Shared facility ${ }^{8}$ | 0.4 | 0.8 | 0.6 | 0.5 |
| Flush/pour flush to piped sewer system, septic tank, or pit latrine | 0.4 | 0.7 | 0.6 | 0.5 |
| Pit latrine with slab | 0.0 | 0.1 | 0.1 | 0.0 |
| Other ${ }^{7}$ | 0.0 | 0.0 | 0.0 | 0.0 |
| Unimproved | 0.6 | 0.6 | 0.6 | 0.6 |
| Flush/pour flush not to piped sewer system, septic tank, or pit latrine | 0.3 | 0.2 | 0.2 | 0.2 |
| Pit latrine without slab/open pit | 0.2 | 0.3 | 0.3 | 0.3 |
| Dry toilet | 0.0 | 0.1 | 0.0 | 0.0 |
| Other | 0.0 | 0.1 | 0.1 | 0.1 |
| No facility/uses open spaces/field | 0.2 | 0.4 | 0.3 | 0.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Percentage with basic sanitation service ${ }^{9}$ | 98.8 | 98.1 | 98.5 | 98.7 |
| Percentage with limited sanitation service ${ }^{10}$ | 0.4 | 0.8 | 0.6 | 0.5 |

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, 2019-21

| Household and housing characteristic | Urban | Rural | Total | De jure population |
| :---: | :---: | :---: | :---: | :---: |
| Type of house ${ }^{11}$ |  |  |  |  |
| Kachha | 0.0 | 0.6 | 0.3 | 0.3 |
| Semi-pucca | 16.3 | 15.0 | 15.6 | 15.7 |
| Pucca | 82.9 | 83.8 | 83.4 | 83.3 |
| Missing | 0.7 | 0.6 | 0.7 | 0.7 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Persons per room used for sleeping |  |  |  |  |
| <3 | 88.2 | 88.4 | 88.3 | 83.9 |
| 3-4 | 10.8 | 10.3 | 10.5 | 14.3 |
| 5-6 | 1.0 | 1.1 | 1.1 | 1.6 |
| 7 and over | 0.0 | 0.1 | 0.1 | 0.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Cooking fuel |  |  |  |  |
| Electricity | 0.3 | 0.5 | 0.4 | 0.3 |
| LPG/natural gas | 78.0 | 65.4 | 71.3 | 71.1 |
| Biogas | 0.2 | 0.5 | 0.4 | 0.4 |
| Kerosene | 0.3 | 0.3 | 0.3 | 0.3 |
| Coal/lignite | 0.1 | 0.0 | 0.1 | 0.0 |
| Charcoal | 0.1 | 0.7 | 0.4 | 0.3 |
| Wood | 20.9 | 32.5 | 27.0 | 27.5 |
| Straw/shrubs/grass | 0.0 | 0.0 | 0.0 | 0.0 |
| No food cooked in the household | 0.2 | 0.1 | 0.2 | 0.1 |
| Other | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Percentage using clean fuel for cooking ${ }^{12}$ | 78.5 | 66.3 | 72.1 | 71.8 |
| Percentage using solid fuel for cooking ${ }^{13}$ | 21.0 | 33.2 | 27.4 | 27.8 |
| Place for cooking |  |  |  |  |
| In the house, separate room | 94.8 | 91.6 | 93.2 | 93.6 |
| In the house, no separate room | 1.8 | 3.6 | 2.7 | 2.5 |
| In a separate building | 2.2 | 3.2 | 2.7 | 2.8 |
| Outdoors | 1.0 | 1.4 | 1.2 | 1.1 |
| No food cooked in household | 0.2 | 0.1 | 0.2 | 0.1 |
| Other | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 5,838 | 6,492 | 12,330 | 46,072 |

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, 2019-21

| Household and housing characteristic | Urban | Rural | Total | De jure population |
| :---: | :---: | :---: | :---: | :---: |
| Type of fire/stove among households using solid fuels ${ }^{13}$ |  |  |  |  |
| Stove | 4.4 | 5.5 | 5.1 | 5.2 |
| Chullah | 85.7 | 81.6 | 83.1 | 84.2 |
| Open fire | 9.9 | 12.6 | 11.6 | 10.3 |
| Other | 0.0 | 0.3 | 0.2 | 0.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Number using solid fuel | 1,229 | 2,156 | 3,384 | 12,827 |
| Frequency of smoking in the house ${ }^{14}$ |  |  |  |  |
| Daily | 8.5 | 12.9 | 10.8 | 11.2 |
| Weekly | 3.0 | 4.4 | 3.8 | 4.0 |
| Monthly | 0.7 | 1.0 | 0.9 | 0.9 |
| Less than monthly | 0.8 | 0.7 | 0.7 | 0.7 |
| Never | 87.0 | 80.9 | 83.8 | 83.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 5,838 | 6,492 | 12,330 | 46,072 |

## 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. The remaining households are non-nuclear households.
${ }^{2}$ Protected dug well, protected spring, rainwater, community RO plant, tanker truck, cart with small tank, bottled water
${ }^{3}$ Defined as drinking water from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less. Includes safely managed drinking water, which is not shown separately.
${ }^{4}$ Drinking water from an improved source, provided round-trip collection time is more than 30 minutes or is unknown
${ }^{5}$ Total may add to more than 100.0 because households may use more than one method of treatment.
${ }^{6}$ Appropriate water treatment methods are boiling, adding bleach/chlorine tablets, filtering, electronic purifying, and solar disinfection
${ }^{7}$ Includes ventilated improved pit (VIP) latrine/biogas latrine, and twin pit/composting toilet
${ }^{8}$ Facilities that would be considered improved if they were not shared by two or more households
${ }^{9}$ Defined as use of improved facilities that are not shared with other households
${ }^{10}$ Defined as use of improved facilities shared by two or more households
${ }^{11}$ Houses made from mud, thatch, or other low-quality materials are called kachha houses, houses that use partly low-quality and partly highquality 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.
${ }^{12}$ Electricity, LPG/natural gas, biogas
${ }^{13}$ Includes coal//ignite, charcoal, wood, straw/shrubs/grass, agricultural crop waste, and dung cakes
${ }^{14}$ Frequency of smoking by anyone inside the house

Table 5 Access to a toilet facility
Percentage of households having access to a toilet facility by selected background characteristics, according to residence, Kerala, 2019-21

| Background characteristic | Urban | Rural | Total |
| :--- | :---: | :---: | ---: |
|  |  |  |  |
| Religion of household head | 99.8 | 99.7 | 99.7 |
| Hindu | 100.0 | 99.9 | 100.0 |
| Muslim | 100.0 | 99.8 | 99.9 |
| Christian |  |  |  |
| Caste/tribe of household head | 99.6 | 99.8 | 99.7 |
| Scheduled caste | $*$ | 97.6 | 97.9 |
| Scheduled tribe | 99.9 | 99.8 | 99.9 |
| Other backward class | 99.9 | 100.0 | 100.0 |
| Other | $195.7)$ | $194.7)$ | 95.1 |
| Don't know |  |  |  |
|  | 99.9 | 99.8 | 99.8 |
| Total |  |  |  |

Note: Includes households that have any type of toilet facility that household members usually use and households that do not use a toilet facility but report that they have access to a toilet facility. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes households with household head belonging to other religions, which are not shown separately.

## Table 6 Access to a toilet facility by district

Percentage of households having access to a toilet facility by district, according to residence, Kerala, 2019-21

| District | Urban | Rural | Total |
| :--- | ---: | ---: | ---: |
|  |  |  |  |
| Alappuzha | 100.0 | 99.7 | 99.9 |
| Ernakulam | 99.6 | 100.0 | 99.7 |
| Idukki | $(100.0)$ | 99.8 | 99.8 |
| Kannur | 100.0 | 100.0 | 100.0 |
| Kasaragod | 100.0 | 99.7 | 99.8 |
| Kollam | 99.7 | 100.0 | 99.9 |
| Kottayam | 100.0 | 99.5 | 99.6 |
| Kozhikode | 99.8 | 100.0 | 99.9 |
| Malappuram | 100.0 | 100.0 | 100.0 |
| Palakkad | 100.0 | 99.3 | 99.5 |
| Pathanamthitta | 99.0 | 99.9 | 99.8 |
| Thiruvananthapuram | 99.8 | 99.5 | 99.6 |
| Thrissur | 100.0 | 100.0 | 100.0 |
| Wayanad | $100.0)$ | 99.6 | 99.6 |
|  |  |  |  |
| Kerala | 99.9 | 99.8 | 99.8 |

Note: Includes households that have any type of toilet facility that household members usually use and households that do not use a toilet facility but report that they have access to a toilet facility. Figures in parentheses are based on 25-49 unweighted cases.

Table 7 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, a health insurance/financing scheme, a BPL card, and a long-lasting insecticide-treated (LLIN) mosquito net, Kerala, 2019-21

| Household possessions | Urban | Rural | Total | De jure population |
| :---: | :---: | :---: | :---: | :---: |
| Household goods |  |  |  |  |
| Mattress | 95.6 | 93.0 | 94.2 | 95.1 |
| Pressure cooker | 92.7 | 85.4 | 88.9 | 90.7 |
| Chair | 99.3 | 99.0 | 99.1 | 99.2 |
| Cot or bed | 99.1 | 98.2 | 98.6 | 98.8 |
| Table | 96.8 | 93.8 | 95.2 | 96.2 |
| Electric fan | 98.9 | 95.5 | 97.1 | 97.7 |
| Radio or transistor | 18.5 | 15.2 | 16.8 | 16.3 |
| Television (black and white) | 2.3 | 2.3 | 2.3 | 2.2 |
| Television (colour) | 86.9 | 87.4 | 87.1 | 87.8 |
| Any television | 87.4 | 88.4 | 87.9 | 88.5 |
| Sewing machine | 38.1 | 34.5 | 36.2 | 39.9 |
| Mobile telephone | 97.9 | 96.8 | 97.3 | 98.2 |
| Landline telephone | 13.0 | 8.6 | 10.7 | 10.4 |
| Internet | 31.9 | 23.1 | 27.2 | 28.7 |
| Computer | 21.3 | 15.3 | 18.1 | 18.7 |
| Refrigerator | 81.4 | 70.7 | 75.8 | 78.1 |
| Air conditioner/cooler | 17.6 | 9.7 | 13.5 | 13.8 |
| Washing machine | 46.1 | 32.2 | 38.8 | 39.8 |
| Watch or clock | 96.1 | 93.9 | 94.9 | 95.6 |
| Water pump | 63.8 | 61.2 | 62.4 | 64.2 |
| Thresher | 3.1 | 2.1 | 2.6 | 2.5 |
| Tractor | 0.2 | 0.4 | 0.3 | 0.3 |
| None of the above | 0.0 | 0.1 | 0.0 | 0.0 |
| Means of transport |  |  |  |  |
| Bicycle | 27.9 | 21.4 | 24.5 | 28.0 |
| Motorcycle or scooter | 61.3 | 55.4 | 58.2 | 63.0 |
| Animal-drawn cart | 0.4 | 0.4 | 0.4 | 0.4 |
| Car | 26.4 | 22.1 | 24.2 | 25.9 |
| None of the above | 26.0 | 33.5 | 30.0 | 25.0 |
| Agricultural land |  |  |  |  |
| No agricultural land | 92.5 | 80.9 | 86.4 | 86.2 |
| Irrigated land only | 6.1 | 14.9 | 10.7 | 10.9 |
| Non-irrigated land only | 0.8 | 2.6 | 1.7 | 1.7 |
| Both irrigated and non-irrigated land | 0.2 | 0.6 | 0.4 | 0.4 |
| Irrigation not determined | 0.4 | 1.0 | 0.7 | 0.8 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Percentage owning a house | 85.7 | 88.8 | 87.4 | 88.3 |
| Percentage owning farm animals ${ }^{1}$ | 18.2 | 31.3 | 25.1 | 27.9 |
| Percentage having a bank account/post office account ${ }^{2}$ | 96.1 | 96.2 | 96.1 | 96.7 |
| Percentage covered by a health insurance/financing scheme ${ }^{3}$ | 47.2 | 55.4 | 51.5 | 52.4 |
| Percentage having a BPL card | 37.5 | 48.7 | 43.4 | 44.0 |
| Percentage with an LLIN mosquito net | 3.8 | 2.9 | 3.3 | 3.7 |
| Number | 5,838 | 6,492 | 12,330 | 46,072 |

[^1]
## Table 8 Preschool attendance

Percent of de facto household population age 2-4 years attending preschool by selected background characteristics, according to residence and sex, Kerala, 2019-21

| Background characteristic | Urban |  |  | Rural |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Religion of household head |  |  |  |  |  |  |  |  |  |
| Hindu | 51.5 | 62.6 | 57.4 | 55.1 | 61.3 | 58.0 | 53.6 | 61.9 | 57.8 |
| Muslim | 47.1 | 47.2 | 47.2 | 43.5 | 46.7 | 45.0 | 45.5 | 47.0 | 46.2 |
| Christian | (70.3) | (64.7) | 67.5 | 53.5 | 55.9 | 54.7 | 58.8 | 58.9 | 58.8 |
| Caste/tribe of household head |  |  |  |  |  |  |  |  |  |
| Scheduled caste | (36.6) | (70.6) | 57.1 | 54.6 | 55.6 | 55.1 | 49.3 | 62.0 | 55.8 |
| Scheduled tribe | * | * | * | * | * | (64.0) | * | (57.2) | (58.3) |
| Other backward class | 50.0 | 52.3 | 51.1 | 49.9 | 58.3 | 53.8 | 50.0 | 55.0 | 52.3 |
| Other | 58.3 | 61.9 | 60.0 | 51.1 | 50.5 | 50.8 | 53.8 | 54.8 | 54.3 |
| Household structure ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Nuclear | 46.6 | 52.3 | 49.4 | 53.3 | 41.7 | 48.4 | 50.4 | 47.0 | 48.9 |
| Non-nuclear | 53.0 | 57.5 | 55.2 | 50.0 | 59.4 | 54.6 | 51.4 | 58.5 | 54.9 |
| Family size |  |  |  |  |  |  |  |  |  |
| 3-5 members | 50.1 | 56.1 | 53.2 | 50.7 | 55.2 | 52.9 | 50.4 | 55.6 | 53.0 |
| 6 or more members | 52.6 | 56.3 | 54.4 | 51.0 | 55.1 | 52.9 | 51.8 | 55.7 | 53.6 |
| Total | 51.3 | 56.2 | 53.7 | 50.9 | 55.3 | 53.0 | 51.1 | 55.8 | 53.4 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes children in households with household head whose caste/tribe is not known and children in households with 1-2 members, 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. The remaining households are non-nuclear households.

Table 9 Preschool attendance by district
Percentage of de facto household population age 2-4 years attending preschool by district, according to residence and sex, Kerala, 2019-21

| District | Urban |  |  | Rural |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Alappuzha | * | (89.6) | (82.5) | * | (64.5) | (62.3) | (62.5) | 78.7 | 72.3 |
| Ernakulam | (61.8) | (68.3) | 65.1 | * | * | (44.0) | 55.5 | 58.3 | 56.9 |
| Idukki | * | * | * | 49.8 | (69.6) | 57.5 | 49.6 | 66.2 | 56.0 |
| Kannur | 49.7 | 48.9 | 49.3 | (66.2) | (39.8) | 53.0 | 55.0 | 45.8 | 50.5 |
| Kasaragod | (54.9) | (52.3) | 53.8 | 42.3 | 53.9 | 48.3 | 48.1 | 53.3 | 50.6 |
| Kollam | * | * | (70.6) | (50.2) | (47.1) | 48.5 | (55.6) | 56.4 | 56.1 |
| Kottayam | * | * | (65.4) | (54.1) | (52.7) | 53.4 | 52.2 | (62.0) | 56.8 |
| Kozhikode | (52.2) | (59.9) | 56.1 | (56.9) | (53.7) | 55.5 | 54.2 | 57.7 | 55.9 |
| Malappuram | 38.5 | (41.2) | 39.7 | 42.9 | 56.4 | 49.3 | 40.7 | 49.0 | 44.5 |
| Palakkad | * | * | (41.4) | 53.9 | (45.5) | 50.1 | 55.0 | 39.4 | 47.6 |
| Pathanamthitta | * | * | * | (64.7) | (59.2) | 62.2 | (65.5) | (57.3) | 61.9 |
| Thiruvananthapuram | * | (51.2) | 52.7 | (51.3) | (75.8) | 63.2 | 52.6 | 63.6 | 58.3 |
| Thrissur | (48.7) | (53.6) | 50.9 | * | * | (53.8) | 49.7 | (54.6) | 51.8 |
| Wayanad | * | * | * | 34.5 | 68.5 | 50.2 | 33.9 | 68.0 | 49.7 |
| Kerala | 51.3 | 56.2 | 53.7 | 50.9 | 55.3 | 53.0 | 51.1 | 55.8 | 53.4 |

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

Percentage of de facto household population age 6-17 years attending school in the 2019-20 school year by sex and residence, according to background characteristics, Kerala, 2019-21

| Background characteristic | Male |  |  | Female |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total | Urban | Rural | Total |
| Age |  |  |  |  |  |  |  |  |  |
| 6-10 (Primary) | 99.3 | 99.5 | 99.4 | 99.8 | 99.4 | 99.6 | 99.6 | 99.5 | 99.5 |
| 6-13 (Elementary) | 99.5 | 99.6 | 99.6 | 99.9 | 99.6 | 99.8 | 99.7 | 99.6 | 99.7 |
| 11-13 (Upper Primary) | 99.7 | 99.8 | 99.7 | 100.0 | 99.9 | 100.0 | 99.8 | 99.9 | 99.8 |
| 14-15 (Secondary) | 99.3 | 98.2 | 98.7 | 100.0 | 98.9 | 99.4 | 99.6 | 98.5 | 99.1 |
| 16-17 (Higher Secondary) | 89.8 | 90.8 | 90.3 | 95.3 | 93.6 | 94.4 | 92.5 | 92.2 | 92.4 |
| 11-14 years | 99.6 | 99.6 | 99.6 | 100.0 | 99.9 | 100.0 | 99.8 | 99.7 | 99.8 |
| 15-17 years | 92.8 | 92.7 | 92.7 | 96.7 | 95.0 | 95.8 | 94.7 | 93.8 | 94.3 |
| 6-14 years | 99.4 | 99.6 | 99.5 | 99.9 | 99.6 | 99.8 | 99.7 | 99.6 | 99.6 |
| 6-17 years | 97.8 | 97.9 | 97.8 | 99.2 | 98.5 | 98.8 | 98.5 | 98.2 | 98.3 |
| Religion of household head |  |  |  |  |  |  |  |  |  |
| Hindu | 98.0 | 97.6 | 97.8 | 99.0 | 98.0 | 98.4 | 98.5 | 97.8 | 98.1 |
| Muslim | 97.5 | 97.9 | 97.7 | 99.4 | 99.0 | 99.2 | 98.5 | 98.5 | 98.5 |
| Christian | 97.8 | 98.7 | 98.4 | 99.2 | 99.0 | 99.1 | 98.5 | 98.9 | 98.7 |
| Caste/tribe of household head |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 97.7 | 94.6 | 96.0 | 98.6 | 96.4 | 97.3 | 98.2 | 95.6 | 96.7 |
| Scheduled tribe | * | 93.8 | 94.3 | * | 86.9 | 86.5 | * | 90.0 | 90.0 |
| Other backward class | 98.0 | 98.7 | 98.3 | 99.3 | 99.2 | 99.3 | 98.7 | 99.0 | 98.8 |
| Other | 96.8 | 98.4 | 97.7 | 99.0 | 98.9 | 98.9 | 97.9 | 98.6 | 98.3 |

[^2]Table 11 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, 2019-21

| 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 | 69.6 | 28.1 | 0.7 | 1.5 | 100.0 | 0.8 | 2,767 |
| 5-9 years | 73.8 | 23.5 | 1.1 | 1.6 | 100.0 | 1.8 | 3,140 |
| 10-14 years | 76.0 | 20.9 | 1.6 | 1.5 | 100.0 | 2.9 | 3,526 |
| 15-17 years | 75.3 | 20.7 | 2.0 | 1.9 | 100.0 | 5.4 | 1,881 |
| Residence |  |  |  |  |  |  |  |
| Urban | 72.1 | 25.5 | 1.2 | 1.2 | 100.0 | 2.7 | 5,440 |
| Rural | 75.2 | 21.4 | 1.4 | 2.0 | 100.0 | 2.3 | 5,875 |
| Sex |  |  |  |  |  |  |  |
| Male | 73.5 | 23.6 | 1.5 | 1.4 | 100.0 | 2.5 | 5,705 |
| Female | 74.0 | 23.1 | 1.1 | 1.8 | 100.0 | 2.5 | 5,610 |
| Total age < 15 years | 73.4 | 23.9 | 1.2 | 1.6 | 100.0 | 1.9 | 9,433 |
| Total age <18 years | 73.7 | 23.4 | 1.3 | 1.6 | 100.0 | 2.5 | 11,315 |

${ }^{1}$ 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 12 Birth registration of children under age 5
Percentage of de jure children under age 5 years whose birth was registered with the civil authorities, according to background characteristics, Kerala, 2019-21

| Background characteristic | Percentage of children whose birth was registered |  |  | De jure children |
| :---: | :---: | :---: | :---: | :---: |
|  | Registered, has a birth certificate | Registered, does not have a birth certificate | Total registered |  |
| Age |  |  |  |  |
| <2 | 80.7 | 17.4 | 98.1 | 1,001 |
| 2-4 | 95.1 | 4.4 | 99.4 | 1,766 |
| Sex |  |  |  |  |
| Male | 89.3 | 9.4 | 98.7 | 1,414 |
| Female | 90.6 | 8.7 | 99.2 | 1,353 |
| Residence |  |  |  |  |
| Urban | 90.6 | 8.9 | 99.5 | 1,303 |
| Rural | 89.3 | 9.2 | 98.5 | 1,464 |
| Total | 89.9 | 9.1 | 99.0 | 2,767 |

## Table 13 Birth registration of children under age 5 by district

Percentage of de jure children under age 5 years whose birth was registered with the civil authorities, by district, Kerala, 2019-21

|  | Percentage of children whose <br> birth was registered |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Registered, <br> has a birth <br> certificate | Registered, <br> does not have a <br> birth certificate | Total <br> registered | De jure <br> children |
| District |  |  |  |  |
|  | 82.7 | 12.6 | 95.3 | 146 |
| Alappuzha | 85.9 | 12.1 | 98.0 | 252 |
| Ernakulam | 86.2 | 11.5 | 97.8 | 89 |
| Idukki | 90.6 | 9.1 | 99.6 | 262 |
| Kannur | 84.3 | 14.9 | 99.1 | 161 |
| Kasaragod | 95.2 | 4.8 | 100.0 | 182 |
| Kollam | 83.3 | 13.8 | 97.2 | 129 |
| Kottayam | 88.4 | 10.5 | 98.9 | 266 |
| Kozhikode | 94.0 | 5.7 | 99.7 | 468 |
| Malappuram | 90.5 | 9.0 | 99.5 | 227 |
| Palakkad | 91.9 | 8.1 | 100.0 | 63 |
| Pathanamthitta | 92.6 | 6.8 | 99.4 | 254 |
| Thiruvananthapuram | 92.6 | 7.4 | 100.0 | 200 |
| Thrissur | 89.7 | 7.1 | 96.8 | 68 |
| Wayanad |  |  |  |  |
|  | 89.9 | 9.1 | 99.0 | 2,767 |
| Kerala |  |  |  |  |

Among deaths of usual residents during the 3 years preceding the survey, percentage of deaths registered with civil authority by selected background characteristics, according to residence and sex, Kerala, 2019-21

| Background characteristic | Urban |  |  | Rural |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Age at death |  |  |  |  |  |  |  |  |  |
| 0-4 | (100.0) | (100.0) | 100.0 | 97.3 | (95.8) | 96.6 | 98.6 | 97.8 | 98.2 |
| 25-34 | , | , | * | * | * | * | * | * | (95.4) |
| 35 and over | 98.6 | 96.2 | 97.6 | 98.0 | 95.9 | 97.1 | 98.3 | 96.0 | 97.3 |
| Religion of household head |  |  |  |  |  |  |  |  |  |
| Hindu | 99.5 | 96.6 | 98.2 | 97.7 | 94.6 | 96.4 | 98.5 | 95.5 | 97.2 |
| Muslim | 100.0 | (95.2) | 98.1 | (95.6) | (100.0) | 97.8 | 98.4 | 97.5 | 98.0 |
| Christian | (94.6) | (100.0) | 97.0 | 98.8 | 96.9 | 97.9 | 97.1 | 98.1 | 97.6 |
| Caste/tribe of household head |  |  |  |  |  |  |  |  |  |
| Scheduled caste | (100.0) | * | 100.0 | 96.9 | (91.6) | 94.7 | 98.3 | 95.3 | 97.1 |
| Scheduled tribe | ) | * | * | * | * | * | * | * | (89.9) |
| Other backward class | 98.6 | 98.0 | 98.3 | 96.4 | 95.7 | 96.1 | 97.5 | 96.9 | 97.2 |
| Other | 98.7 | 95.1 | 97.1 | 99.3 | 98.3 | 98.8 | 99.0 | 97.1 | 98.1 |
| Total | 98.8 | 96.9 | 98.0 | 97.7 | 96.0 | 96.9 | 98.2 | 96.4 | 97.4 |

[^3] has been suppressed. Total includes deaths of persons age 5-9 or 10-14 or 15-24 or 25-34, which are not shown separately.

Table 15 Death registration by district
Among deaths of usual residents during the 3 years preceding the survey, percentage of deaths registered with civil authority by district, according to residence and sex, Kerala, 2019-21

| District | Urban |  |  | Rural |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Alappuzha | (100.0) | (100.0) | 100.0 | * | (100.0) | (100.0) | (100.0) | 100.0 | 100.0 |
| Ernakulam | (96.3) | * | (98.0) | * | * | (100.0) | (97.2) | (100.0) | 98.7 |
| Idukki | * | * | * | 98.2 | (95.9) | 97.5 | 98.3 | (96.4) | 97.6 |
| Kannur | (100.0) | * | (97.7) | * | * | * | (100.0) | (96.0) | 98.5 |
| Kasaragod | * | * | (97.1) | (96.9) | * | (94.3) | 98.3 | (89.9) | 95.5 |
| Kollam | * | * | (100.0) | (93.4) | * | 94.3 | (95.3) | (97.1) | 96.2 |
| Kottayam | ${ }^{*}$ | * | * | (97.5) | * | 98.3 | 96.5 | (100.0) | 97.6 |
| Kozhikode | (100.0) | * | (100.0) | * | * | * | (97.5) | * | 98.5 |
| Malappuram | * | * | (100.0) | * | * | (94.7) | (100.0) | (93.4) | 97.3 |
| Palakkad | * | * | * | (94.9) | (96.8) | 95.8 | (96.2) | (94.4) | 95.4 |
| Pathanamthitta | * | * | * | (100.0) | (89.7) | 94.7 | (100.0) | (90.0) | 95.1 |
| Thiruvananthapuram | * | * | (90.8) | , | * | (97.5) | (98.1) | (89.6) | 94.2 |
| Thrissur | (100.0) | (100.0) | 100.0 | * | * | (100.0) | (100.0) | (100.0) | 100.0 |
| Wayanad | * | * | * | (97.8) | * | 96.9 | (97.9) | * | 97.1 |
| Kerala | 98.8 | 96.9 | 98.0 | 97.7 | 96.0 | 96.9 | 98.2 | 96.4 | 97.4 |

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

Table 16 Disability
Percentage of de jure household population having disability by type of disability, according to residence, age, and sex, Kerala, 2019-21

| Background characteristic | Type of disability |  |  |  |  |  |  | Number of persons |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Any | Hearing disability | Speech disability | Visual disability | Mental disability | Locomotor | Other |  |
| FEMALE |  |  |  |  |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 0.7 | 0.1 | 0.1 | 0.0 | 0.3 | 0.2 | 0.0 | 11,689 |
| Rural | 1.2 | 0.2 | 0.2 | 0.1 | 0.4 | 0.4 | 0.1 | 12,576 |
| Age |  |  |  |  |  |  |  |  |
| 0-4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 1,354 |
| 5-14 | 0.7 | 0.1 | 0.1 | 0.0 | 0.3 | 0.2 | 0.0 | 3,329 |
| 15-24 | 1.0 | 0.1 | 0.2 | 0.0 | 0.4 | 0.4 | 0.1 | 3,005 |
| 25-34 | 0.9 | 0.2 | 0.1 | 0.0 | 0.6 | 0.1 | 0.1 | 2,982 |
| 35-49 | 1.1 | 0.2 | 0.2 | 0.1 | 0.5 | 0.4 | 0.0 | 5,338 |
| 50-69 | 1.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.5 | 0.0 | 6,277 |
| 70 and over | 0.9 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.0 | 1,980 |
| Total | 0.9 | 0.1 | 0.1 | 0.1 | 0.4 | 0.3 | 0.0 | 24,265 |

MALE

| Residence |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Urban | 1.5 | 0.2 | 0.3 | 0.2 | 0.4 | 0.5 | 0.1 | 10,348 |
| Rural | 1.3 | 0.2 | 0.1 | 0.1 | 0.4 | 0.6 | 0.0 | 11,459 |
| Age |  |  |  |  |  |  |  |  |
| 0-4 | 0.4 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 | 0.0 | 1,418 |
| 5-14 | 1.0 | 0.1 | 0.2 | 0.1 | 0.4 | 0.4 | 0.1 | 3,337 |
| 15-24 | 0.9 | 0.0 | 0.1 | 0.1 | 0.4 | 0.4 | 0.1 | 3,202 |
| 25-34 | 1.0 | 0.0 | 0.2 | 0.0 | 0.5 | 0.3 | 0.1 | 2,559 |
| 35-49 | 2.0 | 0.2 | 0.3 | 0.1 | 0.7 | 0.8 | 0.1 | 4,424 |
| 50-69 | 1.8 | 0.3 | 0.1 | 0.2 | 0.3 | 0.9 | 0.1 | 5,354 |
| 70 and over | 2.0 | 0.7 | 0.3 | 0.3 | 0.2 | 0.7 | 0.1 | 1,513 |
| Total | 1.4 | 0.2 | 0.2 | 0.1 | 0.4 | 0.6 | 0.1 | 21,807 |
| TOTAL |  |  |  |  |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 1.1 | 0.2 | 0.2 | 0.1 | 0.4 | 0.4 | 0.1 | 22,038 |
| Rural | 1.2 | 0.2 | 0.1 | 0.1 | 0.4 | 0.5 | 0.0 | 24,035 |
| Age |  |  |  |  |  |  |  |  |
| 0-4 | 0.3 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 2,772 |
| 5-14 | 0.8 | 0.1 | 0.2 | 0.1 | 0.4 | 0.3 | 0.0 | 6,666 |
| 15-24 | 1.0 | 0.1 | 0.2 | 0.0 | 0.4 | 0.4 | 0.1 | 6,207 |
| 25-34 | 1.0 | 0.1 | 0.2 | 0.0 | 0.5 | 0.2 | 0.1 | 5,541 |
| 35-49 | 1.5 | 0.2 | 0.2 | 0.1 | 0.6 | 0.6 | 0.1 | 9,762 |
| 50-69 | 1.4 | 0.3 | 0.1 | 0.1 | 0.2 | 0.7 | 0.1 | 11,631 |
| 70 and over | 1.3 | 0.4 | 0.1 | 0.3 | 0.3 | 0.4 | 0.1 | 3,493 |
| Total | 1.2 | 0.2 | 0.2 | 0.1 | 0.4 | 0.5 | 0.1 | 46,072 |

[^4]Table 17 Background characteristics of respondents
Percent distribution of women and men age 15-49 by selected background characteristics, Kerala, 2019-21

| Background characteristic | Weighted percent |  | Number of women |  | Number of men |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women | Men | Weighted | Unweighted | Weighted | Unweighted |
| Age |  |  |  |  |  |  |
| 15-19 | 13.4 | 16.5 | 1,472 | 1,459 | 215 | 208 |
| 20-24 | 13.0 | 14.0 | 1,426 | 1,422 | 182 | 186 |
| 25-29 | 12.1 | 11.6 | 1,332 | 1,337 | 150 | 153 |
| 30-34 | 14.1 | 12.2 | 1,541 | 1,522 | 159 | 161 |
| 35-39 | 16.0 | 15.1 | 1,760 | 1,752 | 197 | 188 |
| 40-44 | 15.3 | 14.4 | 1,679 | 1,690 | 187 | 190 |
| 45-49 | 16.0 | 16.2 | 1,758 | 1,787 | 210 | 208 |
| Residence |  |  |  |  |  |  |
| Urban | 48.1 | 46.1 | 5,277 | 4,564 | 599 | 496 |
| Rural | 51.9 | 53.9 | 5,692 | 6,405 | 700 | 798 |
| Schooling |  |  |  |  |  |  |
| No schooling | 0.8 | 2.3 | 83 | 122 | 30 | 32 |
| <5 years complete | 1.8 | 2.0 | 197 | 221 | 26 | 29 |
| 5-9 years complete | 20.5 | 22.4 | 2,246 | 2,265 | 291 | 301 |
| 10-11 years complete | 25.8 | 30.7 | 2,826 | 2,850 | 399 | 391 |
| 12 or more years complete | 51.2 | 42.5 | 5,617 | 5,511 | 553 | 541 |
| Literacy |  |  |  |  |  |  |
| Literate ${ }^{1}$ | 97.4 | 97.1 | 10,679 | 10,607 | 1,261 | 1,254 |
| Not literate | 2.5 | 2.5 | 270 | 340 | 33 | 35 |
| Not measured | 0.2 | 0.4 | 20 | 22 | 5 | 5 |
| Percentage exposed to various media |  |  |  |  |  |  |
| Reads a newspaper/magazine at least once a week | 58.0 | 65.9 | 6,361 | 6,233 | 856 | 857 |
| Watches television at least once a week | 72.2 | 75.8 | 7,916 | 7,987 | 985 | 991 |
| Listens to the radio at least once a week | 10.8 | 14.7 | 1,182 | 1,142 | 191 | 183 |
| Visits the cinema/theatre at least once a month | 11.8 | 41.4 | 1,294 | 1,252 | 538 | 526 |
| Not regularly exposed to any media | 13.3 | 7.1 | 1,460 | 1,460 | 93 | 95 |
| Marital status |  |  |  |  |  |  |
| Never married | 21.5 | 46.5 | 2,360 | 2,384 | 604 | 608 |
| Currently married | 74.4 | 52.3 | 8,163 | 8,130 | 679 | 669 |
| Married, gauna not performed | 0.0 | 0.0 | 5 | 6 | 0 | 0 |
| Widowed | 2.4 | 0.2 | 259 | 264 | 2 | 3 |
| Divorced/separated/deserted | 1.7 | 1.0 | 181 | 185 | 13 | 14 |
| Religion |  |  |  |  |  |  |
| Hindu | 54.3 | 57.1 | 5,958 | 6,094 | 742 | 762 |
| Muslim | 29.8 | 25.9 | 3,272 | 3,010 | 337 | 287 |
| Christian | 15.8 | 17.0 | 1,736 | 1,860 | 221 | 245 |
| Other | 0.0 | 0.0 | 4 | 5 | 0 | 0 |

Table 17 Background characteristics of respondents-Continued
Percent distribution of women and men age 15-49 by selected background characteristics, Kerala, 2019-21

| Background characteristic | Weighted percent |  | Number of women |  | Number of men |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women | Men | Weighted | Unweighted | Weighted | Unweighted |
| Caste/tribe |  |  |  |  |  |  |
| Scheduled caste | 11.0 | 10.6 | 1,210 | 1,281 | 138 | 147 |
| Scheduled tribe | 1.6 | 2.3 | 176 | 307 | 30 | 54 |
| Other backward class | 58.4 | 59.0 | 6,409 | 6,129 | 767 | 702 |
| Other | 28.6 | 27.0 | 3,139 | 3,220 | 351 | 377 |
| Don't know | 0.3 | 1.0 | 36 | 32 | 13 | 14 |
| Employment status (past 12 months) |  |  |  |  |  |  |
| Employed at any time | 26.1 | 74.7 | 439 | 448 | 971 | 970 |
| In agricultural occupation | 3.6 | 6.6 | 61 | 63 | 85 | 105 |
| In non-agricultural occupation | 20.9 | 59.7 | 351 | 362 | 775 | 755 |
| Don't know | 1.6 | 8.5 | 27 | 23 | 111 | 110 |
| Not employed | 73.9 | 25.3 | 1,244 | 1,211 | 328 | 324 |
| Total age 15-49 | 100.0 | 100.0 | 1,683 | 1,659 | 1,299 | 1,294 |
| Age 50-54 | na | 11.8 | na | na | 174 | 179 |
| Total age 15-54 | na | 100.0 | na | na | 1,473 | 1,473 |

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 9 or higher (who are assumed to be literate)

## Table 18 Fertility trends

Age-specific and total fertility rates and crude birth rates for the 3 years preceding the survey from NFHS-5, NFHS-4, and NFHS-3, by residence, Kerala

| Age | NFHS-5 |  |  | NFHS-4 |  |  | NFHS-3 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total | Urban | Rural | Total |
| 15-19 | 0.015 | 0.021 | 0.018 | 0.022 | 0.020 | 0.021 | 0.022 | 0.042 | 0.035 |
| 20-24 | 0.120 | 0.125 | 0.123 | 0.109 | 0.111 | 0.110 | 0.113 | 0.162 | 0.144 |
| 25-29 | 0.132 | 0.122 | 0.127 | 0.122 | 0.113 | 0.117 | 0.143 | 0.140 | 0.141 |
| 30-34 | 0.072 | 0.062 | 0.067 | 0.045 | 0.052 | 0.048 | 0.056 | 0.050 | 0.052 |
| 35-39 | 0.021 | 0.021 | 0.021 | 0.014 | 0.013 | 0.013 | 0.012 | 0.012 | 0.012 |
| 40-44 | 0.005 | 0.001 | 0.003 | 0.001 | 0.001 | 0.001 | 0.000 | 0.001 | 0.001 |
| 45-49 | 0.000 | 0.001 | 0.000 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 |
| TFR (15-49) | 1.82 | 1.76 | 1.79 | 1.57 | 1.55 | 1.56 | 1.73 | 2.03 | 1.93 |
| CBR | 11.9 | 11.6 | 11.8 | 11.4 | 11.0 | 11.2 | 15.4 | 16.9 | 16.4 |

Note: Rates are for the period 1-36 months preceding the survey (approximately 2003-05 for NFHS-3, 2013-15 for NFHS-4, and 2017-19 for NFHS-
5). Age-specific fertility rates are expressed per woman.

TFR = Total fertility rate, expressed per woman
CBR $=$ Crude birth rate, expressed per 1,000 population

## Table 19 Fertility by background characteristics

Total fertility rate for the 3 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, 2019-21

| 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 | 1.82 | 3.8 | 2.1 | 1.71 |
| Rural | 1.76 | 3.1 | 2.1 | 1.65 |
| Schooling |  |  |  |  |
| No schooling | (0.42) | 0.4 | 2.2 | (0.42) |
| <5 years complete | 1.81 | 0.0 | 2.2 | 1.81 |
| 5-9 years complete | 1.77 | 1.4 | 2.3 | 1.51 |
| 10-11 years complete | 1.85 | 2.3 | 2.1 | 1.70 |
| 12 or more years complete | 1.91 | 5.0 | 1.9 | 1.82 |
| Religion |  |  |  |  |
| Hindu | 1.53 | 2.7 | 1.9 | 1.46 |
| Muslim | 2.25 | 4.8 | 2.7 | 2.09 |
| Christian | 1.77 | 3.5 | 2.0 | 1.63 |
| Caste/tribe |  |  |  |  |
| Scheduled caste | 1.61 | 3.5 | 1.9 | 1.51 |
| Scheduled tribe | 2.15 | 4.8 | 2.1 | 1.95 |
| Other backward class | 1.83 | 3.7 | 2.2 | 1.73 |
| Other | 1.76 | 2.8 | 2.0 | 1.63 |
| Total | 1.79 | 3.4 | 2.1 | 1.68 |

Note: Total fertility rates are for the period 1-36 months preceding the interview. Figures in parentheses are based on 125-249 unweighted woman-years of exposure.

Table 20 Teenage pregnancy and motherhood
Percentage of women age 15-19 who have had a live birth or who are pregnant with their first child, and percentage who have begun childbearing, by background characteristics, Kerala, 2019-21

| Background characteristic | Percentage of women age 15-19 who: |  | Percentage of women age 15-19 who have begun childbearing | Number of women |
| :---: | :---: | :---: | :---: | :---: |
|  | Have had a live birth | Are pregnant with first child |  |  |
| Age |  |  |  |  |
| 15-17 | 0.0 | 0.0 | 0.0 | 895 |
| 15 | 0.0 | 0.0 | 0.0 | 273 |
| 16 | 0.0 | 0.0 | 0.0 | 303 |
| 17 | 0.0 | 0.0 | 0.0 | 319 |
| 18 | 0.3 | 2.8 | 3.1 | 298 |
| 19 | 5.9 | 3.6 | 9.4 | 279 |
| Residence |  |  |  |  |
| Urban | 0.2 | 1.5 | 1.8 | 714 |
| Rural | 2.1 | 1.0 | 3.0 | 758 |
| Schooling |  |  |  |  |
| 5-9 years complete | 0.0 | 0.6 | 0.6 | 194 |
| 10-11 years complete | 0.4 | 0.6 | 1.1 | 659 |
| 12 or more years complete | 2.3 | 2.1 | 4.4 | 618 |
| Marital status |  |  |  |  |
| Never married | 0.0 | 0.0 | 0.0 | 1,394 |
| Currently married | 22.4 | 23.7 | 46.1 | 77 |
| Religion |  |  |  |  |
| Hindu | 0.2 | 1.0 | 1.2 | 748 |
| Muslim | 2.5 | 2.3 | 4.8 | 476 |
| Christian | 1.5 | 0.0 | 1.5 | 248 |
| Caste/tribe |  |  |  |  |
| Scheduled caste | 0.4 | 2.6 | 3.0 | 147 |
| Scheduled tribe | 0.0 | 5.1 | 5.1 | 29 |
| Other backward class | 1.7 | 1.1 | 2.8 | 883 |
| Other | 0.5 | 0.7 | 1.2 | 409 |
| Total | 1.2 | 1.2 | 2.4 | 1,472 |

Note: Total includes women with no schooling, women who are widowed/divorced/separated/deserted, women belonging to other religions, and women who don't know their caste/tribe, who are not shown separately.

## Table 21 Birth order

Percent distribution of births to all women during the 3 years preceding the survey by birth order, according to background characteristics, Kerala, 2019-21, and percent distribution of births to women by birth order, NFHS-4

| Background characteristic | Birth order |  |  |  | Total | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 or more |  |  |
| Mother's current age |  |  |  |  |  |  |
| 20-29 | 56.7 | 36.6 | 5.9 | 0.8 | 100.0 | 944 |
| 30-39 | 21.0 | 46.7 | 25.4 | 6.9 | 100.0 | 581 |
| 40-49 | (24.3) | (39.0) | (20.1) | (16.6) | 100.0 | 26 |
| Residence |  |  |  |  |  |  |
| Urban | 42.3 | 40.9 | 13.1 | 3.7 | 100.0 | 754 |
| Rural | 44.5 | 39.1 | 13.4 | 3.0 | 100.0 | 815 |
| Mother's schooling |  |  |  |  |  |  |
| 5-9 years complete | 21.2 | 38.0 | 30.3 | 10.4 | 100.0 | 130 |
| 10-11 years complete | 25.0 | 37.6 | 27.0 | 10.5 | 100.0 | 280 |
| 12 or more years complete | 50.5 | 40.7 | 8.0 | 0.8 | 100.0 | 1,154 |
| Religion |  |  |  |  |  |  |
| Hindu | 49.6 | 45.4 | 4.7 | 0.2 | 100.0 | 710 |
| Muslim | 36.0 | 34.0 | 22.1 | 7.9 | 100.0 | 634 |
| Christian | 44.9 | 39.7 | 15.3 | 0.1 | 100.0 | 224 |
| Caste/tribe |  |  |  |  |  |  |
| Scheduled caste | 45.2 | 46.1 | 7.9 | 0.7 | 100.0 | 159 |
| Scheduled tribe | 43.9 | 45.4 | 5.9 | 4.9 | 100.0 | 32 |
| Other backward class | 42.2 | 39.6 | 14.2 | 4.0 | 100.0 | 942 |
| Other | 45.5 | 38.0 | 13.9 | 2.6 | 100.0 | 430 |
| Total | 43.5 | 40.0 | 13.3 | 3.3 | 100.0 | 1,569 |
| NFHS-4 (2015-16) | 48.4 | 38.8 | 9.7 | 3.1 | 100.0 | 1,454 |

[^5]
## Table 22 Birth intervals

Percent distribution of births during the 5 years preceding the survey by interval since the preceding birth, and median number of months since the preceding birth, according to background characteristics, Kerala, 2019-21

| Background characteristic | Months since preceding birth |  |  |  |  |  |  | Number of non-first order births | Median number of months since preceding birth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7-17 | 18-23 | 24-35 | 36-47 | 48-59 | 60 or more | Total |  |  |
| Mother's current age |  |  |  |  |  |  |  |  |  |
| 20-29 | 6.5 | 11.6 | 21.2 | 25.6 | 17.7 | 17.4 | 100.0 | 581 | 40.8 |
| 30-39 | 2.0 | 5.9 | 11.8 | 16.5 | 14.6 | 49.1 | 100.0 | 894 | 59.4 |
| 40-49 | 3.4 | 3.2 | 2.1 | 7.5 | 11.3 | 72.6 | 100.0 | 67 | 92.0 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 3.9 | 7.5 | 13.8 | 20.7 | 14.2 | 39.9 | 100.0 | 741 | 51.2 |
| Rural | 3.6 | 8.4 | 15.9 | 18.5 | 17.0 | 36.6 | 100.0 | 801 | 50.5 |
| Mother's schooling |  |  |  |  |  |  |  |  |  |
| 5-9 years complete | 3.9 | 5.6 | 17.1 | 11.6 | 13.7 | 48.2 | 100.0 | 211 | 58.6 |
| 10-11 years complete <br> 12 or more years | 4.1 | 5.0 | 12.8 | 19.7 | 17.5 | 40.9 | 100.0 | 394 | 54.0 |
| complete | 3.5 | 9.7 | 15.3 | 21.3 | 15.3 | 34.8 | 100.0 | 932 | 48.1 |
| Religion |  |  |  |  |  |  |  |  |  |
| Hindu | 3.1 | 8.2 | 16.3 | 15.0 | 17.1 | 40.2 | 100.0 | 625 | 53.0 |
| Muslim | 3.8 | 6.9 | 12.5 | 23.4 | 15.3 | 38.1 | 100.0 | 704 | 50.4 |
| Christian | 5.4 | 10.6 | 18.8 | 19.9 | 12.9 | 32.4 | 100.0 | 213 | 45.3 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 4.1 | 14.0 | 18.4 | 14.6 | 18.7 | 30.1 | 100.0 | 156 | 47.3 |
| Scheduled tribe | (2.3) | (8.1) | (27.6) | (22.5) | (8.2) | (31.4) | 100.0 | 22 | (41.4) |
| Other backward class | 2.7 | 7.0 | 14.2 | 20.9 | 14.5 | 40.8 | 100.0 | 959 | 52.5 |
| Other | 6.0 | 7.8 | 14.5 | 18.3 | 17.5 | 35.8 | 100.0 | 400 | 49.8 |
| Birth order |  |  |  |  |  |  |  |  |  |
| 2-3 | 3.6 | 7.8 | 15.4 | 19.1 | 16.0 | 38.1 | 100.0 | 1,440 | 50.8 |
| 4-6 | 5.5 | 10.1 | 8.4 | 25.2 | 10.5 | 40.3 | 100.0 | 101 | 50.3 |
| Sex of preceding birth |  |  |  |  |  |  |  |  |  |
| Male | 3.1 | 7.9 | 15.4 | 21.5 | 16.3 | 35.8 | 100.0 | 757 | 50.0 |
| Female | 4.4 | 8.0 | 14.4 | 17.6 | 15.1 | 40.5 | 100.0 | 785 | 51.6 |
| Total | 3.8 | 7.9 | 14.9 | 19.5 | 15.7 | 38.2 | 100.0 | 1,542 | 50.7 |

Note: The interval for multiple births is the number of months since the preceding pregnancy that ended in a live birth. Figures in parentheses are based on 25-49 unweighted cases. Total includes information on births to women with no schooling or less than 5 years of schooling, women belonging to other religions, women who don't know their caste/tribe, and births of birth order 7 or more, which is not shown separately.

Table 23 Fertility preferences by number of living children
Percent distribution of currently married women and men age 15-49 by desire for children, according to number of living children, Kerala, 2019-21

| Desire for children | Number of living children ${ }^{1}$ |  |  |  |  |  | $\begin{aligned} & \text { Total } \\ & 15-49 \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { 15-54 } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| Want another soon ${ }^{2}$ | 79.1 | 29.5 | 6.0 | 4.2 | 2.2 | (11.2) | 15.8 | na |
| Want another later ${ }^{3}$ | 5.6 | 28.5 | 4.4 | 2.6 | 0.9 | (4.7) | 9.7 | na |
| Want another, undecided when | 2.7 | 5.6 | 1.1 | 0.6 | 0.0 | (0.0) | 2.1 | na |
| Undecided | 2.5 | 8.1 | 3.5 | 6.2 | 7.6 | (8.8) | 5.1 | na |
| Want no more | 1.7 | 16.6 | 20.8 | 15.7 | 22.2 | (20.4) | 17.9 | na |
| Sterilized ${ }^{4}$ | 0.3 | 8.0 | 62.1 | 69.0 | 66.1 | (53.7) | 46.7 | na |
| Declared infecund | 7.0 | 2.0 | 0.8 | 0.6 | 0.6 | (1.3) | 1.4 | na |
| Missing | 1.1 | 1.6 | 1.2 | 1.2 | 0.4 | (0.0) | 1.2 | na |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | na |
| Number | 528 | 1,891 | 4,168 | 1,250 | 264 | 52 | 8,163 | na |
| MEN |  |  |  |  |  |  |  |  |
| Want another soon ${ }^{2}$ | 31.4 | 33.1 | 5.8 | 2.1 | * | nc | 16.7 | 13.7 |
| Want another later ${ }^{3}$ | 9.0 | 25.2 | 1.3 | 1.6 | * | nc | 8.3 | 6.8 |
| Want another, undecided when | 2.7 | 9.9 | 0.7 | 0.0 | * | nc | 3.0 | 2.4 |
| Undecided | 7.5 | 7.8 | 8.4 | 6.3 | * | nc | 8.0 | 6.8 |
| Want no more | 46.3 | 19.5 | 68.9 | 81.1 | * | nc | 54.0 | 60.5 |
| Sterilized ${ }^{4}$ | 0.2 | 3.5 | 14.6 | 8.9 | * | nc | 9.0 | 8.6 |
| Declared infecund | 2.9 | 1.0 | 0.3 | 0.0 | * | nc | 0.9 | 1.2 |
| Missing | 0.0 | 0.0 | 0.0 | 0.0 | * | nc | 0.0 | 0.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | nc | 100.0 | 100.0 |
| Number | 146 | 145 | 290 | 79 | 18 | 0 | 679 | 849 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes women/men with 6 or more children, who are not shown separately.
na $=$ Not applicable
nc = No cases
${ }^{1}$ 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

## Table 24 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, 2019-21, and by number of living children, NFHS-4

| Background characteristic | Women: Number of living children ${ }^{1}$ |  |  |  |  | Total | Men: Number of living children ${ }^{1}$ |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | $\begin{gathered} \hline 4 \text { or } \\ \text { more } \end{gathered}$ |  | 0 | 1 | 2 | 3 |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 0.3 | 3.6 | 36.4 | * | * | 9.1 | * | * | * | * | * |
| 25-34 | 0.0 | 9.5 | 66.6 | 71.1 | 79.6 | 46.2 | (8.4) | 3.4 | (74.2) | * | 23.5 |
| 35-49 | 6.5 | 55.3 | 93.0 | 90.1 | 86.7 | 83.8 | 60.5 | 41.3 | 84.9 | 90.5 | 74.0 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 1.8 | 24.0 | 82.0 | 79.9 | 79.5 | 63.2 | 41.8 | 28.5 | 83.6 | * | 62.1 |
| Rural | 2.1 | 25.2 | 83.7 | 89.1 | 91.3 | 65.7 | 51.2 | 19.4 | 83.4 | 91.5 | 63.8 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |
| No schooling | * | * | (100.0) | * | * | 83.7 | * | * | * | * | * |
| <5 years complete | * | * | 92.7 | (94.6) | * | 87.8 | * | * | * | * | (90.2) |
| 5-9 years complete | 7.0 | 43.2 | 87.2 | 89.0 | 84.9 | 78.7 | (55.7) | (28.7) | 90.9 | (90.1) | 72.7 |
| 10-11 years complete | 2.8 | 36.4 | 85.4 | 84.2 | 83.2 | 74.6 | (48.9) | (26.7) | 79.1 | (89.1) | 64.7 |
| 12 or more years complete | 0.4 | 18.0 | 78.8 | 78.0 | (83.5) | 52.0 | 32.4 | 15.6 | 79.1 | * | 47.5 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 2.7 | 27.6 | 91.4 | 95.9 | (96.4) | 68.5 | 48.6 | 24.8 | 88.9 | (100.0) | 63.9 |
| Muslim | 1.7 | 14.1 | 58.6 | 77.3 | 83.5 | 55.2 | (50.2) | (23.1) | 73.7 | (82.4) | 61.9 |
| Christian | 0.0 | 30.9 | 86.1 | 95.4 | * | 70.7 | * | , | 78.4 | * | 61.7 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 8.3 | 21.3 | 88.7 | 96.5 | * | 67.4 | * | * | (90.0) | * | 66.2 |
| Scheduled tribe | (0.0) | 12.3 | 93.8 | (94.7) | * | 56.7 | * | * | * | * | (59.4) |
| Other backward class | 1.3 | 23.5 | 80.1 | 81.9 | 83.9 | 62.9 | 47.9 | 30.5 | 81.3 | 85.3 | 63.8 |
| Other | 0.8 | 28.9 | 86.0 | 87.5 | 88.8 | 67.5 | (45.7) | (14.6) | 85.2 | * | 60.9 |
| Number of living sons ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 2.0 | 22.2 | 80.1 | 82.1 | * | 43.6 | 46.5 | 22.2 | 87.1 | * | 51.2 |
| 1 | na | 27.5 | 84.0 | 87.0 | 91.6 | 70.8 | na | 24.4 | 83.5 | (94.8) | 69.7 |
| 2 | na | na | 83.1 | 84.2 | 81.1 | 83.2 | na | na | 79.2 | (84.3) | 81.7 |
| 3 | na | na | na | 83.3 | 84.8 | 83.7 | na | na | na | * | * |
| 4 or more | na | na | na | na | na | (88.3) | na | na | na | na | * |
| Total | 2.0 | 24.6 | 82.9 | 84.8 | 85.3 | 64.5 | 46.5 | 23.1 | 83.5 | 90.0 | 63.0 |
| NFHS-4 (2015-16) | 3.0 | 25.1 | 83.2 | 83.6 | 84.9 | 63.1 | 18.0 | 34.5 | 86.8 | 80.8 | 66.4 |

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. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ Not applicable
${ }^{1}$ Includes current pregnancy of woman/wife
${ }^{2}$ Excludes pregnant women and men with pregnant wives

## Table 25 Ideal number of children

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, 2019-21, and percent distribution of women and men age 15-49 by ideal number of children, NFHS-4

| Ideal number of children | Number of living children ${ }^{1}$ |  |  |  |  |  | Total | $\begin{gathered} \text { NFHS-4 } \\ (2015-16) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 0 | 8.3 | 2.6 | 1.8 | 4.0 | 4.1 | (3.4) | 4.0 | 2.9 |
| 1 | 7.1 | 14.3 | 1.5 | 0.8 | 0.0 | (0.0) | 5.2 | 5.3 |
| 2 | 65.5 | 68.5 | 78.9 | 21.9 | 9.3 | (5.1) | 64.5 | 66.5 |
| 3 | 12.9 | 11.5 | 14.3 | 57.2 | 16.2 | (16.3) | 18.6 | 18.1 |
| 4 | 2.4 | 2.2 | 2.4 | 11.8 | 56.2 | (9.3) | 4.9 | 5.1 |
| 5 | 0.5 | 0.6 | 0.5 | 2.7 | 10.7 | (52.6) | 1.3 | 1.2 |
| 6 or more | 0.1 | 0.1 | 0.1 | 0.8 | 3.1 | (13.3) | 0.3 | 0.6 |
| Non-numeric responses | 3.2 | 0.2 | 0.4 | 0.9 | 0.5 | (0.0) | 1.2 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100 |
| Number | 2,952 | 2,020 | 4,355 | 1,300 | 277 | 55 | 10,969 | 11,033 |
| Mean ideal number of children for ${ }^{2}$ : |  |  |  |  |  |  |  |  |
| All respondents | 2.0 | 2.0 | 2.2 | 2.8 | 3.7 | (4.5) | 2.2 | 2.2 |
| Number of all respondents | 2,859 | 2,016 | 4,339 | 1,288 | 276 | 55 | 10,841 | 11,000 |
| Currently married respondents | 2.1 | 2.0 | 2.2 | 2.9 | 3.7 | (4.4) | 2.3 | 2.3 |
| Number of currently married respondents | 525 | 1,887 | 4,152 | 1,240 | 263 | 52 | 8,126 | 8,139 |
| MEN |  |  |  |  |  |  |  |  |
| 0 | 6.1 | 2.1 | 3.0 | 3.8 | * | nc | 4.7 | 3.5 |
| 1 | 7.2 | 14.1 | 1.7 | 0.0 | * | nc | 6.2 | 6.9 |
| 2 | 65.6 | 69.9 | 80.2 | 10.2 | * | nc | 65.1 | 69.5 |
| 3 | 12.5 | 11.7 | 13.1 | 73.5 | * | nc | 16.5 | 12.8 |
| 4 | 3.9 | 2.1 | 1.3 | 9.7 | * | nc | 4.0 | 4.2 |
| 5 | 1.0 | 0.0 | 0.4 | 0.0 | * | nc | 0.9 | 1.2 |
| 6 or more | 0.3 | 0.0 | 0.3 | 0.0 | * | nc | 0.4 | 0.5 |
| Non-numeric responses | 3.5 | 0.2 | 0.0 | 2.8 | * | nc | 2.2 | 1.5 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | nc | 100.0 | 100.0 |
| Number | 757 | 148 | 295 | 79 | 18 | 0 | 1,299 | 1,856 |
| Mean ideal number of children for ${ }^{2}$ : |  |  |  |  |  |  |  |  |
| All respondents | 2.1 | 2.0 | 2.1 | 2.9 | * | nc | 2.1 | 2.1 |
| Number of all respondents | 730 | 147 | 295 | 77 | 18 | 0 | 1,270 | 1,829 |
| Currently married respondents | 2.0 | 2.0 | 2.1 | 2.9 | * | nc | 2.2 | 2.3 |
| Number of currently married respondents | 154 | 147 | 292 | 77 | 18 | 0 | 691 | 991 |

[^6]Table 26 Indicators of sex preference
Percentage 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, 2019-21, and total for NFHS-4

| Background characteristic | Women |  |  |  | Number of women | Men |  |  |  | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |  | 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 |  |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 6.6 | 5.5 | 50.1 | 49.4 | 1,420 | 15.9 | 4.5 | 63.0 | 56.2 | 201 |
| 20-29 | 7.7 | 4.9 | 50.4 | 50.0 | 2,726 | 11.6 | 3.0 | 62.8 | 58.1 | 321 |
| 30-39 | 7.9 | 6.0 | 52.8 | 52.5 | 3,283 | 13.8 | 5.9 | 53.0 | 49.7 | 353 |
| 40-49 | 8.4 | 5.5 | 51.2 | 51.5 | 3,406 | 15.2 | 6.2 | 57.0 | 53.6 | 394 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 7.7 | 5.4 | 48.6 | 48.5 | 5,198 | 16.9 | 4.3 | 55.7 | 47.4 | 584 |
| Rural | 8.0 | 5.6 | 53.9 | 53.6 | 5,637 | 11.5 | 5.7 | 60.6 | 59.8 | 685 |
| Schooling |  |  |  |  |  |  |  |  |  |  |
| No schooling | 10.9 | 3.7 | 47.3 | 48.4 | 82 | (22.4) | (14.9) | (67.0) | (74.6) | 29 |
| <5 years complete | 8.6 | 4.7 | 39.7 | 41.1 | 194 | (25.1) | (6.7) | (58.0) | (58.0) | 26 |
| 5-9 years complete 10-11 years | 9.9 | 5.3 | 51.5 | 50.3 | 2,211 | 17.2 | 4.8 | 61.6 | 55.8 | 281 |
| complete | 7.7 | 6.1 | 52.2 | 52.0 | 2,784 | 15.5 | 3.3 | 58.5 | 52.7 | 393 |
| 12 or more years complete | 7.0 | 5.4 | 51.4 | 51.5 | 5,564 | 10.3 | 5.8 | 56.0 | 52.8 | 538 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 6.4 | 5.3 | 48.5 | 48.2 | 2,278 | 14.3 | 3.7 | 61.6 | 55.4 | 578 |
| Currently married | 8.3 | 5.6 | 52.4 | 52.2 | 8,124 | 13.8 | 6.4 | 55.5 | 53.2 | 675 |
| Widowed/divorced/ separated/deserted | 6.2 | 4.8 | 46.9 | 47.1 | 434 | * | * | * | * | 16 |
| Religion |  |  |  |  |  |  |  |  |  |  |
| Hindu | 5.6 | 4.5 | 52.5 | 52.5 | 5,893 | 10.6 | 5.3 | 57.4 | 53.9 | 730 |
| Muslim | 11.8 | 7.0 | 49.2 | 48.7 | 3,234 | 22.4 | 6.6 | 60.2 | 55.1 | 324 |
| Christian | 7.7 | 6.1 | 51.4 | 51.3 | 1,705 | 13.1 | 1.8 | 58.5 | 53.1 | 214 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 7.7 | 5.1 | 52.4 | 52.9 | 1,192 | 9.2 | 5.2 | 67.7 | 65.0 | 134 |
| Scheduled tribe | 5.5 | 2.2 | 57.4 | 56.6 | 175 | 18.5 | 10.1 | 62.1 | 63.6 | 30 |
| Other backward class | 7.7 | 5.3 | 49.7 | 49.6 | 6,323 | 14.9 | 4.6 | 56.4 | 51.5 | 750 |
| Other | 8.2 | 6.4 | 54.0 | 53.5 | 3,111 | 14.0 | 5.2 | 58.6 | 54.5 | 341 |
| Don't know | (16.0) | (0.0) | (45.6) | (39.9) | 35 | * | * | * | * | 13 |
| Total | 7.8 | 5.5 | 51.4 | 51.2 | 10,836 | 14.0 | 5.1 | 58.3 | 54.1 | 1,268 |
| NFHS-4 (2015-16) | 11.2 | 6.5 | 75.3 | 73.9 | 11,000 | 15.0 | 4.6 | 69.5 | 64.4 | 1,829 |

[^7] in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes women/men belonging to other religions, who are not shown separately.

Table 27 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, 2019-21

| Method | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All women | Currently married women | Never married women | All men | Currently married men | Never married men |
| URBAN |  |  |  |  |  |  |
| Any method | 99.0 | 99.9 | 95.9 | 98.7 | 100.0 | 97.3 |
| Any modern method | 99.0 | 99.9 | 95.8 | 98.7 | 100.0 | 97.3 |
| Female sterilization | 95.7 | 98.7 | 85.2 | 89.6 | 96.8 | 81.8 |
| Male sterilization | 79.5 | 86.6 | 55.3 | 85.5 | 94.8 | 75.3 |
| Pill | 84.5 | 89.2 | 69.4 | 84.6 | 89.4 | 79.2 |
| IUD or PPIUD | 76.0 | 85.0 | 46.2 | 51.3 | 64.9 | 35.8 |
| Injectables | 58.0 | 62.2 | 44.6 | 56.1 | 58.9 | 52.8 |
| Condom/Nirodh | 94.2 | 96.4 | 87.7 | 97.5 | 99.7 | 95.1 |
| Female condom | 53.6 | 54.5 | 51.4 | 61.1 | 66.2 | 55.5 |
| Emergency contraception | 48.4 | 54.1 | 30.4 | 51.0 | 61.5 | 39.5 |
| Diaphragm | 33.0 | 34.3 | 29.8 | 28.4 | 31.9 | 24.3 |
| Foam or jelly | 25.0 | 26.4 | 20.9 | 29.6 | 35.2 | 23.7 |
| Standard days method | 57.1 | 64.4 | 33.9 | 58.4 | 69.6 | 46.0 |
| Lactational amenorrhoea method (LAM) | 53.8 | 61.5 | 29.1 | 35.3 | 50.5 | 19.7 |
| Other modern method | 0.1 | 0.1 | 0.1 | 0.5 | 0.7 | 0.3 |
| Pill, IUD/PPIUD, and condom ${ }^{1}$ | 69.3 | 78.0 | 41.4 | 49.4 | 62.1 | 34.9 |
| Any traditional method | 78.5 | 88.2 | 45.5 | 86.2 | 96.9 | 74.5 |
| Rhythm | 66.7 | 75.1 | 38.6 | 61.7 | 80.0 | 41.9 |
| Withdrawal | 73.1 | 83.6 | 36.8 | 83.1 | 94.2 | 71.6 |
| Other | 0.1 | 0.1 | 0.0 | 0.5 | 0.5 | 0.5 |
| Mean number of methods known by <br> respondents age 15-49 |  |  |  |  |  |  |
| Number of respondents age 15-49 | 5,277 | 3,916 | 1,155 | 599 | 306 | 288 |

Table 27 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, 2019-21

| Method | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All women | Currently married women | Never married women | All men | Currently married men | Never married men |
| RURAL |  |  |  |  |  |  |
| Any method | 98.8 | 99.8 | 95.3 | 98.7 | 99.9 | 97.2 |
| Any modern method | 98.8 | 99.8 | 95.3 | 98.0 | 99.2 | 96.6 |
| Female sterilization | 96.1 | 98.5 | 87.6 | 86.2 | 94.7 | 75.7 |
| Male sterilization | 76.4 | 82.5 | 55.4 | 82.7 | 92.6 | 70.9 |
| Pill | 81.2 | 84.8 | 70.2 | 80.9 | 87.8 | 72.7 |
| IUD or PPIUD | 75.0 | 82.7 | 48.7 | 50.3 | 64.2 | 34.1 |
| Injectables | 57.8 | 60.7 | 48.1 | 61.1 | 69.6 | 50.9 |
| Condom/Nirodh | 89.9 | 92.4 | 83.0 | 94.6 | 96.7 | 92.1 |
| Female condom | 48.5 | 49.6 | 47.0 | 66.8 | 73.3 | 58.7 |
| Emergency contraception | 43.5 | 46.3 | 34.9 | 55.8 | 69.9 | 39.4 |
| Diaphragm | 29.8 | 30.7 | 29.1 | 29.7 | 34.0 | 25.2 |
| Foam or jelly | 21.1 | 21.9 | 20.4 | 28.8 | 33.1 | 23.4 |
| Standard days method | 54.7 | 61.0 | 35.0 | 54.5 | 68.5 | 37.6 |
| Lactational amenorrhoea method (LAM) | 51.7 | 57.7 | 31.8 | 39.3 | 52.5 | 23.2 |
| Other modern method | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.1 |
| Pill, IUD/PPIUD, and condom ${ }^{1}$ | 65.1 | 72.2 | 42.4 | 47.3 | 61.1 | 30.9 |
| Any traditional method | 74.8 | 82.6 | 48.0 | 83.3 | 93.6 | 71.0 |
| Rhythm | 61.4 | 68.2 | 39.2 | 64.4 | 82.0 | 43.4 |
| Withdrawal | 67.8 | 77.0 | 36.6 | 78.5 | 88.1 | 66.9 |
| Other | 0.1 | 0.1 | 0.0 | 0.5 | 0.0 | 1.0 |
| Mean number of methods known by respondents age 15-49 | 8.6 | 9.2 | 6.7 | 8.8 | 10.1 | 7.2 |
| Number of respondents age 15-49 | 5,692 | 4,247 | 1,210 | 700 | 373 | 317 |

Table 27 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, 2019-21

| Method | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All women | Currently married women | Never married women | All men | Currently married men | Never married men |
| TOTAL |  |  |  |  |  |  |
| Any method | 98.9 | 99.8 | 95.6 | 98.7 | 99.9 | 97.2 |
| Any modern method | 98.9 | 99.8 | 95.5 | 98.3 | 99.6 | 96.9 |
| Female sterilization | 95.9 | 98.6 | 86.4 | 87.8 | 95.6 | 78.6 |
| Male sterilization | 77.9 | 84.5 | 55.4 | 84.0 | 93.6 | 73.0 |
| Pill | 82.8 | 86.9 | 69.8 | 82.6 | 88.5 | 75.8 |
| IUD or PPIUD | 75.5 | 83.8 | 47.5 | 50.8 | 64.5 | 34.9 |
| Injectables | 57.9 | 61.4 | 46.4 | 58.8 | 64.8 | 51.8 |
| Condom/Nirodh | 92.0 | 94.3 | 85.3 | 95.9 | 98.0 | 93.5 |
| Female condom | 51.0 | 51.9 | 49.2 | 64.2 | 70.1 | 57.2 |
| Emergency contraception | 45.9 | 50.1 | 32.7 | 53.6 | 66.1 | 39.4 |
| Diaphragm | 31.4 | 32.4 | 29.4 | 29.1 | 33.1 | 24.8 |
| Foam or jelly | 23.0 | 24.1 | 20.6 | 29.2 | 34.1 | 23.5 |
| Standard days method | 55.9 | 62.6 | 34.5 | 56.3 | 69.0 | 41.6 |
| Lactational amenorrhoea method (LAM) | 52.7 | 59.5 | 30.4 | 37.5 | 51.6 | 21.6 |
| Other modern method | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 |
| Pill, IUD/PPIUD, and condom ${ }^{1}$ | 67.2 | 75.0 | 41.9 | 48.2 | 61.6 | 32.8 |
| Any traditional method | 76.6 | 85.3 | 46.8 | 84.6 | 95.1 | 72.7 |
| Rhythm | 64.0 | 71.5 | 38.9 | 63.1 | 81.1 | 42.7 |
| Withdrawal | 70.4 | 80.2 | 36.7 | 80.6 | 90.8 | 69.2 |
| Other | 0.1 | 0.1 | 0.0 | 0.5 | 0.2 | 0.8 |
| Mean number of methods known by respondents age 15-49 <br> Number of respondents age 15-49 | 8.8 | 9.5 | 6.6 | 8.8 | 10.1 | 7.3 |
|  | 10,969 | 8,163 | 2,365 | 1,299 | 679 | 604 |
| IUD = Intrauterine device; PPIUD = Postpartum <br> ${ }^{1}$ All three methods | ne device |  |  |  |  |  |

Table 28 Current use of contraception by background characteristics
Percent distribution of currently married women by contraceptive method currently used, according to background characteristics, Kerala, 2019-21, and total for NFHS-4

Table 28 Current use of contraception by background characteristics-Continued
Percent distribution of currently married women by contraceptive method currently used, according to background characteristics, Kerala, 2019-21, and total for NFHS-4

| Background characteristic | Any method | Any modern method | Modern method |  |  |  |  |  |  |  |  | Any traditional method | Traditional method |  | Not currently using | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Female sterilization | Male <br> sterili- <br> zation | Pill | IUD or PPIUD | Injectables | Condom/ <br> Nirodh | Female condom | LAM | Other <br> modern <br> method |  | Rhythm | Withdrawal |  |  |  |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No children | 5.7 | 3.0 | 0.3 | 0.0 | 0.2 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 | 0.1 | 2.7 | 0.9 | 1.9 | 94.3 | 100.0 | 700 |
| 1 child | 30.4 | 19.7 | 8.1 | 0.0 | 0.7 | 2.8 | 0.1 | 7.0 | 0.0 | 0.3 | 0.6 | 10.7 | 4.3 | 6.4 | 69.6 | 100.0 | 1,861 |
| 1 son | 30.7 | 20.3 | 9.5 | 0.0 | 0.4 | 2.7 | 0.0 | 6.8 | 0.0 | 0.2 | 0.6 | 10.4 | 3.7 | 6.7 | 69.3 | 100.0 | 941 |
| No sons | 30.1 | 19.2 | 6.6 | 0.1 | 1.1 | 2.9 | 0.1 | 7.2 | 0.0 | 0.4 | 0.7 | 10.9 | 4.8 | 6.1 | 69.9 | 100.0 | 920 |
| 2 children | 76.2 | 68.9 | 63.4 | 0.0 | 0.3 | 1.4 | 0.0 | 2.8 | 0.1 | 0.2 | 0.7 | 7.3 | 3.1 | 4.2 | 23.8 | 100.0 | 4,080 |
| 1 or more sons | 76.4 | 68.7 | 63.3 | 0.0 | 0.3 | 1.5 | 0.0 | 2.6 | 0.0 | 0.1 | 0.7 | 7.8 | 3.4 | 4.4 | 23.6 | 100.0 | 3,152 |
| No sons | 75.3 | 69.6 | 63.7 | 0.0 | 0.3 | 1.1 | 0.0 | 3.4 | 0.2 | 0.3 | 0.6 | 5.7 | 1.9 | 3.7 | 24.7 | 100.0 | 928 |
| 3 children | 81.4 | 74.4 | 71.3 | 0.2 | 0.2 | 0.9 | 0.0 | 1.3 | 0.0 | 0.2 | 0.4 | 7.0 | 3.1 | 3.9 | 18.6 | 100.0 | 1,207 |
| 1 or more sons | 82.1 | 74.9 | 71.8 | 0.2 | 0.1 | 0.9 | 0.0 | 1.3 | 0.0 | 0.2 | 0.5 | 7.2 | 3.3 | 3.9 | 17.9 | 100.0 | 1,034 |
| No sons | 77.5 | 71.5 | 68.4 | 0.0 | 0.7 | 0.6 | 0.0 | 1.7 | 0.2 | 0.0 | 0.0 | 6.0 | 1.7 | 4.3 | 22.5 | 100.0 | 173 |
| 4 or more children | 82.3 | 68.3 | 65.4 | 0.0 | 0.0 | 1.4 | 0.0 | 0.4 | 0.0 | 0.4 | 0.6 | 14.0 | 5.6 | 8.4 | 17.7 | 100.0 | 316 |
| 1 or more sons | 84.2 | 69.9 | 66.9 | 0.0 | 0.0 | 1.6 | 0.0 | 0.5 | 0.0 | 0.4 | 0.6 | 14.3 | 5.9 | 8.4 | 15.8 | 100.0 | 293 |
| Total | 60.7 | 52.8 | 46.6 | 0.1 | 0.4 | 1.5 | 0.0 | 3.4 | 0.0 | 0.2 | 0.6 | 7.9 | 3.2 | 4.6 | 39.3 | 100.0 | 8,163 |
| NFHS-4 (2015-16) | 53.1 | 50.3 | 45.8 | 0.1 | 0.2 | 1.6 | 0.0 | 2.6 | 0.0 | 0.0 | 0.1 | 2.8 | 0.9 | 1.9 | 46.9 | 100.0 | 8,147 |



[^8]
## Table 29 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, 2019-21

| District | Any method | Any modern method | Female sterilization | Male sterilization | Any modern spacing method ${ }^{1}$ | Any traditional method ${ }^{2}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alappuzha | 61.5 | 56.9 | 49.6 | 0.6 | 6.8 | 4.6 | 482 |
| Ernakulam | 69.7 | 61.5 | 51.9 | 0.0 | 9.6 | 8.2 | 781 |
| Idukki | 72.3 | 67.8 | 60.5 | 0.0 | 7.3 | 4.5 | 256 |
| Kannur | 61.9 | 54.2 | 47.7 | 0.0 | 6.5 | 7.6 | 692 |
| Kasaragod | 56.4 | 46.6 | 39.0 | 0.2 | 7.4 | 9.7 | 372 |
| Kollam | 62.9 | 60.5 | 57.2 | 0.0 | 3.3 | 2.4 | 633 |
| Kottayam | 44.7 | 40.3 | 33.0 | 0.0 | 7.2 | 4.4 | 421 |
| Kozhikode | 67.7 | 58.5 | 52.5 | 0.0 | 6.0 | 9.2 | 747 |
| Malappuram | 58.6 | 41.5 | 36.8 | 0.0 | 4.7 | 17.1 | 1,146 |
| Palakkad | 58.9 | 51.9 | 48.1 | 0.0 | 3.8 | 7.0 | 719 |
| Pathanamthitta | 59.3 | 54.4 | 47.6 | 0.2 | 6.5 | 4.9 | 229 |
| Thiruvananthapuram | 41.3 | 38.5 | 33.2 | 0.0 | 5.4 | 2.8 | 786 |
| Thrissur | 69.7 | 61.5 | 52.9 | 0.0 | 8.6 | 8.2 | 695 |
| Wayanad | 78.9 | 69.5 | 64.8 | 0.2 | 4.5 | 9.4 | 204 |
| Kerala | 60.7 | 52.8 | 46.6 | 0.1 | 6.2 | 7.9 | 8,163 |

${ }^{1}$ Includes pill, IUD/PPIUD, injectables, male condom, female condom, emergency contraception, lactational amenorrhoea method (LAM), and other modern methods
${ }^{2}$ Includes rhythm, withdrawal, and other traditional methods
Table 30 Contraceptive use by men at last sexual intercourse
Table 30 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, 2019-21

| Background characteristic | Any method | Any modern method | Modern method |  |  |  |  |  | Any traditional method | Traditional method |  |  | Not used at last sex | Total | $\begin{gathered} \text { Number of } \\ \text { men } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Female sterilization | Male sterilization | Pill | IUD or PPIUD | Condom/ Nirodh | Other <br> modern <br> method |  | Rhythm | Withdrawal | Other |  |  |  |
| Type of sexual partner |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Currently married | 30.1 | 24.5 | 15.7 | 0.4 | 0.6 | 0.9 | 4.6 | 2.2 | 5.6 | 1.9 | 3.6 | 0.0 | 69.9 | 100.0 | 679 |
| Wife | 33.2 | 26.7 | 15.5 | 0.5 | 0.8 | 1.0 | 5.9 | 2.9 | 6.4 | 2.3 | 4.1 | 0.0 | 66.8 | 100.0 | 530 |
| Other ${ }^{1}$ | 18.6 | 17.5 | 17.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 1.1 | 0.5 | 0.6 | 0.0 | 81.4 | 100.0 | 142 |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25-29 | (25.0) | (19.9) | (5.3) | (0.0) | (0.0) | (2.1) | (12.5) | (0.0) | (5.1) | (0.0) | (5.1) | (0.0) | (75.0) | 100.0 | 44 |
| 30-34 | 26.2 | 12.1 | 3.3 | 0.0 | 1.4 | 0.9 | 4.3 | 2.2 | 14.1 | 4.5 | 9.6 | 0.0 | 73.8 | 100.0 | 102 |
| 35-39 | 33.0 | 29.0 | 14.9 | 0.7 | 0.9 | 1.1 | 8.5 | 2.8 | 4.0 | 2.0 | 2.0 | 0.0 | 67.0 | 100.0 | 161 |
| 40-44 | 34.1 | 30.4 | 23.4 | 0.8 | 0.9 | 0.2 | 2.3 | 2.9 | 3.7 | 0.4 | 3.2 | 0.0 | 65.9 | 100.0 | 175 |
| 45-49 | 27.5 | 23.3 | 18.2 | 0.0 | 0.0 | 1.2 | 1.9 | 1.8 | 4.2 | 2.3 | 1.9 | 0.0 | 72.5 | 100.0 | 195 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 30.5 | 21.7 | 13.1 | 0.4 | 0.5 | 0.2 | 3.8 | 3.7 | 8.8 | 3.7 | 5.1 | 0.0 | 69.5 | 100.0 | 306 |
| Rural | 29.7 | 26.8 | 17.7 | 0.3 | 0.8 | 1.5 | 5.3 | 1.1 | 2.9 | 0.5 | 2.4 | 0.0 | 70.3 | 100.0 | 374 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <5 years complete | (22.5) | (22.5) | (19.3) | (0.0) | (0.0) | (0.0) | (3.2) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (77.5) | 100.0 | 25 |
| 5-9 years complete | 31.6 | 25.9 | 20.3 | 0.3 | 0.0 | 0.5 | 1.8 | 3.2 | 5.7 | 2.5 | 3.2 | 0.0 | 68.4 | 100.0 | 203 |
| 10-11 years complete | 32.6 | 26.0 | 16.2 | 0.0 | 0.7 | 1.9 | 5.3 | 1.7 | 6.7 | 2.7 | 3.9 | 0.0 | 67.4 | 100.0 | 229 |
| 12 or more years complete | 28.5 | 23.2 | 10.7 | 1.0 | 1.4 | 0.5 | 7.2 | 2.4 | 5.3 | 0.9 | 4.4 | 0.0 | 71.5 | 100.0 | 206 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 32.4 | 27.1 | 17.8 | 0.3 | 0.4 | 0.9 | 4.9 | 2.7 | 5.3 | 2.2 | 3.0 | 0.0 | 67.6 | 100.0 | 386 |
| Muslim | 29.7 | 22.5 | 15.6 | 0.6 | 0.0 | 0.9 | 2.7 | 2.7 | 7.2 | 2.5 | 4.7 | 0.0 | 70.3 | 100.0 | 182 |
| Christian | 22.6 | 18.7 | 8.3 | 0.0 | 2.6 | 0.9 | 6.8 | 0.0 | 3.9 | 0.0 | 3.9 | 0.0 | 77.4 | 100.0 | 112 |

道
Table 30 Contraceptive use by men at last sexual intercourse-Continued
 characteristics, Kerala, 2019-21

| Background characteristic | Any method | Any modern method | Modern method |  |  |  |  |  | Any traditional method | Traditional method |  |  | Not used at last sex | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Female sterilization | Male sterilization | Pill | IUD or PPIUD | Condom/ Nirodh | Other modern method |  | Rhythm | Withdrawal | Other |  |  |  |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 30.7 | 28.4 | 19.5 | 0.0 | 0.0 | 4.9 | 1.2 | 2.8 | 2.3 | 1.4 | 0.8 | 0.0 | 69.3 | 100.0 | 75 |
| Scheduled tribe | (16.4) | (11.0) | (6.7) | (0.0) | (0.0) | (0.0) | (1.8) | (0.0) | (5.3) | (0.0) | (5.3) | (0.0) | (83.6) | 100.0 | 16 |
| Other backward class | 31.1 | 24.7 | 15.8 | 0.3 | 0.7 | 0.4 | 4.7 | 2.7 | 6.5 | 2.9 | 3.6 | 0.0 | 68.9 | 100.0 | 397 |
| Other | 29.2 | 24.7 | 15.1 | 0.6 | 0.8 | 0.6 | 6.3 | 1.4 | 4.6 | 0.4 | 4.2 | 0.0 | 70.8 | 100.0 | 186 |
| Total age 15-49 | 30.1 | 24.5 | 15.6 | 0.4 | 0.6 | 0.9 | 4.6 | 2.2 | 5.6 | 1.9 | 3.6 | 0.0 | 69.9 | 100.0 | 680 |
| Age 50-54 | 35.9 | 27.1 | 22.1 | 0.0 | 0.0 | 0.2 | 3.2 | 1.6 | 8.8 | 1.6 | 6.8 | 0.5 | 64.1 | 100.0 | 170 |
| Total age 15-54 | 31.2 | 25.0 | 16.9 | 0.3 | 0.5 | 0.8 | 4.3 | 2.1 | 6.2 | 1.9 | 4.2 | 0.1 | 68.8 | 100.0 | 850 |

 schooling, and men who don't know their caste/tribe, who are not shown separately. IUD = Intrauterine device; PPIUD = Postpartum intrauterine device
${ }^{1}$ Does not include live-in partner/girlfriend

## Table 31 Source of modern contraceptive methods

Percent distribution of women age 15-49 who are current users of modern contraceptive methods by most recent source of the method, according to residence, Kerala, 2019-21

| Most recent source of method | Female sterilization | Pill | IUD or PPIUD | Condom/ Nirodh | All modern methods $^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| URBAN |  |  |  |  |  |
| Public health sector | 51.6 | * | 80.6 | 45.9 | 51.3 |
| Government/municipal hospital | 46.2 | * | 26.7 | 10.8 | 42.0 |
| Vaidya/hakim/homeopath (AYUSH) | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Government dispensary | 2.5 | * | 3.8 | 0.6 | 2.4 |
| UHC/UHP/UFWC | 0.1 | * | 3.3 | 0.0 | 0.2 |
| CHC/rural hospital/Block PHC | 1.7 | * | 4.3 | 3.7 | 2.0 |
| PHC/Additional PHC | 0.3 | * | 12.6 | 9.1 | 1.4 |
| Sub-centre/ANM | 0.1 | * | 0.0 | 0.0 | 0.1 |
| Government mobile clinic | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Camp | 0.5 | * | 1.5 | 0.9 | 0.5 |
| Anganwadi/ICDS centre | 0.0 | * | 6.6 | 6.3 | 0.7 |
| ASHA | 0.0 | * | 21.8 | 13.7 | 1.7 |
| Other community-based worker | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Other public health sector | 0.2 | * | 0.0 | 0.7 | 0.2 |
| NGO or trust hospital/clinic | 0.1 | * | 0.0 | 0.0 | 0.1 |
| Private health sector | 48.1 | * | 13.1 | 25.3 | 44.6 |
| Private hospital | 48.0 | * | 11.2 | 8.6 | 42.9 |
| Private doctor/clinic | 0.1 | * | 1.8 | 1.4 | 0.2 |
| Private mobile clinic | 0.0 | * | 0.0 | 0.9 | 0.1 |
| Vaidya/hakim/homeopath (AYUSH) | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Traditional healer | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Pharmacy/drugstore | 0.0 | * | 0.0 | 14.4 | 1.4 |
| Dai (TBA) | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Other private health sector | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Other source | 0.0 | * | 6.3 | 28.8 | 2.5 |
| Shop | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Husband | 0.0 | * | 0.0 | 20.2 | 1.6 |
| Friend/relative | 0.0 | * | 6.3 | 2.6 | 0.4 |
| Other | 0.0 | * | 0.0 | 6.0 | 0.5 |
| Don't know | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Missing | 0.2 | * | 0.0 | 0.0 | 1.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of users | 1,782 | 18 | 63 | 156 | 2,052 |

Table 31 Source of modern contraceptive methods-Continued
Percent distribution of women age 15-49 who are current users of modern contraceptive methods by most recent source of the method, according to residence, Kerala, 2019-21

| Most recent source of method | Female sterilization | Pill | IUD or PPIUD | Condom/ <br> Nirodh | All modern methods ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RURAL |  |  |  |  |  |
| Public health sector | 62.0 | * | 78.2 | 62.8 | 62.0 |
| Government/municipal hospital | 51.7 | * | 26.7 | 12.0 | 48.5 |
| Vaidya/hakim/homeopath (AYUSH) | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Government dispensary | 5.3 | * | 5.8 | 5.0 | 5.3 |
| UHC/UHP/UFWC | 0.1 | * | 0.7 | 0.0 | 0.1 |
| CHC/rural hospital/Block PHC | 3.4 | * | 15.5 | 1.2 | 3.6 |
| PHC/Additional PHC | 0.4 | * | 8.2 | 15.6 | 1.4 |
| Sub-centre/ANM | 0.2 | * | 3.8 | 0.9 | 0.3 |
| Government mobile clinic | 0.0 | * | 0.7 | 0.0 | 0.0 |
| Camp | 0.9 | * | 0.5 | 5.5 | 1.1 |
| Anganwadi/ICDS centre | 0.0 | * | 3.7 | 9.7 | 0.6 |
| ASHA | 0.0 | * | 12.5 | 13.0 | 1.0 |
| Other community-based worker | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Other public health sector | 0.0 | * | 0.0 | 0.0 | 0.0 |
| NGO or trust hospital/clinic | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Private health sector | 37.7 | * | 19.9 | 17.2 | 36.1 |
| Private hospital | 37.4 | * | 19.9 | 12.5 | 35.5 |
| Private doctor/clinic | 0.1 | * | 0.0 | 0.7 | 0.1 |
| Private mobile clinic | 0.2 | * | 0.0 | 0.0 | 0.2 |
| Vaidya/hakim/homeopath (AYUSH) | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Traditional healer | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Pharmacy/drugstore | 0.0 | * | 0.0 | 4.0 | 0.3 |
| Dai (TBA) | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Other private health sector | 0.1 | * | 0.0 | 0.0 | 0.1 |
| Other source | 0.1 | * | 1.9 | 20.0 | 1.3 |
| Shop | 0.0 | * | 0.0 | 0.6 | 0.1 |
| Husband | 0.0 | * | 0.0 | 14.0 | 0.8 |
| Friend/relative | 0.0 | * | 1.9 | 3.1 | 0.2 |
| Other | 0.1 | * | 0.0 | 2.3 | 0.2 |
| Don't know | 0.0 | * | 0.0 | 0.0 | 0.0 |
| Missing | 0.1 | * | 0.0 | 0.0 | 0.6 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of users | 2,201 | 12 | 64 | 124 | 2,423 |

Table 31 Source of modern contraceptive methods-Continued
Percent distribution of women age 15-49 who are current users of modern contraceptive methods by most recent source of the method, according to residence, Kerala, 2019-21

| Most recent source of method | Female sterilization | Pill | IUD or PPIUD | Condom/ Nirodh | All modern methods ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TOTAL |  |  |  |  |  |
| Public health sector | 57.4 | (43.4) | 79.4 | 53.4 | 57.1 |
| Government/municipal hospital | 49.2 | (18.1) | 26.7 | 11.3 | 45.5 |
| Vaidya/hakim/homeopath (AYUSH) | 0.0 | (0.0) | 0.0 | 0.0 | 0.0 |
| Government dispensary | 4.0 | (14.0) | 4.8 | 2.6 | 4.0 |
| UHC/UHP/UFWC | 0.1 | (0.0) | 2.0 | 0.0 | 0.1 |
| CHC/rural hospital/Block PHC | 2.7 | (3.9) | 10.0 | 2.6 | 2.9 |
| PHC/Additional PHC | 0.4 | (3.9) | 10.4 | 12.0 | 1.4 |
| Sub-centre/ANM | 0.1 | (0.0) | 1.9 | 0.4 | 0.2 |
| Government mobile clinic | 0.0 | (0.0) | 0.4 | 0.0 | 0.0 |
| Camp | 0.7 | (0.0) | 1.0 | 2.9 | 0.9 |
| Anganwadi/ICDS centre | 0.0 | (3.5) | 5.1 | 7.8 | 0.7 |
| ASHA | 0.0 | (0.0) | 17.1 | 13.4 | 1.3 |
| Other community-based worker | 0.0 | (0.0) | 0.0 | 0.0 | 0.0 |
| Other public health sector | 0.1 | (0.0) | 0.0 | 0.4 | 0.1 |
| NGO or trust hospital/clinic | 0.1 | (0.0) | 0.0 | 0.0 | 0.1 |
| Private health sector | 42.4 | (42.5) | 16.5 | 21.7 | 40.0 |
| Private hospital | 42.1 | (26.8) | 15.6 | 10.3 | 38.9 |
| Private doctor/clinic | 0.1 | (0.0) | 0.9 | 1.1 | 0.2 |
| Private mobile clinic | 0.1 | (0.0) | 0.0 | 0.5 | 0.1 |
| Vaidya/hakim/homeopath (AYUSH) | 0.0 | (0.0) | 0.0 | 0.0 | 0.0 |
| Traditional healer | 0.0 | (0.0) | 0.0 | 0.0 | 0.0 |
| Pharmacy/drugstore | 0.0 | (15.8) | 0.0 | 9.8 | 0.8 |
| Dai (TBA) | 0.0 | (0.0) | 0.0 | 0.0 | 0.0 |
| Other private health sector | 0.0 | (0.0) | 0.0 | 0.0 | 0.0 |
| Other source | 0.0 | (14.1) | 4.1 | 24.9 | 1.8 |
| Shop | 0.0 | (1.8) | 0.0 | 0.3 | 0.0 |
| Husband | 0.0 | (9.1) | 0.0 | 17.5 | 1.1 |
| Friend/relative | 0.0 | (3.2) | 4.1 | 2.8 | 0.3 |
| Other | 0.0 | (0.0) | 0.0 | 4.3 | 0.3 |
| Don't know | 0.0 | (0.0) | 0.0 | 0.0 | 0.0 |
| Missing | 0.2 | (0.0) | 0.0 | 0.0 | 1.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of users | 3,983 | 30 | 127 | 279 | 4,475 |

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. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. All modern methods include male sterilization and injectables, which are not shown separately.
IUD = Intrauterine device; PPIUD = Postpartum intrauterine device; AYUSH = Ayurveda, yoga and naturopathy, unani, siddha and homeopathy; UHC = Urban health centre; UHP = Urban health post; UFWC = Urban family welfare centre; CHC = Community health centre; $\mathrm{PHC}=$ Primary health centre; ANM = Auxiliary nurse midwife;
ICDS = Integrated Child Development Services; ASHA = Accredited Social Health Activist; NGO = Nongovernmental organization;
TBA = Traditional birth attendant
${ }^{1}$ Excludes standard days method, lactational amenorrhoea method (LAM), and "other" modern methods

## Table 32 Informed choice

Among women who are current users of selected modern contraceptive methods who started the last episode of use within the 5 years preceding the survey, percentage who were informed about possible side effects or problems of that method, percentage who were informed about what to do if they experienced side effects, percentage who were ever told by a health or family planning worker about other methods of family planning they could use, and percentage who were informed of all three (Method Information Index) by method, according to residence, Kerala, 2019-21

| Method | Percentage who were informed about side effects or problems of method used | Percentage who were informed about what to do if experienced side effects | Percentage who were informed by a health or family planning worker of other methods that could be used | Percentage who were informed about all three <br> (Method <br> Information Index) | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
| URBAN |  |  |  |  |  |
| Female sterilization ${ }^{1}$ | 60.8 | 48.3 | 60.7 | 42.8 | 328 |
| IUD or PPIUD | (71.8) | (63.9) | (83.7) | (59.0) | 43 |
| Total | 62.6 | 50.8 | 64.1 | 45.4 | 381 |
| RURAL |  |  |  |  |  |
| Female sterilization ${ }^{1}$ | 60.4 | 53.3 | 63.6 | 46.6 | 434 |
| IUD or PPIUD | 80.5 | 67.4 | 76.2 | 54.3 | 39 |
| Total | 62.2 | 54.6 | 65.0 | 47.5 | 481 |
| TOTAL |  |  |  |  |  |
| Female sterilization ${ }^{1}$ | 60.6 | 51.2 | 62.4 | 45.0 | 763 |
| IUD or PPIUD | 75.9 | 65.5 | 80.1 | 56.7 | 82 |
| Total | 62.4 | 52.9 | 64.6 | 46.6 | 863 |

Note: Table includes only the contraceptive methods separately shown in the table and excludes users who obtained their method from friends/relatives or husband. Figures in parentheses are based on 25-49 unweighted cases. Table includes pill users, who are not shown separately.
IUD = Intrauterine device; PPIUD = Postpartum intrauterine device
${ }^{1}$ Among women who were sterilized in the 5 years preceding the survey

Table 33 Twelve-month contraceptive discontinuation rates
Among women age 15-49 who started an episode of contraceptive use within the 5 years preceding the survey, percentage of episodes discontinued within 12 months, by reason for discontinuation and specific method, Kerala, 2019-21

| Method | Reason for discontinuation |  |  |  |  |  |  |  | Switched to another method ${ }^{4}$ | Number of episodes of $u s{ }^{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 ${ }^{3}$ |  |  |
| IUD or PPIUD | (4.1) | (8.3) | (2.7) | (4.9) | (0.9) | (3.3) | (2.1) | (26.4) | (0.2) | 163 |
| Condom/Nirodh | 1.0 | 18.4 | 21.5 | 3.4 | 3.5 | 7.3 | 7.9 | 63.1 | 2.9 | 634 |
| Rhythm | 0.5 | 14.9 | 17.7 | 1.7 | 2.3 | 1.5 | 5.0 | 43.6 | 3.6 | 353 |
| Withdrawal | 2.0 | 15.2 | 24.8 | 0.0 | 2.5 | 1.6 | 4.7 | 51.0 | 2.7 | 551 |
| All modern spacing methods ${ }^{6}$ | 1.6 | 15.5 | 21.0 | 4.3 | 4.3 | 6.0 | 6.8 | 59.6 | 3.9 | 963 |
| All spacing methods ${ }^{7}$ | 1.6 | 15.3 | 21.6 | 2.5 | 3.4 | 3.9 | 5.9 | 54.2 | 3.5 | 1,867 |
| All methods | 1.1 | 10.7 | 15.0 | 1.8 | 2.4 | 2.7 | 4.1 | 37.7 | 2.4 | 2,695 |

Note: Figures are based on life table calculations using information on episodes of contraceptive use that occurred 3-62 months preceding the survey. All methods include female and male sterilization, pill, injectables and other methods, 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 given 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 2 months of discontinuation.
${ }^{5}$ All episodes of use that occurred within the 5 years preceding the survey are included. 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 pill, IUD/PPIUD, injectables, male condom, female condom, lactational amenorrhoea method (LAM), diaphragm, foam/jelly, and other modern spacing methods that are not shown separately
${ }^{7}$ Includes pill, IUD/PPIUD, injectables, male condom, female condom, lactational amenorrhoea method (LAM), diaphragm, foam/jelly, rhythm, withdrawal, and other modern spacing and traditional methods that are not shown separately

Table 34 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, 2019-21

| Background characteristic | Percentage of men who agree |  | Percentage of men who say that if a male condom is used correctly, it protects against pregnancy: |  |  |  |  | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Contraception is women's business and a man should not have to worry about it | Women who use contraception may become promiscuous |  |  |  |  |  |  |
|  |  |  | Most of the time | Sometimes | Not at all | Don't know/ unsure ${ }^{1}$ | Total |  |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 9.8 | 23.2 | 38.4 | 23.3 | 3.4 | 34.8 | 100.0 | 215 |
| 20-24 | 14.7 | 43.5 | 42.3 | 34.1 | 2.5 | 21.1 | 100.0 | 182 |
| 25-29 | 15.3 | 49.7 | 53.5 | 33.7 | 7.4 | 5.4 | 100.0 | 150 |
| 30-34 | 19.2 | 50.1 | 55.1 | 34.0 | 8.9 | 2.0 | 100.0 | 159 |
| 35-39 | 21.4 | 47.0 | 55.4 | 31.7 | 5.2 | 7.6 | 100.0 | 197 |
| 40-44 | 13.9 | 48.0 | 58.8 | 31.7 | 4.9 | 4.5 | 100.0 | 187 |
| 45-49 | 18.9 | 51.5 | 50.1 | 34.6 | 9.7 | 5.5 | 100.0 | 210 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 19.1 | 43.4 | 47.3 | 33.7 | 6.3 | 12.7 | 100.0 | 599 |
| Rural | 13.6 | 44.8 | 52.6 | 29.8 | 5.6 | 11.9 | 100.0 | 700 |
| Schooling |  |  |  |  |  |  |  |  |
| No schooling | (8.4) | (23.7) | (40.6) | (28.6) | (1.7) | (29.2) | 100.0 | 30 |
| <5 years complete | (22.7) | (38.2) | (45.9) | (38.9) | (0.0) | (15.2) | 100.0 | 26 |
| 5-9 years complete | 17.4 | 42.2 | 50.3 | 28.4 | 6.9 | 14.4 | 100.0 | 291 |
| 10-11 years complete | 18.2 | 44.3 | 49.6 | 31.1 | 5.8 | 13.6 | 100.0 | 399 |
| 12 or more years complete | 14.0 | 46.4 | 51.2 | 33.6 | 6.1 | 9.2 | 100.0 | 553 |
| Religion |  |  |  |  |  |  |  |  |
| Hindu | 15.7 | 45.2 | 51.5 | 32.8 | 4.9 | 10.8 | 100.0 | 742 |
| Muslim | 17.1 | 42.8 | 51.3 | 26.9 | 7.0 | 14.9 | 100.0 | 337 |
| Christian | 16.0 | 42.8 | 43.9 | 35.1 | 7.8 | 13.2 | 100.0 | 221 |
| Caste/tribe |  |  |  |  |  |  |  |  |
| Scheduled caste | 21.1 | 43.0 | 55.2 | 27.9 | 6.0 | 10.9 | 100.0 | 138 |
| Scheduled tribe | 13.7 | 27.4 | 47.2 | 25.4 | 2.4 | 25.1 | 100.0 | 30 |
| Other backward class | 15.0 | 44.9 | 51.9 | 31.8 | 5.4 | 10.9 | 100.0 | 767 |
| Other | 17.0 | 45.4 | 45.5 | 33.2 | 7.2 | 14.0 | 100.0 | 351 |
| Total age 15-49 | 16.1 | 44.1 | 50.1 | 31.6 | 5.9 | 12.3 | 100.0 | 1,299 |
| Age 50-54 | 12.0 | 42.6 | 50.5 | 40.2 | 4.3 | 4.9 | 100.0 | 174 |
| Total age 15-54 | 15.6 | 44.0 | 50.2 | 32.7 | 5.7 | 11.4 | 100.0 | 1,473 |

Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes men who don't know their caste/tribe, who are not shown separately. ${ }^{1}$ Includes missing values and those who never heard of male condoms
Table 35 Need and demand for family planning among currently married women
 demand for contraception that is satisfied, by background characteristics, Kerala, 2019-21

| Background characteristic | Unmet need for family planning |  |  | Met need for family planning (currently using) |  |  | Total demand for family planning ${ }^{1}$ |  |  | Number of women | Percentage of demand satisfied ${ }^{2}$ | Percentage of demand satisfied by modern methods ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 17.7 | 0.0 | 17.7 | 8.7 | 0.0 | 8.7 | 26.3 | 0.0 | 26.3 | 77 | 32.9 | 12.8 |
| 20-24 | 23.4 | 1.5 | 24.9 | 17.7 | 6.6 | 24.3 | 41.1 | 8.1 | 49.1 | 698 | 49.4 | 30.4 |
| 25-29 | 17.9 | 5.6 | 23.5 | 15.3 | 21.2 | 36.6 | 33.2 | 26.8 | 60.0 | 1,157 | 60.9 | 45.9 |
| 30-34 | 7.7 | 6.8 | 14.5 | 11.4 | 46.4 | 57.9 | 19.2 | 53.2 | 72.4 | 1,491 | 79.9 | 67.0 |
| 35-39 | 2.5 | 6.5 | 9.0 | 6.3 | 65.2 | 71.5 | 8.7 | 71.7 | 80.4 | 1,651 | 88.9 | 77.1 |
| 40-44 | 1.5 | 6.2 | 7.6 | 2.4 | 71.4 | 73.8 | 3.9 | 77.5 | 81.4 | 1,542 | 90.6 | 81.6 |
| 45-49 | 0.6 | 4.4 | 5.0 | 0.6 | 75.5 | 76.1 | 1.2 | 79.9 | 81.1 | 1,546 | 93.9 | 89.0 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 7.2 | 5.8 | 13.0 | 9.2 | 52.2 | 61.4 | 16.4 | 58.0 | 74.4 | 3,916 | 82.5 | 68.0 |
| Rural | 6.8 | 5.2 | 12.0 | 6.3 | 53.7 | 60.1 | 13.1 | 58.9 | 72.0 | 4,247 | 83.4 | 76.1 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |  |
| No schooling | 0.0 | 3.0 | 3.0 | 0.5 | 74.3 | 74.8 | 0.5 | 77.3 | 77.8 | 64 | 96.1 | 91.9 |
| <5 years complete | 0.0 | 3.5 | 3.5 | 1.5 | 75.2 | 76.7 | 1.5 | 78.7 | 80.2 | 152 | 95.7 | 86.1 |
| 5-9 years complete | 1.9 | 4.2 | 6.1 | 4.2 | 69.0 | 73.2 | 6.1 | 73.2 | 79.3 | 1,852 | 92.3 | 83.1 |
| 10-11 years complete | 4.5 | 6.0 | 10.5 | 5.5 | 61.9 | 67.5 | 10.0 | 67.9 | 78.0 | 2,016 | 86.5 | 76.0 |
| 12 or more years complete | 10.9 | 5.9 | 16.8 | 10.7 | 40.2 | 50.9 | 21.6 | 46.1 | 67.7 | 4,079 | 75.2 | 63.2 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 5.9 | 6.1 | 12.0 | 6.4 | 55.8 | 62.3 | 12.3 | 61.9 | 74.3 | 4,315 | 83.9 | 75.6 |
| Muslim | 9.2 | 4.3 | 13.5 | 10.9 | 46.4 | 57.3 | 20.1 | 50.7 | 70.9 | 2,618 | 80.9 | 63.6 |
| Christian | 6.2 | 5.7 | 11.9 | 5.1 | 57.3 | 62.4 | 11.3 | 63.1 | 74.3 | 1,227 | 83.9 | 77.7 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 6.6 | 6.4 | 13.0 | 6.9 | 53.7 | 60.6 | 13.5 | 60.1 | 73.6 | 828 | 82.4 | 74.2 |
| Scheduled tribe | 4.5 | 3.0 | 7.5 | 10.0 | 49.7 | 59.7 | 14.5 | 52.7 | 67.2 | 122 | 88.9 | 71.7 |
| Other backward class | 7.3 | 5.1 | 12.4 | 8.5 | 52.5 | 61.1 | 15.8 | 57.6 | 73.4 | 4,863 | 83.1 | 71.3 |
| Other | 6.6 | 6.2 | 12.7 | 6.1 | 54.1 | 60.2 | 12.7 | 60.2 | 72.9 | 2,325 | 82.5 | 73.5 |
| Total | 7.0 | 5.5 | 12.5 | 7.7 | 53.0 | 60.7 | 14.7 | 58.5 | 73.2 | 8,163 | 83.0 | 72.2 |

 Maryland, USA. Total includes women belonging to other religions and women who don't know their caste/tribe, who are not shown separately.
${ }^{1}$ Total demand is the sum of unmet need and met need
${ }^{1}$ 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


Table 36 Unmet need for family planning by district

Percentage of currently married women age 15-49 with unmet need for family planning by district, and total for NFHS-4, Kerala, 2019-21

| District | Total unmet need | Unmet need for spacing | Unmet need for limiting | Number of women |
| :---: | :---: | :---: | :---: | :---: |
| Alappuzha | 12.3 | 6.0 | 6.3 | 482 |
| Ernakulam | 10.7 | 6.8 | 3.9 | 781 |
| Idukki | 9.4 | 5.3 | 4.1 | 256 |
| Kannur | 12.7 | 9.2 | 3.5 | 692 |
| Kasaragod | 12.5 | 6.4 | 6.1 | 372 |
| Kollam | 11.9 | 7.2 | 4.7 | 633 |
| Kottayam | 16.1 | 5.6 | 10.5 | 421 |
| Kozhikode | 9.5 | 5.9 | 3.6 | 747 |
| Malappuram | 13.8 | 8.5 | 5.3 | 1,146 |
| Palakkad | 10.8 | 6.7 | 4.1 | 719 |
| Pathanamthitta | 12.3 | 4.9 | 7.5 | 229 |
| Thiruvananthapuram | 19.3 | 9.8 | 9.5 | 786 |
| Thrissur | 10.8 | 4.9 | 6.0 | 695 |
| Wayanad | 5.6 | 4.0 | 1.6 | 204 |
| Kerala | 12.5 | 7.0 | 5.5 | 8,163 |
| NFHS-4 (2015-16) | 13.7 | 8.3 | 5.4 | 8,147 |

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.
Table 37 Hysterectomy
 the hysterectomy was performed, according to background characteristics, Kerala, 2019-21

| Background characteristic | Percentage of women who have had a hysterectomy | Number of women | Median age at time of hysterectomy | Number of women who reported age at hysterectomy | Place of hysterectomy |  |  |  | Number of women with a hysterectomy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Percentage performed in the public health sector | Percentage performed in the private health sector ${ }^{1}$ | Percentage performed elsewhere or don't know where it was performed | Total |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-29 | 0.0 | 4,230 | * | 2 | * | * | * | 100.0 | 2 |
| 30-39 | 0.4 | 3,302 | * | 14 | * | * | * | 100.0 | 14 |
| 40-49 | 5.8 | 3,437 | 41.1 | 200 | 34.4 | 64.8 | 0.8 | 100.0 | 200 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 2.2 | 5,277 | 41.1 | 118 | 32.4 | 67.6 | 0.0 | 100.0 | 118 |
| Rural | 1.7 | 5,692 | 40.1 | 98 | 37.5 | 61.0 | 1.6 | 100.0 | 98 |
| Schooling |  |  |  |  |  |  |  |  |  |
| No schooling | 2.2 | 83 | * | 2 | * | * | * | 100.0 | 2 |
| <5 years complete | 6.5 | 197 | * | 13 | * | * | * | 100.0 | 13 |
| 5-9 years complete | 4.2 | 2,246 | 40.4 | 93 | 34.2 | 64.2 | 1.6 | 100.0 | 93 |
| 10-11 years complete | 1.9 | 2,826 | 38.4 | 55 | 48.9 | 51.1 | 0.0 | 100.0 | 55 |
| 12 or more years complete | 0.9 | 5,617 | 42.7 | 53 | 13.6 | 86.4 | 0.0 | 100.0 | 53 |
| Religion |  |  |  |  |  |  |  |  |  |
| Hindu | 2.1 | 5,958 | 41.5 | 123 | 39.6 | 59.1 | 1.2 | 100.0 | 123 |
| Muslim | 1.6 | 3,272 | (39.7) | 51 | (29.9) | (70.1) | (0.0) | 100.0 | 51 |
| Christian | 2.3 | 1,736 | (40.0) | 39 | (26.9) | (73.1) | (0.0) | 100.0 | 39 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 1.9 | 1,210 | * | 23 | * | * | * | 100.0 | 23 |
| Scheduled tribe | 0.4 | 176 | * | 1 | * | * | * | 100.0 | 1 |
| Other backward class | 1.9 | 6,409 | 40.4 | 123 | 33.6 | 66.4 | 0.0 | 100.0 | 123 |
| Other | 2.2 | 3,139 | 40.5 | 68 | 26.8 | 70.9 | 2.3 | 100.0 | 68 |
| Don't know | (3.6) | 36 | * | 1 | * | * | * | 100.0 | 1 |
| Total | 2.0 | 10,969 | 40.6 | 215 | 34.7 | 64.6 | 0.7 | 100.0 | 215 |
| Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includer belonging to other religions, who are not shown separately. ${ }^{1}$ Includes nongovernmental organization or trust hospital/clinic |  |  |  |  |  |  |  |  |  |

## Table 38 Pregnancy outcome

Percent distribution of last pregnancies among women age 15-49 during the 5 years preceding the survey by pregnancy outcome, according to background characteristics, Kerala, 2019-21

| Background characteristic | Pregnancy outcome |  |  |  | Total | Number of pregnancies |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Live birth | Abortion | Miscarriage | Stillbirth |  |  |
| Mother's current age |  |  |  |  |  |  |
| 20-29 | 92.7 | 2.6 | 4.7 | 0.0 | 100.0 | 1,286 |
| 30-39 | 93.2 | 2.6 | 4.1 | 0.2 | 100.0 | 1,080 |
| 40-49 | 81.3 | 5.8 | 13.0 | 0.0 | 100.0 | 110 |
| Residence |  |  |  |  |  |  |
| Urban | 93.2 | 3.1 | 3.7 | 0.0 | 100.0 | 1,188 |
| Rural | 91.5 | 2.4 | 5.9 | 0.2 | 100.0 | 1,308 |
| Mother's schooling |  |  |  |  |  |  |
| 5-9 years complete | 93.2 | 0.9 | 5.4 | 0.6 | 100.0 | 249 |
| 10-11 years complete | 89.7 | 3.9 | 6.2 | 0.2 | 100.0 | 489 |
| 12 or more years complete | 92.9 | 2.7 | 4.4 | 0.0 | 100.0 | 1,751 |
| Religion |  |  |  |  |  |  |
| Hindu | 91.6 | 3.0 | 5.3 | 0.1 | 100.0 | 1,179 |
| Muslim | 93.6 | 2.2 | 4.1 | 0.1 | 100.0 | 978 |
| Christian | 91.4 | 3.2 | 5.4 | 0.0 | 100.0 | 339 |
| Caste/tribe |  |  |  |  |  |  |
| Scheduled caste | 91.4 | 3.0 | 5.0 | 0.6 | 100.0 | 252 |
| Scheduled tribe | 94.0 | 1.3 | 4.7 | 0.0 | 100.0 | 37 |
| Other backward class | 92.5 | 2.6 | 4.8 | 0.1 | 100.0 | 1,528 |
| Other | 92.1 | 2.9 | 5.0 | 0.0 | 100.0 | 670 |
| Total | 92.3 | 2.7 | 4.9 | 0.1 | 100.0 | 2,496 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes pregnancies of women age 15-19, women with no schooling or less than 5 years of schooling, women belonging to other religions, and women who don't know their caste/ tribe, which are not shown separately.

## Table 39 Characteristics of abortions

Among women age 15-49 whose last pregnancy in the last 5 years ended in an abortion, percent distribution by main reason for abortion, method of abortion, place of abortion and person who performed the abortion, percentage who had complications from the abortion, and among women who had complications, percentage who sought treatment for the complications, and among women who sought treatment for the complications, percent distribution of the place of treatment, according to residence, Kerala, 2019-21

| Characteristic of abortion | Urban | Rural | Total |
| :---: | :---: | :---: | :---: |
| Main reason for abortion |  |  |  |
| Unplanned pregnancy | (22.3) | (12.4) | 17.7 |
| Contraceptive failure | (0.0) | (4.5) | 2.1 |
| Complications in pregnancy | (29.0) | (13.9) | 22.1 |
| Health did not permit | (16.5) | (19.4) | 17.8 |
| Female foetus | (0.0) | (0.0) | 0.0 |
| Male foetus | (0.0) | (0.0) | 0.0 |
| Economic reasons | (0.0) | (0.0) | 0.0 |
| Last child too young | (11.6) | (11.3) | 11.5 |
| Foetus had congenital abnormality | (13.7) | (18.7) | 16.0 |
| Husband/mother-in-law did not want | (0.0) | (0.0) | 0.0 |
| Other | (6.8) | (19.9) | 12.8 |
| Total | 100.0 | 100.0 | 100.0 |
| Method of abortion |  |  |  |
| Medicines | (79.0) | (74.5) | 76.9 |
| MVA | (4.6) | (4.7) | 4.7 |
| Other surgical | (8.4) | (11.9) | 10.0 |
| Other | (3.9) | (8.9) | 6.2 |
| Don't know | (4.1) | (0.0) | 2.2 |
| Total | 100.0 | 100.0 | 100.0 |
| Place of abortion |  |  |  |
| Public health sector | (47.9) | (49.2) | 48.5 |
| Private health sector ${ }^{1}$ | (49.4) | (50.8) | 50.1 |
| At home | (2.7) | (0.0) | 1.5 |
| Other | (0.0) | (0.0) | 0.0 |
| Total | 100.0 | 100.0 | 100.0 |
| Person who performed the abortion |  |  |  |
| Doctor | (85.6) | (95.9) | 90.3 |
| Nurse/ANM/LHV | (0.0) | (2.6) | 1.2 |
| Dai (TBA) | (0.0) | (0.0) | 0.0 |
| Family member/relative/friend | (0.0) | (0.0) | 0.0 |
| Self | (14.4) | (0.0) | 7.8 |
| Other | (0.0) | (1.5) | 0.7 |
| Total | 100.0 | 100.0 | 100.0 |
| Complications from the abortion |  |  |  |
| Percentage of women who had complications from the abortion | (11.0) | (14.8) | 12.8 |
| Number of women with abortions | 37 | 31 | 68 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
MVA = Manual vacuum aspiration; ANM = Auxiliary nurse midwife; LHV = Lady health visitor; TBA = Traditional birth attendant
${ }^{1}$ Includes nongovernmental organization or trust hospital/clinic

Table 40 Age at first marriage
Percentage of women age 15-49 and men age 15-54 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, 2019-21

| Current age | Percentage first married by exact age: |  |  |  |  | Percentage never married | $\qquad$ | Median age at first marriage | Median age at first cohabitation | Median age at first sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15 | 18 | 20 | 21 | 25 |  |  |  |  |  |
| WOMEN |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.0 | na | na | na | na | 94.7 | 1,472 | a | a | a |
| 20-24 | 0.2 | 6.3 | 25.3 | na | na | 50.6 | 1,426 | a | a | a |
| 25-29 | 0.7 | 11.5 | 32.5 | 44.0 | 78.7 | 11.0 | 1,332 | 21.6 | 21.6 | 21.6 |
| 30-34 | 1.7 | 13.2 | 29.8 | 42.7 | 78.9 | 1.2 | 1,541 | 21.6 | 21.6 | 21.6 |
| 35-39 | 2.7 | 15.4 | 34.2 | 45.4 | 77.8 | 1.4 | 1,760 | 21.5 | 21.5 | 21.4 |
| 40-44 | 3.7 | 18.8 | 36.8 | 46.4 | 77.3 | 1.4 | 1,679 | 21.4 | 21.3 | 21.2 |
| 45-49 | 5.9 | 20.2 | 36.2 | 45.2 | 75.8 | 2.1 | 1,758 | 21.7 | 21.5 | 21.5 |
| 20-49 | 2.6 | 14.6 | 32.8 | na | na | 10.2 | 9,497 | a | a | a |
| 25-49 | 3.1 | 16.1 | 34.1 | 44.8 | 77.6 | 3.1 | 8,071 | 21.5 | 21.5 | 21.5 |
| MEN |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.0 | na | na | na | na | 100.0 | 215 | a | a | a |
| 20-24 | 0.0 | 0.0 | 0.4 | na | na | 99.0 | 182 | a | a | a |
| 25-29 | 0.0 | 0.0 | 0.0 | 1.4 | 11.8 | 70.8 | 150 | a | a | a |
| 30-34 | 0.0 | 0.0 | 1.3 | 4.0 | 15.7 | 31.9 | 159 | 29.7 | 29.7 | 30.0 |
| 35-39 | 0.0 | 0.0 | 2.9 | 4.9 | 18.8 | 15.6 | 197 | 28.2 | 28.3 | 28.5 |
| 40-44 | 0.0 | 0.0 | 0.9 | 1.4 | 15.4 | 5.3 | 187 | 29.3 | 29.1 | 29.3 |
| 45-49 | 0.0 | 0.3 | 1.9 | 5.4 | 24.1 | 5.9 | 210 | 28.1 | 28.1 | 28.3 |
| 50-54 | 0.0 | 0.7 | 3.6 | 4.8 | 19.8 | 1.4 | 174 | 28.6 | 28.2 | 29.0 |
| 20-49 | 0.0 | 0.0 | 1.3 | na | na | 35.9 | 1,085 | a | a | a |
| 25-49 | 0.0 | 0.1 | 1.5 | 3.6 | 17.6 | 23.2 | 903 | a | a | a |

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 41 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-4 and NFHS-3, by residence, Kerala, 2019-21
\(\left.$$
\begin{array}{lccccr}\hline & \begin{array}{c}\text { Neonatal } \\
\text { mortality } \\
\text { (NN) }\end{array} & \begin{array}{c}\text { Postneonatal } \\
\text { mortality }{ }^{1} \\
\text { (PNN) }\end{array} & \begin{array}{c}\text { Infant } \\
\text { mortality } \\
(1 q 0)\end{array} & \begin{array}{c}\text { Child } \\
\text { mortality } \\
(4 q 1)\end{array} & \begin{array}{c}\text { Under-five } \\
\text { mortality }\end{array}
$$ <br>

(5 q 0)\end{array}\right]\)|  |
| :--- |

Note: All estimates are for the 5 years preceding the survey (approximately 2001-2005 for NFHS-3, 2011-2015 for NFHS-4 and 2015-2019 for NFHS-5). Figures in parentheses are based on 250-499 unweighted person-years of exposure to the risk of death.
${ }^{1}$ Computed as the difference between the infant and neonatal mortality rates

## Table 42 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, 2019-21

| Background characteristic | Neonatal mortality (NN) | Postneonatal mortality ${ }^{1}$ (PNN) | Infant mortality (1q0) | Child mortality (4q1) | Under-five mortality (5q0) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Schooling |  |  |  |  |  |
| <10 years complete | (4.3) | (5.1) | (9.5) | (1.3) | (10.8) |
| 10 or more years complete | 3.3 | 0.5 | 3.8 | 0.7 | 4.5 |
| Religion |  |  |  |  |  |
| Hindu | 5.9 | 1.0 | 6.8 | 1.0 | 7.8 |
| Muslim | 1.4 | 1.4 | 2.7 | 0.4 | 3.2 |
| Christian | (1.4) | (0.0) | (1.4) | (1.1) | (2.6) |
| Caste/tribe |  |  |  |  |  |
| Scheduled caste | (1.1) | (0.0) | (1.1) | (3.0) | (4.1) |
| Other backward class | 4.0 | 0.9 | 4.9 | 0.3 | 5.2 |
| Other ${ }^{2}$ | 1.5 | 1.6 | 3.0 | 0.6 | 3.6 |
| Child's sex |  |  |  |  |  |
| Male | 3.0 | 0.2 | 3.2 | 0.5 | 3.7 |
| Female | 3.9 | 1.8 | 5.7 | 1.0 | 6.7 |
| Mother's age at birth |  |  |  |  |  |
| 20-29 | 3.7 | 1.5 | 5.2 | 1.0 | 6.1 |
| 30-39 | 2.4 | 0.0 | 2.4 | 0.4 | 2.8 |
| Birth order |  |  |  |  |  |
| 1 | 4.8 | 1.0 | 5.8 | 1.1 | 6.9 |
| 2-3 | 2.5 | 0.8 | 3.3 | 0.6 | 3.9 |
| Previous birth interval ${ }^{3}$ |  |  |  |  |  |
| 2-3 years | 4.2 | 2.2 | 6.5 | 0.0 | 6.5 |
| 4 years or more | 1.7 | 0.4 | 2.0 | 0.4 | 2.5 |
| Total | 3.4 | 1.0 | 4.4 | 0.8 | 5.2 |

Note: Figures in parentheses are based on 250-499 unweighted person-years of exposure to the risk of death. Total includes children whose mothers have no schooling, children belonging to other religions, children whose caste/tribe is not known, children of birth order 4 or more, scheduled tribe children, children with mother's age at birth less than 20 or 40-49, and children with previous birth interval of less than 2 years, who are not shown separately.
${ }^{1}$ Computed as the difference between the infant and neonatal mortality rates
${ }^{2}$ Not belonging to scheduled caste, scheduled tribe, or other backward class
${ }^{3}$ Excludes first-order births

Table 43 High-risk fertility behaviour
Percent distribution of children born in the 5 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, 2019-21

| Risk category | Births in the 5 years preceding the survey |  | Percentage of currently married women ${ }^{1}$ |
| :---: | :---: | :---: | :---: |
|  | Percentage of births | Risk ratio |  |
| Not in any high-risk category | 42.1 | 1.0 | $63.9{ }^{\text {a }}$ |
| Unavoidable risk category |  |  |  |
| First order births between ages 18 and 34 years | 41.8 | 1.4 | 6.4 |
| Single high-risk category |  |  |  |
| Mother's age <18 | 0.3 | * | 0.0 |
| Mother's age >34 | 6.1 | 0.0 | 18.3 |
| Birth interval <24 months | 5.7 | 0.0 | 5.2 |
| Birth order >3 | 1.8 | (1.4) | 1.1 |
| Subtotal | 13.8 | 0.2 | 24.5 |
| Multiple high-risk category |  |  |  |
| Mother's age >34 and birth interval <24 months | 0.3 | * | 0.3 |
| Mother's age >34 and birth order >3 | 1.4 | (0.0) | 4.0 |
| Mother's age >34 and birth interval <24 months and birth order >3 | 0.1 | * | 0.3 |
| Birth interval <24 months and birth order >3 | 0.5 | * | 0.6 |
| Subtotal | 2.3 | 0.0 | 5.2 |
| In any avoidable high-risk category | 16.1 | 0.2 | 29.8 |
| Total | 100.0 | na | 100.0 |
| Number of births | 2,743 | na | 8,163 |

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. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer 25 unweighted cases and has been suppressed.
na $=$ Not applicable
${ }^{1}$ Women are assigned to risk categories according to the status they would have at the birth of a child if they were to conceive at the time of the survey: current age less than 17 years and 3 months or greater than 34 years and 2 months, latest birth less than 15 months ago, or latest birth of order 3 or higher
${ }^{\text {a }}$ Includes sterilized women

## Table 44 Antenatal care

Percent distribution of women who had a live birth in the 5 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, 2019-21

| Background characteristic | Doctor | ANM/ nurse/ midwife/ LHV | Anganwadi/ ICDS worker | ASHA | No ANC | Total | Number of women | Percentage receiving ANC from a skilled provider ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mother's age at birth |  |  |  |  |  |  |  |  |
| <20 | 97.4 | 0.0 | 0.0 | 1.0 | 1.6 | 100.0 | 109 | 97.4 |
| 20-34 | 97.9 | 0.1 | 0.1 | 0.2 | 1.8 | 100.0 | 2,057 | 98.0 |
| 35-49 | 98.9 | 0.0 | 0.0 | 0.5 | 0.7 | 100.0 | 208 | 98.9 |
| Birth order |  |  |  |  |  |  |  |  |
| 1 | 96.9 | 0.2 | 0.1 | 0.3 | 2.5 | 100.0 | 938 | 97.1 |
| 2-3 | 98.6 | 0.0 | 0.1 | 0.2 | 1.1 | 100.0 | 1,344 | 98.6 |
| 4 or more | 98.5 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 | 92 | 98.5 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 97.9 | 0.1 | 0.1 | 0.4 | 1.5 | 100.0 | 1,135 | 98.0 |
| Rural | 98.0 | 0.1 | 0.1 | 0.1 | 1.8 | 100.0 | 1,239 | 98.0 |
| Schooling |  |  |  |  |  |  |  |  |
| 5-9 years complete | 96.5 | 0.0 | 0.0 | 0.4 | 3.1 | 100.0 | 239 | 96.5 |
| 10-11 years complete | 98.7 | 0.2 | 0.0 | 0.0 | 1.1 | 100.0 | 454 | 98.9 |
| 12 or more years complete | 97.9 | 0.1 | 0.1 | 0.3 | 1.6 | 100.0 | 1,675 | 98.0 |
| Religion |  |  |  |  |  |  |  |  |
| Hindu | 97.8 | 0.2 | 0.0 | 0.4 | 1.7 | 100.0 | 1,115 | 97.9 |
| Muslim | 98.7 | 0.0 | 0.0 | 0.1 | 1.2 | 100.0 | 935 | 98.7 |
| Christian | 96.5 | 0.0 | 0.7 | 0.0 | 2.8 | 100.0 | 323 | 96.5 |
| Caste/tribe |  |  |  |  |  |  |  |  |
| Scheduled caste | 95.6 | 0.8 | 0.0 | 1.0 | 2.7 | 100.0 | 244 | 96.4 |
| Scheduled tribe | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 35 | 100.0 |
| Other backward class | 98.2 | 0.0 | 0.1 | 0.2 | 1.5 | 100.0 | 1,454 | 98.2 |
| Other | 98.2 | 0.0 | 0.1 | 0.0 | 1.7 | 100.0 | 633 | 98.2 |
| Total | 97.9 | 0.1 | 0.1 | 0.2 | 1.7 | 100.0 | 2,374 | 98.0 |

Note: If more than one source of ANC was mentioned, only the provider with the highest qualification is considered in this table. Total includes women with no schooling or less than 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; TBA = Traditional birth attendant; 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 45 Antenatal care services and information received

Percent of women who had a live birth in the 5 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, 2019-21

| Services/information | Residence |  | Source of ANC |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Public health sector | Private health sector $^{1}$ | Both public and private health sector ${ }^{1}$ | ANC received only at home |  |
|  | Urban | Rural |  |  |  |  |  |
| Percentage receiving selected services during antenatal care |  |  |  |  |  |  |  |
| Weighed | 99.3 | 99.8 | 99.6 | 99.5 | 100.0 | 100.0 | 99.6 |
| Blood pressure measured | 98.9 | 99.6 | 99.1 | 99.3 | 99.0 | 99.3 | 99.2 |
| Urine sample taken | 99.1 | 99.6 | 99.4 | 99.2 | 100.0 | 99.7 | 99.4 |
| Blood sample taken | 99.2 | 99.8 | 99.5 | 99.5 | 100.0 | 99.7 | 99.5 |
| Abdomen examined | 99.1 | 99.1 | 98.9 | 99.3 | 100.0 | 99.2 | 99.1 |
| Percentage receiving information on specific pregnancy complications |  |  |  |  |  |  |  |
| Vaginal bleeding | 42.6 | 38.9 | 34.6 | 39.6 | 32.1 | 55.9 | 40.7 |
| Convulsions | 31.5 | 27.5 | 23.9 | 27.4 | 25.2 | 48.5 | 29.4 |
| Prolonged labour | 38.8 | 35.8 | 33.3 | 33.7 | 36.2 | 58.9 | 37.3 |
| Severe abdominal pain | 41.6 | 38.2 | 35.5 | 36.6 | 32.2 | 59.5 | 39.9 |
| High blood pressure | 42.1 | 38.4 | 35.1 | 37.9 | 31.0 | 57.2 | 40.2 |
| Where to go if experienced pregnancy complications | 86.1 | 89.4 | 87.7 | 86.2 | 89.7 | 94.6 | 87.8 |
| Number of women | 1,118 | 1,217 | 790 | 1,290 | 96 | 349 | 2,335 |

[^9]Among women with a live birth in the 5 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, 2019-21

| Background characteristic | Percentage who had four or more ANC visits | Percentage with an ANC visit in the first trimester of pregnancy | Percentage who received two or more TT injections during the pregnancy | 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 took IFA for at least 180 days | Percentage who took an intestinal parasite drug | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |
| <20 | 69.9 | 93.8 | 93.7 | 96.1 | 93.5 | 80.1 | 65.2 | 20.0 | 109 |
| 20-34 | 78.7 | 93.4 | 93.1 | 95.1 | 98.2 | 79.7 | 66.7 | 19.2 | 2,057 |
| 35-49 | 82.0 | 95.9 | 95.1 | 96.3 | 99.0 | 83.0 | 71.1 | 22.8 | 208 |
| Birth order |  |  |  |  |  |  |  |  |  |
| 1 | 76.1 | 93.4 | 92.5 | 94.2 | 98.7 | 79.5 | 66.8 | 15.8 | 938 |
| 2-3 | 79.7 | 93.7 | 93.7 | 95.6 | 97.6 | 79.8 | 66.3 | 21.5 | 1,344 |
| 4 or more | 88.0 | 94.8 | 96.0 | 100.0 | 97.0 | 86.7 | 78.9 | 28.9 | 92 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 79.3 | 93.9 | 92.3 | 94.7 | 97.8 | 80.5 | 66.2 | 19.8 | 1,135 |
| Rural | 78.0 | 93.3 | 94.2 | 95.7 | 98.2 | 79.5 | 67.7 | 19.4 | 1,239 |
| Schooling |  |  |  |  |  |  |  |  |  |
| 5-9 years complete | 80.9 | 92.9 | 96.1 | 98.0 | 97.3 | 77.7 | 58.9 | 27.2 | 239 |
| 10-11 years complete | 80.0 | 94.5 | 95.1 | 96.1 | 97.0 | 81.6 | 69.5 | 19.9 | 454 |
| 12 or more years complete | 77.9 | 93.4 | 92.4 | 94.6 | 98.4 | 79.8 | 67.5 | 18.5 | 1,675 |
| Religion |  |  |  |  |  |  |  |  |  |
| Hindu | 76.6 | 93.4 | 91.7 | 93.6 | 98.2 | 77.9 | 66.3 | 19.8 | 1,115 |
| Muslim | 82.7 | 94.7 | 96.0 | 97.4 | 97.4 | 83.7 | 67.3 | 21.1 | 935 |
| Christian | 73.7 | 91.1 | 91.1 | 94.4 | 99.2 | 76.2 | 68.3 | 14.4 | 323 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 77.1 | 91.7 | 91.8 | 95.0 | 96.4 | 72.4 | 62.3 | 25.6 | 244 |
| Scheduled tribe | 86.0 | 96.7 | 95.5 | 96.9 | 100.0 | 93.0 | 75.4 | 14.5 | 35 |
| Other backward class | 79.2 | 94.2 | 94.1 | 95.5 | 98.3 | 80.3 | 66.4 | 19.1 | 1,454 |
| Other | 78.0 | 92.7 | 92.2 | 94.6 | 98.2 | 81.7 | 69.8 | 18.7 | 633 |
| Total | 78.6 | 93.6 | 93.3 | 95.2 | 98.0 | 80.0 | 67.0 | 19.6 | 2,374 |

Note: Total includes women with no schooling or less than 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 live birth, or two or more injections (the last within 3 years of the last live birth), or three or more injections (the last within 5 years of the last 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 live birth

Table 47 Antenatal care indicators
Among women with a live birth in the 5 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, 2019-21

| District | Percentage who had four or more ANC visits | Percentage with an ANC visit in the first trimester of pregnancy | Percentage who received two or more TT injections during the pregnancy | 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 took IFA for at least 180 days | Percentage who took an intestinal parasite drug | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alappuzha | 65.7 | 85.1 | 85.4 | 87.5 | 97.6 | 61.0 | 52.0 | 30.8 | 124 |
| Ernakulam | 82.2 | 92.6 | 94.0 | 96.5 | 99.4 | 82.8 | 70.6 | 8.9 | 214 |
| Idukki | 74.3 | 93.3 | 94.0 | 98.0 | 99.3 | 75.6 | 63.6 | 16.2 | 72 |
| Kannur | 78.3 | 94.8 | 97.2 | 97.7 | 95.0 | 78.0 | 58.8 | 20.8 | 223 |
| Kasaragod | 91.2 | 97.4 | 98.9 | 99.2 | 98.4 | 89.4 | 83.7 | 16.6 | 133 |
| Kollam | 79.3 | 92.6 | 97.8 | 98.5 | 99.2 | 89.0 | 81.5 | 16.2 | 162 |
| Kottayam | 55.1 | 81.6 | 75.6 | 83.6 | 96.2 | 51.1 | 44.0 | 16.6 | 107 |
| Kozhikode | 91.8 | 98.3 | 95.7 | 96.7 | 98.9 | 85.7 | 76.1 | 12.8 | 220 |
| Malappuram | 90.4 | 95.3 | 98.6 | 99.6 | 99.7 | 92.3 | 71.1 | 28.6 | 398 |
| Palakkad | 68.4 | 97.7 | 86.3 | 87.9 | 94.7 | 71.7 | 58.8 | 16.6 | 199 |
| Pathanamthitta | 83.9 | 92.9 | 92.0 | 94.2 | 98.0 | 74.7 | 58.6 | 39.6 | 55 |
| Thiruvananthapuram | 55.3 | 87.7 | 87.7 | 91.9 | 98.1 | 71.6 | 59.9 | 12.3 | 232 |
| Thrissur | 82.4 | 97.1 | 95.0 | 95.7 | 98.0 | 78.6 | 70.8 | 25.7 | 179 |
| Wayanad | 94.2 | 97.6 | 96.6 | 99.4 | 99.5 | 94.9 | 75.3 | 21.3 | 56 |
| Kerala | 78.6 | 93.6 | 93.3 | 95.2 | 98.0 | 80.0 | 67.0 | 19.6 | 2,374 |

TT = Tetanus toxoid; IFA = Iron and folic acid tablets or syrup
${ }^{1}$ Includes mothers with two injections during the pregnancy for her last live birth, or two or more injections (the last within 3 years of the last live birth), or three or more injections (the last within 5 years of the last 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 live birth

## Table 48 Advice received during pregnancy

Among women with a live birth in the 5 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, 2019-21
$\left.\begin{array}{llllll}\hline & & & & & \begin{array}{c}\text { Number of women } \\ \text { who met with a }\end{array} \\ \text { community health } \\ \text { worker in the last } \\ \text { three months }\end{array}\right)$

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes women with no schooling or less than 5 years of schooling 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 workers
Table 49 Pregnancies for which an ultrasound test was done
Percentage of all pregnancies in the 5 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, 2019-21

| Background characteristic | Percentage of pregnancies with an ultrasound test | Number of pregnancies | Pregnancy outcome ${ }^{1}$ |  |  |  | Total | Number of pregnancies with an ultrasound test |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Son | Daughter | Termination | Still pregnant |  |  |
| Mother's age at pregnancy |  |  |  |  |  |  |  |  |
| <20 | 94.3 | 275 | 47.0 | 40.7 | 5.1 | 7.2 | 100.0 | 259 |
| 20-34 | 94.8 | 2,830 | 41.7 | 40.6 | 6.4 | 11.3 | 100.0 | 2,682 |
| 35-49 | 96.5 | 231 | 36.4 | 37.1 | 17.5 | 9.0 | 100.0 | 223 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 94.7 | 1,616 | 40.9 | 41.0 | 6.5 | 11.6 | 100.0 | 1,531 |
| Rural | 95.0 | 1,720 | 42.6 | 39.8 | 7.6 | 10.1 | 100.0 | 1,634 |
| Antenatal care visits ${ }^{2}$ |  |  |  |  |  |  |  |  |
| None | (89.9) | 50 | (37.0) | (47.8) | (7.6) | (7.6) | 100.0 | 45 |
| 1-3 | 89.1 | 225 | 38.8 | 42.7 | 4.1 | 14.5 | 100.0 | 201 |
| 4 or more | 96.0 | 2,297 | 42.7 | 39.5 | 7.4 | 10.4 | 100.0 | 2,206 |
| Don't know | 90.4 | 375 | 37.2 | 44.2 | 6.9 | 11.8 | 100.0 | 338 |
| Mother's schooling |  |  |  |  |  |  |  |  |
| 5-9 years complete | 93.9 | 327 | 42.2 | 42.0 | 6.8 | 9.0 | 100.0 | 307 |
| 10-11 years complete | 95.6 | 649 | 43.5 | 38.2 | 8.5 | 9.8 | 100.0 | 621 |
| 12 or more years complete | 94.8 | 2,352 | 41.2 | 40.7 | 6.7 | 11.4 | 100.0 | 2,229 |
| Religion |  |  |  |  |  |  |  |  |
| Hindu | 94.4 | 1,539 | 41.1 | 40.6 | 8.3 | 10.0 | 100.0 | 1,453 |
| Muslim | 95.5 | 1,318 | 43.1 | 39.7 | 5.8 | 11.3 | 100.0 | 1,259 |
| Christian | 94.6 | 479 | 40.1 | 41.4 | 6.5 | 12.0 | 100.0 | 453 |
| Caste/tribe |  |  |  |  |  |  |  |  |
| Scheduled caste | 92.2 | 351 | 38.1 | 43.1 | 7.1 | 11.8 | 100.0 | 324 |
| Scheduled tribe | 91.5 | 59 | 41.2 | 37.5 | 9.0 | 12.3 | 100.0 | 54 |
| Other backward class | 94.8 | 2,036 | 41.9 | 39.8 | 7.0 | 11.2 | 100.0 | 1,929 |
| Other | 96.3 | 879 | 43.1 | 40.2 | 7.0 | 9.7 | 100.0 | 847 |
|  |  |  |  |  |  |  |  | Continued... |

Table 49 Pregnancies for which an ultrasound test was done-Continued
Percentage of all pregnancies in the 5 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, 2019-21

| Background characteristic | Percentage of pregnancies with an ultrasound test | Number of pregnancies | Pregnancy outcome ${ }^{1}$ |  |  |  | Total percent | Number of pregnancies with an ultrasound test |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Son | Daughter | Termination | Still pregnant |  |  |
| Mother's number of living children at time of pregnancy |  |  |  |  |  |  |  |  |
| No children | 94.6 | 1,452 | 40.4 | 41.9 | 6.5 | 11.2 | 100.0 | 1,375 |
| 1 child | 95.2 | 1,330 | 42.9 | 39.9 | 6.7 | 10.4 | 100.0 | 1,266 |
| 0 sons | 95.5 | 679 | 40.5 | 41.9 | 7.6 | 10.0 | 100.0 | 648 |
| 1 son | 94.8 | 652 | 45.4 | 37.9 | 5.8 | 10.9 | 100.0 | 618 |
| 2 children | 94.3 | 436 | 40.9 | 37.5 | 10.4 | 11.2 | 100.0 | 411 |
| 0 sons | 96.7 | 124 | 44.7 | 29.1 | 9.8 | 16.3 | 100.0 | 120 |
| 1 or more sons | 93.3 | 312 | 39.3 | 40.9 | 10.6 | 9.1 | 100.0 | 291 |
| 3 children | 96.6 | 95 | 47.8 | 37.0 | 5.5 | 9.8 | 100.0 | 91 |
| 1 or more sons | 98.2 | 79 | 52.6 | 35.1 | 3.0 | 9.3 | 100.0 | 78 |
| Total | 94.9 | 3,336 | 41.8 | 40.4 | 7.0 | 10.8 | 100.0 | 3,165 |

Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes pregnancies of women with no schooling or less than 5 years of schooling, women belonging to other religions, women who don't know their caste/tribe, women with 3 children but no sons, and women with 4 or more children, which are not shown separately.
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 50 Pregnancy registration and Mother and Child Protection Card

Percentage of women age 15-49 who had a live birth in the 5 years preceding the survey who registered the pregnancy for the most recent live birth; and among registered pregnancies, percent distribution by the timing of the registration and percentage who received a Mother and Child Protection (MCP) Card, by background characteristics, Kerala, 2019-21

| Background characteristic | Percentage of pregnancies that were registered | Number of pregnancies | Timing of pregnancy registration |  |  | Percentage of mothers given an MCP card | Number of registered pregnancies |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | First trimester | Later | Don't know |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |
| <20 | 97.6 | 109 | 93.4 | 4.6 | 2.0 | 97.1 | 107 |
| 20-34 | 96.6 | 2,057 | 91.1 | 6.7 | 2.1 | 91.2 | 1,986 |
| 35-49 | 95.3 | 208 | 90.2 | 7.9 | 1.9 | 88.7 | 198 |
| Birth order |  |  |  |  |  |  |  |
| 1 | 95.9 | 938 | 91.1 | 6.4 | 2.5 | 93.1 | 900 |
| 2-3 | 96.9 | 1,344 | 90.8 | 7.3 | 1.8 | 90.2 | 1,302 |
| 4 or more | 97.0 | 92 | 96.2 | 2.1 | 1.7 | 87.4 | 89 |
| Residence |  |  |  |  |  |  |  |
| Urban | 94.7 | 1,135 | 90.5 | 6.3 | 3.1 | 89.8 | 1,075 |
| Rural | 98.2 | 1,239 | 91.7 | 7.2 | 1.2 | 92.5 | 1,216 |
| Schooling |  |  |  |  |  |  |  |
| 5-9 years complete | 97.2 | 239 | 94.1 | 3.2 | 2.4 | 95.3 | 232 |
| 10-11 years complete | 97.7 | 454 | 94.0 | 5.4 | 0.7 | 94.2 | 444 |
| 12 or more years complete | 96.1 | 1,675 | 89.9 | 7.7 | 2.4 | 89.8 | 1,609 |
| Religion |  |  |  |  |  |  |  |
| Hindu | 96.4 | 1,115 | 91.1 | 5.9 | 2.8 | 93.3 | 1,075 |
| Muslim | 96.9 | 935 | 91.6 | 7.2 | 1.1 | 89.1 | 907 |
| Christian | 95.5 | 323 | 89.4 | 8.2 | 2.4 | 90.5 | 309 |
| Caste/tribe |  |  |  |  |  |  |  |
| Scheduled caste | 99.5 | 244 | 93.7 | 4.8 | 1.5 | 99.0 | 242 |
| Scheduled tribe | 100.0 | 35 | 95.4 | 3.8 | 0.9 | 100.0 | 35 |
| Other backward class | 96.9 | 1,454 | 91.0 | 6.7 | 2.2 | 91.5 | 1,409 |
| Other | 94.6 | 633 | 90.1 | 7.8 | 1.9 | 87.0 | 599 |
| Total | 96.5 | 2,374 | 91.1 | 6.7 | 2.1 | 91.2 | 2,291 |

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

Table 51 Delivery and postnatal care
Percent distribution of live births to women age 15-49 in the 5 years preceding the survey by place of delivery and assistance during delivery, percentage of live births delivered by a skilled provider and by caesarean section, percentage of live births delivered at home that were delivered by a skilled provider, and percentage for which the delivery protocol was followed, and percent distribution of women giving birth in the 5 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, 2019-21

| Delivery and postnatal care descriptors | Urban | Rural | Total |
| :---: | :---: | :---: | :---: |
| Place of delivery |  |  |  |
| Health facility | 99.7 | 99.8 | 99.8 |
| Public sector | 30.2 | 37.7 | 34.1 |
| NGO/trust | 0.5 | 0.5 | 0.5 |
| Private sector | 69.0 | 61.6 | 65.1 |
| At home | 0.2 | 0.2 | 0.2 |
| Own home | 0.2 | 0.1 | 0.1 |
| Parent's home | 0.0 | 0.1 | 0.0 |
| Other ${ }^{1}$ | 0.1 | 0.0 | 0.1 |
| Total | 100.0 | 100.0 | 100.0 |
| Assistance during delivery ${ }^{2}$ |  |  |  |
| Doctor | 99.6 | 99.2 | 99.4 |
| ANM/nurse/midwife/LHV | 0.3 | 0.8 | 0.6 |
| Friends/relatives | 0.1 | 0.0 | 0.0 |
| Other | 0.0 | 0.0 | 0.0 |
| Total | 100.0 | 100.0 | 100.0 |
| Percentage of all births delivered by a skilled provider ${ }^{3}$ | 99.9 | 100.0 | 100.0 |
| Percentage of home births delivered by a skilled provider ${ }^{3}$ | 0.1 | 0.2 | 0.2 |
| Percentage delivered by caesarean section | 39.1 | 38.7 | 38.9 |
| Percentage delivered by emergency caesarean section ${ }^{4}$ | 10.8 | 10.7 | 10.7 |
| Number of births | 1,318 | 1,425 | 2,743 |
| Timing after delivery of mother's first postnatal check ${ }^{6}$ |  |  |  |
| Less than four hours | 86.6 | 88.3 | 87.5 |
| 4-23 hours | 3.0 | 2.4 | 2.7 |
| 1-2 days | 3.5 | 2.6 | 3.0 |
| 3-41 days | 0.8 | 0.7 | 0.7 |
| No postnatal check | 6.1 | 6.0 | 6.1 |
| Total | 100.0 | 100.0 | 100.0 |
| Type of provider of mother's first postnatal check ${ }^{6}$ |  |  |  |
| Doctor | 92.0 | 90.8 | 91.4 |
| ANM/nurse/midwife/LHV | 1.7 | 3.0 | 2.3 |
| Other health personnel | 0.2 | 0.1 | 0.2 |
| Dai (TBA) | 0.0 | 0.1 | 0.0 |
| No postnatal check | 6.1 | 6.0 | 6.1 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of last live births | 1,135 | 1,239 | 2,374 |

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
${ }^{3}$ Skilled health personnel 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
${ }^{5}$ Based on the last live birth in the five years preceding the survey
${ }^{6}$ Based 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 52 Delivery and postnatal care by background characteristics

 the survey, percentage of deliveries assisted by health personnel, by background characteristics, Kerala, 2019-21

| 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 | Among births in the year preceding the survey: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Percentage of deliveries assisted by health personnel ${ }^{1}$ | Number of births |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 38.4 | 61.6 | 100.0 | 100.0 | 154 | 91.2 | 90.7 | 109 | (100.0) | 31 |
| 20-34 | 34.0 | 65.7 | 99.7 | 99.9 | 2,372 | 94.1 | 93.4 | 2,057 | 99.7 | 492 |
| 35-49 | 32.5 | 67.5 | 100.0 | 100.0 | 217 | 93.3 | 92.7 | 208 | 100.0 | 50 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 30.2 | 69.5 | 99.7 | 99.9 | 1,318 | 93.9 | 93.1 | 1,135 | 99.7 | 276 |
| Rural | 37.7 | 62.1 | 99.8 | 100.0 | 1,425 | 94.0 | 93.3 | 1,239 | 99.8 | 296 |
| Birth order |  |  |  |  |  |  |  |  |  |  |
| 1 | 32.4 | 67.2 | 99.7 | 100.0 | 1,201 | 93.7 | 93.4 | 938 | 100.0 | 247 |
| 2-3 | 36.0 | 63.8 | 99.8 | 99.9 | 1,440 | 93.9 | 92.9 | 1,344 | 99.6 | 301 |
| 4 or more | 26.7 | 73.3 | 100.0 | 100.0 | 102 | 97.0 | 95.9 | 92 | * | 24 |
| Antenatal care visits ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| None | (50.4) | (49.6) | (100.0) | (100.0) | 40 | (68.9) | (68.9) | 40 | * | 6 |
| 1-3 | 36.9 | 63.1 | 100.0 | 100.0 | 178 | 94.0 | 92.2 | 178 | (100.0) | 38 |
| 4+ | 32.7 | 67.2 | 99.9 | 99.9 | 1,867 | 95.8 | 95.1 | 1,867 | 99.7 | 448 |
| Don't know | 41.2 | 58.8 | 100.0 | 100.0 | 290 | 85.4 | 84.9 | 290 | 100.0 | 70 |
| Mother's schooling |  |  |  |  |  |  |  |  |  |  |
| 5-9 years complete | 53.4 | 46.3 | 99.7 | 100.0 | 282 | 93.3 | 92.3 | 239 | (98.8) | 41 |
| 10-11 years complete | 46.5 | 53.2 | 99.7 | 99.9 | 526 | 94.9 | 93.9 | 454 | 100.0 | 96 |
| 12 or more years complete | 27.7 | 72.1 | 99.8 | 100.0 | 1,928 | 93.8 | 93.1 | 1,675 | 99.8 | 433 |
| Religion |  |  |  |  |  |  |  |  |  |  |
| Hindu | 43.7 | 56.1 | 99.8 | 99.9 | 1,248 | 93.2 | 92.9 | 1,115 | 99.7 | 256 |
| Muslim | 23.4 | 76.3 | 99.8 | 100.0 | 1,105 | 94.9 | 93.7 | 935 | 99.8 | 228 |
| Christian | 33.6 | 66.0 | 99.5 | 99.9 | 390 | 93.7 | 92.7 | 323 | 100.0 | 89 |

Table 52 Delivery and postnatal care by background characteristics-Continued

 the survey, percentage of deliveries assisted by health personnel, by background characteristics, Kerala, 2019-21

| 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 | Among births in the year preceding the survey: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Percentage of deliveries assisted by health personnel ${ }^{1}$ | Number of births |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 65.1 | 34.9 | 100.0 | 100.0 | 284 | 90.8 | 90.2 | 244 | 100.0 | 56 |
| Scheduled tribe | 71.9 | 28.1 | 100.0 | 100.0 | 45 | 100.0 | 100.0 | 35 | * | 13 |
| Other backward class | 30.3 | 69.5 | 99.8 | 100.0 | 1,666 | 94.1 | 93.3 | 1,454 | 100.0 | 344 |
| Other | 28.1 | 71.5 | 99.6 | 99.8 | 737 | 94.7 | 93.8 | 633 | 99.1 | 155 |
| Place of delivery |  |  |  |  |  |  |  |  |  |  |
| Public health facility | 100.0 | 0.0 | 100.0 | 99.9 | 935 | 93.2 | 92.7 | 815 | 100.0 | 212 |
| Private health facility ${ }^{4}$ | 0.0 | 100.0 | 100.0 | 100.0 | 1,801 | 94.4 | 93.5 | 1,557 | 99.9 | 359 |
| Total | 34.1 | 65.7 | 99.8 | 100.0 | 2,743 | 93.9 | 93.2 | 2,374 | 99.8 | 572 |


 delivery, which is not shown separately.
 most qualified person is considered in this table.
For the most recent birth in the 5 birth
${ }^{4}$ Includes nongovernmental organizations or trust hospitals/clinics
Table 53 Delivery and postnatal care by district
Percentage of live births in the 5 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 5 years preceding the survey who received a postnatal check within two days of birth for their most recent birth, by district, Kerala, 2019-21

| District | 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 ${ }^{1}$ | 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alappuzha | 49.0 | 50.4 | 99.4 | 100.0 | 47.8 | 139 | 89.2 | 124 |
| Ernakulam | 23.2 | 76.0 | 99.1 | 100.0 | 51.1 | 250 | 96.1 | 214 |
| Idukki | 47.6 | 52.4 | 100.0 | 100.0 | 40.3 | 89 | 94.0 | 72 |
| Kannur | 33.6 | 66.4 | 100.0 | 100.0 | 39.7 | 253 | 93.4 | 223 |
| Kasaragod | 29.9 | 70.1 | 100.0 | 100.0 | 28.7 | 157 | 95.0 | 133 |
| Kollam | 44.7 | 55.3 | 100.0 | 100.0 | 49.1 | 186 | 91.4 | 162 |
| Kottayam | 44.3 | 54.4 | 98.7 | 99.3 | 48.0 | 127 | 85.0 | 107 |
| Kozhikode | 42.2 | 57.8 | 100.0 | 100.0 | 45.7 | 257 | 91.0 | 220 |
| Malappuram | 25.6 | 74.4 | 100.0 | 100.0 | 25.5 | 462 | 96.9 | 398 |
| Palakkad | 29.6 | 70.4 | 100.0 | 100.0 | 31.2 | 226 | 97.0 | 199 |
| Pathanamthitta | 36.7 | 62.3 | 99.1 | 99.2 | 57.6 | 61 | 94.2 | 55 |
| Thiruvananthapuram | 34.7 | 64.8 | 99.5 | 100.0 | 32.8 | 259 | 86.2 | 232 |
| Thrissur | 30.8 | 69.2 | 100.0 | 100.0 | 45.7 | 208 | 95.2 | 179 |
| Wayanad | 37.6 | 62.4 | 100.0 | 100.0 | 25.7 | 68 | 95.9 | 56 |
| Kerala | 34.1 | 65.7 | 99.8 | 100.0 | 38.9 | 2,743 | 93.2 | 2,374 |

 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 54 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 5 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 5 years preceding the survey for the most recent birth that was delivered in a health facility, percentage who received financial assistance under Janani Suraksha Yojana (JSY), according to background characteristics, Kerala, 2019-21

| Background characteristic | Average cost (Rs.) ${ }^{1}$ |  |  | Percentage who received financial assistance under JSY | Number of births in a health facility |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public health facility | Private health facility | Any health facility |  |  |
| Mother's age at birth |  |  |  |  |  |
| <20 | 9,467 | 35,383 | 26,009 | 13.1 | 150 |
| 20-34 | 6,480 | 34,287 | 25,462 | 12.9 | 2,029 |
| 35-49 | 6,877 | 44,424 | 33,384 | 13.6 | 192 |
| Birth order |  |  |  |  |  |
| 1 | 7,365 | 36,101 | 27,428 | 16.3 | 1,177 |
| 2-3 | 6,194 | 33,890 | 24,441 | 9.9 | 1,119 |
| 4 or more | 5,086 | 39,107 | 31,369 | 6.6 | 76 |
| Residence |  |  |  |  |  |
| Urban | 6,602 | 35,636 | 27,495 | 12.7 | 1,133 |
| Rural | 6,789 | 34,742 | 24,877 | 13.2 | 1,239 |
| Schooling |  |  |  |  |  |
| 5-9 years complete | 7,281 | 31,118 | 19,649 | 13.8 | 238 |
| 10-11 years complete | 5,665 | 32,343 | 20,153 | 15.1 | 454 |
| 12 or more years complete | 7,111 | 36,179 | 28,733 | 12.3 | 1,673 |
| Religion |  |  |  |  |  |
| Hindu | 7,122 | 35,540 | 24,231 | 17.2 | 1,114 |
| Muslim | 5,631 | 34,676 | 27,778 | 8.5 | 934 |
| Christian | 7,388 | 35,724 | 27,884 | 11.2 | 323 |
| Caste/tribe |  |  |  |  |  |
| Scheduled caste | 5,604 | 30,138 | 15,043 | 22.2 | 244 |
| Scheduled tribe | 5,215 | 32,085 | 14,908 | 38.3 | 35 |
| Other backward class | 7,168 | 35,653 | 27,457 | 12.5 | 1,453 |
| Other | 6,686 | 35,326 | 27,837 | 9.0 | 632 |
| Total | 6,710 | 35,195 | 26,134 | 13.0 | 2,372 |

[^10]
## Table 55 Birth order and delivery characteristics by district

Percentage of births during the 3 years preceding the survey of birth order 3 or more, percentage of women who had a live birth in the 5 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 5 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, 2019-21

| District | Percentage of births of birth order 3 or more | Number of births | Percentage of last births receiving antenatal care from doctor | Percentage of last births receiving antenatal care from ANM/nurse/ midwife/LHV | Number of last births | Percentage of births in a health facility receiving financial assistance under JSY | Number of births in a health facility |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alappuzha | 10.2 | 78 | 97.0 | 14.0 | 124 | 12.1 | 123 |
| Ernakulam | 10.1 | 146 | 100.0 | 21.5 | 214 | 6.7 | 214 |
| Idukki | 17.3 | 48 | 99.3 | 37.6 | 72 | 17.6 | 72 |
| Kannur | 21.9 | 151 | 98.3 | 35.0 | 223 | 18.1 | 223 |
| Kasaragod | 24.8 | 89 | 99.3 | 26.4 | 133 | 12.4 | 133 |
| Kollam | 4.9 | 110 | 97.1 | 10.0 | 162 | 20.4 | 162 |
| Kottayam | 11.2 | 74 | 86.6 | 12.2 | 107 | 15.9 | 106 |
| Kozhikode | 23.1 | 144 | 98.4 | 38.9 | 220 | 20.2 | 220 |
| Malappuram | 27.7 | 246 | 99.6 | 15.0 | 398 | 8.5 | 398 |
| Palakkad | 8.0 | 133 | 100.0 | 17.5 | 199 | 6.8 | 199 |
| Pathanamthitta | 14.7 | 31 | 99.1 | 6.8 | 55 | 19.1 | 55 |
| Thiruvananthapuram | 10.3 | 158 | 93.4 | 7.9 | 232 | 7.1 | 232 |
| Thrissur | 15.2 | 118 | 100.0 | 19.3 | 179 | 16.4 | 179 |
| Wayanad | 22.3 | 41 | 100.0 | 6.2 | 56 | 19.4 | 56 |
| Kerala | 16.6 | 1,569 | 97.9 | 19.9 | 2,374 | 13.0 | 2,372 |

ANM = Auxiliary nurse midwife; LHV = Lady health visitor

## Table 56 Timing of first health check after birth for the newborn

Percent distribution of last births in the 5 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, 2019-21

| Background characteristic | Time between delivery and newborn's first postnatal health check |  |  |  |  | No postnatal health check ${ }^{1}$ | Total | Percentage of births with a health check in the first two days after birth | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Less than 1 hour | 1-3 hours | $\begin{aligned} & 4-23 \\ & \text { hours } \end{aligned}$ | 1-2 days | 3-6 days |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |
| <20 | 36.7 | 54.2 | 0.2 | 1.8 | 0.0 | 4.7 | 100.0 | 92.8 | 150 |
| 20-34 | 36.2 | 52.4 | 0.6 | 1.7 | 0.1 | 3.9 | 100.0 | 90.9 | 2,032 |
| 35-49 | 45.5 | 44.9 | 0.5 | 1.7 | 0.0 | 4.1 | 100.0 | 92.5 | 192 |
| Birth order |  |  |  |  |  |  |  |  |  |
| 1 | 35.2 | 52.2 | 0.8 | 2.5 | 0.0 | 3.8 | 100.0 | 90.7 | 938 |
| 2-3 | 37.7 | 52.1 | 0.4 | 1.2 | 0.1 | 4.0 | 100.0 | 91.3 | 1,344 |
| 4-5 | 46.9 | 44.8 | 1.1 | 1.1 | 0.0 | 5.2 | 100.0 | 93.8 | 89 |
| Place of delivery |  |  |  |  |  |  |  |  |  |
| Public health facility | 32.9 | 55.2 | 0.5 | 2.0 | 0.0 | 3.7 | 100.0 | 90.5 | 815 |
| Private health facility ${ }^{2}$ | 39.2 | 50.2 | 0.6 | 1.5 | 0.1 | 4.0 | 100.0 | 91.6 | 1,557 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 36.8 | 51.1 | 0.6 | 1.9 | 0.1 | 4.1 | 100.0 | 90.4 | 1,135 |
| Rural | 37.2 | 52.6 | 0.6 | 1.6 | 0.0 | 3.8 | 100.0 | 91.9 | 1,239 |
| Religion |  |  |  |  |  |  |  |  |  |
| Hindu | 34.9 | 54.7 | 0.3 | 1.8 | 0.0 | 2.9 | 100.0 | 91.7 | 1,115 |
| Muslim | 39.0 | 50.1 | 0.7 | 1.4 | 0.1 | 5.2 | 100.0 | 91.2 | 935 |
| Christian | 38.5 | 47.4 | 1.0 | 2.4 | 0.0 | 3.9 | 100.0 | 89.3 | 323 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 33.0 | 52.7 | 0.6 | 2.7 | 0.0 | 5.2 | 100.0 | 89.1 | 244 |
| Scheduled tribe | 24.2 | 72.6 | 0.0 | 3.1 | 0.0 | 0.0 | 100.0 | 100.0 | 35 |
| Other backward class | 37.9 | 50.9 | 0.6 | 1.6 | 0.1 | 3.7 | 100.0 | 90.9 | 1,454 |
| Other | 37.8 | 52.4 | 0.6 | 1.5 | 0.0 | 4.3 | 100.0 | 92.2 | 633 |
| Mother's schooling |  |  |  |  |  |  |  |  |  |
| 5-9 years complete | 42.2 | 46.4 | 0.8 | 2.7 | 0.0 | 5.2 | 100.0 | 92.1 | 239 |
| 10-11 years complete | 39.2 | 52.6 | 0.3 | 1.2 | 0.0 | 2.9 | 100.0 | 93.3 | 454 |
| 12 or more years complete | 35.6 | 52.6 | 0.6 | 1.7 | 0.1 | 4.0 | 100.0 | 90.5 | 1,675 |
| Total | 37.0 | 51.9 | 0.6 | 1.7 | 0.1 | 3.9 | 100.0 | 91.2 | 2,374 |

[^11]
## Table 57 Trends in maternal care indicators

Maternal care indicators for births during the 5 years preceding the survey by residence, NFHS-5 and NFHS-4, Kerala

| Indicator | $\begin{gathered} \text { NFHS-5 } \\ (2019-21) \end{gathered}$ | $\begin{gathered} \text { NFHS-4 } \\ (2015-16) \end{gathered}$ |
| :---: | :---: | :---: |
| URBAN |  |  |
| Percentage who received antenatal care ${ }^{1}$ | 87.7 | 99.4 |
| Percentage who had at least four antenatal care visits ${ }^{1}$ | 79.2 | 88.5 |
| Percentage who received antenatal care within the first trimester of pregnancy ${ }^{1}$ | 93.9 | 96.2 |
| Percentage of births delivered in a health facility ${ }^{2}$ | 99.7 | 99.9 |
| Percentage of deliveries assisted by health personnel ${ }^{2,3}$ | 99.9 | 100.0 |
| RURAL |  |  |
| Percentage who received antenatal care ${ }^{1}$ | 84.8 | 99.4 |
| Percentage who had at least four antenatal care visits ${ }^{1}$ | 78.0 | 91.7 |
| Percentage who received antenatal care within the first trimester of pregnancy ${ }^{1}$ | 93.3 | 94.2 |
| Percentage of births delivered in a health facility ${ }^{2}$ | 99.8 | 99.9 |
| Percentage of deliveries assisted by health personnel ${ }^{2,3}$ | 100.0 | 100.0 |
| TOTAL |  |  |
| Percentage who received antenatal care ${ }^{1}$ | 86.2 | 99.4 |
| Percentage who had at least four antenatal care visits ${ }^{1}$ | 78.6 | 90.2 |
| Percentage who received antenatal care within the first trimester of pregnancy ${ }^{1}$ | 93.6 | 95.1 |
| Percentage of births delivered in a health facility ${ }^{2}$ | 99.8 | 99.9 |
| Percentage of deliveries assisted by health personnel ${ }^{2,3}$ | 99.9 | 100.0 |
| ${ }^{1}$ Based on the last birth to women in the 5 years preceding the survey <br> ${ }^{2}$ Based on all births in the 5 years preceding the survey <br> ${ }^{3}$ Doctor, auxiliary nurse midwife (ANM), nurse, midwife, lady health visitor (LHV), or other health personnel |  |  |
|  |  |  |
|  |  |  |

## Table 58 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 mother of the child received antenatal care (ANC), 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, 2019-21

| Antenatal and delivery care information | Urban | Rural | Total |
| :---: | :---: | :---: | :---: |
| Percentage of men for whom the child's mother received antenatal care | (100.0) | 100.0 | 100.0 |
| Percentage of men who were present at any antenatal check-up | (95.7) | 92.9 | 93.9 |
| Percentage who were told by a health provider or worker about the following signs of pregnancy complications: |  |  |  |
| Vaginal bleeding | (43.2) | 62.6 | 55.7 |
| Convulsions | (53.0) | 68.3 | 62.9 |
| Prolonged labour | (57.4) | 69.5 | 65.2 |
| Severe abdominal pain | (63.6) | 65.8 | 65.0 |
| High blood pressure | (57.1) | 70.9 | 66.0 |
| Percentage ever told what to do if the child's mother had any pregnancy complications | (75.3) | 83.5 | 80.6 |
| 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 the baby in a health facility | (74.1) | 85.2 | 81.2 |
| The importance of proper nutrition for the mother during pregnancy | (79.6) | 90.2 | 86.4 |
| Family planning or delaying his next child | (62.5) | 70.9 | 67.9 |
| Number of men with a youngest child age 0-35 months | 55 | 100 | 155 |

[^12]Table 59 Vaccinations by background characteristics
 seen by the interviewer, by background characteristics, Kerala, 2019-21, and total for NFHS-4

| Background characteristic | BCG | Hepatitis B or Penta ${ }^{1}$ |  |  |  | DPT or Penta |  |  | Polio ${ }^{2}$ |  |  |  | MCV/ <br> Measles/ <br> MMR/MR | All basic vaccinations ${ }^{3}$ | All age appropriate vaccinations ${ }^{4}$ | Novaccinations | Percentage with a vaccination card seen | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 0 | 1 | 2 | 3 | 1 | 2 | 3 | 0 | 1 | 2 | 3 |  |  |  |  |  |  |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 98.1 | 81.9 | 94.6 | 91.3 | 84.6 | 96.6 | 93.3 | 86.7 | 92.5 | 96.4 | 91.5 | 83.8 | 88.7 | 78.2 | 65.5 | 1.5 | 87.6 | 258 |
| Female | 96.9 | 80.8 | 92.8 | 88.3 | 81.3 | 94.9 | 90.2 | 83.5 | 92.5 | 93.7 | 88.4 | 84.3 | 89.1 | 77.4 | 63.5 | 2.2 | 89.8 | 221 |
| Birth order |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 98.8 | 88.6 | 94.2 | 88.5 | 84.4 | 95.8 | 92.4 | 88.1 | 96.2 | 96.3 | 90.8 | 84.3 | 88.7 | 78.5 | 70.3 | 1.2 | 86.0 | 194 |
| 2-3 | 96.5 | 76.0 | 93.6 | 91.3 | 82.3 | 95.9 | 91.8 | 83.3 | 89.4 | 94.0 | 89.6 | 83.6 | 89.4 | 77.5 | 60.3 | 2.4 | 90.2 | 266 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 98.2 | 80.1 | 94.6 | 92.8 | 85.3 | 95.9 | 92.1 | 86.1 | 93.6 | 96.3 | 92.3 | 85.8 | 87.0 | 77.6 | 63.1 | 1.0 | 90.8 | 230 |
| Rural | 97.0 | 82.6 | 93.0 | 87.3 | 80.9 | 95.7 | 91.7 | 84.3 | 91.6 | 94.2 | 87.9 | 82.5 | 90.5 | 78.0 | 65.9 | 2.7 | 86.6 | 249 |
| Mother's schooling |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8-9 years complete | 98.0 | 80.6 | 87.0 | 82.3 | 78.2 | 86.1 | 80.0 | 75.9 | 90.2 | 88.2 | 84.0 | 77.3 | 81.6 | 69.5 | 56.2 | 2.0 | 92.7 | 47 |
| 10-11 years complete <br> 12 or more years | 95.6 | 86.4 | 95.1 | 88.1 | 80.5 | 97.8 | 92.4 | 85.8 | 92.5 | 97.0 | 88.9 | 83.5 | 89.7 | 75.8 | 65.2 | 2.2 | 87.1 | 89 |
| complete | 98.1 | 80.0 | 94.3 | 91.7 | 84.4 | 96.7 | 93.7 | 86.4 | 92.9 | 95.7 | 91.4 | 85.2 | 89.8 | 79.5 | 65.4 | 1.6 | 88.3 | 335 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 97.6 | 83.9 | 95.2 | 93.6 | 86.3 | 97.4 | 94.1 | 88.6 | 96.0 | 96.4 | 93.6 | 85.7 | 91.7 | 79.9 | 68.7 | 1.5 | 90.4 | 224 |
| Muslim | 97.4 | 79.8 | 91.7 | 86.2 | 79.4 | 93.2 | 87.5 | 80.7 | 87.0 | 93.9 | 84.9 | 81.1 | 83.5 | 73.9 | 61.2 | 2.6 | 87.3 | 192 |
| Christian | 98.2 | 77.4 | 94.6 | 88.4 | 82.7 | 98.2 | 97.4 | 86.9 | 96.8 | 94.8 | 92.8 | 87.2 | 95.0 | 82.6 | 60.2 | 0.5 | 86.0 | 63 |

Continued...
Continued...
Table 59 Vaccinations by background characteristics-Continued
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, 2019-21, and total for NFHS-4

| Background characteristic | BCG | Hepatitis B or Penta ${ }^{1}$ |  |  |  | DPT or Penta |  |  | Polio ${ }^{2}$ |  |  |  | MCV/ <br> Measles/ <br> MMR/MR | All basic vaccinations ${ }^{3}$ | All age appropriate vaccinations ${ }^{4}$ | No vaccinations ${ }^{5}$ | Percentage with a vaccination card seen | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 0 | 1 | 2 | 3 | 1 | 2 | 3 | 0 | 1 | 2 | 3 |  |  |  |  |  |  |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 96.2 | 81.2 | 93.4 | 93.4 | 83.4 | 94.3 | 93.4 | 87.2 | 95.3 | 96.2 | 92.0 | 86.6 | 94.1 | 83.0 | 69.3 | 3.8 | 86.1 | 54 |
| Other backward class | 97.5 | 82.5 | 92.3 | 87.3 | 80.9 | 95.0 | 90.4 | 83.0 | 92.1 | 94.1 | 89.2 | 82.5 | 85.6 | 75.2 | 62.6 | 2.1 | 87.6 | 273 |
| Other ${ }^{6}$ | 98.0 | 78.3 | 96.2 | 93.0 | 86.1 | 97.5 | 93.7 | 87.9 | 91.8 | 96.6 | 90.3 | 85.1 | 92.6 | 79.7 | 64.8 | 0.7 | 90.8 | 143 |
| Total | 97.6 | 81.4 | 93.7 | 89.9 | 83.0 | 95.8 | 91.9 | 85.2 | 92.5 | 95.2 | 90.0 | 84.1 | 88.9 | 77.8 | 64.6 | 1.8 | 88.6 | 479 |
| NFHS-4 (2015-16) | 98.1 | 76.4 | 92.6 | 90.0 | 82.4 | 95.4 | 93.8 | 90.4 | 95.1 | 96.7 | 94.5 | 88.5 | 89.4 | 82.1 | na | 1.7 | 86.1 | 486 |


 more, children of mothers with less than 5 years of schooling or 5-7 years of schooling, and scheduled tribe children, who are not shown separately.
${ }^{1}$ Hepatitis B 0 is the hepatitis vaccination given at birth. There is no Penta 0 vaccine.
Polio 0 is the polio vaccination given at birth
${ }^{3}$ BCG, MCV/Measles/MMR/MR, and three doses each of DPT/Penta and polio vaccine (excluding polio vaccine given at birth)
${ }^{5}$ BCG, MCV/Measles/MMR/MR, four doses of hepatitis B/Penta, and three doses each of DPT/Penta and polio vaccine (excluding polio vaccine given at birth)
${ }^{6}$ Child not received any vaccinations listed in the table
${ }^{5}$ Child has not received any vaccinations listed in the table
${ }^{6}$ Not belonging to scheduled caste, scheduled tribe, or othe
Table 60 Vaccinations by district
 card seen by the interviewer, by district, Kerala, 2019-21

| District | BCG | Hepatitis B or Penta ${ }^{1}$ |  |  |  | DPT or Penta |  |  | Polio ${ }^{2}$ |  |  |  | MCV/ <br> Measles/ <br> MMR/MR | All basic vaccinations ${ }^{3}$ | All age appropriate vaccinations ${ }^{4}$ | No vaccinations ${ }^{5}$ | Percentage with a vaccination card seen | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 0 | 1 | 2 | 3 | 1 | 2 | 3 | 0 | 1 | 2 | 3 |  |  |  |  |  |  |
| Alappuzha | (96.9) | (74.3) | (91.1) | (91.1) | (76.8) | (100.0) | (94.1) | (76.8) | (96.9) | (91.1) | (88.5) | (79.3) | (87.1) | (61.9) | (51.3) | (0.0) | (80.8) | 26 |
| Ernakulam | (97.9) | (81.2) | (97.9) | (97.9) | (91.4) | (97.9) | (95.3) | (91.4) | (91.1) | (97.9) | (95.4) | (82.6) | (92.7) | (82.6) | (64.4) | (2.1) | (85.2) | 49 |
| Idukki | (100.0) | (86.7) | (100.0) | (96.6) | (89.6) | (100.0) | (96.6) | (89.6) | (96.7) | (100.0) | (100.0) | (96.6) | (93.0) | (89.6) | (79.7) | (0.0) | (100.0) | 14 |
| Kannur | 98.0 | 94.5 | 94.9 | 89.0 | 87.5 | 93.0 | 91.0 | 87.5 | 98.0 | 94.5 | 89.0 | 79.5 | 83.7 | 77.7 | 75.7 | 2.0 | 87.9 | 47 |
| Kasaragod | 98.6 | 88.2 | 98.6 | 96.6 | 95.3 | 98.6 | 96.6 | 96.6 | 92.4 | 97.3 | 97.3 | 94.4 | 97.3 | 92.5 | 82.1 | 1.4 | 94.4 | 30 |
| Kollam | (96.2) | (73.0) | (98.7) | (98.7) | (82.1) | (98.7) | (98.7) | (89.1) | (90.8) | (100.0) | (100.0) | (95.6) | (89.1) | (85.4) | (60.5) | (0.0) | (90.1) | 27 |
| Kozhikode | (98.1) | (92.7) | (94.5) | (94.5) | (89.4) | (94.5) | (94.5) | (90.7) | (96.3) | (98.1) | (96.2) | (96.2) | (90.7) | (88.8) | (87.5) | (1.9) | (96.2) | 55 |
| Malappuram | 100.0 | 83.2 | 94.0 | 88.3 | 82.0 | 96.1 | 90.3 | 82.3 | 87.7 | 94.3 | 90.3 | 86.2 | 88.2 | 80.3 | 61.4 | 0.0 | 90.4 | 73 |
| Palakkad | (90.2) | (76.0) | (78.7) | (68.0) | (62.4) | (87.6) | (73.9) | (71.0) | (81.5) | (87.4) | (65.1) | (57.0) | (77.0) | (51.8) | (43.2) | (9.8) | (70.8) | 40 |
| Thiruvananthapuram | (100.0) | (78.5) | (96.3) | (85.2) | (81.0) | (100.0) | (92.8) | (84.0) | (95.2) | (96.1) | (87.1) | (76.3) | (93.4) | (72.8) | (56.6) | (0.0) | (84.5) | 41 |
| Wayanad | (97.7) | (83.9) | (90.8) | (84.2) | (81.9) | (90.8) | (88.6) | (86.4) | (95.5) | (95.5) | (93.3) | (88.8) | (90.8) | (86.4) | (75.0) | (2.3) | (97.7) | 14 |
| Kerala | 97.6 | 81.4 | 93.7 | 89.9 | 83.0 | 95.8 | 91.9 | 85.2 | 92.5 | 95.2 | 90.0 | 84.1 | 88.9 | 77.8 | 64.6 | 1.8 | 88.6 | 479 |


 parentheses are based on 25-49 unweighted cases. Total includes children belonging to Kottayam, Pathanamthitta, and Thrissur districts, who are not shown separately. ${ }^{1}$ Hepatitis B 0 is the hepatitis vaccination given at birth. There is no Penta 0 vaccine.
${ }^{2}$ Polio 0 is the polio vaccination given at birth
${ }^{3}$ BCG, MCV/Measles/MMR/MR, and three doses each of DPT/Penta and polio vaccine (excluding polio vaccine given at birth)
${ }^{4}$ BCG, MCV/Measles/MMR/MR, four doses of hepatitis B/Penta, and three doses each of DPT and polio vaccine (excluding polio vaccine given at birth)

## Table 61 Prevalence and treatment of symptoms of ARI and fever

Among children under age 5 years, percentage who had symptoms of acute respiratory infection (ARI) and fever in the 2 weeks preceding the survey and among children with symptoms of ARI and fever in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought from a health facility or provider, according to background characteristics, Kerala, 2019-21

| Background characteristic | Children under age five |  |  | Children under age five with symptoms of ARI |  |  | Children under age five with fever |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with symptoms of ARI ${ }^{1}$ | Percentage with fever | Number of children | Percentage for whom treatment was sought from a health facility or provider ${ }^{2}$ | Percentage who received antibiotics | Number of children | Percentage for whom treatment was sought from a health facility or provider ${ }^{2}$ | Number of children |
| Age in months |  |  |  |  |  |  |  |  |
| <6 | 1.2 | 13.3 | 236 | * | * | 3 | (77.1) | 31 |
| 6-11 | 1.9 | 25.2 | 288 | * | * | 5 | 89.6 | 72 |
| 12-23 | 2.7 | 24.1 | 479 | * | * | 13 | 93.8 | 116 |
| 24-35 | 2.8 | 25.9 | 561 | * | * | 16 | 86.8 | 145 |
| 36-47 | 2.7 | 20.7 | 564 | * | * | 15 | 88.2 | 117 |
| 48-59 | 2.2 | 22.0 | 602 | * | * | 13 | 90.4 | 132 |
| Sex |  |  |  |  |  |  |  |  |
| Male | 2.5 | 21.4 | 1,399 | (66.2) | (42.2) | 35 | 88.9 | 300 |
| Female | 2.3 | 23.6 | 1,331 | (73.6) | (47.6) | 30 | 89.0 | 315 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 1.9 | 21.8 | 1,313 | * | * | 25 | 88.0 | 287 |
| Rural | 2.8 | 23.1 | 1,417 | (70.1) | (40.9) | 40 | 89.8 | 328 |
| Mother's schooling |  |  |  |  |  |  |  |  |
| 5-7 years complete | 6.9 | 27.1 | 34 | * | * | 2 | * | 9 |
| $8-9$ years complete | 1.4 | 20.2 | 247 | * | * | 3 | (89.8) | 50 |
| 10-11 years complete | 2.2 | 20.2 | 535 | * | * | 12 | 89.0 | 108 |
| 12 or more years complete | 2.5 | 23.4 | 1,906 | (71.1) | (48.2) | 48 | 89.0 | 447 |
| Religion |  |  |  |  |  |  |  |  |
| Hindu | 2.7 | 23.7 | 1,239 | (78.0) | (57.0) | 33 | 89.0 | 294 |
| Muslim | 1.7 | 20.3 | 1,102 | * | * | 19 | 89.2 | 223 |
| Christian | 3.5 | 24.9 | 389 | * | * | 14 | 88.0 | 97 |
| Caste/tribe |  |  |  |  |  |  |  |  |
| Scheduled caste | 1.6 | 25.1 | 284 | * | * | 5 | 93.9 | 71 |
| Scheduled tribe | 1.8 | 31.5 | 43 | * | * | 1 | * | 13 |
| Other backward class | 2.1 | 20.5 | 1,657 | (77.5) | (51.9) | 35 | 90.1 | 340 |
| Other | 3.4 | 25.7 | 735 | * | * | 25 | 85.1 | 189 |
| Total | 2.4 | 22.5 | 2,730 | 69.6 | 44.7 | 65 | 89.0 | 614 |

Note: Total includes children of mothers with no schooling or less than 5 years of schooling, children belonging to other religions, and children whose caste/tribe is not known, who are not shown separately.
${ }^{1}$ Symptoms of ARI are cough accompanied by short, rapid breathing which is chest related and/or difficult breathing which is chest related
${ }^{2}$ Includes advice or treatment from the public health sector, the private health sector, or shop. Excludes advice or treatment from a traditional healer or friend/relative
Table 62 Prevalence and treatment of diarrhoea

 treatment, by background characteristics, Kerala, 2019-21

| Background characteristic | Percentage of children with diarrhoea |  | Percentage of children with diarrhoea for whom advice or treatment was sought from a health facility or provider ${ }^{1}$ | Percentage of children who were given: |  |  |  |  | Percentage who were given other treatments |  |  |  |  |  |  |  |  |  Number <br> of <br> children <br> No $\quad$ with  <br> treatment diarrhoea |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | A fluid made from an ORS packet | Gruel | Either ORS or gruel | Increased fluids | ORT <br> (ORS, gruel, or increased fluids) | Zinc | ORS <br> and <br> zinc | ORS or increased fluids | Continued feeding and ORT ${ }^{2}$ | Antibiotic drug | Antimotility drug | Other drug ${ }^{3}$ |  | Home remedy/ herbal/ other |  |  |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <6 | 5.0 | 236 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 12 |
| 6-11 | 8.7 | 288 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 25 |
| 12-23 | 5.3 | 479 | (83.6) | (75.9) | (73.2) | (89.8) | (27.3) | (89.8) | (21.4) | (21.4) | (75.9) | (55.5) | (1.9) | (0.0) | (0.0) | (0.0) | (9.9) | (3.0) | 25 |
| 24-35 | 3.5 | 561 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 20 |
| 36-47 | 2.3 | 564 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 13 |
| 48-59 | 3.6 | 602 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 22 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 4.4 | 1,399 | 88.5 | 59.0 | 45.9 | 72.1 | 21.3 | 74.6 | 28.6 | 24.5 | 62.9 | 41.9 | 14.5 | 0.0 | 7.3 | 0.0 | 3.1 | 12.7 | 62 |
| Female | 4.1 | 1,331 | (85.1) | (63.5) | (63.1) | (76.0) | (8.0) | (76.0) | (15.3) | (15.3) | (66.3) | (48.4) | (15.6) | (0.0) | (6.4) | (0.0) | (12.7) | (12.6) | 55 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 4.2 | 1,313 | (90.0) | (65.9) | (53.3) | (75.9) | (12.7) | (75.9) | (35.4) | (30.9) | (67.4) | (49.5) | (15.8) | (0.0) | (5.9) | (0.0) | (1.3) | (14.8) | 55 |
| Rural | 4.3 | 1,417 | 84.1 | 56.8 | 54.5 | 72.2 | 17.2 | 74.7 | 10.6 | 10.6 | 61.9 | 41.0 | 14.3 | 0.0 | 7.7 | 0.0 | 13.3 | 10.8 | 61 |
| Mother's schooling |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5-7 years complete | 0.0 | 34 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| $8-9$ years complete | 4.3 | 247 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 11 |
| 10-11 years complete | 2.6 | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 14 |
| 12 or more years complete | 4.8 | 1,906 | 87.9 | 60.3 | 55.7 | 73.3 | 13.7 | 75.0 | 24.3 | 22.7 | 63.6 | 40.9 | 14.7 | 0.0 | 6.4 | 0.0 | 6.1 | 11.3 | 92 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 4.1 | 1,239 | (86.8) | (70.2) | (63.6) | (83.1) | (12.6) | (83.1) | (21.4) | (18.5) | (70.2) | (51.3) | (14.0) | (0.0) | (4.8) | (0.0) | (3.8) | (5.1) | 51 |
| Muslim | 4.5 | 1,102 | (90.3) | (65.1) | (45.8) | (72.8) | (19.2) | (75.9) | (28.0) | (25.8) | (71.3) | (41.3) | (19.9) | (0.0) | (7.4) | (0.0) | (11.2) | (12.8) | 50 |
| Christian | 4.1 | 389 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 16 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Con | tinued... |

Table 62 Prevalence and treatment of diarrhoea-Continued

 treatment, by background characteristics, Kerala, 2019-21

| Background characteristic | Percentage of children with diarrhoea | Number of children | Percentage of children with diarrhoea for whom advice or treatment was sought from a health facility or provider ${ }^{1}$ | Percentage of children who were given: |  |  |  |  | Percentage who were given other treatments |  |  |  |  |  |  |  |  |  Number <br> of <br> children <br> No with Niarrhoea <br> treatment  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | A fluid made from an ORS packet | Gruel | Either ORS or gruel | Increased fluids | ORT <br> (ORS, gruel, or increased fluids) | Zinc | ORS and zinc | ORS or increased fluids | Continued feeding and ORT ${ }^{2}$ | Antibiotic drug | Antimotility drug | Other drug ${ }^{3}$ | Intravenous solution | Home remedy/ herbal/ other |  |  |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 5.6 | 284 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 16 |
| Scheduled tribe | 1.8 | 43 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 |
| Other backward class | 4.1 | 1,657 | 87.3 | 63.2 | 56.0 | 75.8 | 17.2 | 78.1 | 19.0 | 17.4 | 67.8 | 46.3 | 17.3 | 0.0 | 8.5 | 0.0 | 9.8 | 10.5 | 68 |
| Other ${ }^{4}$ | 4.3 | 735 | (84.0) | (54.3) | (49.3) | (68.9) | (18.5) | (68.9) | (22.9) | (18.3) | (56.9) | (40.3) | (9.8) | (0.0) | (6.0) | (0.0) | (7.1) | (20.6) | 32 |
| Source of drinking water ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Improved | 4.2 | 2,615 | 86.7 | 62.8 | 53.0 | 73.6 | 15.4 | 75.0 | 22.3 | 20.1 | 66.3 | 43.6 | 15.9 | 0.0 | 6.1 | 0.0 | 7.0 | 13.4 | 110 |
| Unimproved | 5.7 | 111 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 6 |
| Total | 4.3 | 2,730 | 86.9 | 61.1 | 53.9 | 73.9 | 15.1 | 75.3 | 22.4 | 20.2 | 64.5 | 45.0 | 15.0 | 0.0 | 6.9 | 0.0 | 7.6 | 12.7 | 116 |
| Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes children of or less than 5 years of schooling, children belonging to other religions, children whose caste/tribe is not known, and children in households with other source of drinking water, who are not shown sepa <br> ORS = Oral rehydration salts <br> ${ }^{1}$ Includes advice or treatment from the public health sector, the private health sector, or shop. Excludes advice or treatment from a traditional healer or friend/relative <br> ${ }^{2}$ Continued feeding includes children who were given more, same as usual, or somewhat less food during the diarrhoea episode <br> ${ }^{3}$ Includes injection and unknown pill or syrup <br> ${ }^{4}$ Not belonging to scheduled caste, scheduled tribe, or other backward class <br> ${ }^{5}$ See Table 4 for definition of categories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 63 Feeding practices during diarrhoea
Percent distribution of children under age 5 years who had diarrhoea in the 2 weeks preceding the survey by amount of liquids and food given compared with normal practice, according to background characteristics, Kerala, 2019-21

| Background characteristic | Amount of liquids given |  |  |  |  |  | Total | Amount of food given |  |  |  |  |  |  | Total | Number of children with diarrhoea |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | More | Same as usual | Somewhat less | Much less | None | Don't know |  | More | Same as usual | Somewhat less | Much less | None | Never gave food | Don't <br> know |  |  |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 21.3 | 28.5 | 20.3 | 27.4 | 1.2 | 1.2 | 100.0 | 2.1 | 23.8 | 29.6 | 33.6 | 1.4 | 9.6 | 0.0 | 100.0 | 62 |
| Female | (8.0) | (19.4) | (44.4) | (25.4) | (2.8) | (0.0) | 100.0 | (1.9) | (19.0) | (43.4) | (29.8) | (0.0) | (6.0) | (0.0) | 100.0 | 55 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | (12.7) | (17.5) | (38.2) | (30.3) | (1.3) | (0.0) | 100.0 | (0.0) | (17.4) | (49.0) | (29.4) | (1.5) | (2.8) | (0.0) | 100.0 | 55 |
| Rural | 17.2 | 30.3 | 25.7 | 23.0 | 2.5 | 1.2 | 100.0 | 3.8 | 25.3 | 24.5 | 33.9 | 0.0 | 12.5 | 0.0 | 100.0 | 61 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | (12.6) | (24.5) | (26.8) | (33.0) | (3.1) | (0.0) | 100.0 | (4.6) | (23.5) | (32.4) | (36.4) | (0.0) | (3.1) | (0.0) | 100.0 | 51 |
| Muslim | (19.2) | (19.0) | (38.0) | (22.3) | (1.5) | (0.0) | 100.0 | (0.0) | (15.4) | (40.4) | (30.5) | (0.0) | (13.8) | (0.0) | 100.0 | 50 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other backward class | 17.2 | 20.8 | 40.4 | 20.5 | 1.1 | 0.0 | 100.0 | 1.5 | 14.3 | 42.4 | 30.5 | 0.0 | 11.3 | 0.0 | 100.0 | 68 |
| Other ${ }^{1}$ | (18.5) | (23.9) | (16.2) | (34.1) | (4.9) | (2.4) | 100.0 | (4.1) | (23.7) | (29.6) | (35.0) | (2.6) | (4.9) | (0.0) | 100.0 | 32 |
| Total | 15.1 | 24.2 | 31.6 | 26.4 | 2.0 | 0.7 | 100.0 | 2.0 | 21.5 | 36.1 | 31.8 | 0.7 | 7.9 | 0.0 | 100.0 | 116 |
| Note: It is recommended that children should be given more liquids to drink during diarrhoea and food should not be reduced. Figures in parentheses are based on 25-49 unweighted cases. T children and children belonging to scheduled caste or scheduled tribe, who are not shown separately. <br> ${ }^{1}$ Not belonging to scheduled caste, scheduled tribe, or other backward class |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Table 64 Knowledge of ORS packets

Percentage of women age 15-49 who had a live birth in the 5 years preceding the survey who know about ORS packets for treatment of diarrhoea, by background characteristics, Kerala, 2019-21

|  | Percentage of <br> women who know <br> about ORS packets | Number of <br> women |
| :--- | :---: | ---: |
| Background characteristic |  |  |
| Age | 96.4 | 457 |
| $20-24$ | 98.7 | 1,459 |
| $25-34$ | 98.1 | 442 |
| $35-49$ |  |  |
|  | 97.7 | 1,135 |
| Residence | 98.6 | 1,239 |
| Urban |  |  |
| Rural | 96.6 | 239 |
|  | 98.7 | 454 |
| Schooling | 98.2 | 1,675 |
| 5-9 years complete |  |  |
| 10-11 years complete | 97.9 | 1,115 |
| 12 or more years complete | 935 |  |
| Religion | 98.3 | 323 |
| Hindu | 98.8 |  |
| Muslim |  |  |
| Christian | 97.6 | 244 |
| Caste/tribe | 95.9 | 35 |
| Scheduled caste | 98.6 | 1,454 |
| Scheduled tribe | 97.5 | 633 |
| Other backward class | 98.1 | 2,374 |
| Other |  |  |
| Total |  |  |

Note: Total includes women age 15-19, women with no schooling or less than 5 years of schooling, women belonging to other religions, and women who don't know their caste/tribe, who are not shown separately.
ORS = Oral rehydration salts
Table 65 Indicators of utilization of ICDS services
Percentage of children under age 6 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, 2019-21

| Percentage of children under age 6 years who received any service and received specific services from an anganwadi centre (AWC) in the 12 months preceding the survis characteristics, Kerala, 2019-21 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage of children age 0-71 months who received from an AWC |  |  |  | Children age 36-71 months |  |  | Children age 0-59 months |  | Children age 0-59 months who were weighed at an AWC |  |
| Background characteristic | Any services | $\begin{aligned} & \text { Supplementary } \\ & \text { food }^{1} \end{aligned}$ | Any immunizations | Health checkups | Number of children | Percentage who went for early childhood care/preschool | Number of children | Percentage of children who were weighed at an AWC | Number of children | Percentage whose mothers received counselling from an AWC after child was weighed | Number of children |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |
| <12 | 53.8 | 50.7 | 18.6 | 35.1 | 524 | na | na | 36.6 | 524 | 35.8 | 192 |
| 12-23 | 74.7 | 73.2 | 33.9 | 56.4 | 479 | na | na | 64.2 | 479 | 43.3 | 307 |
| 24-35 | 72.1 | 70.8 | 32.9 | 54.6 | 561 | na | na | 63.4 | 561 | 43.3 | 356 |
| 36-47 | 61.9 | 59.6 | 25.3 | 50.9 | 564 | 45.9 | 564 | 54.7 | 564 | 45.8 | 309 |
| 48-59 | 44.3 | 39.7 | 16.4 | 34.4 | 602 | 31.8 | 602 | 38.4 | 602 | 41.7 | 231 |
| 60-71 | 33.1 | 28.1 | 18.6 | 25.3 | 604 | 18.9 | 604 | na | na | na | na |
| 0-35 | 66.8 | 64.8 | 28.4 | 48.6 | 1,564 | na | na | 54.7 | 1,564 | 41.6 | 855 |
| 36-71 | 46.1 | 42.1 | 20.0 | 36.5 | 1,770 | 31.9 | 1,770 | na | na | na | na |
| Sex |  |  |  |  |  |  |  |  |  |  |  |
| Male | 55.3 | 52.3 | 24.0 | 41.3 | 1,706 | 31.2 | 899 | 51.7 | 1,399 | 40.7 | 723 |
| Female | 56.4 | 53.1 | 23.9 | 43.2 | 1,628 | 32.7 | 871 | 50.5 | 1,331 | 44.6 | 672 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 54.0 | 51.7 | 21.6 | 38.5 | 1,588 | 30.1 | 835 | 48.2 | 1,313 | 42.9 | 634 |
| Rural | 57.5 | 53.7 | 26.1 | 45.5 | 1,746 | 33.5 | 935 | 53.7 | 1,417 | 42.3 | 761 |
| Mother's schooling |  |  |  |  |  |  |  |  |  |  |  |
| 5-7 years complete | 54.8 | 53.8 | 20.7 | 45.0 | 44 | (17.1) | 22 | 53.0 | 34 | (72.4) | 18 |
| $8-9$ years complete | 56.2 | 52.5 | 23.1 | 42.5 | 293 | 33.5 | 148 | 50.7 | 247 | 28.7 | 125 |
| 10-11 years complete | 54.7 | 51.8 | 22.5 | 41.6 | 643 | 33.1 | 375 | 48.4 | 535 | 48.1 | 259 |
| 12 or more years complete | 56.0 | 52.9 | 24.4 | 42.2 | 2,345 | 31.6 | 1,222 | 51.8 | 1,906 | 42.4 | 986 |
|  |  |  |  |  |  |  |  |  |  |  | ontinued... |

Continued...
Table 65 Indicators of utilization of ICDS services-Continued
Percentage of children under age 6 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, 2019-21

| Background characteristic | Percentage of children age 0-71 months who received from an AWC |  |  |  | Number of children | Children age 36-71 months |  | Children age 0-59 months |  | Children age 0-59 months who were weighed at an AWC |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Any services | Supplementary food ${ }^{1}$ | Any immunizations | Health checkups |  | Percentage who went for early childhood care/preschool | Number of children | Percentage of children who were weighed at an AWC | Number of children | Percentage whose mothers received counselling from an AWC after child was weighed | Number of children |
| Religion |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 59.7 | 56.2 | 25.4 | 45.0 | 1,514 | 35.0 | 808 | 54.1 | 1,239 | 43.8 | 669 |
| Muslim | 51.0 | 48.8 | 23.0 | 39.4 | 1,340 | 27.1 | 706 | 47.8 | 1,102 | 41.9 | 527 |
| Christian | 57.0 | 52.5 | 21.9 | 41.5 | 480 | 35.4 | 255 | 50.9 | 389 | 40.0 | 198 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 63.9 | 60.0 | 26.0 | 46.9 | 342 | 38.0 | 182 | 58.0 | 284 | 42.5 | 165 |
| Scheduled tribe | 76.2 | 69.5 | 36.5 | 63.6 | 50 | (55.3) | 19 | 71.0 | 43 | 59.5 | 30 |
| Other backward class | 55.3 | 52.2 | 23.6 | 41.5 | 2,019 | 30.8 | 1,080 | 51.8 | 1,657 | 42.5 | 859 |
| Other | 53.1 | 50.5 | 23.5 | 41.3 | 911 | 31.2 | 481 | 46.2 | 735 | 41.4 | 340 |
| Total | 55.8 | 52.7 | 24.0 | 42.2 | 3,334 | 31.9 | 1,770 | 51.1 | 2,730 | 42.6 | 1,395 | Note: Total includes children of mothers with no schooling or less than 5 years of schooling, children belonging to other religions, and children whose caste/tribe is not known, who are not shown separately. ICDS = Integrated Child Development Services

${ }^{1}$ Supplementary food includes both food cooked and served at the AWC on a daily basis or given in the form of take home rations
Table 66 Utilization of ICDS services during pregnancy and while breastfeeding
Among children under age 6 years, percentage whose mothers received specific benefits from an anganwadi centre (AWC) during pregnancy and while breastfeeding, according to background characteristics, Kerala, 2019-21

| Background characteristic | Mother received from an AWC during pregnancy |  |  |  |  | Mother received from an AWC while breastfeeding ${ }^{2}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Any benefits | Supplementary food ${ }^{1}$ | Health check-ups | Health and nutrition education | Number of children | Any services | Supplementary food ${ }^{1}$ | Health check-ups | Health and nutrition education | Number of children breastfed |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 58.8 | 58.6 | 45.8 | 39.3 | 1,588 | 52.1 | 51.7 | 38.4 | 33.4 | 1,588 |
| Rural | 66.9 | 66.1 | 52.1 | 49.2 | 1,746 | 57.4 | 57.1 | 43.0 | 41.4 | 1,744 |
| Mother's schooling |  |  |  |  |  |  |  |  |  |  |
| 5-7 years complete | 66.8 | 65.7 | 42.2 | 40.6 | 44 | 69.0 | 69.0 | 44.2 | 40.5 | 42 |
| 8-9 years complete | 58.3 | 57.9 | 43.8 | 40.7 | 293 | 54.9 | 54.6 | 36.7 | 35.6 | 293 |
| 10-11 years complete | 64.2 | 63.8 | 50.9 | 44.5 | 643 | 56.3 | 56.2 | 43.7 | 40.3 | 643 |
| 12 or more years complete | 63.2 | 62.6 | 49.3 | 44.9 | 2,345 | 54.1 | 53.7 | 40.3 | 36.9 | 2,344 |
| Religion |  |  |  |  |  |  |  |  |  |  |
| Hindu | 65.1 | 64.3 | 50.4 | 45.8 | 1,514 | 55.6 | 55.3 | 41.4 | 37.6 | 1,511 |
| Muslim | 61.6 | 61.3 | 48.8 | 44.2 | 1,340 | 55.2 | 54.8 | 42.6 | 39.0 | 1,340 |
| Christian | 60.8 | 60.3 | 45.9 | 41.0 | 480 | 51.6 | 51.2 | 33.8 | 33.7 | 480 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 71.5 | 70.7 | 57.5 | 53.1 | 342 | 55.5 | 55.5 | 44.3 | 39.8 | 342 |
| Scheduled tribe | 86.3 | 84.4 | 65.9 | 58.8 | 50 | 83.7 | 83.7 | 61.1 | 56.0 | 49 |
| Other backward class | 64.1 | 63.7 | 49.8 | 44.3 | 2,019 | 55.5 | 55.0 | 40.9 | 37.2 | 2,018 |
| Other | 56.7 | 56.1 | 43.8 | 41.2 | 911 | 51.8 | 51.7 | 38.4 | 36.8 | 911 |
| Total | 63.0 | 62.5 | 49.1 | 44.5 | 3,334 | 54.9 | 54.5 | 40.8 | 37.6 | 3,331 |

Note: Total includes children of mothers with no schooling or less than 5 years of schooling, children belonging to other religions, and children whose caste/tribe is not known, who are not shown separately.
${ }^{1}$ Supplementary food includes both food cooked and served at the AWC on a daily basis or given in the form of take home rations ${ }^{2}$ Excludes children who were not breastfed. Services are usually provided to breastfeeding mothers during the first 6 months of breastfeeding
Table 67 Nutritional status of children
Percentage of children under age 5 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, 2019-21, and total for NFHS-4

| Background characteristic | Height-for-age ${ }^{1}$ |  |  |  | Weight-for-height |  |  |  |  | Weight-for-age |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage below -3 SD | Percentage below -2 SD $^{2}$ | Mean Z-score (SD) | Number of children | Percentage below -3 SD | Percentage below -2 SD $^{2}$ | Percentage above +2 SD | Mean <br> Z-score <br> (SD) |  | Percentage below -3 SD | Percentage below -2 SD $^{2}$ | Percentage above +2 SD | Mean <br> Z-score <br> (SD) | Number of children |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <6 | 8.6 | 22.9 | -0.5 | 203 | 13.1 | 26.4 | 6.3 | -0.8 | 193 | 11.5 | 28.7 | 0.0 | -1.3 | 219 |
| 6-8 | 6.1 | 17.4 | -0.3 | 121 | 5.6 | 19.1 | 2.7 | -0.8 | 122 | 3.4 | 14.6 | 0.4 | -0.9 | 127 |
| 9-11 | 11.8 | 22.8 | -0.9 | 131 | 4.5 | 14.4 | 6.7 | -0.3 | 133 | 5.3 | 13.4 | 0.9 | -0.9 | 140 |
| 12-17 | 8.9 | 23.5 | -0.8 | 246 | 5.0 | 18.3 | 4.1 | -0.8 | 244 | 3.3 | 22.0 | 1.5 | -1.0 | 253 |
| 18-23 | 11.2 | 33.1 | -1.2 | 198 | 6.5 | 13.0 | 6.0 | -0.6 | 198 | 3.0 | 21.5 | 2.1 | -1.0 | 205 |
| 24-35 | 6.2 | 23.3 | -1.0 | 528 | 6.5 | 17.2 | 2.8 | -0.7 | 521 | 4.2 | 18.5 | 0.8 | -1.1 | 535 |
| 36-47 | 5.2 | 24.3 | -1.0 | 537 | 4.9 | 14.3 | 2.5 | -0.7 | 521 | 3.8 | 18.4 | 2.3 | -1.0 | 541 |
| 48-59 | 6.2 | 20.9 | -1.1 | 562 | 3.8 | 11.5 | 4.6 | -0.6 | 542 | 4.4 | 19.5 | 0.9 | -1.1 | 561 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 8.3 | 25.6 | -1.0 | 1,310 | 6.2 | 16.3 | 4.6 | -0.7 | 1,283 | 3.9 | 20.7 | 1.4 | -1.1 | 1,333 |
| Female | 5.9 | 21.0 | -0.9 | 1,216 | 5.3 | 15.2 | 3.4 | -0.7 | 1,191 | 5.4 | 18.6 | 1.1 | -1.1 | 1,248 |
| Birth interval in months ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| First birth ${ }^{4}$ | 5.6 | 19.5 | -0.8 | 1,103 | 4.7 | 15.7 | 5.1 | -0.6 | 1,089 | 4.2 | 16.5 | 1.0 | -1.0 | 1,126 |
| <24 | 8.5 | 31.4 | -1.3 | 156 | 5.0 | 14.6 | 1.6 | -0.7 | 156 | 6.4 | 21.1 | 0.9 | -1.2 | 159 |
| 24-35 | 6.9 | 28.6 | -1.1 | 190 | 5.7 | 16.8 | 1.1 | -0.7 | 182 | 6.0 | 24.2 | 1.1 | -1.2 | 195 |
| 36 or more | 8.6 | 25.4 | -1.0 | 1,073 | 7.0 | 15.8 | 3.7 | -0.7 | 1,044 | 4.6 | 21.9 | 1.5 | -1.1 | 1,097 |
| Birth order ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 5.5 | 19.4 | -0.8 | 1,081 | 4.8 | 15.5 | 5.2 | -0.6 | 1,067 | 4.1 | 16.4 | 1.0 | -1.0 | 1,103 |
| 2-3 | 8.1 | 26.4 | -1.1 | 1,348 | 6.4 | 15.3 | 3.2 | -0.7 | 1,314 | 4.7 | 21.7 | 1.5 | -1.1 | 1,380 |
| 4-5 | 12.0 | 26.2 | -0.9 | 91 | 8.5 | 26.1 | 1.1 | -1.0 | 86 | 9.5 | 27.8 | 0.0 | -1.4 | 91 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 6.4 | 20.1 | -0.9 | 1,193 | 7.0 | 16.0 | 3.8 | -0.7 | 1,170 | 4.7 | 19.4 | 1.3 | -1.1 | 1,219 |
| Rural | 7.8 | 26.4 | -1.0 | 1,332 | 4.6 | 15.5 | 4.2 | -0.6 | 1,304 | 4.6 | 19.9 | 1.2 | -1.1 | 1,362 |

Table 67 Nutritional status of children-Continued
 background characteristics, Kerala, 2019-21, and total for NFHS-4

| Background characteristic | Height-for-age ${ }^{1}$ |  |  |  | Weight-for-height |  |  |  |  | Weight-for-age |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -3 \text { SD } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -2 S D^{2} \\ \hline \end{gathered}$ | Mean Z-score (SD) | Numbe r of children | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -3 S D \\ \hline \end{gathered}$ | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -2{S D^{2}}^{2} \end{gathered}$ | ```\begin{array} { c } { \text { Percentage } } \\ { \text { above } } \\ { + 2 ~ S D } \end{array}``` | Mean Z-score (SD) | Number of children | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -3 \text { SD } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -2{S D^{2}}^{2} \end{gathered}$ | $\begin{gathered} \text { Percentage } \\ \text { above } \\ +2 \text { SD } \\ \hline \end{gathered}$ | Mean Z-score (SD) | Number of children |
| Size at birth ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small | 5.2 | 31.3 | -1.2 | 155 | 7.2 | 19.6 | 1.9 | -1.0 | 155 | 11.6 | 33.9 | 0.7 | -1.5 | 158 |
| Average or larger | 7.3 | 22.9 | -0.9 | 2,353 | 5.7 | 15.5 | 4.2 | -0.6 | 2,301 | 4.1 | 18.7 | 1.3 | -1.1 | 2,404 |
| Mother's schooling ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5-7 years complete | 7.0 | 24.7 | -1.2 | 39 | 5.6 | 17.3 | 0.9 | -0.8 | 39 | 6.3 | 26.3 | 0.0 | -1.3 | 40 |
| 8-9 years complete | 10.7 | 29.0 | -1.3 | 221 | 3.0 | 15.6 | 1.1 | -0.8 | 216 | 7.0 | 23.6 | 1.4 | -1.3 | 226 |
| 10-11 years complete | 7.0 | 24.3 | -0.9 | 495 | 7.3 | 17.6 | 2.0 | -0.8 | 479 | 5.3 | 21.1 | 0.9 | -1.2 | 504 |
| 12 or more years complete | 6.7 | 22.4 | -0.9 | 1,765 | 5.7 | 15.3 | 5.0 | -0.6 | 1,734 | 4.1 | 18.6 | 1.3 | -1.0 | 1,804 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 7.0 | 24.4 | -1.0 | 1,149 | 5.8 | 16.5 | 3.9 | -0.7 | 1,131 | 4.7 | 20.4 | 1.2 | -1.1 | 1,171 |
| Muslim | 7.8 | 23.6 | -0.9 | 1,003 | 5.6 | 14.8 | 3.8 | -0.7 | 976 | 4.9 | 18.5 | 1.1 | -1.1 | 1,028 |
| Christian | 5.9 | 19.8 | -0.8 | 361 | 6.4 | 16.3 | 4.9 | -0.6 | 354 | 3.9 | 20.8 | 1.6 | -1.0 | 369 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 8.8 | 30.4 | -1.1 | 260 | 8.0 | 19.2 | 1.2 | -0.9 | 258 | 6.0 | 24.9 | 0.7 | -1.3 | 267 |
| Scheduled tribe | 20.0 | 36.9 | -1.6 | 42 | 1.6 | 10.3 | 3.9 | -0.4 | 42 | 3.6 | 19.4 | 0.8 | -1.1 | 45 |
| Other backward class | 6.6 | 22.4 | -0.9 | 1,527 | 5.6 | 16.2 | 4.3 | -0.7 | 1,488 | 4.7 | 18.6 | 1.1 | -1.1 | 1,554 |
| Other | 7.1 | 22.2 | -0.8 | 678 | 5.7 | 14.2 | 4.6 | -0.6 | 668 | 4.0 | 19.9 | 1.8 | -1.0 | 696 |
| Mother's nutritional status ${ }^{6}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Underweight (BMI <18.5) | 9.4 | 27.5 | -1.0 | 191 | 4.5 | 16.2 | 2.3 | -0.8 | 187 | 6.4 | 22.1 | 1.5 | -1.2 | 200 |
| Normal (BMI 18.5-24.9) | 7.0 | 23.2 | -1.0 | 1,344 | 5.8 | 15.6 | 3.5 | -0.7 | 1,311 | 4.7 | 20.1 | 0.9 | -1.1 | 1,371 |
| Overweight ( $\mathrm{BMI} \geq 25.0$ ) | 6.9 | 22.8 | -0.9 | 971 | 5.9 | 15.8 | 5.1 | -0.6 | 958 | 3.9 | 18.3 | 1.7 | -1.0 | 989 |

Continued... background characteristics, Kerala, 2019-21, and total for NFHS-4

## Table 67 Nutritional status of children-Continued

 background characteristics, Kerala, 2019-21, and total for NFHS-4

|  | Height-for-age ${ }^{1}$ |  |  |  | Weight-for-height |  |  |  |  | Weight-for-age |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -3 \text { SD } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -2 S D^{2} \end{gathered}$ | Mean Z-score (SD) | Numbe rof children | Percentage below -3 SD | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -2 S D^{2} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Percentage } \\ \text { above } \\ +2 \text { SD } \\ \hline \end{gathered}$ | Mean Z-score (SD) | Number of children | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -3 S D \\ \hline \end{gathered}$ | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -2 \text { SD }^{2} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Percentage } \\ \text { above } \\ +2 \text { SD } \\ \hline \end{gathered}$ | Mean Z-score (SD) | Number of children |
| Child's living arrangements |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Living with both parents | 8.1 | 24.8 | -1.0 | 1,752 | 5.9 | 16.0 | 4.2 | -0.7 | 1,715 | 5.1 | 20.6 | 1.1 | -1.1 | 1,797 |
| Living with one or neither parent | 5.0 | 20.2 | -0.8 | 772 | 5.5 | 15.3 | 3.5 | -0.7 | 756 | 3.5 | 17.5 | 1.5 | -1.0 | 782 |
| Total | 7.1 | 23.4 | -0.9 | 2,526 | 5.8 | 15.8 | 4.0 | -0.7 | 2,474 | 4.6 | 19.7 | 1.2 | -1.1 | 2,581 |
| NFHS-4 (2015-16) | 6.8 | 19.7 | -0.7 | 2,297 | 6.5 | 15.7 | 3.4 | -0.7 | 2,297 | 3.6 | 16.1 | 1.3 | -0.9 | 2,297 |



 and children whose mother's nutritional status is missing, who are not shown separately.
${ }^{1}$ Recumbent length is measured for children under age 2 ; standing height is measured for all other children
${ }^{1}$ Recumbent length is measured for children under age 2; standing height is measured for all other children
${ }^{2}$ Includes children who are below -3 standard deviations (SD) from the WHO Child Growth Standards population median
${ }^{3}$ Excludes children whose mothers were not interviewed
${ }^{4}$ First-born twins (triplets, etc.) are counted as first births because they do not have a previous birth interval
 nutritional status in terms of BMI (Body Mass Index) is presented in Table 78.

## Table 68 Initial breastfeeding

Among last-born children who were born in the 2 years preceding the survey, percentage who were ever breastfed, and percentages who started breastfeeding within 1 hour and 1 day of birth, and among last-born children born in the 2 years preceding the survey who were ever breastfed, percentage who received a prelacteal feed in the first 3 days after birth, by background characteristics, Kerala, 2019-21

| Background characteristic | Among last-born children born in the past 2 years: |  |  |  | Among last-born children born in the past 2 years who were ever breastfed: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage ever breastfed | Percentage who started breastfeeding within 1 hour of birth | Percentage who started breastfeeding within 1 day of birth ${ }^{1}$ | Number of last-born children | Percentage who received a prelacteal feed ${ }^{2}$ | Number of last-born ever breastfed children |
| Residence |  |  |  |  |  |  |
| Urban | 98.2 | 67.1 | 94.4 | 471 | 9.5 | 463 |
| Rural | 98.9 | 71.9 | 95.9 | 511 | 7.0 | 506 |
| Sex |  |  |  |  |  |  |
| Male | 99.0 | 69.8 | 95.0 | 512 | 9.9 | 507 |
| Female | 98.2 | 69.3 | 95.4 | 470 | 6.4 | 462 |
| Mother's schooling |  |  |  |  |  |  |
| 8-9 years complete | 99.7 | 67.0 | 96.8 | 97 | 6.5 | 96 |
| 10-11 years complete | 98.8 | 71.2 | 95.7 | 166 | 8.1 | 164 |
| 12 or more years complete | 98.4 | 69.4 | 94.8 | 706 | 8.6 | 694 |
| Religion |  |  |  |  |  |  |
| Hindu | 98.3 | 67.6 | 95.5 | 453 | 10.5 | 445 |
| Muslim | 99.4 | 72.2 | 96.5 | 383 | 6.2 | 381 |
| Christian | 97.5 | 68.7 | 90.6 | 147 | 6.3 | 143 |
| Caste/tribe |  |  |  |  |  |  |
| Scheduled caste | 98.6 | 69.1 | 96.7 | 102 | 11.4 | 100 |
| Scheduled tribe | (100.0) | (74.7) | (97.7) | 22 | (5.3) | 22 |
| Other backward class | 98.4 | 70.5 | 95.7 | 575 | 7.0 | 566 |
| Other | 98.9 | 67.6 | 93.1 | 280 | 9.8 | 277 |
| Total | 98.6 | 69.6 | 95.2 | 982 | 8.2 | 968 |

Note: Table is based on last-born children born in the 2 years preceding the survey regardless of whether the children are living or dead at the time of the interview. Figures in parentheses are based on 25-49 unweighted cases. Total includes children of mothers with less than 5 years of schooling or 5-7 years of schooling, and children whose caste/tribe is not known, who are not shown separately.
TBA = Traditional birth attendant
${ }^{1}$ Includes children who started breastfeeding within 1 hour of birth
${ }^{2}$ Children given something other than breast milk during the first 3 days of life
${ }^{3}$ Doctor, nurse, midwife, auxiliary nurse midwife, lady health visitor, or other health personnel
Table 69 Breastfeeding status by age
Percent distribution of youngest children under age 2 years living with the mother by breastfeeding status and percentage currently breastfeeding, and percentage of all children under age 2 years using a bottle with a nipple, according to age in months, Kerala, 2019-21

| Age in months | Not breastfeeding | Exclusively breastfed | Breastfeeding and consuming: |  |  |  |  | Percentage currently breastfeeding | Number of youngest children under age 2 years living with the mother | Percentage using a bottle with a nipple | Number of all children under age 2 years |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Plain water only | Non-milk liquids ${ }^{1}$ | Other milk | Complementary foods | Total |  |  |  |  |
| <2 | 0.0 | 71.7 | 3.8 | 2.2 | 10.1 | 12.3 | 100.0 | 100.0 | 54 | 2.4 | 57 |
| 2-3 | 0.7 | 64.6 | 15.6 | 1.6 | 9.3 | 8.3 | 100.0 | 99.3 | 88 | 9.3 | 88 |
| 4-5 | 0.0 | 37.0 | 17.7 | 8.2 | 8.8 | 28.3 | 100.0 | 100.0 | 91 | 24.9 | 91 |
| 6-8 | 3.1 | 4.8 | 13.6 | 3.1 | 4.1 | 71.3 | 100.0 | 96.9 | 129 | 32.8 | 133 |
| 9-11 | 5.5 | 4.2 | 3.3 | 3.4 | 1.0 | 82.6 | 100.0 | 94.5 | 153 | 36.8 | 155 |
| 12-17 | 7.1 | 1.0 | 1.3 | 1.1 | 1.3 | 88.2 | 100.0 | 92.9 | 257 | 30.1 | 263 |
| 18-23 | 14.8 | 1.4 | 0.8 | 0.0 | 1.7 | 81.4 | 100.0 | 85.2 | 208 | 32.1 | 216 |
| 0-3 | 0.4 | 67.3 | 11.1 | 1.8 | 9.6 | 9.8 | 100.0 | 99.6 | 142 | 6.6 | 146 |
| 0-5 | 0.2 | 55.5 | 13.7 | 4.3 | 9.3 | 17.1 | 100.0 | 99.8 | 232 | 13.6 | 236 |
| 6-9 | 4.9 | 4.2 | 11.5 | 3.5 | 3.9 | 71.9 | 100.0 | 95.1 | 175 | 33.7 | 179 |
| 12-15 | 6.5 | 1.4 | 1.7 | 0.8 | 0.7 | 88.8 | 100.0 | 93.5 | 186 | 30.9 | 191 |
| 12-23 | 10.5 | 1.2 | 1.1 | 0.6 | 1.5 | 85.2 | 100.0 | 89.5 | 464 | 31.0 | 479 |
| 20-23 | 14.9 | 0.8 | 0.6 | 0.0 | 0.9 | 82.8 | 100.0 | 85.1 | 145 | 36.4 | 153 |

Note: Breastfeeding status refers to a " 24 -hour" period (yesterday during the day or at night). Children who are classified as breastfeeding and consuming plain water only consumed no liquid or solid supplements. The categories of not breastfeeding, exclusively breastfed, breastfeeding and consuming plain water, non-milk liquids, other milk, and complementary foods (solids and semi-solids) are hierarchical and mutually exclusive, and their percentages add to 100 percent. Thus, children who receive breast milk and non-milk liquids and who do not receive other milk and who do not receive complementary foods are classified in the non-milk liquid category even though they may also get plain water. Any children who get complementary food are classified in that category as long as they are breastfeeding as well.

[^13]Table 70 Median duration of breastfeeding and infant and young child feeding (IYCF) practices
Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among last-born children born in the 3 years preceding the survey, by background characteristics, Kerala, 2019-21

| Background characteristic | Median duration (months) of breastfeeding among last-born children born in the past 3 years ${ }^{1}$ |  |  | Number of children |
| :---: | :---: | :---: | :---: | :---: |
|  | Any breastfeeding | Exclusive breastfeeding | Predominant breastfeeding ${ }^{2}$ |  |
| Sex |  |  |  |  |
| Male | 27.6 | 3.6 | 5.8 | 764 |
| Female | 27.5 | 3.4 | 5.1 | 722 |
| Residence |  |  |  |  |
| Urban | 26.6 | 3.0 | 4.9 | 715 |
| Rural | 28.6 | 4.0 | 5.8 | 770 |
| Mother's schooling |  |  |  |  |
| 10-11 years complete | 27.3 | * | 5.8 | 261 |
| 12 or more years complete | 27.3 | 3.9 | 5.5 | 1,067 |
| Religion |  |  |  |  |
| Hindu | 34.0 | 3.3 | 5.7 | 677 |
| Muslim | 25.7 | 3.8 | 5.5 | 600 |
| Christian | (31.2) | (3.3) | (4.7) | 209 |
| Caste/tribe |  |  |  |  |
| Other backward class | 27.1 | 3.5 | 5.2 | 904 |
| Other ${ }^{3}$ | 27.4 | 3.4 | 5.9 | 404 |
| Total | 27.6 | 3.5 | 5.4 | 1,486 |

Note: Median and mean durations are based on breastfeeding status of the child at the time of the survey (current status). Includes living and deceased children. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes children of mothers with no schooling or less than 10 years of schooling, and children belonging to scheduled caste or scheduled tribe, children whose caste/tribe is not known or who have no caste/tribe or whose caste/tribe is missing, who are not shown separately.
${ }^{1}$ For last-born children under age 24 months who live with the mother and are breastfeeding, information to determine exclusive and predominant breastfeeding comes from a 24 -hour dietary recall. Tabulations assume that last-born children age 24 months or older who live with the mother and are breastfeeding are neither exclusively nor predominantly breastfed. It is assumed that last-born children not currently living with the mother and all non-last-born children are not currently breastfeeding.
${ }^{2}$ Either exclusively breastfed or received breast milk and plain water, and/or non-milk liquids only
${ }^{3}$ Not belonging to scheduled caste, scheduled tribe, or other backward class
Table 71 Minimum acceptable diet
Percentage of youngest children age 6-23 months living with their mother who are fed a minimum acceptable diet based on breastfeeding status, number of food groups, and times they are fed during the day or night preceding the survey, according to background characteristics, Kerala, 2019-21

| Background characteristic | 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: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{2}$ | Minimum acceptable diet ${ }^{3}$ | Number of breastfed children | Minimum milk feeding frequency ${ }^{4}$ | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{5}$ | Minimum acceptable $\operatorname{diet}^{6}$ | Number of nonbreastfed children | Breast milk, milk, or milk products ${ }^{7}$ | Minimum dietary diversity ${ }^{1}$ | $\begin{gathered} \text { Minimum } \\ \text { meal } \\ \text { frequency }^{8} \\ \hline \end{gathered}$ | Minimum acceptable diet ${ }^{9}$ | Number of all children |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6-11 | 36.9 | 47.0 | 14.7 | 270 | * | * | * | * | 12 | 98.1 | 25.9 | 47.4 | 14.3 | 282 |
| 6-8 | 23.7 | 49.7 | 7.3 | 125 | * | * | * | * | 4 | 97.8 | 11.8 | 49.0 | 7.1 | 129 |
| 9-11 | 48.3 | 44.7 | 21.1 | 144 | * | * | * | * | 8 | 98.4 | 37.9 | 46.1 | 20.4 | 153 |
| 12-17 | 71.3 | 41.9 | 23.1 | 238 | * | * | * | * | 18 | 97.8 | 53.1 | 44.7 | 23.0 | 257 |
| 18-23 | 78.7 | 54.7 | 37.3 | 177 | (70.4) | (50.4) | (59.6) | (28.9) | 31 | 95.6 | 65.7 | 55.4 | 36.0 | 208 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 59.4 | 50.1 | 24.8 | 353 | (71.1) | (38.6) | (74.0) | (27.4) | 37 | 97.2 | 44.9 | 52.4 | 25.0 | 390 |
| Female | 60.0 | 44.2 | 22.0 | 333 | (60.5) | (30.3) | (51.9) | (13.9) | 24 | 97.4 | 47.9 | 44.7 | 21.5 | 356 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 61.8 | 50.1 | 21.9 | 337 | (63.1) | (31.8) | (60.4) | (14.3) | 30 | 96.9 | 44.6 | 51.0 | 21.2 | 368 |
| Rural | 57.6 | 44.4 | 25.0 | 348 | (70.8) | (38.9) | (70.4) | (30.0) | 31 | 97.6 | 48.0 | 46.5 | 25.4 | 379 |
| Mother's schooling |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $8-9$ years complete | 55.1 | 50.4 | 26.8 | 66 | * | * | * | * | 8 | 95.9 | 45.9 | 49.7 | 24.5 | 74 |
| 10-11 years complete | 64.0 | 48.2 | 22.5 | 122 | * | * | * | * | 6 | 99.6 | 50.1 | 50.1 | 21.5 | 128 |
| 12 or more years complete | 59.3 | 46.6 | 22.9 | 487 | (64.2) | (43.6) | (65.4) | (26.2) | 46 | 96.9 | 45.3 | 48.2 | 23.2 | 533 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 61.5 | 46.9 | 21.4 | 323 | (69.2) | (42.6) | (69.4) | (30.1) | 28 | 97.6 | 46.7 | 48.7 | 22.1 | 351 |
| Muslim | 58.7 | 44.6 | 25.2 | 268 | * | * | * | * | 18 | 98.0 | 45.6 | 45.7 | 23.9 | 286 |
| Christian | 56.3 | 55.7 | 25.6 | 94 | * | * | * | * | 16 | 94.6 | 47.0 | 56.4 | 26.0 | 110 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | Continued... |

Table 71 Minimum acceptable diet-Continued
 or night preceding the survey, according to background characteristics, Kerala, 2019-21

| Background characteristic | 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: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{2}$ | Minimum acceptable diet $^{3}$ | Number of breastfed children | Minimum milk feeding frequency ${ }^{4}$ | Minimum dietary diversity ${ }^{1}$ | $\begin{aligned} & \text { Minimum } \\ & \text { meal } \\ & \text { frequency }^{5} \\ & \hline \end{aligned}$ | Minimum acceptable diet $^{6}$ | Number of nonbreastfed children | Breast milk, milk, or milk products ${ }^{7}$ | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{8}$ | Minimum acceptable $\operatorname{diet}^{9}$ | Number of all children |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 60.5 | 47.9 | 17.3 | 85 | * | * | * | * | 2 | 97.7 | 45.6 | 46.8 | 16.9 | 87 |
| Scheduled tribe | (48.0) | (52.4) | (14.5) | 18 | nc | nc | nc | nc | 0 | (100.0) | (25.4) | (53.2) | (14.3) | 18 |
| Other backward class | 63.9 | 50.2 | 26.4 | 393 | (62.9) | (25.1) | (57.2) | (12.1) | 31 | 97.3 | 47.7 | 50.7 | 25.4 | 424 |
| Other | 51.8 | 40.7 | 21.1 | 187 | (76.1) | (46.4) | (79.0) | (35.4) | 28 | 96.9 | 45.9 | 45.6 | 23.0 | 214 |
| Total | 59.7 | 47.2 | 23.4 | 685 | 67.0 | 35.4 | 65.4 | 22.2 | 61 | 97.3 | 46.3 | 48.7 | 23.3 | 747 |

 schooling or less than 8 years of schooling and children whose caste/tribe is not known, who are not shown separately.

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

${ }^{4}$ Includes two or more feedings of commercial infant formula; fresh, tinned and powdered animal milk; and yogurt
${ }^{5}$ For non-breastfed children age 6-23 months, minimum meal frequency is receiving solid or semi-solid food or milk feeds at least four times a day. At least one of the feeds must be a solid or semi-solid food.
 5, 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 2 and 5


## Table 72 Child feeding practices and nutritional status of children by district

Among last-born children who were born in the 2 years preceding the survey, percentage who started breastfeeding within 1 hour of birth, percentage of youngest children under age 6 months living with the mother who are exclusively breastfed, and percentage of children under age 5 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, 201921

|  | Among last born children in the past 2 years |  | Percentage of children under age 6 months exclusively breastfed ${ }^{1}$ | Number of children | Height-for-age ${ }^{2}$ |  | Weight-for-height |  | Weight | for-age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| District | Percentage breastfed within 1 hour of birth | Number of children |  |  | Percentage below -2 SD $^{3}$ | Number of children | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -2 S D^{3} \\ \hline \end{gathered}$ | Number of children | $\begin{gathered} \text { Percentage } \\ \text { below } \\ -2{S D^{3}}^{2} \end{gathered}$ | Number of children |
| Alappuzha | 60.8 | 51 | * | 11 | 20.1 | 132 | 14.4 | 131 | 20.4 | 133 |
| Ernakulam | 70.7 | 101 | * | 20 | 22.0 | 233 | 17.1 | 227 | 19.4 | 234 |
| Idukki | 85.0 | 32 | $*$ | 8 | 24.2 | 85 | 14.5 | 83 | 23.5 | 85 |
| Kannur | 65.1 | 92 | * | 18 | 19.4 | 234 | 14.0 | 221 | 17.9 | 237 |
| Kasaragod | 83.8 | 65 | (68.2) | 19 | 25.3 | 154 | 12.6 | 150 | 21.4 | 155 |
| Kollam | 76.3 | 63 | * | 21 | 15.5 | 166 | 21.4 | 162 | 17.0 | 176 |
| Kottayam | 46.2 | 47 | * | 13 | 23.4 | 111 | 8.4 | 109 | 17.3 | 116 |
| Kozhikode | 84.3 | 94 | * | 15 | 21.3 | 253 | 14.1 | 252 | 18.9 | 259 |
| Malappuram | 69.0 | 149 | * | 33 | 29.4 | 411 | 18.2 | 404 | 21.4 | 427 |
| Palakkad | 61.5 | 80 | * | 24 | 29.7 | 216 | 21.7 | 209 | 27.7 | 218 |
| Pathanamthitta | (79.0) | 20 | * | 5 | 22.7 | 56 | 11.4 | 57 | 11.2 | 57 |
| Thiruvananthapuram | 60.1 | 90 | * | 24 | 19.5 | 211 | 17.4 | 209 | 15.2 | 220 |
| Thrissur | 70.8 | 72 | * | 14 | 22.0 | 198 | 9.6 | 193 | 17.3 | 197 |
| Wayanad | 66.8 | 27 | * | 7 | 31.3 | 65 | 16.1 | 65 | 22.5 | 67 |
| Kerala | 69.6 | 982 | 55.5 | 232 | 23.4 | 2,526 | 15.8 | 2,474 | 19.7 | 2,581 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Based on the youngest child living with the mother
${ }^{2}$ 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
${ }^{3}$ Based on the WHO Growth Standards population median

## Table 73 Prevalence of anaemia in children

Percentage of children age 6-59 months classified as having anaemia, by background characteristics, Kerala, 2019-21 and total for NFHS-4

| Background characteristic | Anaemia status by haemoglobin level |  |  | Any anaemia (<11.0 g/dl) | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Mild } \\ (10.0-10.9 \mathrm{~g} / \mathrm{dl}) \end{gathered}$ | Moderate $(7.0-9.9 \mathrm{~g} / \mathrm{dl})$ | Severe $(<7.0 \mathrm{~g} / \mathrm{dl})$ |  |  |
| Age in months |  |  |  |  |  |
| 6-8 | 30.0 | 23.6 | 1.3 | 54.8 | 116 |
| 9-11 | 28.9 | 29.9 | 1.1 | 59.9 | 128 |
| 12-17 | 26.7 | 28.8 | 1.8 | 57.3 | 236 |
| 18-23 | 31.2 | 26.6 | 0.9 | 58.8 | 194 |
| 24-35 | 26.6 | 13.5 | 1.1 | 41.1 | 505 |
| 36-47 | 21.1 | 8.1 | 0.0 | 29.3 | 515 |
| 48-59 | 18.5 | 5.9 | 0.1 | 24.5 | 543 |
| Sex |  |  |  |  |  |
| Male | 24.8 | 15.1 | 0.6 | 40.5 | 1,146 |
| Female | 23.3 | 14.1 | 0.8 | 38.2 | 1,092 |
| Birth order ${ }^{1}$ |  |  |  |  |  |
| 1 | 22.7 | 13.0 | 0.8 | 36.4 | 938 |
| 2-3 | 25.0 | 15.6 | 0.6 | 41.3 | 1,206 |
| 4-5 | 26.1 | 18.3 | 0.0 | 44.3 | 88 |
| Residence |  |  |  |  |  |
| Urban | 23.0 | 15.0 | 0.9 | 38.9 | 1,060 |
| Rural | 25.1 | 14.3 | 0.5 | 39.8 | 1,178 |
| Mother's schooling ${ }^{2}$ |  |  |  |  |  |
| 5-7 years complete | 19.8 | 21.6 | 0.0 | 41.4 | 37 |
| 8-9 years complete | 26.0 | 16.1 | 0.3 | 42.4 | 199 |
| 10-11 years complete | 25.1 | 14.2 | 0.8 | 40.1 | 456 |
| 12 or more years complete | 23.7 | 14.5 | 0.7 | 38.8 | 1,540 |
| Religion |  |  |  |  |  |
| Hindu | 23.0 | 15.6 | 0.7 | 39.3 | 1,019 |
| Muslim | 26.4 | 13.9 | 0.6 | 40.8 | 897 |
| Christian | 21.4 | 13.5 | 0.8 | 35.6 | 313 |
| Caste/tribe |  |  |  |  |  |
| Scheduled caste | 24.7 | 18.6 | 0.8 | 44.1 | 244 |
| Scheduled tribe | 25.6 | 32.1 | 0.0 | 57.6 | 41 |
| Other backward class | 23.7 | 14.2 | 0.6 | 38.5 | 1,341 |
| Other | 24.3 | 12.6 | 0.9 | 37.8 | 597 |
| Child's living arrangements |  |  |  |  |  |
| Living with both parents | 23.3 | 15.2 | 0.8 | 39.3 | 1,581 |
| Living with one or neither parent | 25.9 | 13.3 | 0.3 | 39.5 | 657 |

Table 73 Prevalence of anaemia in children-Continued
Percentage of children age 6-59 months classified as having anaemia, by background characteristics, Kerala, 2019-21 and total for NFHS-4

|  | Anaemia status by haemoglobin level |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Mild <br> $(10.0-10.9 \mathrm{~g} / \mathrm{dl})$ | Moderate <br> $(7.0-9.9 \mathrm{~g} / \mathrm{dl})$ | Severe <br> $(<7.0 \mathrm{~g} / \mathrm{dl})$ | Any anaemia <br> $(<11.0 \mathrm{~g} / \mathrm{dl})$ |
| Background characteristic |  |  |  |  |
|  |  |  |  |  |
| Mother's anaemia status ${ }^{3}$ |  | 11.4 | 1.0 | 34.8 |
| Not anaemic | 22.4 | 18.7 | 0.0 | 44.2 |

Note: Table is based on children who stayed in the household the night before the interview and who were tested for anaemia. Prevalence of anaemia, based on haemoglobin levels, is adjusted for altitude using the CDC formula (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 ( $\mathrm{g} / \mathrm{dl}$ ). Total includes children of birth order 6 or more, children of mothers with no schooling or less than 5 years of schooling, children belonging to other religions, and children whose caste/tribe is not known or who have no caste/tribe or whose caste/tribe is missing, who are not shown separately.
${ }^{1}$ Excludes children whose mothers were not interviewed
${ }^{2}$ For mothers who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the household schedule.
${ }^{3}$ Mildly anaemic is $11.0-11.9 \mathrm{~g} / \mathrm{dl}$ for non-pregnant women and $10.0-10.9 \mathrm{~g} / \mathrm{dl}$ for pregnant women. Moderately/severely anaemic is $<11.0 \mathrm{~g} / \mathrm{dl}$ for non-pregnant women and $<10.0 \mathrm{~g} / \mathrm{dl}$ for pregnant women. Adjusted for altitude and for smoking status. Excludes children whose mother's anaemia status is not known.
Table 74 Micronutrient intake among children



| Background characteristic | Among youngest children age 6－23 months living with their mother： |  |  | Among children age 6－23 months： |  |  |  | Among children age 9－35 months： |  | Among children age 6－59 months in households with salt tested： |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who consumed foods rich in vitamin A in last 24 hours $^{1}$ | Percentage who consumed foods rich in iron in last 24 hours $^{2}$ | Number of children | Percentage given multiple micro－ nutrient powder in last 7 days $^{3}$ | Percentage given iron supplements in last 7 days ${ }^{3}$ | $\begin{aligned} & \text { Percentage given } \\ & \text { deworming } \\ & \text { medication } \\ & \text { in last } 6 \text { months }{ }^{3,4} \\ & \hline \end{aligned}$ | Number of children | Percentage given vitamin A supplements in the last 6 months ${ }^{5}$ | Number of children | Percentage living in households using iodized salt ${ }^{6}$ | Number of children |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |
| 6－8 | 31.2 | 12.8 | 129 | 49.0 | 25.4 | 11.5 | 133 | na | na | 99.3 | 133 |
| 9－11 | 57.7 | 36.6 | 153 | 69.4 | 36.1 | 15.5 | 155 | 74.0 | 155 | 99.2 | 155 |
| 12－17 | 74.3 | 61.0 | 257 | 67.2 | 35.2 | 34.3 | 263 | 85.5 | 263 | 100.0 | 264 |
| 18－23 | 82.3 | 72.9 | 208 | 61.8 | 29.1 | 47.1 | 216 | 88.5 | 216 | 99.4 | 216 |
| 24－35 | na | na | na | na | na | na | na | 84.6 | 561 | 99.6 | 560 |
| 36－47 | na | na | na | na | na | na | na | na | na | 99.7 | 559 |
| 48－59 | na | na | na | na | na | na | na | na | na | 99.2 | 604 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |
| Male | 65.5 | 50.3 | 390 | 63.7 | 31.4 | 30.7 | 400 | 84.7 | 610 | 99.7 | 1，281 |
| Female | 65.8 | 51.8 | 356 | 62.2 | 32.6 | 29.6 | 367 | 83.5 | 585 | 99.4 | 1，210 |
| Birth order |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 69.1 | 54.2 | 299 | 63.1 | 35.8 | 31.7 | 312 | 89.1 | 519 | 99.3 | 1，059 |
| 2－3 | 62.9 | 48.7 | 412 | 61.6 | 28.8 | 28.6 | 418 | 80.9 | 634 | 99.6 | 1，329 |
| 4－5 | （67．1） | （48．1） | 34 | （75．7） | （32．1） | （33．1） | 35 | （70．1） | 41 | 100.0 | 98 |
| Breastfeeding status ${ }^{7}$ |  |  |  |  |  |  |  |  |  |  |  |
| Breastfeeding | 64.9 | 49.9 | 685 | 64.0 | 32.1 | 28.6 | 685 | 84.8 | 781 | 99.6 | 977 |
| Not breastfeeding | 73.6 | 63.4 | 61 | 54.6 | 31.0 | 43.1 | 81 | 82.9 | 413 | 99.4 | 1，512 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 66.2 | 50.7 | 368 | 58.1 | 34.4 | 29.4 | 375 | 85.3 | 582 | 99.9 | 1，211 |
| Rural | 65.1 | 51.3 | 379 | 67.6 | 29.6 | 30.9 | 392 | 83.0 | 613 | 99.2 | 1，280 |
| Mother＇s schooling |  |  |  |  |  |  |  |  |  |  |  |
| 5－7 years complete | ＊ | ＊ | 9 | ＊ | ＊ | ＊ | 9 | （89．2） | 17 | 100.0 | 39 |
| $8-9$ years complete | 63.9 | 46.1 | 74 | 67.6 | 29.5 | 22.0 | 76 | 74.1 | 106 | 99.9 | 229 |
| 10－11 years complete | 71.1 | 57.9 | 128 | 65.9 | 31.8 | 37.7 | 133 | 79.4 | 207 | 99.2 | 486 |
| 12 or more years complete | 64.5 | 49.9 | 533 | 61.5 | 32.4 | 29.4 | 546 | 86.4 | 859 | 99.6 | 1，729 |

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$\stackrel{+}{\infty}$
 국 గ్ㄱㅅN숟 았뉸 육 쿡
மூ ion のホ～～ $\stackrel{m}{n}$
 NiN N N N N $\stackrel{セ}{ธ}$ กٌ่ in $\underset{\sim}{-1}$ 64.9
73.6 ம่ นฺ่ 63.9
71.1 $\stackrel{セ}{\text { n }}$ Age in months
12－17 24－35 48－59
Sex
Male Female $\stackrel{m}{\sim} \stackrel{n}{q}$
Breastfeeding status ${ }^{7}$ Not breastfeeding
Residence
Mother＇s schooling
$8-9$ years complete $8-9$ years complete
$10-11$ years complete 12 or more years
complete complete
Table 74 Micronutrient intake among children-Continued



| Background characteristic | Among youngest children age 6-23 months living with their mother: |  |  | Among children age 6-23 months: |  |  |  | Among children age 9-35 months: |  | Among children age 6-59 months in households with salt tested: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who consumed foods rich in vitamin A in last 24 hours $^{1}$ | Percentage who consumed foods rich in iron in last 24 hours $^{2}$ | Number of children | Percentage given multiple micronutrient powder in last 7 days $^{3}$ | Percentage given iron supplements in last 7 days $^{3}$ | $\begin{aligned} & \text { Percentage given } \\ & \text { deworming } \\ & \text { medication } \\ & \text { in last } 6 \text { months }^{3,4} \\ & \hline \end{aligned}$ | Number of children | Percentage given vitamin A supplements in the last 6 months ${ }^{5}$ | Number of children | Percentage living in households using iodized salt ${ }^{6}$ | Number of children |
| Religion |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 68.5 | 50.1 | 351 | 63.2 | 32.6 | 32.3 | 358 | 91.3 | 546 | 99.3 | 1,128 |
| Muslim | 63.2 | 50.3 | 286 | 64.4 | 31.9 | 27.1 | 299 | 74.2 | 484 | 99.6 | 1,006 |
| Christian | 63.1 | 55.5 | 110 | 58.3 | 30.0 | 31.5 | 111 | 89.4 | 165 | 100.0 | 343 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 70.9 | 50.0 | 87 | 68.2 | 34.2 | 29.4 | 90 | 88.0 | 132 | 98.8 | 270 |
| Scheduled tribe | (47.2) | (36.6) | 18 | (35.6) | (35.0) | (34.4) | 19 | (79.6) | 24 | 99.2 | 42 |
| Other backward class | 66.8 | 51.9 | 424 | 63.4 | 31.0 | 28.8 | 436 | 81.9 | 708 | 99.6 | 1,493 |
| Other | 63.1 | 51.3 | 214 | 62.9 | 32.7 | 32.8 | 220 | 87.6 | 328 | 99.7 | 664 |
| Total | 65.6 | 51.0 | 747 | 63.0 | 31.9 | 30.2 | 767 | 84.1 | 1,195 | 99.5 | 2,491 |



${ }^{1}$ Includes meat and organ meats, fish, poultry, eggs, pumpkin, carrots, squash, 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, and eggs
${ }^{3}$ Based on mother's recall parasites is commonly done for helminths and schistosomiasis
${ }^{5}$ Based on mother's recall and the vaccination card (where available)
${ }^{6}$ Excludes children in households in which salt was not tested. Includes children whose mothers were not interviewed.
${ }^{7}$ Excludes children whose breastfeeding status is unknown

Table 75 Presence of iodized salt in household
Percent distribution of households by salt testing, and among households with salt tested, percentage with iodized salt, according to background characteristics, Kerala, 2019-21, and total for NFHS-4

|  | Percentage of households: |  |  |  |  | Among households with tested salt: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | With salt tested | With salt, but salt not tested ${ }^{1}$ | With no salt in the household | Total | Number of households | Percentage with iodized salt | Number of households |
| Residence |  |  |  |  |  |  |  |
| Urban | 99.7 | 0.0 | 0.2 | 100.0 | 5,838 | 99.5 | 5,822 |
| Rural | 99.8 | 0.0 | 0.2 | 100.0 | 6,492 | 99.2 | 6,480 |
| Religion of household head |  |  |  |  |  |  |  |
| Hindu | 99.8 | 0.0 | 0.1 | 100.0 | 6,799 | 99.4 | 6,789 |
| Muslim | 99.8 | 0.0 | 0.2 | 100.0 | 3,076 | 99.5 | 3,070 |
| Christian | 99.6 | 0.0 | 0.4 | 100.0 | 2,034 | 99.4 | 2,027 |
| Other | 99.0 | 0.3 | 0.8 | 100.0 | 420 | 97.6 | 416 |
| Caste/tribe of household head |  |  |  |  |  |  |  |
| Scheduled caste | 100.0 | 0.0 | 0.0 | 100.0 | 1,298 | 99.3 | 1,297 |
| Scheduled tribe | 100.0 | 0.0 | 0.0 | 100.0 | 196 | 99.0 | 196 |
| Other backward class | 99.7 | 0.0 | 0.3 | 100.0 | 6,684 | 99.3 | 6,668 |
| Other | 99.8 | 0.0 | 0.1 | 100.0 | 3,701 | 99.6 | 3,695 |
| Don't know | (100.0) | (0.0) | (0.0) | 100.0 | 34 | (100.0) | 34 |
| No caste/tribe or missing | 98.9 | 0.3 | 0.8 | 100.0 | 416 | 97.6 | 412 |
| Total | 99.8 | 0.0 | 0.2 | 100.0 | 12,330 | 99.3 | 12,302 |
| NFHS-4 (2015-16) | 99.8 | 0.0 | 0.2 | 100.0 | 11,346 | 98.4 | 11,527 |

[^14]
## Table 76 Presence of iodized salt in household by district

Percent distribution of households by salt testing, and among households with salt tested, percentage with iodized salt, by district, Kerala, 2019-21

| District | Percentage of households: |  |  |  |  | Among households with tested salt: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | With salt tested | With salt, but salt not tested ${ }^{1}$ | With no salt in the household | Total | Number of households | Percentage with iodized salt | Number of households |
| Alappuzha | 99.7 | 0.1 | 0.2 | 100.0 | 845 | 99.9 | 842 |
| Ernakulam | 99.7 | 0.1 | 0.2 | 100.0 | 1,246 | 99.3 | 1,243 |
| Idukki | 99.6 | 0.0 | 0.4 | 100.0 | 420 | 99.6 | 418 |
| Kannur | 99.9 | 0.0 | 0.1 | 100.0 | 889 | 99.2 | 888 |
| Kasaragod | 100.0 | 0.0 | 0.0 | 100.0 | 491 | 99.6 | 491 |
| Kollam | 99.8 | 0.0 | 0.2 | 100.0 | 981 | 99.0 | 979 |
| Kottayam | 99.6 | 0.0 | 0.4 | 100.0 | 775 | 97.4 | 772 |
| Kozhikode | 99.9 | 0.0 | 0.1 | 100.0 | 1,092 | 99.8 | 1,091 |
| Malappuram | 99.8 | 0.0 | 0.2 | 100.0 | 1,380 | 99.4 | 1,377 |
| Palakkad | 99.9 | 0.0 | 0.1 | 100.0 | 1,020 | 99.7 | 1,019 |
| Pathanamthitta | 99.9 | 0.0 | 0.1 | 100.0 | 456 | 99.6 | 456 |
| Thiruvananthapuram | 99.6 | 0.0 | 0.4 | 100.0 | 1,234 | 99.3 | 1,229 |
| Thrissur | 99.9 | 0.0 | 0.1 | 100.0 | 1,182 | 99.7 | 1,181 |
| Wayanad | 99.3 | 0.0 | 0.7 | 100.0 | 319 | 99.0 | 317 |
| Kerala | 99.8 | 0.0 | 0.2 | 100.0 | 12,330 | 99.3 | 12,302 |

${ }^{1}$ Includes households in which salt could not be tested for technical or logistical reasons

Table 77 Women's and men's food consumption
Percent distribution of women and men age 15-49 by frequency of consumption of specific foods, Kerala, 2019-21

| Type of food | Frequency of consumption |  |  |  | Total | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Weekly | Occasionally | Never |  |  |
| WOMEN |  |  |  |  |  |  |
| Milk or curd | 59.4 | 20.7 | 14.3 | 5.6 | 100.0 | 10,969 |
| Pulses or beans | 50.1 | 39.9 | 9.5 | 0.5 | 100.0 | 10,969 |
| Dark green leafy vegetables | 18.2 | 44.3 | 36.1 | 1.5 | 100.0 | 10,969 |
| Fruits | 20.6 | 55.4 | 23.4 | 0.6 | 100.0 | 10,969 |
| Eggs | 9.8 | 54.4 | 30.0 | 5.8 | 100.0 | 10,969 |
| Fish | 57.4 | 30.9 | 9.0 | 2.7 | 100.0 | 10,969 |
| Chicken or meat | 1.9 | 46.1 | 47.8 | 4.2 | 100.0 | 10,969 |
| Fish or chicken/meat | 57.9 | 32.6 | 7.9 | 1.6 | 100.0 | 10,969 |
| Fried foods | 16.7 | 35.2 | 44.2 | 3.9 | 100.0 | 10,969 |
| Aerated drinks | 2.6 | 13.1 | 62.1 | 22.3 | 100.0 | 10,969 |
| MEN |  |  |  |  |  |  |
| Milk or curd | 62.5 | 24.9 | 8.3 | 4.2 | 100.0 | 1,299 |
| Pulses or beans | 36.7 | 52.8 | 9.9 | 0.6 | 100.0 | 1,299 |
| Dark green leafy vegetables | 31.1 | 51.6 | 16.0 | 1.3 | 100.0 | 1,299 |
| Fruits | 23.1 | 56.8 | 19.8 | 0.3 | 100.0 | 1,299 |
| Eggs | 14.0 | 54.1 | 26.6 | 5.3 | 100.0 | 1,299 |
| Fish | 49.6 | 38.4 | 9.3 | 2.6 | 100.0 | 1,299 |
| Chicken or meat | 3.9 | 52.3 | 40.1 | 3.7 | 100.0 | 1,299 |
| Fish or chicken/meat | 51.1 | 38.9 | 8.4 | 1.5 | 100.0 | 1,299 |
| Fried foods | 14.4 | 37.0 | 42.1 | 6.5 | 100.0 | 1,299 |
| Aerated drinks | 5.4 | 22.1 | 50.6 | 21.9 | 100.0 | 1,299 |

Table 78 Nutritional status of adults

| Table 78 Nutritional status of adults |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage of women and men age 15-49 with specific body mass index (BMI) levels, by background characteristics, Kerala, 2019-21, and total for NFHS-4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Body Mass Index: Women ${ }^{1}$ |  |  |  |  |  |  | Body Mass Index: Men |  |  |  |  |  |  |
| Background characteristic | <18.5 <br> (total <br> thin) | $\begin{gathered} 17.0- \\ 18.4 \\ \text { (mildly } \\ \text { thin) } \\ \hline \end{gathered}$ | $<17.0$ <br> (moderately/ severely thin) | $\geq 25.0$ <br> (overweight or obese) | $\begin{gathered} 25.0-29.9 \\ \text { (overweight) } \end{gathered}$ | $\begin{gathered} \geq 30.0 \\ \text { (obese) } \end{gathered}$ | Number of women | <18.5 (total thin) | $\begin{gathered} 17.0- \\ 18.4 \\ \text { (mildly } \\ \text { thin) } \\ \hline \end{gathered}$ | <17.0 <br> (moderately/ severely thin) | $\geq 25.0$ (overweight or obese) | $\begin{gathered} 25.0-29.9 \\ \text { (overweight) } \end{gathered}$ | $\begin{gathered} \geq 30.0 \\ \text { (obese) } \\ \hline \end{gathered}$ | $\begin{gather*} \text { Number } \\ \text { of } \\ \text { men } \\ \hline \end{gather*}$ |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 34.8 | 19.2 | 15.5 | 6.9 | 5.3 | 1.6 | 1,403 | 36.0 | 17.7 | 18.3 | 7.1 | 5.1 | 2.1 | 205 |
| 20-29 | 13.7 | 7.8 | 5.9 | 24.9 | 18.3 | 6.6 | 2,388 | 10.2 | 7.7 | 2.5 | 31.9 | 25.1 | 6.7 | 308 |
| 30-39 | 4.3 | 2.5 | 1.8 | 46.0 | 34.1 | 11.9 | 3,093 | 3.1 | 1.4 | 1.7 | 45.4 | 37.2 | 8.1 | 334 |
| 40-49 | 2.5 | 1.8 | 0.8 | 53.3 | 39.8 | 13.6 | 3,353 | 1.9 | 1.0 | 1.0 | 47.9 | 40.0 | 7.9 | 375 |
| Marital status |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Never married | 29.2 | 16.2 | 12.9 | 10.5 | 7.7 | 2.8 | 2,283 | 19.4 | 10.5 | 8.9 | 20.8 | 16.2 | 4.7 | 562 |
| Currently married | 4.7 | 2.8 | 1.9 | 46.0 | 34.2 | 11.9 | 7,523 | 2.0 | 1.3 | 0.7 | 49.6 | 41.0 | 8.6 | 646 |
| Widowed/divorced/ separated/deserted | 3.6 | 2.7 | 0.9 | 46.4 | 35.3 | 11.2 | 431 | * | * | * | * | * | * | 15 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 9.7 | 5.7 | 4.0 | 40.4 | 29.0 | 11.4 | 4,892 | 6.9 | 3.8 | 3.1 | 40.1 | 33.2 | 6.9 | 564 |
| Rural | 10.4 | 5.9 | 4.5 | 36.0 | 27.7 | 8.3 | 5,345 | 12.7 | 7.1 | 5.7 | 33.2 | 26.6 | 6.6 | 658 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No schooling | 12.9 | 6.5 | 6.4 | 28.9 | 20.8 | 8.0 | 82 | (7.3) | (4.0) | (3.4) | (33.9) | (31.0) | (2.9) | 27 |
| <5 years complete | 3.6 | 2.1 | 1.5 | 51.5 | 40.3 | 11.2 | 194 | (14.4) | (11.4) | (3.0) | (40.0) | (30.7) | (9.3) | 26 |
| 5-9 years complete | 8.2 | 4.7 | 3.4 | 47.2 | 33.5 | 13.7 | 2,160 | 11.3 | 4.3 | 7.0 | 34.0 | 27.9 | 6.1 | 278 |
| 10-11 years complete | 12.0 | 6.7 | 5.3 | 36.7 | 27.4 | 9.2 | 2,692 | 10.2 | 5.1 | 5.1 | 36.6 | 27.9 | 8.6 | 375 |
| 12 or more years complete | 10.0 | 5.9 | 4.2 | 34.7 | 26.3 | 8.4 | 5,108 | 9.2 | 6.4 | 2.8 | 37.4 | 31.7 | 5.7 | 516 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 11.1 | 6.2 | 4.9 | 35.3 | 26.7 | 8.6 | 5,628 | 11.4 | 6.1 | 5.3 | 34.8 | 28.4 | 6.3 | 695 |
| Muslim | 8.9 | 5.2 | 3.7 | 42.4 | 30.3 | 12.1 | 3,000 | 7.1 | 4.3 | 2.8 | 38.7 | 32.4 | 6.3 | 317 |
| Christian | 8.5 | 5.4 | 3.2 | 40.0 | 30.2 | 9.8 | 1,606 | 9.8 | 5.7 | 4.1 | 37.9 | 29.5 | 8.5 | 210 |

Continued...
Percentage of women and men age 15-49 with specific body mass index (BMI) levels, by background characteristics, Kerala, 2019-21, and total for NFHS-4
Table 78 Nutritional status of adults-Continued
Percentage of women and men age 15-49 with specific body mass index (BMI) levels, by background characteristics, Kerala, 2019-21, and total for NFHS-4

| Background characteristic | Body Mass Index: Women ${ }^{1}$ |  |  |  |  |  |  | Body Mass Index: Men |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | <18.5 <br> (total <br> thin) | $\begin{gathered} 17.0- \\ 18.4 \\ \text { (mildly } \\ \text { thin) } \\ \hline \end{gathered}$ | $<17.0$ <br> (moderately/ severely thin) | $\begin{gathered} \geq 25.0 \\ \text { (overweight } \\ \text { or obese) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 25.0-29.9 } \\ \text { (overweight) } \\ \hline \end{gathered}$ | $\begin{gathered} \geq 30.0 \\ \text { (obese) } \end{gathered}$ | Number of women | $\begin{aligned} & <18.5 \\ & \text { (total } \\ & \text { thin) } \end{aligned}$ | $\begin{gathered} 17.0- \\ 18.4 \\ \text { (mildly } \\ \text { thin) } \\ \hline \end{gathered}$ | $\begin{gathered} <17.0 \\ \text { (moderately/ } \\ \text { severely thin) } \end{gathered}$ | $\begin{gathered} \geq 25.0 \\ \text { (overweight } \\ \text { or obese) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 25.0-29.9 } \\ \text { (overweight) } \end{gathered}$ | $\begin{gathered} \geq 30.0 \\ \text { (obese) } \\ \hline \end{gathered}$ | Number of men |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 11.2 | 6.0 | 5.2 | 33.9 | 25.9 | 8.0 | 1,135 | 10.9 | 6.7 | 4.2 | 24.8 | 18.6 | 6.2 | 127 |
| Scheduled tribe | 18.9 | 9.0 | 9.9 | 20.4 | 15.7 | 4.7 | 166 | 13.6 | 12.6 | 1.0 | 19.5 | 16.2 | 3.3 | 28 |
| Other backward class | 9.9 | 5.8 | 4.1 | 38.6 | 28.7 | 9.9 | 5,961 | 10.4 | 5.3 | 5.1 | 37.6 | 31.4 | 6.2 | 725 |
| Other | 9.4 | 5.4 | 4.0 | 39.9 | 29.3 | 10.6 | 2,941 | 8.3 | 4.9 | 3.3 | 39.6 | 31.1 | 8.5 | 331 |
| Don't know | (11.5) | (8.2) | (3.4) | (29.7) | (16.9) | (12.9) | 34 | * | * | * | * | * | * | 11 |
| Total age 15-49 | 10.1 | 5.8 | 4.3 | 38.1 | 28.3 | 9.8 | 10,237 | 10.0 | 5.6 | 4.5 | 36.3 | 29.6 | 6.7 | 1,222 |
| Age 50-54 | na | na | na | na | na | na | na | 4.7 | 3.4 | 1.3 | 44.7 | 37.1 | 7.6 | 165 |
| Total age 15-54 | na | na | na | na | na | na | na | 9.4 | 5.3 | 4.1 | 37.3 | 30.5 | 6.8 | 1,388 |
| Age 15-49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NFHS-4 (2015-16) | 9.6 | 5.8 | 3.8 | 32.4 | 26.0 | 6.4 | 10,568 | 8.5 | 4.9 | 3.6 | 28.5 | 24.7 | 3.8 | 1,834 |

 that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes women/men belonging to other religions, who are not shown separately.
na $=$ Not applicable
Table 79 Waist circumference and waist-to-hip ratio

| Table 79 Waist circumference and waist-to-hip ratio |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Among women and men age 15-49, percentage with specific waist circumferences and waist-to-hip ratios, by background characteristics, Kerala, 2019-21 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Women |  |  |  |  |  | Men |  |  |  |  |  |
|  | Waist circumference |  |  | Waist-to-hip ratio |  | Number of women | Waist circumference |  |  | Waist-to-hip ratio |  | Number of men |
| Background characteristic | Normal | Increased risk of metabolic complications ( $>80 \mathrm{~cm}$ ) | Substantially increased risk of metabolic complications ( $>88 \mathrm{~cm}$ ) | Normal | Substantially increased risk of metabolic complications ( $\geq 0.85$ ) |  | Normal | Increased risk of metabolic complications ( $>94 \mathrm{~cm}$ ) | Substantially increased risk of metabolic complications ( $>102 \mathrm{~cm}$ ) | Normal | Substantially increased risk of metabolic complications $(\geq 0.90)$ |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 70.2 | 29.8 | 8.7 | 49.7 | 50.3 | 1,399 | 94.2 | 5.8 | 1.3 | 59.1 | 40.9 | 205 |
| 20-29 | 41.7 | 58.3 | 26.5 | 37.0 | 63.0 | 2,382 | 79.2 | 20.8 | 7.4 | 51.6 | 48.4 | 307 |
| 30-39 | 21.0 | 79.0 | 44.0 | 26.4 | 73.6 | 3,089 | 72.0 | 28.0 | 8.0 | 38.1 | 61.9 | 334 |
| 40-49 | 13.7 | 86.3 | 54.8 | 18.2 | 81.8 | 3,347 | 68.6 | 31.4 | 6.4 | 32.1 | 67.9 | 375 |
| Marital status |  |  |  |  |  |  |  |  |  |  |  |  |
| Never married | 62.6 | 37.4 | 13.5 | 47.2 | 52.8 | 2,276 | 85.9 | 14.1 | 4.5 | 51.9 | 48.1 | 561 |
| Currently married | 20.8 | 79.2 | 45.9 | 24.5 | 75.5 | 7,510 | 68.7 | 31.3 | 7.7 | 36.0 | 64.0 | 646 |
| Widowed/divorced/ separated/deserted | 21.6 | 78.4 | 45.3 | 21.3 | 78.7 | 431 | * | * | * | * | * | 15 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 28.4 | 71.6 | 40.8 | 28.9 | 71.1 | 4,886 | 76.6 | 23.4 | 5.4 | 42.8 | 57.2 | 564 |
| Rural | 31.8 | 68.2 | 36.6 | 29.8 | 70.2 | 5,331 | 76.4 | 23.6 | 7.0 | 43.5 | 56.5 | 658 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |  |
| No schooling | 43.0 | 57.0 | 22.6 | 20.8 | 79.2 | 82 | (74.3) | (25.7) | (15.7) | (42.2) | (57.8) | 27 |
| <5 years complete | 20.8 | 79.2 | 45.2 | 21.6 | 78.4 | 194 | (67.6) | (32.4) | (1.9) | (40.4) | (59.6) | 26 |
| $5-9$ years complete | 25.3 | 74.7 | 45.4 | 25.1 | 74.9 | 2,155 | 78.1 | 21.9 | 7.7 | 42.8 | 57.2 | 278 |
| 10-11 years complete | 31.7 | 68.3 | 39.2 | 28.9 | 71.1 | 2,687 | 77.0 | 23.0 | 4.7 | 41.6 | 58.4 | 375 |
| 12 or more years complete | 31.6 | 68.4 | 35.5 | 31.9 | 68.1 | 5,099 | 75.8 | 24.2 | 6.3 | 44.7 | 55.3 | 516 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 32.9 | 67.1 | 35.8 | 30.3 | 69.7 | 5,616 | 75.8 | 24.2 | 6.3 | 42.1 | 57.9 | 695 |
| Muslim | 27.0 | 73.0 | 42.2 | 28.6 | 71.4 | 2,996 | 79.7 | 20.3 | 5.4 | 45.7 | 54.3 | 317 |
| Christian | 26.4 | 73.6 | 41.8 | 27.6 | 72.4 | 1,603 | 74.0 | 26.0 | 7.5 | 43.1 | 56.9 | 210 |
|  |  |  |  |  |  |  |  |  |  |  |  | Continued... |

Among women and men age 15-49, percentage with specific waist circumferences and waist-to-hip ratios, by background characteristics, Kerala, 2019-21
Table 79 Waist circumference and waist-to-hip ratio-Continued
Among women and men age 15-49, percentage with specific waist circumferences and waist-to-hip ratios, by background characteristics, Kerala, 2019-21

| Background characteristic | Women |  |  |  |  |  | Men |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Waist circumference |  |  | Waist-to-hip ratio |  |  | Waist circumference |  |  | Waist-to-hip ratio |  | Number of men |
|  | Normal | Increased risk of metabolic complications ( $>80 \mathrm{~cm}$ ) | Substantially increased risk of metabolic complications (>88 cm) | Normal | Substantially increased risk of metabolic complications $(\geq 0.85)$ | Number of women | Normal | Increased risk of metabolic complications (>94 cm) | Substantially increased risk of metabolic complications (>102 cm) | Normal | Substantially increased risk of metabolic complications $(\geq 0.90)$ |  |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 38.2 | 61.8 | 31.0 | 31.0 | 69.0 | 1,134 | 81.6 | 18.4 | 4.1 | 34.1 | 65.9 | 127 |
| Scheduled tribe | 48.4 | 51.6 | 19.6 | 33.0 | 67.0 | 166 | 82.1 | 17.9 | 8.2 | 43.7 | 56.3 | 28 |
| Other backward class | 29.7 | 70.3 | 39.4 | 29.3 | 70.7 | 5,953 | 77.4 | 22.6 | 5.6 | 44.2 | 55.8 | 724 |
| Other | 26.9 | 73.1 | 41.2 | 28.6 | 71.4 | 2,930 | 72.6 | 27.4 | 7.3 | 44.4 | 55.6 | 331 |
| Don't know | (40.7) | (59.3) | (36.2) | (43.9) | (56.1) | 34 | * | * | * | * | * | 11 |
| Total | 30.2 | 69.8 | 38.6 | 29.4 | 70.6 | 10,217 | 76.5 | 23.5 | 6.3 | 43.2 | 56.8 | 1,222 |

 cases and has been suppressed. Total includes women/men belonging to other religions, who are not shown separately.

| Percentage of women and men age 15-49 with anaemia by background characteristics, Kerala, 2019-21, and total for NFHS-4 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Women |  |  |  | Number of women | Men |  |  |  | $\begin{gathered} \text { Number of } \\ \text { men } \end{gathered}$ |
|  | $\begin{gathered} \text { Mild } \\ (11.0-11.9 \mathrm{~g} / \mathrm{dl})^{1} \end{gathered}$ | $\begin{gathered} \text { Moderate } \\ (8.0-10.9 \mathrm{~g} / \mathrm{dl})^{2} \end{gathered}$ | $\begin{gathered} \text { Severe } \\ (<8.0 \mathrm{~g} / \mathrm{dl})^{3} \\ \hline \end{gathered}$ | Any anaemia $(<12.0 \mathrm{~g} / \mathrm{dl})^{4}$ |  | $\begin{gathered} \text { Mild } \\ (12.0-12.9 \mathrm{~g} / \mathrm{dl}) \end{gathered}$ | $\begin{gathered} \text { Moderate } \\ (9.0-11.9 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Severe } \\ (<9.0 \mathrm{~g} / \mathrm{dl}) \end{gathered}$ | Any anaemia $(<13.0 \mathrm{~g} / \mathrm{dl})$ |  |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 20.6 | 10.5 | 1.4 | 32.5 | 1,395 | 15.9 | 11.5 | 0.0 | 27.4 | 205 |
| 20-29 | 20.6 | 10.5 | 0.6 | 31.7 | 2,620 | 9.1 | 3.3 | 0.3 | 12.7 | 300 |
| 30-39 | 22.0 | 14.5 | 1.2 | 37.7 | 3,124 | 11.5 | 5.0 | 0.1 | 16.6 | 322 |
| 40-49 | 20.6 | 18.1 | 1.7 | 40.4 | 3,274 | 11.8 | 4.6 | 0.7 | 17.0 | 369 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 21.4 | 10.5 | 1.4 | 33.2 | 2,245 | 11.8 | 6.9 | 0.2 | 18.9 | 549 |
| Currently married | 21.0 | 14.8 | 1.2 | 37.0 | 7,751 | 11.3 | 4.5 | 0.5 | 16.3 | 632 |
| Widowed/divorced/ separated/deserted | 19.1 | 19.5 | 2.0 | 40.6 | 416 | * | * | * | * | 15 |
| Maternity status |  |  |  |  |  |  |  |  |  |  |
| Pregnant | 21.7 | 9.7 | 0.0 | 31.4 | 353 | na | na | na | na | na |
| Breastfeeding | 21.8 | 11.3 | 0.7 | 33.8 | 1,133 | na | na | na | na | na |
| Neither | 20.9 | 14.6 | 1.4 | 36.9 | 8,927 | na | na | na | na | na |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 21.1 | 14.7 | 1.1 | 37.0 | 4,979 | 13.8 | 4.9 | 0.6 | 19.4 | 547 |
| Rural | 20.9 | 13.5 | 1.4 | 35.8 | 5,433 | 10.0 | 6.1 | 0.1 | 16.1 | 649 |
| Schooling |  |  |  |  |  |  |  |  |  |  |
| No schooling | 26.5 | 26.7 | 4.4 | 57.5 | 81 | (12.0) | (18.2) | (4.2) | (34.5) | 28 |
| <5 years complete | 22.6 | 17.8 | 2.8 | 43.2 | 193 | (25.0) | (0.0) | (0.0) | (25.0) | 26 |
| 5-9 years complete | 21.9 | 17.1 | 1.6 | 40.6 | 2,144 | 14.3 | 8.7 | 0.5 | 23.4 | 275 |
| 10-11 years complete | 20.2 | 14.3 | 1.6 | 36.1 | 2,704 | 9.8 | 6.8 | 0.1 | 16.7 | 370 |
| 12 or more years complete | 21.0 | 12.4 | 0.8 | 34.2 | 5,290 | 11.1 | 2.4 | 0.2 | 13.7 | 497 |
| Religion |  |  |  |  |  |  |  |  |  |  |
| Hindu | 21.1 | 15.0 | 1.4 | 37.5 | 5,662 | 11.4 | 6.2 | 0.2 | 17.9 | 683 |
| Muslim | 21.0 | 13.1 | 1.0 | 35.0 | 3,107 | 14.8 | 3.8 | 0.7 | 19.3 | 309 |
| Christian | 20.9 | 12.8 | 1.2 | 34.8 | 1,641 | 8.0 | 5.9 | 0.0 | 13.9 | 205 |
|  |  |  |  |  |  |  |  |  |  | Continued... |

Percentage of women and men age 15-49 with anaemia by background characteristics, Kerala, 2019-21, and total for NFHS-4
Table 80 Prevalence of anaemia in adults-Continued
Percentage of women and men age 15-49 with anaemia by background characteristics, Kerala, 2019-21 and total for NFHS-4

| Background characteristic | Women |  |  |  | Number of women | Men |  |  |  | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Mild } \\ (11.0-11.9 \mathrm{~g} / \mathrm{dl})^{1} \end{gathered}$ | $\begin{gathered} \text { Moderate } \\ (8.0-10.9 \mathrm{~g} / \mathrm{dl})^{2} \end{gathered}$ | $\begin{gathered} \text { Severe } \\ (<8.0 \mathrm{~g} / \mathrm{dl})^{3} \end{gathered}$ | Any anaemia $(<12.0 \mathrm{~g} / \mathrm{dl})^{4}$ |  | $\begin{gathered} \text { Mild } \\ (12.0-12.9 \mathrm{~g} / \mathrm{dl}) \end{gathered}$ | $\begin{gathered} \text { Moderate } \\ (9.0-11.9 \mathrm{~g} / \mathrm{dl}) \end{gathered}$ | $\begin{gathered} \text { Severe } \\ (<9.0 \mathrm{~g} / \mathrm{dl}) \end{gathered}$ | Any anaemia $(<13.0 \mathrm{~g} / \mathrm{dl})$ |  |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 21.8 | 17.2 | 2.5 | 41.5 | 1,153 | 15.3 | 6.4 | 1.0 | 22.6 | 126 |
| Scheduled tribe | 20.4 | 26.9 | 5.6 | 52.9 | 172 | 17.7 | 12.5 | 1.4 | 31.7 | 29 |
| Other backward class | 20.9 | 13.4 | 1.0 | 35.3 | 6,101 | 10.9 | 5.3 | 0.1 | 16.3 | 704 |
| Other | 20.9 | 13.4 | 1.1 | 35.4 | 2,952 | 11.9 | 4.8 | 0.4 | 17.0 | 326 |
| Don't know | (25.9) | (21.9) | (4.2) | (52.0) | 34 | * | * | * | * | 11 |
| Smoking status |  |  |  |  |  |  |  |  |  |  |
| Smokes cigarettes/bidis | * | * | * | * | 2 | 10.0 | 7.1 | 0.6 | 17.7 | 185 |
| Does not smoke cigarettes/bidis | 21.0 | 14.1 | 1.2 | 36.3 | 10,410 | 12.0 | 5.3 | 0.3 | 17.6 | 1,012 |
| Total age 15-49 | 21.0 | 14.1 | 1.2 | 36.3 | 10,412 | 11.7 | 5.5 | 0.3 | 17.6 | 1,196 |
| Age 50-54 | na | na | na | na | na | 16.9 | 9.1 | 0.9 | 26.9 | 161 |
| Total age 15-54 | na | na | na | na | na | 12.4 | 6.0 | 0.4 | 18.7 | 1,357 |
| Age 15-49 |  |  |  |  |  |  |  |  |  |  |
| NFHS-4 (2015-16) | 20.8 | 12.8 | 0.8 | 34.3 | 10,851 | 8.3 | 2.9 | 0.5 | 11.7 | 1,810 |



 includes women/men belonging to other religions, who are not shown separately.
${ }^{1}$ For pregnant women the value is $10.0-10.9 \mathrm{~g} / \mathrm{dl}$
For pregnant women, the value is $7.0-9.9 \mathrm{~g} / \mathrm{dl}$
${ }^{3}$ For pregnant women, the value is $<7.0 \mathrm{~g} / \mathrm{dl}$
Table 81 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 years with anaemia and specific body mass index (BMI) levels by district, Kerala, 2019-21

| District | Percentage of children having any anaemia (<11.0 g/dl) | Number of children | Percentage of women having any anaemia $(<12.0 \mathrm{~g} / \mathrm{dl})^{1}$ | Number of women | Percentage of women with BMI <18.5 (total thin) | Percentage of women with BMI $\geq 25.0$ (overweight or obese) | Number of women ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alappuzha | 30.3 | 117 | 31.9 | 620 | 14.3 | 41.9 | 608 |
| Ernakulam | 36.4 | 209 | 31.6 | 1,027 | 8.0 | 39.6 | 1,003 |
| Idukki | 32.0 | 75 | 32.0 | 329 | 9.0 | 36.3 | 324 |
| Kannur | 37.2 | 211 | 39.7 | 850 | 8.7 | 32.4 | 820 |
| Kasaragod | 34.3 | 130 | 35.4 | 482 | 9.4 | 28.4 | 463 |
| Kollam | 32.5 | 148 | 36.0 | 812 | 9.5 | 43.5 | 807 |
| Kottayam | 36.8 | 88 | 38.7 | 542 | 12.3 | 39.8 | 547 |
| Kozhikode | 32.1 | 239 | 29.8 | 971 | 8.4 | 30.7 | 941 |
| Malappuram | 47.2 | 394 | 34.7 | 1,453 | 10.3 | 36.6 | 1,417 |
| Palakkad | 51.9 | 189 | 49.5 | 925 | 12.9 | 32.9 | 887 |
| Pathanamthitta | 44.2 | 51 | 36.4 | 304 | 12.3 | 43.8 | 305 |
| Thiruvananthapuram | 33.0 | 151 | 33.0 | 898 | 6.6 | 50.6 | 922 |
| Thrissur | 48.7 | 176 | 44.4 | 928 | 10.9 | 42.8 | 927 |
| Wayanad | 39.3 | 58 | 26.9 | 271 | 14.0 | 26.6 | 268 |
| Kerala | 39.4 | 2,238 | 36.3 | 10,412 | 10.1 | 38.1 | 10,237 |

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 formula (Centre 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 ( $\mathrm{g} / \mathrm{dl}$ ). The body mass index ( BMI ) is expressed as the ratio of weight in kilograms to the square of height in metres
$\left(\mathrm{kg} / \mathrm{m}^{2}\right)$. ${ }^{1}$ For pregnant women, the value is $<11.0 \mathrm{~g} / \mathrm{dl}$
${ }^{2}$ Excludes pregnant women and women with a birth in the preceding 2 months
Table 82 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 condoms every time they have sexual intercourse, who know that the risk of getting 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 her baby, by background characteristics, Kerala, 2019-21

| Background characteristic | Percentage who have heard of HIV or AIDS |  | Percentage who say that people can reduce their chances of getting HIV/AIDS by using a condom every time they have sex |  | Percentage who know that the risk of getting HIV/AIDS can be reduced by limiting sex to one uninfected sex 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 |  | Number |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women | Men | Women | Men | Women | Men | Women | Men | Women | Men | Women | Men |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 99.6 | 98.6 | 69.0 | 81.1 | 66.1 | 75.4 | 30.2 | 40.6 | 83.6 | 71.7 | 432 | 396 |
| 15-19 | 99.3 | 97.9 | 63.9 | 79.7 | 62.0 | 73.3 | 26.6 | 41.1 | 83.1 | 68.8 | 204 | 215 |
| 20-24 | 99.8 | 99.5 | 73.6 | 82.9 | 69.7 | 78.0 | 33.4 | 40.0 | 84.1 | 75.1 | 228 | 182 |
| 25-29 | 98.8 | 99.8 | 77.2 | 86.9 | 76.8 | 80.6 | 40.2 | 49.6 | 89.8 | 83.3 | 193 | 150 |
| 30-39 | 98.9 | 99.7 | 78.0 | 88.9 | 71.4 | 79.8 | 39.1 | 48.3 | 87.4 | 80.6 | 538 | 355 |
| 40-49 | 99.4 | 99.5 | 73.0 | 83.0 | 72.3 | 78.7 | 32.3 | 45.4 | 85.4 | 78.6 | 520 | 397 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 99.9 | 99.6 | 73.5 | 82.1 | 69.4 | 77.5 | 35.5 | 43.9 | 85.9 | 75.3 | 816 | 599 |
| Rural | 98.7 | 99.1 | 74.6 | 86.6 | 72.4 | 78.9 | 34.2 | 46.4 | 86.2 | 79.6 | 867 | 700 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |  |
| No schooling | * | (94.9) | * | (72.6) | * | (58.8) | * | (29.0) | * | (76.6) | 11 | 30 |
| <5 years complete | (90.2) | (98.8) | (53.0) | (68.3) | (42.0) | (63.3) | (12.1) | (21.8) | (58.5) | (85.0) | 24 | 26 |
| 5-7 years complete | 99.0 | 98.3 | 56.0 | 83.4 | 58.6 | 72.4 | 16.5 | 34.1 | 76.1 | 66.9 | 100 | 79 |
| $8-9$ years complete | 100.0 | 97.3 | 67.6 | 77.7 | 63.4 | 74.1 | 23.6 | 41.9 | 82.6 | 70.9 | 243 | 212 |
| 10-11 years complete | 99.3 | 100.0 | 72.9 | 84.1 | 68.0 | 79.4 | 32.4 | 45.3 | 88.3 | 77.4 | 424 | 399 |
| 12 or more years complete | 99.8 | 100.0 | 79.8 | 89.0 | 77.4 | 81.6 | 42.2 | 50.0 | 88.5 | 81.5 | 881 | 553 |
| Regular media exposure ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Yes | 99.7 | 99.5 | 75.8 | 85.4 | 72.3 | 78.5 | 35.6 | 46.3 | 87.1 | 78.5 | 1,457 | 1,206 |
| No | 96.5 | 97.4 | 63.0 | 73.3 | 62.3 | 75.4 | 29.9 | 30.5 | 79.5 | 65.7 | 227 | 93 |
| Marital status |  |  |  |  |  |  |  |  |  |  |  |  |
| Never married | 99.3 | 99.0 | 68.3 | 82.7 | 64.7 | 74.7 | 33.7 | 42.7 | 83.4 | 72.6 | 366 | 604 |
| Currently married | 99.3 | 99.5 | 75.9 | 86.0 | 72.8 | 81.3 | 35.4 | 46.9 | 87.1 | 81.9 | 1,260 | 679 |
| Widowed/divorced/separated/deserted | 96.8 | * | 70.2 | * | 69.6 | * | 29.8 | * | 81.7 | * | 57 | 16 |

Table 82 Knowledge and prevention of HIV/AIDS-Continued

 HIV/AIDS, and who know that HIV/AIDS can be transmitted from a mother to her baby, by background characteristics, Kerala, 2019-21

| Background characteristic | Percentage who have heard of HIV or AIDS |  | Percentage who say that people can reduce their chances of getting HIV/AIDS by using a condom every time they have sex |  | Percentage who know that the risk of getting HIV/AIDS can be reduced by limiting sex to one uninfected sex 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 |  | Number |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women | Men | Women | Men | Women | Men | Women | Men | Women | Men | Women | Men |
| Whether been away from home for 1 month or more at a time in the past 12 months ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Been away | 100.0 | 99.8 | 71.2 | 81.1 | 76.8 | 73.4 | 37.2 | 36.9 | 91.4 | 80.6 | 89 | 138 |
| Not been away | 99.2 | 99.3 | 74.2 | 84.9 | 70.6 | 78.8 | 34.7 | 46.2 | 85.8 | 77.2 | 1,595 | 1,161 |
| Whether been away from home for 6 months or more at a time in the past 12 months ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Been away | 99.5 | 100.0 | 73.8 | 78.4 | 78.0 | 77.0 | 40.9 | 27.7 | 87.5 | 78.7 | 232 | 63 |
| Not been away | 99.2 | 99.3 | 74.1 | 84.8 | 69.8 | 78.3 | 33.9 | 46.1 | 85.8 | 77.5 | 1,451 | 1,236 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 98.9 | 99.2 | 75.9 | 85.8 | 73.2 | 78.2 | 36.8 | 45.6 | 87.7 | 80.0 | 920 | 742 |
| Muslim | 99.8 | 99.2 | 70.4 | 81.7 | 65.8 | 77.9 | 28.4 | 42.0 | 81.6 | 73.1 | 505 | 337 |
| Christian | 99.4 | 100.0 | 74.9 | 84.5 | 72.9 | 79.0 | 40.5 | 48.7 | 88.9 | 76.2 | 257 | 221 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 97.5 | 99.2 | 68.2 | 81.5 | 66.1 | 71.9 | 30.3 | 43.1 | 90.3 | 75.7 | 157 | 138 |
| Scheduled tribe | (89.4) | 91.2 | (57.8) | 74.3 | (63.9) | 73.2 | (23.5) | 35.6 | (59.1) | 66.8 | 27 | 30 |
| Other backward class | 99.4 | 99.3 | 74.3 | 85.7 | 70.9 | 79.7 | 36.9 | 46.2 | 85.2 | 78.3 | 1,051 | 767 |
| Other | 100.0 | 100.0 | 76.6 | 84.9 | 73.0 | 78.6 | 32.3 | 45.5 | 88.2 | 79.1 | 447 | 351 |
| Total | 99.2 | 99.3 | 74.1 | 84.5 | 70.9 | 78.2 | 34.8 | 45.2 | 86.1 | 77.6 | 1,683 | 1,299 |

 don't know their caste/tribe, who are not shown separately.
${ }^{1}$ Partner who has no other partners
 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
Table 83.1 Accepting attitudes toward those living with HIV/AIDS: Women
Among women age 15-49 who have heard of HIV or AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristic, Kerala, 2019-21

| Background characteristic | Percentage of women who: |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | Would allow an HIV positive student to attend school with students who are HIV negative | Think that people living with HIV/AIDS should be treated in the same public hospital as persons who are HIV negative | Think that people living with HIV should be allowed to work in the same office with people who are HIV negative | Express accepting attitudes on all seven indicators | Number of women who have heard of HIV or AIDS |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 72.3 | 72.0 | 87.0 | 58.5 | 83.7 | 80.5 | 86.0 | 30.9 | 430 |
| 15-19 | 72.5 | 69.9 | 83.8 | 62.0 | 81.1 | 78.9 | 83.2 | 33.8 | 203 |
| 20-24 | 72.0 | 73.8 | 90.0 | 55.3 | 86.1 | 81.8 | 88.5 | 28.3 | 227 |
| 25-29 | 71.0 | 78.0 | 92.7 | 59.8 | 87.6 | 83.0 | 92.6 | 30.6 | 190 |
| 30-39 | 70.6 | 70.6 | 83.1 | 61.9 | 80.6 | 76.7 | 82.9 | 29.0 | 532 |
| 40-49 | 70.3 | 70.1 | 82.7 | 59.6 | 79.2 | 77.1 | 84.1 | 26.6 | 517 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 72.7 | 73.4 | 84.6 | 60.0 | 82.1 | 79.0 | 85.1 | 32.2 | 815 |
| Rural | 69.4 | 70.0 | 85.5 | 60.1 | 81.4 | 78.0 | 85.3 | 25.8 | 856 |
| Schooling |  |  |  |  |  |  |  |  |  |
| 5-7 years complete | 66.0 | 59.4 | 66.2 | 60.7 | 59.8 | 68.8 | 70.1 | 23.7 | 99 |
| 8-9 years complete | 69.0 | 60.2 | 75.9 | 67.2 | 68.9 | 65.0 | 73.7 | 26.2 | 243 |
| 10-11 years complete | 71.2 | 70.5 | 83.7 | 60.8 | 82.5 | 78.6 | 87.0 | 28.4 | 421 |
| 12 or more years complete | 72.7 | 77.6 | 91.2 | 57.4 | 88.6 | 84.2 | 90.0 | 30.7 | 880 |
| Regular media exposure ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Yes | 72.1 | 72.0 | 85.8 | 60.6 | 82.2 | 78.8 | 85.7 | 28.7 | 1,452 |
| No | 63.6 | 69.5 | 80.0 | 56.4 | 79.2 | 76.2 | 81.6 | 30.7 | 219 |
|  |  |  |  |  |  |  |  |  | Continued... |

Table 83.1 Accepting attitudes toward those living with HIV/AIDS: Women-Continued
Among women age 15-49 who have heard of HIV or AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristic, Kerala, 2019-21 are not shown separately.
${ }^{1}$ Exposure to radio, television, or newspapers/magazines at least once a week or cinema at least once a month are not shown separately.
Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes women with no schooling or less than 5 years of schooling and women who don't know their caste/tribe, who
Table 83.2 Accepting attitudes toward those living with HIV/AIDS: Men
Among men age 15-49 who have heard of HIV or AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristic, Kerala, 2019-21

| Background characteristic | Percentage of men who: |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | Would allow an HIV positive student to attend school with students who are HIV negative | Think that people living with HIV/AIDS should be treated in the same public hospital as persons who are HIV negative | Think that people living with HIV should be allowed to work in the same office with people who are HIV negative | Express accepting attitudes on all seven indicators | Number of men who have heard of HIV or AIDS |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 66.3 | 75.6 | 87.1 | 49.1 | 86.0 | 73.0 | 85.9 | 23.9 | 391 |
| 15-19 | 61.4 | 76.4 | 88.5 | 49.5 | 86.1 | 76.2 | 85.9 | 26.0 | 210 |
| 20-24 | 71.9 | 74.7 | 85.4 | 48.7 | 86.0 | 69.3 | 86.0 | 21.4 | 181 |
| 25-29 | 67.8 | 81.6 | 87.7 | 53.3 | 88.0 | 70.5 | 85.1 | 26.8 | 150 |
| 30-39 | 63.5 | 80.8 | 86.6 | 54.5 | 86.5 | 75.1 | 86.8 | 26.4 | 354 |
| 40-49 | 65.0 | 79.4 | 81.0 | 52.3 | 83.2 | 75.3 | 82.9 | 25.5 | 395 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 64.4 | 76.5 | 85.0 | 51.2 | 85.4 | 74.0 | 84.2 | 23.2 | 597 |
| Rural | 66.0 | 81.0 | 85.3 | 52.8 | 85.6 | 74.0 | 86.0 | 27.3 | 694 |
| Schooling |  |  |  |  |  |  |  |  |  |
| No schooling | (52.8) | (51.0) | (82.7) | (47.4) | (70.5) | (73.8) | (74.9) | (13.1) | 29 |
| <5 years complete | (66.4) | (71.4) | (73.3) | (57.2) | (75.5) | (70.7) | (82.0) | (24.0) | 26 |
| 5-7 years complete | 56.3 | 74.2 | 76.4 | 45.7 | 77.8 | 69.3 | 80.5 | 13.5 | 78 |
| $8-9$ years complete | 62.1 | 76.7 | 78.7 | 50.0 | 80.1 | 73.2 | 79.4 | 20.1 | 206 |
| 10-11 years complete | 65.5 | 80.1 | 84.5 | 53.2 | 85.5 | 71.2 | 83.0 | 27.8 | 399 |
| 12 or more years complete | 68.2 | 81.4 | 90.0 | 52.9 | 89.9 | 77.1 | 90.2 | 28.0 | 553 |
| Regular media exposure ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Yes | 65.8 | 79.9 | 86.0 | 52.2 | 86.0 | 74.1 | 86.1 | 25.5 | 1,200 |
| No | 58.7 | 65.6 | 74.6 | 51.0 | 79.0 | 72.9 | 72.4 | 24.5 | 90 |

Table 83.2 Accepting attitudes toward those living with HIV/AIDS: Men-Continued
Among men age 15-49 who have heard of HIV or AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristic, Kerala, 2019-21

| Background characteristic | Percentage of men who: |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | Would allow an HIV positive student to attend school with students who are HIV negative | Think that people living with HIV/AIDS should be treated in the same public hospital as persons who are HIV negative | Think that people living with HIV should be allowed to work in the same office with people who are HIV negative | Express accepting attitudes on all seven indicators | Number of men who have heard of HIV or AIDS |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 65.4 | 77.4 | 87.0 | 52.2 | 86.0 | 72.5 | 86.2 | 24.6 | 598 |
| Currently married | 64.8 | 80.2 | 83.3 | 51.7 | 85.0 | 75.5 | 84.0 | 25.9 | 676 |
| Religion |  |  |  |  |  |  |  |  |  |
| Hindu | 68.7 | 82.0 | 87.3 | 51.1 | 87.8 | 76.3 | 88.3 | 26.2 | 736 |
| Muslim | 55.6 | 70.3 | 80.3 | 49.7 | 80.7 | 68.4 | 78.8 | 19.3 | 334 |
| Christian | 68.4 | 81.6 | 85.3 | 59.0 | 85.0 | 74.8 | 84.3 | 31.7 | 221 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 65.1 | 75.6 | 81.8 | 59.1 | 84.4 | 66.8 | 78.7 | 21.2 | 137 |
| Scheduled tribe | (69.3) | (84.0) | (87.9) | (44.5) | (87.0) | (77.6) | (85.0) | (27.6) | 28 |
| Other backward class | 66.1 | 78.8 | 85.4 | 50.8 | 86.4 | 73.3 | 85.0 | 24.4 | 762 |
| Other | 64.0 | 81.3 | 86.5 | 52.2 | 84.8 | 78.7 | 88.7 | 29.9 | 351 |
| Total | 65.3 | 78.9 | 85.2 | 52.1 | 85.5 | 74.0 | 85.2 | 25.4 | 1,290 |
| Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes women who are widowed or divorced or separated or deserted and women who don't know their caste/ who are not shown separately. <br> ${ }^{1}$ Exposure to radio, television, or newspapers/magazines at least once a week or cinema at least once a month |  |  |  |  |  |  |  |  |  |

## Table 84 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, 2019-21

| Behaviour | Urban |  |  | Rural |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | 0.0 | 0.2 | 0.2 | 0.5 | 0.0 | 0.2 | 0.3 | 0.1 | 0.2 |
| Percentage who had higher-risk intercourse in the past 12 months ${ }^{1}$ | 0.8 | 0.0 | 0.3 | 1.3 | 0.0 | 0.5 | 1.1 | 0.0 | 0.4 |
| Percentage who had two or more partners and higher-risk intercourse in the past 12 months $^{1}$ | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 |
| Number who had sexual intercourse in the past 12 months | 251 | 509 | 760 | 295 | 509 | 804 | 546 | 1,018 | 1,565 |
| Among those who have ever had sexual intercourse: |  |  |  |  |  |  |  |  |  |
| Mean number of sexual partners in lifetime | 1.0 | 1.3 | 1.2 | 1.0 | 1.4 | 1.3 | 1.0 | 1.4 | 1.2 |
| Number who have ever had sexual intercourse | 290 | 612 | 901 | 356 | 649 | 1,005 | 645 | 1,261 | 1,906 |
| Among all men: |  |  |  |  |  |  |  |  |  |
| Percentage who paid for sexual intercourse in the past 12 months | 0.0 | na | na | 0.2 | na | na | 0.1 | na | na |
| Number of men | 599 | na | na | 700 | na | na | 1,299 | na | na |
| Among women with a birth in the last 5 years <br> who received ANC during pregnancy, <br> percentage who were tested for HIV <br> during ANC na 43.3 na na $47.1 \quad$ na $\quad$ na 45.4 na |  |  |  |  |  |  |  |  |  |
| Number of women with a birth in the last 5 years who received ANC during pregnancy | na | 167 | na | na | 200 | na | na | 367 | na |
| Percentage ever tested for HIV prior to NFHS-5 | 10.4 | 50.8 | 33.7 | 13.4 | 44.0 | 30.3 | 12.0 | 47.3 | 31.9 |
| Percentage who have ever had a blood transfusion | 5.9 | 5.6 | 5.7 | 7.5 | 4.7 | 6.0 | 6.8 | 5.2 | 5.9 |
| Percentage who received any injection in the past 12 months | 26.0 | 28.8 | 27.6 | 29.6 | 33.4 | 31.7 | 27.9 | 31.2 | 29.8 |
| Mean number of injections in the past 12 months | 2.7 | 3.4 | 3.1 | 2.5 | 2.9 | 2.7 | 2.6 | 3.1 | 2.9 |
| Number of respondents | 599 | 816 | 1,415 | 700 | 867 | 1,567 | 1,299 | 1,683 | 2,982 |
| Among those who received an injection in the past 12 months, percentage for whom for the last injection, a disposable syringe was used | 95.5 | 97.0 | 96.4 | 94.0 | 97.9 | 96.3 | 94.7 | 97.5 | 96.3 |
| Number who received an injection in the past 12 months | 156 | 235 | 390 | 207 | 290 | 497 | 363 | 525 | 887 |

[^15]
## Table 85 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, 2019-21

| Knowledge and behaviour | Urban |  |  | Rural |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Knowledge |  |  |  |  |  |  |  |  |  |
| Percentage with comprehensive knowledge about HIV/AIDS ${ }^{1}$ | 38.5 | 28.2 | 33.2 | 42.4 | 31.9 | 36.9 | 40.6 | 30.2 | 35.2 |
| Percentage who know a condom source | 86.7 | 60.8 | 73.2 | 81.4 | 58.2 | 69.2 | 83.8 | 59.4 | 71.1 |
| Sexual behaviour |  |  |  |  |  |  |  |  |  |
| Percentage who have ever had sexual intercourse | 1.9 | 22.3 | 12.5 | 1.6 | 25.5 | 14.1 | 1.7 | 24.0 | 13.4 |
| Percentage who had sexual intercourse before age 15 | 0.0 | 0.5 | 0.2 | 0.0 | 0.2 | 0.1 | 0.0 | 0.3 | 0.2 |
| HIV testing, injections, and blood transfusion |  |  |  |  |  |  |  |  |  |
| Percentage ever tested for HIV prior to NFHS-5 | 3.6 | 17.6 | 10.9 | 5.6 | 16.6 | 11.4 | 4.7 | 17.1 | 11.2 |
| Percentage who have ever had a blood transfusion | 7.5 | 2.5 | 4.9 | 7.0 | 0.4 | 3.6 | 7.3 | 1.4 | 4.2 |
| Percentage who received any injection in the past 12 months | 25.5 | 37.8 | 31.9 | 34.7 | 34.8 | 34.7 | 30.4 | 36.2 | 33.4 |
| Mean number of injections in the past 12 months | 2.0 | 3.3 | 2.8 | 1.9 | 2.3 | 2.1 | 1.9 | 2.8 | 2.4 |
| Number age 15-24 | 186 | 201 | 387 | 211 | 231 | 442 | 396 | 432 | 828 |
| Among those who received an injection in the past 12 months, percentage for whom a disposable syringe was used | (88.5) | 98.5 | 94.6 | 95.1 | 96.8 | 96.0 | 92.5 | 97.6 | 95.4 |
| Number who received an injection in the past 12 months | 47 | 76 | 123 | 73 | 80 | 153 | 120 | 156 | 277 |
| Among those who have ever had sexual intercourse, percentage who used a condom at first sexual intercourse | * | (14.2) | (17.1) | * | 7.5 | 10.1 | * | 10.3 | 13.1 |
| Number who have ever had sexual intercourse | 3 | 46 | 50 | 3 | 63 | 67 | 7 | 110 | 117 |
| Among those who had sexual intercourse in the past 12 months, percentage who had higher-risk sexual intercourse in the past 12 months ${ }^{2}$ | * | (0.0) | (4.4) | * | (0.0) | (0.0) | * | 0.0 | 2.2 |
| Number who had sexual intercourse in the past 12 months | 2 | 37 | 39 | 1 | 38 | 40 | 4 | 75 | 79 |
| Among the never married: |  |  |  |  |  |  |  |  |  |
| Percentage who have never had sexual intercourse | 98.4 | 100.0 | 99.1 | 99.1 | 98.8 | 99.0 | 98.7 | 99.4 | 99.0 |
| Percentage who had sexual intercourse in the past 12 months | 0.9 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.2 |
| Number never married | 185 | 155 | 340 | 209 | 170 | 379 | 394 | 324 | 719 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ 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
${ }^{2}$ Sexual intercourse with a partner who was neither a spouse nor lived with the respondent

Table 86 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, 2019-21

| Age and sex | Number of persons per 100,000 suffering from: |  | Number of usual residents |
| :---: | :---: | :---: | :---: |
|  | Tuberculosis ${ }^{1}$ | Medically treated tuberculosis ${ }^{2}$ |  |
| URBAN |  |  |  |
| Sex |  |  |  |
| Female | 412 | 412 | 11,689 |
| Male | 448 | 448 | 10,348 |
| Age |  |  |  |
| <15 | 981 | 981 | 4,526 |
| 15-59 | 252 | 252 | 13,351 |
| 60 and over | 393 | 393 | 4,160 |
| Cooking fuel |  |  |  |
| Solid fuel ${ }^{3}$ | 563 | 563 | 4,833 |
| Other fuel | 391 | 391 | 17,205 |
| Total | 429 | 429 | 22,038 |

RURAL

| Sex |  |  |  |
| :--- | ---: | ---: | ---: |
| Female | 465 | 458 | 12,576 |
| Male | 525 | 495 | 11,459 |
| Age |  |  |  |
| $<15$ | 859 | 837 | 4,907 |
| $15-59$ | 328 | 306 | 14,698 |
| 60 and over | 641 | 641 | 4,430 |
| Cooking fuel |  |  |  |
| Solid fuel ${ }^{3}$ | 728 | 714 | 7,994 |
| Other fuel | 377 | 357 | 16,041 |
| Total | 494 | 476 | 24,035 |

total

| Sex |  |  |  |
| :--- | ---: | ---: | ---: |
| Female | 439 | 436 | 24,265 |
| Male | 489 | 473 | 21,807 |
| Age |  |  |  |
| $<15$ | 918 | 906 | 9,433 |
| $15-59$ | 292 | 521 | 28,049 |
| 60 and over | 521 |  | 8,590 |
| Cooking fuel |  | 657 | 12,827 |
| Solid fuel 3 | 375 | 33,246 |  |
| Other fuel | 384 | 453 | 46,072 |
| Total | 463 |  |  |

[^16]Table 87 Knowledge and attitudes toward tuberculosis
 characteristics, Kerala, 2019-21

| Background characteristic | Percentage of women who have heard of TB | Number of women | Among women who have heard of TB, percentage who: |  |  |  | Number of women who have heard of TB | Percentage of men who have heard of TB | Number of men | Among men who have heard of TB, percentage who: |  |  |  | Number of men who have heard of TB |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Report that TB is spread through the air by coughing or sneezing | Have misconceptions about transmission of TB ${ }^{1}$ | Believe <br> that TB <br> can be <br> cured | Would want a family member's TB kept secret |  |  |  | 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 |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 96.9 | 1,472 | 84.1 | 20.2 | 75.9 | 7.6 | 1,427 | 90.0 | 215 | 84.9 | 20.5 | 83.5 | 11.0 | 193 |
| 20-34 | 97.8 | 4,299 | 89.4 | 16.8 | 83.6 | 6.2 | 4,206 | 96.7 | 491 | 89.9 | 18.9 | 90.5 | 11.1 | 475 |
| 35-49 | 97.5 | 5,198 | 88.4 | 16.1 | 86.6 | 7.7 | 5,067 | 98.0 | 594 | 83.2 | 24.5 | 88.5 | 12.6 | 582 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 98.0 | 5,277 | 88.6 | 17.1 | 84.3 | 7.4 | 5,174 | 96.8 | 599 | 85.5 | 21.0 | 86.7 | 13.5 | 580 |
| Rural | 97.1 | 5,692 | 87.8 | 16.8 | 83.7 | 6.8 | 5,527 | 95.7 | 700 | 86.4 | 22.4 | 90.0 | 10.4 | 669 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No schooling | 83.0 | 83 | 50.0 | 17.2 | 50.1 | 7.7 | 69 | (92.4) | 30 | (78.5) | (16.1) | (85.0) | (27.6) | 28 |
| <5 years complete | 92.8 | 197 | 70.2 | 13.1 | 64.8 | 10.1 | 183 | (97.6) | 26 | (75.9) | (22.6) | (93.4) | (4.6) | 26 |
| 5-7 years complete | 95.8 | 623 | 77.7 | 16.3 | 75.5 | 8.8 | 597 | 94.4 | 79 | 75.4 | 23.9 | 80.0 | 14.7 | 75 |
| 8-9 years complete | 96.6 | 1,623 | 82.6 | 16.0 | 80.0 | 6.2 | 1,568 | 93.8 | 212 | 84.0 | 24.6 | 85.1 | 15.3 | 199 |
| 10-11 years complete | 97.4 | 2,826 | 87.0 | 17.8 | 83.8 | 6.8 | 2,752 | 97.0 | 399 | 83.6 | 20.8 | 88.2 | 12.0 | 387 |
| 12 or more years complete | 98.5 | 5,617 | 92.6 | 17.0 | 87.2 | 7.2 | 5,532 | 97.0 | 553 | 90.8 | 21.3 | 91.0 | 9.4 | 536 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 97.6 | 5,958 | 88.7 | 17.1 | 85.2 | 6.9 | 5,815 | 96.3 | 742 | 86.9 | 24.6 | 89.1 | 11.8 | 715 |
| Muslim | 97.2 | 3,272 | 85.2 | 18.6 | 80.1 | 7.0 | 3,181 | 94.5 | 337 | 82.5 | 15.7 | 85.4 | 14.7 | 318 |
| Christian | 98.0 | 1,736 | 92.2 | 13.1 | 87.0 | 8.2 | 1,701 | 98.3 | 221 | 88.1 | 21.2 | 90.9 | 7.5 | 217 |

 Among men who have heard of TB,
Table 87 Knowledge and attitudes toward tuberculosis-Continued
 characteristics, Kerala, 2019-21

| Background characteristic | Percentage of women who have heard of TB | Number of women | Among women who have heard of TB, percentage who: |  |  |  | Number of women who have heard of TB | Percentag e of men who have heard of TB | Number of men | Among men who have heard of TB, percentage who: |  |  |  | Number of men who have heard of TB |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Report that TB is spread through the air by coughing or sneezing | Have misconceptions about transmission of TB ${ }^{1}$ | Believe <br> that TB <br> can be <br> cured | Would want a family member's TB kept secret |  |  |  | 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 |  |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 96.0 | 1,210 | 84.0 | 17.9 | 82.5 | 8.2 | 1,161 | 98.5 | 138 | 84.1 | 22.7 | 86.4 | 10.5 | 136 |
| Scheduled tribe | 90.7 | 176 | 71.5 | 18.1 | 71.5 | 3.9 | 160 | 94.4 | 30 | 83.4 | 13.2 | 83.5 | 16.6 | 28 |
| Other backward class | 98.0 | 6,409 | 88.5 | 17.3 | 83.3 | 6.7 | 6,280 | 95.8 | 767 | 86.7 | 20.3 | 88.8 | 11.9 | 734 |
| Other | 97.6 | 3,139 | 90.1 | 15.7 | 86.6 | 7.5 | 3,065 | 97.0 | 351 | 85.2 | 25.8 | 88.9 | 11.9 | 341 |
| Don't know | (98.0) | 36 | (81.6) | (30.7) | (78.6) | (20.5) | 35 | * | 13 | * | * | * | * | 10 |
| Total | 97.6 | 10,969 | 88.2 | 16.9 | 84.0 | 7.1 | 10,701 | 96.2 | 1,299 | 86.0 | 21.7 | 88.5 | 11.8 | 1,250 |


 except through the air when coughing or sneezing

## Table 88 Health insurance coverage among women and men

Percentage of women and men age 15-49 who are covered by a health insurance/financing scheme, by background characteristics, Kerala, 2019-21

| Background characteristic | Percentage of women covered by any health insurance/ financing scheme | Number of women | Percentage of men covered by any health insurance/ financing scheme | Number of men |
| :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |
| 15-19 | 44.5 | 1,472 | 41.6 | 215 |
| 20-24 | 45.7 | 1,426 | 48.2 | 182 |
| 25-34 | 45.7 | 2,873 | 55.5 | 309 |
| 35-49 | 54.9 | 5,198 | 52.4 | 594 |
| Residence |  |  |  |  |
| Urban | 45.5 | 5,277 | 46.1 | 599 |
| Rural | 53.9 | 5,692 | 54.8 | 700 |
| Schooling |  |  |  |  |
| No schooling | 53.8 | 83 | (48.2) | 30 |
| <5 years complete | 57.1 | 197 | (63.1) | 26 |
| 5-7 years complete | 52.8 | 623 | 56.6 | 79 |
| 8 -9 years complete | 50.6 | 1,623 | 54.1 | 212 |
| 10-11 years complete | 51.2 | 2,826 | 45.6 | 399 |
| 12 or more years complete | 48.3 | 5,617 | 52.0 | 553 |
| Religion |  |  |  |  |
| Hindu | 57.6 | 5,958 | 54.3 | 742 |
| Muslim | 36.0 | 3,272 | 42.1 | 337 |
| Christian | 49.4 | 1,736 | 52.2 | 221 |
| Caste/tribe |  |  |  |  |
| Scheduled caste | 59.9 | 1,210 | 54.6 | 138 |
| Scheduled tribe | 61.2 | 176 | 58.4 | 30 |
| Other backward class | 48.2 | 6,409 | 48.9 | 767 |
| Other | 48.8 | 3,139 | 53.1 | 351 |
| Don't know | (48.6) | 36 | * | 13 |
| Total age 15-49 | 49.9 | 10,969 | 50.8 | 1,299 |
| Age 50-54 | na | na | 63.4 | 174 |
| Total age 15-54 | na | na | 52.3 | 1,473 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes women belonging to other religions, who are not shown separately.
na $=$ Not applicable

Table 89 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 a health insurance/financing scheme, and among households with at least one usual member covered by a health insurance/financing scheme, type of health insurance/financing scheme coverage, according to residence, Kerala, 2019-21

| Source | Urban | Rural | Total |
| :---: | :---: | :---: | :---: |
| Public health sector | 72.3 | 79.3 | 76.0 |
| Government/municipal hospital | 42.7 | 39.2 | 40.9 |
| Government dispensary | 8.2 | 8.5 | 8.3 |
| UHC/UHP/UFWC | 0.4 | 0.4 | 0.4 |
| CHC/rural hospital/block PHC | 4.7 | 7.7 | 6.2 |
| PHC/additional PHC | 14.7 | 22.4 | 18.8 |
| Sub-centre | 0.1 | 0.1 | 0.1 |
| Vaidya/hakim/homeopath (AYUSH) | 0.6 | 0.3 | 0.4 |
| Anganwadi/ICDS centre | 0.0 | 0.0 | 0.0 |
| Government mobile clinic | 0.0 | 0.0 | 0.0 |
| Other public health sector | 0.8 | 0.7 | 0.7 |
| NGO or trust hospital/clinic | 0.1 | 0.1 | 0.1 |
| Private health sector | 27.2 | 20.1 | 23.5 |
| Private hospital | 24.2 | 18.5 | 21.2 |
| Private doctor/clinic | 2.2 | 1.2 | 1.7 |
| Private paramedic | 0.0 | 0.0 | 0.0 |
| Vaidya/hakim/homeopath (AYUSH) | 0.3 | 0.2 | 0.3 |
| Other private health sector | 0.4 | 0.2 | 0.3 |
| Other source | 0.2 | 0.1 | 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 insurance/financing scheme | 47.2 | 55.4 | 51.5 |
| Number of households | 5,838 | 6,492 | 12,330 |
| Type of coverage among households in which at least one usual member is covered by a health insurance/financing scheme |  |  |  |
| Employees' State Insurance Scheme (ESIS) | 4.7 | 2.3 | 3.3 |
| Central Government Health Scheme (CGHS) | 4.3 | 3.2 | 3.7 |
| State health insurance scheme | 5.0 | 4.3 | 4.6 |
| Rashtriya Swasthya Bima Yojana (RSBY) | 71.2 | 83.6 | 78.2 |
| Community health insurance programme | 0.3 | 0.0 | 0.2 |
| Other health insurance through employer | 1.0 | 0.5 | 0.7 |
| Medical reimbursement from employer | 0.4 | 0.3 | 0.4 |
| Other privately purchased commercial health insurance | 9.9 | 4.2 | 6.7 |
| Other | 6.5 | 3.5 | 4.8 |
| Number of households | 2,754 | 3,597 | 6,352 |

UHC = Urban health centre; UHP = Urban health post; UFWC = Urban family welfare centre; $\mathrm{CHC}=$ Community health centre; $\mathrm{PHC}=$ Primary health centre; AYUSH = Ayurveda, yoga and naturopathy, unani, siddha and homeopathy; ICDS = Integrated Child Development Services; NGO = Nongovernmental organization
Number of women and men age 15-49 per 100,000 who reported that they have diabetes, asthma, goitre or any other thyroid disorder, heart disease, or cancer, by background characteristics, Kerala, 2019-21

| Table 90 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, heart disease, or cancer, by back characteristics, Kerala, 2019-21 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Number of women per 100,000 |  |  |  |  | Number of women | Number of men per 100,000 |  |  |  |  | $\begin{gathered} \text { Number of } \\ \text { men } \\ \hline \end{gathered}$ |
| Background characteristic | Diabetes | Asthma | Goitre or other thyroid disorder | Any heart disease | Cancer |  | Diabetes | Asthma | Goitre or other thyroid disorder | Any heart disease | Cancer |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 207 | 3,781 | 2,139 | 96 | 32 | 1,472 | 0 | 0 | 0 | 0 | 0 | 215 |
| 20-34 | 1,161 | 3,808 | 7,099 | 371 | 119 | 4,299 | 1,727 | 565 | 555 | 390 | 378 | 491 |
| 35-49 | 7,594 | 5,891 | 11,874 | 1,307 | 299 | 5,198 | 7,295 | 1,356 | 684 | 807 | 294 | 594 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 3,834 | 4,893 | 9,603 | 650 | 250 | 5,277 | 4,031 | 978 | 466 | 389 | 0 | 599 |
| Rural | 4,311 | 4,698 | 7,855 | 896 | 139 | 5,692 | 3,950 | 709 | 571 | 625 | 515 | 700 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |  |
| No schooling | 4,389 | 9,405 | 3,123 | 0 | 0 | 83 | $(5,509)$ | $(6,521)$ | (0) | (0) | (0) | 30 |
| <5 years complete | 10,289 | 8,551 | 10,102 | 4,612 | 0 | 197 | $(7,796)$ | $(1,460)$ | (0) | (0) | (0) | 26 |
| 5-7 years complete | 10,244 | 6,858 | 9,664 | 1,331 | 167 | 623 | 4,921 | 3,608 | 0 | 0 | 0 | 79 |
| $8-9$ years complete | 7,432 | 6,206 | 8,726 | 971 | 266 | 1,623 | 3,934 | 0 | 916 | 974 | 641 | 212 |
| 10-11 years complete | 4,326 | 4,007 | 7,911 | 822 | 293 | 2,826 | 5,028 | 138 | 389 | 462 | 313 | 399 |
| 12 or more years complete | 2,085 | 4,349 | 9,008 | 515 | 133 | 5,617 | 2,857 | 917 | 596 | 507 | 181 | 553 |
| Marital status |  |  |  |  |  |  |  |  |  |  |  |  |
| Never married | 720 | 3,960 | 2,583 | 223 | 125 | 2,365 | 1,133 | 675 | 85 | 0 | 83 | 604 |
| Currently married | 4,919 | 4,900 | 10,415 | 932 | 192 | 8,163 | 6,617 | 993 | 923 | 988 | 457 | 679 |
| Widowed/divorced/ separated/deserted | 6,614 | 7,246 | 9,654 | 890 | 561 | 441 | * | * | * | * | * | 16 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 3,809 | 4,894 | 9,353 | 813 | 162 | 5,958 | 4,791 | 853 | 529 | 674 | 318 | 742 |
| Muslim | 4,305 | 4,109 | 7,138 | 561 | 230 | 3,272 | 2,645 | 387 | 698 | 87 | 371 | 337 |
| Christian | 4,549 | 5,647 | 9,395 | 1,065 | 227 | 1,736 | 3,331 | 1,447 | 232 | 642 | 0 | 221 |

Table 90 Health problems-Continued
Number of women and men age 15-49 per 100,000 who reported that they have diabetes, asthma, goitre or any other thyroid disorder, heart disease, or cancer, by background characteristics, Kerala, 2019-21

| Background characteristic | Number of women per 100,000 |  |  |  |  | Number of women | Number of men per 100,000 |  |  |  |  | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Diabetes | Asthma | Goitre or other thyroid disorder | Any heart disease | Cancer |  | Diabetes | Asthma | Goitre or other thyroid disorder | Any heart disease | Cancer |  |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 3,994 | 4,161 | 9,258 | 767 | 340 | 1,210 | 3,374 | 1,445 | 0 | 0 | 362 | 138 |
| Scheduled tribe | 2,412 | 5,411 | 5,160 | 902 | 0 | 176 | 1,586 | 0 | 0 | 0 | 2,843 | 30 |
| Other backward class | 3,962 | 4,829 | 8,431 | 671 | 195 | 6,409 | 4,287 | 741 | 781 | 690 | 130 | 767 |
| Other | 4,406 | 4,924 | 9,229 | 975 | 142 | 3,139 | 3,412 | 897 | 227 | 403 | 355 | 351 |
| Don't know | $(8,228)$ | $(4,798)$ | $(7,724)$ | $(2,291)$ | (0) | 36 | * | * | * | * | * | 13 |
| Total age 15-49 | 4,081 | 4,792 | 8,696 | 777 | 192 | 10,969 | 3,987 | 833 | 522 | 516 | 277 | 1,299 |
| Age 50-54 | na | na | na | na | na | na | 19,328 | 2,383 | 0 | 4,931 | 1,104 | 174 |
| Total age 15-54 | na | na | na | na | na | na | 5,798 | 1,016 | 461 | 1,037 | 375 | 1,473 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes women belonging to other religions, who are not shown separately.
na $=$ Not applicable

## Table 91 Screening tests for cancer

Percentage of women age 15-49 who have ever undergone specific screening tests for cancer, and percentage of men age 1549 who have ever undergone an oral cavity screening test for oral cancer, by background characteristics, Kerala, 2019-21

| Background characteristic | Type of screening test for women |  |  | Number of women | Oral cavity screening test for men | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cervix | Breast | Oral cavity |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | 0.3 | 0.1 | 0.1 | 1,429 | 0.9 | 209 |
| 20-24 | 0.5 | 0.3 | 0.3 | 1,386 | 0.0 | 173 |
| 25-29 | 1.3 | 0.7 | 0.3 | 1,290 | 0.6 | 140 |
| 30-34 | 2.4 | 1.9 | 0.8 | 1,514 | 1.0 | 151 |
| 35-39 | 2.7 | 1.9 | 0.8 | 1,725 | 0.3 | 187 |
| 40-44 | 3.7 | 3.0 | 0.7 | 1,652 | 0.4 | 179 |
| 45-49 | 5.2 | 2.9 | 0.4 | 1,722 | 0.4 | 204 |
| Residence |  |  |  |  |  |  |
| Urban | 2.7 | 2.0 | 0.6 | 5,148 | 0.2 | 573 |
| Rural | 2.2 | 1.3 | 0.4 | 5,570 | 0.7 | 669 |
| Schooling |  |  |  |  |  |  |
| No schooling | 0.0 | 0.0 | 0.0 | 83 | (0.0) | 28 |
| <5 years complete | 8.4 | 3.3 | 2.1 | 196 | (0.0) | 26 |
| 5-7 years complete | 2.8 | 1.2 | 0.8 | 613 | 0.0 | 76 |
| 8 -9 years complete | 2.9 | 1.7 | 0.4 | 1,594 | 0.7 | 210 |
| 10-11 years complete | 2.4 | 1.5 | 0.5 | 2,767 | 0.7 | 380 |
| 12 or more years complete | 2.1 | 1.7 | 0.4 | 5,466 | 0.4 | 522 |
| Religion |  |  |  |  |  |  |
| Hindu | 2.8 | 2.0 | 0.8 | 5,838 | 0.3 | 708 |
| Muslim | 1.9 | 1.1 | 0.1 | 3,187 | 0.0 | 318 |
| Christian | 2.3 | 1.4 | 0.4 | 1,689 | 1.8 | 216 |
| Caste/tribe |  |  |  |  |  |  |
| Scheduled caste | 2.0 | 1.2 | 0.2 | 1,187 | 0.8 | 130 |
| Scheduled tribe | 1.1 | 1.0 | 0.6 | 175 | 0.0 | 29 |
| Other backward class | 2.6 | 1.6 | 0.6 | 6,260 | 0.3 | 733 |
| Other | 2.3 | 2.0 | 0.4 | 3,062 | 0.6 | 335 |
| Don't know | (4.2) | (0.0) | (0.0) | 34 | * | 14 |
| Total | 2.4 | 1.6 | 0.5 | 10,718 | 0.5 | 1,242 |

[^17] cases and has been suppressed. Total includes women belonging to other religions, who are not shown separately.

## Table 92.1 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, 2019-21

| Background characteristic | Prevalence of hypertension ${ }^{1}$ | Normal | Prehypertensive |  | Hypertensi |  |  | Percentage with |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { SBP } \\ <120 \\ \mathrm{mmHg} \\ \text { and DBP } \\ <80 \\ \mathrm{mmHg} \\ \hline \end{gathered}$ | $\begin{gathered} \text { SBP } \\ 120-139 \\ \mathrm{mmHg} \\ \text { or DBP } \\ 80-89 \\ \mathrm{mmHg} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Stage 1: } \\ \text { SBP } \\ 140-159 \\ \mathrm{mmHg} \\ \text { or DBP } \\ 90-99 \\ \mathrm{mmHg} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Stage 2: } \\ \text { SBP } \\ 160-179 \\ \mathrm{mmHg} \\ \text { or DBP } \\ 100-109 \\ \mathrm{mmHg} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Stage 3: } \\ \text { SBP } \\ \geq 180 \\ \mathrm{mmHg} \\ \text { or DBP } \\ \geq 110 \\ \mathrm{mmHg} \\ \hline \end{gathered}$ | Total | normal blood pressure and taking medicine to lower blood pressure | Number of women |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 2.2 | 82.7 | 16.0 | 1.1 | 0.1 | 0.1 | 100.0 | 0.6 | 1,419 |
| 20-24 | 3.3 | 77.7 | 19.8 | 2.1 | 0.4 | 0.0 | 100.0 | 0.5 | 1,376 |
| 25-29 | 2.7 | 72.4 | 25.7 | 1.7 | 0.1 | 0.2 | 100.0 | 0.5 | 1,281 |
| 30-34 | 6.7 | 61.0 | 33.5 | 4.7 | 0.6 | 0.3 | 100.0 | 0.5 | 1,495 |
| 35-39 | 12.5 | 51.3 | 38.4 | 8.1 | 1.8 | 0.5 | 100.0 | 1.0 | 1,708 |
| 40-44 | 19.5 | 39.6 | 44.1 | 12.6 | 3.3 | 0.5 | 100.0 | 0.9 | 1,639 |
| 45-49 | 30.2 | 30.9 | 45.1 | 17.3 | 4.6 | 2.2 | 100.0 | 1.2 | 1,716 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 11.5 | 59.0 | 32.0 | 7.0 | 1.4 | 0.5 | 100.0 | 0.9 | 5,097 |
| Rural | 12.2 | 56.5 | 33.4 | 7.5 | 2.0 | 0.6 | 100.0 | 0.7 | 5,538 |
| Schooling |  |  |  |  |  |  |  |  |  |
| No schooling | 30.0 | 22.8 | 52.0 | 17.8 | 6.3 | 1.1 | 100.0 | 0.3 | 83 |
| <5 years complete | 28.8 | 34.9 | 41.6 | 16.0 | 7.2 | 0.2 | 100.0 | 2.8 | 195 |
| 5-7 years complete | 23.5 | 34.4 | 46.1 | 13.3 | 4.3 | 1.9 | 100.0 | 1.3 | 612 |
| $8-9$ years complete | 17.4 | 49.6 | 36.4 | 10.4 | 2.7 | 0.9 | 100.0 | 1.0 | 1,583 |
| 10-11 years complete | 11.8 | 55.2 | 35.2 | 7.4 | 1.6 | 0.6 | 100.0 | 0.8 | 2,752 |
| 12 or more years complete | 8.1 | 65.3 | 28.2 | 5.2 | 0.9 | 0.4 | 100.0 | 0.6 | 5,409 |
| Religion |  |  |  |  |  |  |  |  |  |
| Hindu | 12.5 | 57.7 | 32.3 | 7.6 | 1.7 | 0.6 | 100.0 | 0.9 | 5,795 |
| Muslim | 11.2 | 56.9 | 34.1 | 6.7 | 1.8 | 0.5 | 100.0 | 0.6 | 3,171 |
| Christian | 11.1 | 59.3 | 31.4 | 7.3 | 1.4 | 0.6 | 100.0 | 0.6 | 1,666 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 12.6 | 58.0 | 31.5 | 7.1 | 2.5 | 0.8 | 100.0 | 0.9 | 1,177 |
| Scheduled tribe | 15.0 | 53.4 | 34.0 | 8.0 | 4.4 | 0.3 | 100.0 | 0.2 | 175 |
| Other backward class | 11.8 | 57.8 | 32.7 | 7.5 | 1.4 | 0.5 | 100.0 | 0.8 | 6,223 |
| Other | 11.6 | 57.8 | 33.0 | 6.9 | 1.7 | 0.6 | 100.0 | 0.6 | 3,025 |
| Don't know | (14.6) | (50.0) | (35.3) | (10.6) | (4.0) | (0.0) | 100.0 | (0.0) | 34 |
| Total | 11.9 | 57.7 | 32.7 | 7.3 | 1.7 | 0.6 | 100.0 | 0.8 | 10,635 |

[^18]
## Table 92.2 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, 2019-21

| Background characteristic | Prevalence of hypertension ${ }^{1}$ | Normal | Prehypertensive | Hypertensive |  |  |  | Percentage with normal blood pressure and taking medicine to lower blood pressure | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | SBP $<120$ mmHg and DBP $<80$ mmHg | $\begin{gathered} \text { SBP } \\ 120-139 \\ \mathrm{mmHg} \\ \text { or DBP } \\ 80-89 \\ \mathrm{mmHg} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Stage 1: } \\ \text { SBP } \\ 140-159 \\ \mathrm{mmHg} \\ \text { or DBP } \\ 90-99 \\ \mathrm{mmHg} \\ \hline \end{gathered}$ | Stage 2: SBP 160-179 mmHg or DBP 100-109 mmHg | $\begin{gathered} \text { Stage 3: } \\ \text { SBP } \\ \geq 180 \\ \mathrm{mmHg} \\ \text { or DBP } \\ \geq 110 \\ \mathrm{mmHg} \\ \hline \end{gathered}$ | Total |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 3.3 | 66.6 | 30.6 | 2.6 | 0.0 | 0.2 | 100.0 | 0.5 | 206 |
| 20-24 | 6.3 | 45.1 | 49.1 | 3.5 | 1.3 | 0.9 | 100.0 | 0.6 | 170 |
| 25-29 | 16.8 | 31.2 | 52.4 | 15.0 | 1.5 | 0.0 | 100.0 | 0.0 | 138 |
| 30-34 | 15.9 | 14.6 | 69.4 | 10.8 | 4.4 | 0.8 | 100.0 | 0.0 | 147 |
| 35-39 | 22.2 | 19.8 | 58.9 | 18.1 | 3.2 | 0.0 | 100.0 | 0.0 | 186 |
| 40-44 | 31.7 | 13.1 | 57.2 | 24.2 | 4.7 | 0.8 | 100.0 | 0.0 | 176 |
| 45-49 | 30.6 | 15.5 | 56.3 | 22.0 | 4.6 | 1.5 | 100.0 | 0.0 | 199 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 18.7 | 31.0 | 51.6 | 14.0 | 3.0 | 0.4 | 100.0 | 0.3 | 562 |
| Rural | 17.7 | 29.5 | 53.5 | 13.6 | 2.6 | 0.8 | 100.0 | 0.0 | 660 |
| Schooling |  |  |  |  |  |  |  |  |  |
| No schooling | (19.5) | (28.4) | (52.1) | (16.7) | (2.8) | (0.0) | 100.0 | (0.0) | 28 |
| <5 years complete | (45.5) | (25.2) | (33.6) | (28.9) | (9.1) | (3.2) | 100.0 | (0.0) | 26 |
| 5-7 years complete | 27.7 | 10.1 | 63.4 | 25.2 | 1.2 | 0.0 | 100.0 | 0.0 | 73 |
| 8 -9 years complete | 21.9 | 29.6 | 49.3 | 16.4 | 3.5 | 1.2 | 100.0 | 0.0 | 207 |
| 10-11 years complete | 17.8 | 33.0 | 50.2 | 12.6 | 3.4 | 0.8 | 100.0 | 0.0 | 373 |
| 12 or more years complete | 14.1 | 31.6 | 55.2 | 11.0 | 2.0 | 0.2 | 100.0 | 0.4 | 516 |
| Religion |  |  |  |  |  |  |  |  |  |
| Hindu | 20.3 | 28.5 | 52.4 | 14.7 | 3.7 | 0.7 | 100.0 | 0.1 | 697 |
| Muslim | 14.1 | 32.0 | 55.2 | 11.1 | 1.1 | 0.7 | 100.0 | 0.3 | 316 |
| Christian | 17.3 | 33.2 | 49.5 | 14.5 | 2.4 | 0.4 | 100.0 | 0.0 | 209 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 20.2 | 26.3 | 54.7 | 16.8 | 1.8 | 0.5 | 100.0 | 0.0 | 127 |
| Scheduled tribe | 31.7 | 18.4 | 53.0 | 21.7 | 5.3 | 1.6 | 100.0 | 0.0 | 29 |
| Other backward class | 17.8 | 31.1 | 52.4 | 13.3 | 2.5 | 0.6 | 100.0 | 0.3 | 725 |
| Other | 17.4 | 30.5 | 52.1 | 13.2 | 3.6 | 0.6 | 100.0 | 0.0 | 330 |
| Total age 15-49 | 18.2 | 30.2 | 52.6 | 13.8 | 2.8 | 0.6 | 100.0 | 0.2 | 1,222 |
| Age 50-54 | 43.1 | 22.3 | 45.4 | 25.9 | 4.3 | 2.0 | 100.0 | 0.8 | 165 |
| Total age 15-54 | 21.1 | 29.3 | 51.8 | 15.2 | 3.0 | 0.8 | 100.0 | 0.2 | 1,387 |

[^19]Table 93.1 Random blood glucose levels: Women
Among women age 15-49, percent distribution of random blood glucose values, by background characteristics, Kerala, 2019-21

| Background characteristic | Random blood glucose values |  |  | Total | Percentage with normal blood glucose levels and taking medicine to lower their blood glucose level | Percentage with $>140 \mathrm{mg} /$ dl blood glucose levels or taking medicine to lower their blood glucose level | $\begin{gathered} \text { Number of } \\ \text { women } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \leq 140 \mathrm{mg} / \mathrm{dl} \\ \text { (normal) } \end{gathered}$ | $\begin{gathered} \text { 141-160 } \\ \mathrm{mg} / \mathrm{dl}(\mathrm{high}) \\ \hline \end{gathered}$ | $\begin{aligned} & >160 \mathrm{mg} / \mathrm{dl} \\ & \text { (very high) } \end{aligned}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 97.7 | 1.7 | 0.6 | 100.0 | 0.2 | 2.5 | 1,395 |
| 20-24 | 96.7 | 2.1 | 1.2 | 100.0 | 0.3 | 3.6 | 1,366 |
| 25-29 | 95.6 | 2.9 | 1.5 | 100.0 | 0.8 | 5.2 | 1,256 |
| 30-34 | 91.0 | 4.7 | 4.3 | 100.0 | 0.8 | 9.8 | 1,457 |
| 35-39 | 89.0 | 6.0 | 5.1 | 100.0 | 0.8 | 11.8 | 1,670 |
| 40-44 | 82.1 | 7.8 | 10.0 | 100.0 | 1.8 | 19.6 | 1,617 |
| 45-49 | 76.4 | 9.2 | 14.4 | 100.0 | 2.2 | 25.8 | 1,658 |
| Residence |  |  |  |  |  |  |  |
| Urban | 89.6 | 5.1 | 5.3 | 100.0 | 1.0 | 11.4 | 4,985 |
| Rural | 88.8 | 5.2 | 6.0 | 100.0 | 1.0 | 12.2 | 5,434 |
| Schooling |  |  |  |  |  |  |  |
| No schooling | 85.0 | 5.1 | 9.9 | 100.0 | 0.4 | 15.5 | 81 |
| <5 years complete | 81.0 | 7.4 | 11.6 | 100.0 | 1.7 | 20.7 | 193 |
| 5-7 years complete | 78.6 | 7.9 | 13.5 | 100.0 | 0.6 | 22.0 | 599 |
| 8 -9 years complete | 84.2 | 6.8 | 9.0 | 100.0 | 1.5 | 17.3 | 1,548 |
| 10-11 years complete | 88.1 | 5.0 | 6.9 | 100.0 | 0.8 | 12.7 | 2,704 |
| 12 or more years complete | 92.7 | 4.3 | 3.0 | 100.0 | 1.0 | 8.3 | 5,296 |
| Religion |  |  |  |  |  |  |  |
| Hindu | 89.0 | 5.5 | 5.5 | 100.0 | 1.0 | 12.0 | 5,668 |
| Muslim | 89.3 | 4.8 | 5.9 | 100.0 | 1.0 | 11.6 | 3,108 |
| Christian | 89.4 | 4.6 | 5.9 | 100.0 | 1.1 | 11.7 | 1,642 |
| Caste/tribe |  |  |  |  |  |  |  |
| Scheduled caste | 89.7 | 5.0 | 5.2 | 100.0 | 1.3 | 11.6 | 1,153 |
| Scheduled tribe | 89.2 | 7.1 | 3.7 | 100.0 | 1.0 | 11.8 | 173 |
| Other backward class | 89.1 | 5.2 | 5.7 | 100.0 | 1.0 | 11.8 | 6,107 |
| Other | 89.0 | 5.1 | 5.9 | 100.0 | 1.0 | 12.0 | 2,953 |
| Don't know | (93.9) | (2.8) | (3.3) | (100.0) | (0.0) | (6.1) | 34 |
| Total | 89.2 | 5.2 | 5.7 | 100.0 | 1.0 | 11.9 | 10,420 |
| Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes women belonging to other religions, who are not shown separately. |  |  |  |  |  |  |  |

Table 93.2 Random blood glucose levels: Men
Among men age 15-49, percent distribution of random blood glucose values, by background characteristics, Kerala, 2019-21

| Background characteristic | Random blood glucose values |  |  | Total | Percentage with normal blood glucose levels and taking medicine to lower their blood glucose level | Percentage with $>140 \mathrm{mg} /$ dl blood glucose levels or taking medicine to lower their blood glucose level |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \leq 140 \mathrm{mg} / \mathrm{dl} \\ \text { (normal) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 141-160 } \\ \mathrm{mg} / \mathrm{dl}(\mathrm{high}) \end{gathered}$ | $\begin{aligned} & >160 \mathrm{mg} / \mathrm{dl} \\ & \text { (very high) } \end{aligned}$ |  |  |  | Number of men |
| Age |  |  |  |  |  |  |  |
| 15-19 | 97.9 | 1.0 | 1.0 | 100.0 | 0.5 | 2.5 | 204 |
| 20-24 | 98.5 | 0.7 | 0.8 | 100.0 | 0.6 | 2.1 | 168 |
| 25-29 | 95.3 | 1.0 | 3.7 | 100.0 | 0.9 | 5.6 | 134 |
| 30-34 | 91.1 | 3.1 | 5.8 | 100.0 | 1.0 | 9.8 | 145 |
| 35-39 | 82.6 | 8.2 | 9.1 | 100.0 | 3.1 | 20.5 | 179 |
| 40-44 | 80.4 | 7.5 | 12.1 | 100.0 | 4.5 | 24.1 | 175 |
| 45-49 | 74.2 | 10.7 | 15.2 | 100.0 | 2.8 | 28.7 | 194 |
| Residence |  |  |  |  |  |  |  |
| Urban | 86.2 | 6.0 | 7.8 | 100.0 | 2.3 | 16.1 | 549 |
| Rural | 89.9 | 3.8 | 6.3 | 100.0 | 1.6 | 11.7 | 649 |
| Schooling |  |  |  |  |  |  |  |
| No schooling | (80.7) | (7.0) | (12.3) | 100.0 | (2.7) | (22.0) | 28 |
| <5 years complete | (71.0) | (11.1) | (17.9) | 100.0 | (4.5) | (33.5) | 26 |
| 5-7 years complete | 87.3 | 7.6 | 5.0 | 100.0 | 1.3 | 13.9 | 73 |
| 8-9 years complete | 86.7 | 4.7 | 8.6 | 100.0 | 2.0 | 15.4 | 202 |
| 10-11 years complete | 85.1 | 7.0 | 7.9 | 100.0 | 2.2 | 17.1 | 372 |
| 12 or more years complete | 92.6 | 2.3 | 5.1 | 100.0 | 1.7 | 9.1 | 499 |
| Religion |  |  |  |  |  |  |  |
| Hindu | 86.6 | 5.5 | 8.0 | 100.0 | 1.9 | 15.3 | 683 |
| Muslim | 91.0 | 3.5 | 5.4 | 100.0 | 2.2 | 11.1 | 308 |
| Christian | 89.5 | 4.5 | 6.0 | 100.0 | 1.9 | 12.4 | 208 |
| Caste/tribe |  |  |  |  |  |  |  |
| Scheduled caste | 88.8 | 5.1 | 6.1 | 100.0 | 2.5 | 13.7 | 126 |
| Scheduled tribe | 93.5 | 1.7 | 4.8 | 100.0 | 8.9 | 15.4 | 29 |
| Other backward class | 87.6 | 5.2 | 7.3 | 100.0 | 1.9 | 14.3 | 707 |
| Other | 89.2 | 4.4 | 6.4 | 100.0 | 1.3 | 12.0 | 326 |
| Total age 15-49 | 88.2 | 4.8 | 7.0 | 100.0 | 2.0 | 13.7 | 1,199 |
| Age 50-54 | 71.9 | 11.9 | 16.2 | 100.0 | 10.2 | 38.3 | 161 |
| Total age 15-54 | 86.3 | 5.6 | 8.1 | 100.0 | 2.9 | 16.6 | 1,360 |

Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes men who don't know their caste/tribe, who are not shown separately.

Table 94 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, 2019-21

| Tobacco/alcohol use | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Use of tobacco/alcohol |  |  |  |  |  |  |
| Smokes cigarettes | 0.0 | 0.0 | 0.0 | 13.8 | 17.1 | 15.6 |
| Smokes bidis | 0.0 | 0.0 | 0.0 | 0.5 | 2.4 | 1.6 |
| Smokes cigars or pipe | 0.0 | 0.0 | 0.0 | 1.8 | 3.3 | 2.6 |
| Chews gutkha or paan masala with tobacco | 0.0 | 0.0 | 0.0 | 0.2 | 1.0 | 0.6 |
| Uses khaini | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.3 |
| Chews paan with tobacco | 0.1 | 0.4 | 0.2 | 0.6 | 2.1 | 1.4 |
| Uses other chewing tobacco | 0.0 | 0.3 | 0.1 | 0.0 | 0.5 | 0.3 |
| Uses snuff | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 |
| Uses other tobacco product | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 |
| Uses any type of tobacco | 0.1 | 0.7 | 0.4 | 14.5 | 20.5 | 17.8 |
| Drinks alcohol | 0.4 | 0.3 | 0.3 | 24.0 | 27.8 | 26.0 |
| Number of respondents | 5,277 | 5,692 | 10,969 | 599 | 700 | 1,299 |
| Among those who smoke cigarettes, number of cigarettes smoked in the past $\mathbf{2 4}$ hours |  |  |  |  |  |  |
| <5 | nc | * | * | 68.9 | 54.7 | 60.6 |
| 5-9 | nc | * | * | 16.8 | 28.2 | 23.5 |
| 10-14 | nc | * | * | 12.4 | 10.8 | 11.5 |
| 15-24 | nc | * | * | 1.6 | 2.2 | 1.9 |
| Missing | nc | * | * | 0.2 | 4.1 | 2.5 |
| Total | nc | * | * | 100.0 | 100.0 | 100.0 |
| Number of cigarette smokers | 0 | 2 | 2 | 83 | 120 | 202 |
| Among those who smoke bidis, number of bidis smoked in the past 24 hours |  |  |  |  |  |  |
| <5 | nc | nc | nc | * | * | (32.1) |
| 5-9 | nc | nc | nc | * | * | (10.3) |
| 10-14 | nc | nc | nc | * | * | (39.8) |
| 15-24 | nc | nc | nc | * | * | (17.8) |
| 25 or more | nc | nc | nc | * | * | (0.0) |
| Missing | nc | nc | nc | * | * | (0.0) |
| Total | nc | nc | nc | * | * | 100.0 |
| Number of bidi smokers | 0 | 0 | 0 | 3 | 17 | 20 |
| Among those who drink alcohol, frequency of drinking |  |  |  |  |  |  |
| Almost every day | * | * | (0.0) | 6.2 | 11.5 | 9.2 |
| About once a week | * | * | (11.9) | 41.1 | 40.3 | 40.6 |
| Less than once a week | * | * | (88.1) | 52.8 | 48.3 | 50.2 |
| Don't know | * | * | (0.0) | 0.0 | 0.0 | 0.0 |
| Total | * | * | 100.0 | 100.0 | 100.0 | 100.0 |
| Number who drink alcohol | 22 | 16 | 38 | 144 | 195 | 338 |

[^20]
## Table 95 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, 2019-21

| Background characteristic | Type of menstrual protection ${ }^{1}$ |  |  |  |  | Percentage using a hygienic method ${ }^{2}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cloth | Locally prepared napkins | Sanitary napkins | Tampons | $\begin{gathered} \text { Menstrual } \\ \text { cup } \\ \hline \end{gathered}$ |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 39.7 | 3.3 | 90.4 | 0.2 | 0.0 | 93.6 | 1,472 |
| 20-24 | 40.5 | 2.3 | 90.5 | 0.1 | 0.3 | 92.6 | 1,426 |
| Residence |  |  |  |  |  |  |  |
| Urban | 35.4 | 2.2 | 92.7 | 0.1 | 0.2 | 94.8 | 1,384 |
| Rural | 44.4 | 3.3 | 88.3 | 0.2 | 0.1 | 91.5 | 1,514 |
| Schooling |  |  |  |  |  |  |  |
| 8-9 years complete | 38.6 | 3.0 | 88.3 | 0.7 | 0.0 | 92.0 | 214 |
| 10-11 years complete | 41.2 | 3.3 | 89.3 | 0.0 | 0.1 | 92.3 | 774 |
| 12 or more years complete | 39.7 | 2.6 | 91.2 | 0.1 | 0.2 | 93.6 | 1,897 |
| Religion |  |  |  |  |  |  |  |
| Hindu | 40.1 | 2.4 | 90.2 | 0.2 | 0.1 | 92.6 | 1,516 |
| Muslim | 45.4 | 3.4 | 89.6 | 0.1 | 0.1 | 92.9 | 904 |
| Christian | 30.2 | 2.8 | 92.6 | 0.0 | 0.4 | 94.9 | 477 |
| Caste/tribe |  |  |  |  |  |  |  |
| Scheduled caste | 50.8 | 1.6 | 86.3 | 0.0 | 0.2 | 88.1 | 312 |
| Scheduled tribe | 46.6 | 2.7 | 83.4 | 0.0 | 0.0 | 86.1 | 54 |
| Other backward class | 40.7 | 3.1 | 91.2 | 0.1 | 0.2 | 94.3 | 1,710 |
| Other | 34.8 | 2.6 | 90.7 | 0.2 | 0.0 | 92.8 | 809 |
| Total | 40.1 | 2.8 | 90.4 | 0.1 | 0.2 | 93.1 | 2,898 |

Note: Table is based on women age 15-24 who have ever menstruated. Total includes women with no schooling or less than 8 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, tampons, and menstrual cup are considered to be hygienic methods of protection
Table 96 Employment and cash earnings of women and men
Percentage of women age 15-49 and men age 15-54 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 type of employment, according to age, Kerala, 2019-21

| Age | Percentage employed in the past 12 months | Number of respondents | Percent distribution of employed respondents by type of earnings |  |  |  |  | Total | Percent distribution of employed respondents by sector |  | Total | Number of employed respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cash only | Cash and in-kind | In-kind only | Not paid | Missing |  | Agriculture | Nonagriculture |  |  |
| WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.9 | 204 | * | * | * | * | * | 100.0 | * | * | 100.0 | 2 |
| 20-24 | 15.9 | 228 | (97.1) | (2.9) | (0.0) | (0.0) | (0.0) | 100.0 | (0.0) | (100.0) | 100.0 | 36 |
| 25-29 | 22.7 | 193 | (96.7) | (3.3) | (0.0) | (0.0) | (0.0) | 100.0 | (3.1) | (96.9) | 100.0 | 44 |
| 30-34 | 29.0 | 257 | 97.6 | 0.0 | 0.0 | 2.4 | 0.0 | 100.0 | 4.7 | 95.3 | 100.0 | 74 |
| 35-39 | 32.9 | 281 | 96.6 | 1.6 | 0.0 | 1.8 | 0.0 | 100.0 | 15.0 | 85.0 | 100.0 | 93 |
| 40-44 | 37.3 | 238 | 94.5 | 4.4 | 0.6 | 0.6 | 0.0 | 100.0 | 23.8 | 76.2 | 100.0 | 89 |
| 45-49 | 35.9 | 282 | 97.8 | 1.7 | 0.0 | 0.5 | 0.0 | 100.0 | 20.5 | 79.5 | 100.0 | 101 |
| Total | 26.1 | 1,683 | 96.7 | 2.2 | 0.1 | 1.0 | 0.0 | 100.0 | 13.8 | 86.2 | 100.0 | 439 |
| MEN |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 8.1 | 215 | * | * | * | * | * | 100.0 | * | * | 100.0 | 17 |
| 20-24 | 53.3 | 182 | 98.6 | 1.4 | 0.0 | 0.0 | 0.0 | 100.0 | 5.7 | 94.3 | 100.0 | 97 |
| 25-29 | 84.5 | 150 | 98.7 | 1.3 | 0.0 | 0.0 | 0.0 | 100.0 | 3.8 | 96.2 | 100.0 | 127 |
| 30-34 | 97.7 | 159 | 99.2 | 0.8 | 0.0 | 0.0 | 0.0 | 100.0 | 5.1 | 94.9 | 100.0 | 155 |
| 35-39 | 96.8 | 197 | 95.7 | 3.9 | 0.2 | 0.3 | 0.0 | 100.0 | 12.0 | 88.0 | 100.0 | 190 |
| 40-44 | 96.2 | 187 | 96.7 | 2.5 | 0.0 | 0.8 | 0.0 | 100.0 | 8.9 | 91.1 | 100.0 | 180 |
| 45-49 | 97.4 | 210 | 93.4 | 4.2 | 0.9 | 1.5 | 0.0 | 100.0 | 12.6 | 87.4 | 100.0 | 205 |
| Total | 74.7 | 1,299 | 96.6 | 2.5 | 0.2 | 0.7 | 0.0 | 100.0 | 8.8 | 91.2 | 100.0 | 971 |
| Age 50-54 | 94.9 | 174 | 96.4 | 2.2 | 0.9 | 0.5 | 0.0 | 100.0 | 15.9 | 84.1 | 100.0 | 165 |
| Total age 15-54 | 77.1 | 1,473 | 96.6 | 2.5 | 0.3 | 0.7 | 0.0 | 100.0 | 9.8 | 90.2 | 100.0 | 1,136 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
Table 97 Control over and magnitude of women's and men's cash earnings
 earnings, according to background characteristics, Kerala, 2019-21

| Background characteristic | Percentage of currently married women who report that they: |  |  |  |  | Number employed for cash and whose husbands are employed for cash | Percentage of currently married men who report that: |  |  |  |  | Number employed for cash and whose wives are employed for cash |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone or jointly with their husband decide how their own cash earnings are used | Number employed for cash | Alone or jointly with their husband decide how their husband's cash earnings are used | Number of women whose husbands are employed for cash | Earn more or about the same as their husband |  | They alone or jointly with their wife decide how their wife's cash earnings are used | Number of men with wives who are employed for cash | Their wife alone or jointly with them decides how their own cash earnings are used | Number employed for cash | Their wife earns more or about the same as them |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 20-29 | (92.2) | 44 | 63.4 | 148 | (35.3) | 28 | * | 11 | (79.4) | 45 | * | 11 |
| 30-39 | 92.7 | 153 | 70.3 | 321 | 32.2 | 97 | 67.4 | 63 | 69.4 | 259 | 31.2 | 61 |
| 40-49 | 89.0 | 162 | 69.5 | 252 | 32.8 | 88 | 76.6 | 93 | 66.6 | 352 | 36.3 | 88 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 91.2 | 182 | 64.6 | 344 | 33.5 | 101 | 70.8 | 75 | 70.6 | 297 | 39.3 | 71 |
| Rural | 90.8 | 178 | 72.2 | 380 | 32.4 | 113 | 77.6 | 92 | 66.9 | 360 | 33.2 | 88 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |  |
| <5 years complete | * | 6 | * | 12 | * | 5 | * | 6 | (62.4) | 25 | * | 6 |
| 5-7 years complete | (94.0) | 32 | (72.1) | 42 | * | 21 | * | 15 | 62.5 | 62 | * | 15 |
| 8-9 years complete | (85.5) | 48 | 65.0 | 122 | (46.9) | 28 | (78.3) | 33 | 66.4 | 135 | (35.9) | 31 |
| 10-11 years complete | 90.4 | 75 | 70.2 | 202 | 28.9 | 56 | (77.6) | 45 | 71.6 | 214 | (28.4) | 39 |
| 12 or more years complete | 92.8 | 194 | 68.9 | 341 | 34.7 | 100 | 74.7 | 65 | 71.3 | 204 | 46.0 | 65 |
| Religion |  |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 92.1 | 263 | 70.3 | 404 | 32.1 | 154 | 73.2 | 124 | 65.5 | 371 | 34.9 | 120 |
| Muslim | (86.5) | 36 | 59.9 | 197 | * | 22 | * | 10 | 71.4 | 177 | * | 8 |
| Christian | 88.9 | 60 | 76.9 | 124 | (37.3) | 37 | (75.7) | 33 | 74.4 | 109 | (40.0) | 31 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | (95.3) | 44 | 67.4 | 68 | (38.5) | 28 | (78.4) | 27 | 68.0 | 72 | (36.9) | 26 |
| Other backward class | 88.3 | 203 | 68.8 | 441 | 31.9 | 124 | 72.0 | 80 | 69.7 | 385 | 40.5 | 76 |
| Other ${ }^{1}$ | 94.8 | 103 | 69.0 | 201 | 30.3 | 54 | 75.0 | 53 | 67.5 | 179 | 31.2 | 50 |
| Total | 91.0 | 360 | 68.6 | 724 | 32.9 | 213 | 74.5 | 167 | 68.6 | 656 | 35.9 | 159 |

 with no schooling, and women who don't know their caste/tribe, who are not shown separately.
${ }^{1}$ Not belonging to scheduled caste, scheduled tribe, or other backward class
Table 98 Participation in decision making
Percent distribution of currently married women and men age 15-49 by who usually make decisions about specific issues, by residence, Kerala, 2019-21

| Decision | According to women, person who usually makes the decision |  |  |  |  |  | According to men, person who usually makes the decision |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mainly respondent | Responden and husband jointly | Mainly husband | $\begin{gathered} \text { Someone } \\ \text { else } \\ \hline \end{gathered}$ | Other | Total | Mainly respondent | espondent <br> and <br> wife <br> jointly | Mainly wife | Someone else | Total |
| URBAN |  |  |  |  |  |  |  |  |  |  |  |
| Own health care | 16.7 | 64.4 | 18.5 | 0.4 | 0.2 | 100.0 | 33.7 | 56.8 | 9.4 | 0.0 | 100.0 |
| Major household purchases | 10.8 | 68.2 | 18.1 | 2.7 | 0.2 | 100.0 | 18.1 | 75.7 | 5.5 | 0.7 | 100.0 |
| Visits to her family or relatives | 11.3 | 71.6 | 16.9 | 0.2 | 0.0 | 100.0 | na | na | na | na | na |
| RURAL |  |  |  |  |  |  |  |  |  |  |  |
| Own health care | 18.0 | 66.6 | 15.4 | 0.0 | 0.0 | 100.0 | 26.6 | 63.7 | 9.8 | 0.0 | 100.0 |
| Major household purchases | 15.4 | 67.8 | 14.6 | 2.1 | 0.1 | 100.0 | 14.3 | 81.0 | 4.7 | 0.0 | 100.0 |
| Visits to her family or relatives | 8.1 | 78.1 | 13.7 | 0.0 | 0.1 | 100.0 | na | na | na | na | na |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |
| Own health care | 17.3 | 65.5 | 16.9 | 0.2 | 0.1 | 100.0 | 29.8 | 60.6 | 9.6 | 0.0 | 100.0 |
| Major household purchases | 13.2 | 68.0 | 16.3 | 2.4 | 0.1 | 100.0 | 16.0 | 78.7 | 5.1 | 0.3 | 100.0 |
| Visits to her family or relatives | 9.6 | 74.9 | 15.3 | 0.1 | 0.1 | 100.0 | na | na | na | na | na |

na $=$ Not applicable
Table 99 Decision making by background characteristics
Percentage of currently married women and currently married men age 15-49 who usually make specific decisions either by themselves or jointly with their spouse, by background characteristics, Kerala, 2019-21

| Percentage of currently marri Kerala, 2019-21 | women and | urrently mar | ried men age | 5-49 who usually | ake specific decis | ions either by | themselves | or jointly wit | their spouse, by | background charac | ristics, |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{r} \text { centage of we } \\ \text { alon } \\ \hline \end{array}$ | omen who us e or jointly wit | ally make specific their husband | ecisions |  | Percentage | f men who or join | sually make specific $y$ with their wife | ic decisions alone |  |
| Background characteristic | Own health care | Making major household purchases | Visits to her family or relatives | Percentage who participate in all three decisions | Percentage 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 |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 20-24 | 76.2 | 69.5 | 79.3 | 56.5 | 10.9 | 101 | * | * | * | * | 2 |
| 25-29 | 76.0 | 80.9 | 80.3 | 66.6 | 9.1 | 169 | (89.5) | (96.5) | (86.0) | (0.0) | 44 |
| 30-39 | 86.5 | 82.9 | 85.8 | 72.7 | 4.7 | 519 | 92.3 | 94.3 | 89.2 | 2.6 | 263 |
| 40-49 | 82.8 | 81.7 | 85.9 | 69.6 | 5.1 | 467 | 89.2 | 94.6 | 85.1 | 1.4 | 370 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 81.0 | 79.0 | 82.9 | 66.4 | 6.4 | 618 | 90.6 | 93.8 | 86.6 | 2.2 | 306 |
| Rural | 84.6 | 83.2 | 86.2 | 72.2 | 5.4 | 642 | 90.2 | 95.3 | 87.0 | 1.4 | 373 |
| Schooling |  |  |  |  |  |  |  |  |  |  |  |
| <5 years complete | * | * | * | * | * | 19 | (95.2) | (93.2) | (93.2) | (4.8) | 25 |
| 5-7 years complete | 82.3 | 76.2 | 78.5 | 65.2 | 9.6 | 88 | 84.1 | 91.2 | 79.1 | 3.9 | 64 |
| $8-9$ years complete | 80.1 | 79.9 | 81.9 | 67.8 | 7.5 | 199 | 92.4 | 98.0 | 91.1 | 0.7 | 138 |
| 10-11 years complete | 83.2 | 84.2 | 83.1 | 70.1 | 4.4 | 306 | 92.4 | 95.2 | 87.6 | 0.0 | 229 |
| 12 or more years complete | 83.5 | 81.2 | 87.1 | 70.1 | 5.3 | 637 | 88.9 | 94.5 | 86.0 | 2.6 | 206 |
| Employment (past 12 months) |  |  |  |  |  |  |  |  |  |  |  |
| Employed | 87.1 | 84.2 | 88.3 | 73.1 | 2.4 | 365 | 90.2 | 94.5 | 86.6 | 1.8 | 662 |
| Employed, for cash | 87.3 | 84.6 | 88.6 | 73.7 | 2.4 | 360 | 90.4 | 94.7 | 86.7 | 1.6 | 656 |
| Not employed | 81.1 | 79.9 | 83.0 | 67.8 | 7.3 | 895 | * | * | , | , | 17 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 80.6 | 77.3 | 85.5 | 64.3 | 5.9 | 102 | 89.3 | 95.0 | 86.0 | 1.7 | 164 |
| 1-2 | 84.0 | 81.9 | 85.0 | 70.1 | 5.4 | 920 | 90.7 | 94.0 | 86.4 | 1.7 | 419 |
| 3-4 | 79.6 | 80.2 | 82.3 | 68.8 | 7.8 | 232 | 90.8 | 97.5 | 90.4 | 2.1 | 94 |
| Household structure ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Nuclear | 82.5 | 82.5 | 85.7 | 69.9 | 5.4 | 518 | 88.7 | 93.3 | 85.0 | 3.0 | 252 |
| Non-nuclear | 83.0 | 80.2 | 83.8 | 68.9 | 6.3 | 742 | 91.4 | 95.5 | 87.9 | 1.0 | 427 |

Table 99 Decision making by background characteristics-Continued
 Kerala, 2019-21

| Background characteristic | Percentage of women who usually make specific decisions alone or jointly with their husband |  |  |  |  | Percentage of men who usually make specific decisions alone or jointly with their wife |  |  |  |  | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Own health care | Making major household purchases | Visits to her family or relatives | Percentage who participate in all three decisions | Percentage 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 |  |
| Religion |  |  |  |  |  |  |  |  |  |  |  |
| Hindu | 84.4 | 82.7 | 86.4 | 71.1 | 4.6 | 672 | 90.2 | 94.6 | 86.2 | 1.3 | 386 |
| Muslim | 77.8 | 77.0 | 79.1 | 63.1 | 9.1 | 403 | 94.0 | 97.4 | 93.0 | 1.6 | 182 |
| Christian | 87.9 | 84.5 | 90.0 | 76.5 | 3.9 | 184 | 85.0 | 90.2 | 78.7 | 3.4 | 111 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 84.5 | 79.4 | 87.1 | 74.1 | 6.2 | 107 | 93.2 | 90.9 | 85.8 | 1.7 | 75 |
| Scheduled tribe | (90.7) | (85.0) | (78.7) | (71.5) | (7.8) | 20 | (97.1) | (90.1) | (87.1) | (0.0) | 16 |
| Other backward class | 81.3 | 82.2 | 84.7 | 67.6 | 5.1 | 783 | 91.2 | 94.6 | 87.7 | 1.9 | 396 |
| Other | 85.4 | 78.9 | 83.9 | 71.5 | 7.5 | 349 | 86.6 | 96.4 | 84.7 | 1.7 | 186 |
| Total | 82.8 | 81.1 | 84.6 | 69.3 | 5.9 | 1,260 | 90.4 | 94.7 | 86.8 | 1.8 | 679 |



 remaining households are non-nuclear households.
Table 100 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, and among women who own a mobile phone, percentage who use it for financial transactions by background characteristics, Kerala, 2019-21

| Background characteristic | Women's access to money |  | Women's knowledge and use of microcredit programmes |  | Percentage of women allowed to go to three specified places alone ${ }^{1}$ | Number of women | Percentage who use mobile phone for financial transactions |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |  |  |  | Number of women who have a mobile phone |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 8.2 | 62.3 | 35.9 | 1.9 | 2.8 | 204 | 11.9 | 77 |
| 20-24 | 41.6 | 73.5 | 52.9 | 1.0 | 10.5 | 228 | 35.0 | 208 |
| 25-29 | 64.2 | 82.6 | 60.8 | 11.5 | 11.0 | 193 | 30.1 | 183 |
| 30-39 | 62.0 | 83.8 | 62.6 | 13.4 | 17.3 | 538 | 21.9 | 521 |
| 40-49 | 63.5 | 80.2 | 61.4 | 12.3 | 20.8 | 520 | 16.7 | 468 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 54.4 | 78.9 | 56.3 | 9.4 | 14.1 | 816 | 23.8 | 703 |
| Rural | 52.5 | 78.2 | 58.6 | 10.2 | 15.8 | 867 | 21.5 | 754 |
| Schooling |  |  |  |  |  |  |  |  |
| <5 years complete | (46.4) | (63.0) | (41.3) | (2.0) | (7.6) | 24 | * | 16 |
| 5-7 years complete | 59.2 | 86.4 | 56.0 | 14.7 | 25.6 | 100 | 6.1 | 83 |
| 8-9 years complete | 47.0 | 72.3 | 55.6 | 13.3 | 15.9 | 243 | 8.8 | 199 |
| 10-11 years complete | 45.6 | 74.7 | 58.0 | 15.8 | 14.8 | 424 | 12.9 | 331 |
| 12 or more years complete | 58.4 | 81.7 | 58.8 | 5.7 | 13.8 | 881 | 32.0 | 820 |
| Employment (past 12 months) |  |  |  |  |  |  |  |  |
| Employed | 87.3 | 94.6 | 66.5 | 15.4 | 26.9 | 439 | 31.7 | 412 |
| Employed, for cash | 87.5 | 94.6 | 66.5 | 15.3 | 27.1 | 434 | 31.6 | 407 |
| Not employed | 41.5 | 72.8 | 54.3 | 7.8 | 10.7 | 1,244 | 19.0 | 1,045 |
| Number of living children |  |  |  |  |  |  |  |  |
| 0 | 30.0 | 71.0 | 47.6 | 4.2 | 10.2 | 477 | 29.4 | 320 |
| 1-2 | 66.1 | 83.2 | 63.0 | 13.0 | 16.9 | 962 | 23.6 | 911 |
| 3-4 | 49.2 | 75.5 | 54.8 | 7.7 | 16.5 | 239 | 9.1 | 221 |
|  |  |  |  |  |  |  |  | Continued... |

Table 100 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, and among women who own a mobile phone, percentage who use it for financial transactions by background characteristics, Kerala, 2019-21

| Background characteristic | Women's access to money |  | Women's knowledge and use of microcredit programmes |  | Percentage of women allowed to go to three specified places alone ${ }^{1}$ | Number of women | Percentage who use mobile phone for financial transactions | Number of women who have a mobile phone |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |  |  |  |  |
| Household structure ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Nuclear | 50.7 | 78.6 | 55.7 | 9.9 | 15.0 | 788 | 20.3 | 657 |
| Non-nuclear | 55.8 | 78.5 | 59.1 | 9.7 | 15.0 | 895 | 24.5 | 800 |
| Religion |  |  |  |  |  |  |  |  |
| Hindu | 57.1 | 81.8 | 62.3 | 12.3 | 16.4 | 920 | 27.7 | 794 |
| Muslim | 45.9 | 71.8 | 48.4 | 6.3 | 12.1 | 505 | 10.8 | 430 |
| Christian | 55.0 | 80.0 | 57.9 | 7.8 | 15.5 | 257 | 27.1 | 233 |
| Caste/tribe |  |  |  |  |  |  |  |  |
| Scheduled caste | 60.5 | 82.3 | 59.7 | 14.3 | 21.6 | 157 | 14.4 | 129 |
| Scheduled tribe | (47.6) | (83.2) | (55.7) | (16.1) | (10.0) | 27 | (21.0) | 18 |
| Other backward class | 51.3 | 77.7 | 59.2 | 9.5 | 14.8 | 1,051 | 21.2 | 904 |
| Other | 56.1 | 78.7 | 52.6 | 8.3 | 13.3 | 447 | 28.2 | 406 |
| Total | 53.4 | 78.5 | 57.5 | 9.8 | 15.0 | 1,683 | 22.6 | 1,457 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes women with no schooling, women who are employed but not for cash, women with 5 or more living children, 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. The remaining households are non-nuclear households. individuals. The remaining households are non-nuclear households.
Table 101 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, 2019-21

| Background characteristic | Women |  |  | Number of women | Among women who have a mobile phone, percentage who can read SMS messages | Number of women | Men |  | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Own a house alone or jointly | Own land alone or jointly | Have a mobile phone that they themselves use |  |  |  | Own a house alone or jointly | Own land alone or jointly |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 7.5 | 3.9 | 37.8 | 204 | 100.0 | 77 | 26.7 | 13.2 | 215 |
| 20-24 | 13.8 | 6.9 | 91.1 | 228 | 97.7 | 208 | 28.2 | 13.2 | 182 |
| 25-29 | 23.0 | 15.0 | 94.9 | 193 | 97.6 | 183 | 53.8 | 32.6 | 150 |
| 30-34 | 22.2 | 10.2 | 97.7 | 257 | 94.2 | 251 | 53.5 | 22.0 | 159 |
| 35-39 | 26.1 | 11.9 | 96.1 | 281 | 85.9 | 270 | 64.4 | 33.8 | 197 |
| 40-44 | 35.5 | 15.9 | 90.2 | 238 | 77.6 | 215 | 71.6 | 26.2 | 187 |
| 45-49 | 37.9 | 15.2 | 89.8 | 282 | 71.8 | 254 | 77.0 | 35.0 | 210 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 22.9 | 9.5 | 86.2 | 816 | 88.6 | 703 | 48.6 | 22.5 | 599 |
| Rural | 26.1 | 13.3 | 86.9 | 867 | 86.6 | 754 | 58.0 | 27.3 | 700 |
| Religion |  |  |  |  |  |  |  |  |  |
| Hindu | 23.6 | 11.3 | 86.3 | 920 | 88.0 | 794 | 54.0 | 25.8 | 742 |
| Muslim | 25.4 | 12.6 | 85.0 | 505 | 84.5 | 430 | 55.6 | 25.8 | 337 |
| Christian | 26.5 | 9.9 | 90.5 | 257 | 91.5 | 233 | 49.5 | 21.4 | 221 |
| Caste/tribe |  |  |  |  |  |  |  |  |  |
| Scheduled caste | 26.6 | 7.5 | 81.9 | 157 | 81.5 | 129 | 54.9 | 34.1 | 138 |
| Scheduled tribe | (30.3) | (9.0) | (66.1) | 27 | (63.8) | 18 | 56.5 | 27.4 | 30 |
| Other backward class | 22.5 | 10.2 | 86.0 | 1,051 | 88.1 | 904 | 52.0 | 21.2 | 767 |
| Other | 28.4 | 16.0 | 90.8 | 447 | 89.2 | 406 | 56.3 | 29.5 | 351 |

Table 101 Ownership of assets-Continued
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, 2019-21

| Background characteristic | Women |  |  | Number of women | Among women who have a mobile phone, percentage who can read SMS messages | Number of women | Men |  | $\begin{gathered} \text { Number of } \\ \text { men } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Own a house alone or jointly | Own land alone or jointly | Have a mobile phone that they themselves use |  |  |  | Own a house alone or jointly | $\qquad$ |  |
| Schooling |  |  |  |  |  |  |  |  |  |
| No schooling | * | * | * | 11 | * | 7 | (70.9) | (41.8) | 30 |
| <5 years complete | (45.7) | (1.3) | (68.3) | 24 | * | 16 | (76.6) | (30.1) | 26 |
| 5-7 years complete | 38.6 | 7.5 | 83.1 | 100 | 42.1 | 83 | 79.8 | 28.8 | 79 |
| $8-9$ years complete | 23.5 | 11.8 | 81.9 | 243 | 65.5 | 199 | 59.6 | 29.4 | 212 |
| 10-11 years complete | 25.9 | 12.2 | 78.1 | 424 | 90.9 | 331 | 50.5 | 22.0 | 399 |
| 12 or more years complete | 22.0 | 11.8 | 93.1 | 881 | 98.3 | 820 | 47.8 | 24.0 | 553 |
| Household structure ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Nuclear | 26.9 | 10.3 | 83.4 | 788 | 85.1 | 657 | 53.1 | 22.1 | 633 |
| Non-nuclear | 22.4 | 12.5 | 89.4 | 895 | 89.6 | 800 | 54.2 | 27.9 | 666 |
| Total age 15-49 | 24.5 | 11.5 | 86.6 | 1,683 | 87.5 | 1,457 | 53.6 | 25.1 | 1,299 |
| Age 50-54 | na | na | na | na | na | na | 88.4 | 43.6 | 174 |
| Total age 15-54 | na | na | na | na | na | na | 57.8 | 27.3 | 1,473 |

 don't know their caste/tribe, who are not shown separately. na = Not applicable
 remaining households are non-nuclear households.
Table 102 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，2019－21

|  | Ever－married |  | Never married |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reason／behaviour | Women | Men | Women | Men | Women | Men |

Percentage who agree that a husband is justified in hitting
or beating his wife if：
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$82.4 \quad 86.4$ $\begin{array}{ll}82.4 & 86.4 \\ 86.8 & 86.6\end{array}$

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55.3 82.4
86.8
84.2 73.4
6.1 ®
 ェั 1,317 She goes out without telling him
She neglects the house or children
She argues with him
She argues with him
She refuses to have sexual intercourse with him She doesn＇t cook properly
He suspects her of being unfaithful
She shows disrespect for in－laws
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
Knows her husband has sex with other women Is tired or not in the mood
Percentage who agree with all three reasons
Percentage who agree with all three reasons
Percentage who agree with none of the three reasons
Percentage who agree that when a wife refuses to have sex
with her husband，he has the right to：
Get angry and reprimand her
Refuse to give her financial support
Use force to have sex even if she doesn＇t want to Have sex with another woman
Percentage who agree with all four behaviours Percentage who agree with none of the four behaviours Number of respondents

[^21]Table 103 Gender role attitudes by background characteristics
ercentage 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
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, 2019-21

| Background characteristic | Percentage who agree that a husband is justified in hitting or beating his wife for at least one specified reason ${ }^{1}$ |  | 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 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women | Men | Women | Men | Men | Women | Men |
| Age |  |  |  |  |  |  |  |
| 15-19 | 44.2 | 60.5 | 64.0 | 70.7 | 57.9 | 204 | 215 |
| 20-24 | 49.3 | 57.3 | 72.3 | 72.5 | 63.9 | 228 | 182 |
| 25-29 | 51.9 | 59.1 | 71.1 | 76.1 | 67.7 | 193 | 150 |
| 30-39 | 53.5 | 61.0 | 71.7 | 75.1 | 63.3 | 538 | 355 |
| 40-49 | 55.9 | 69.4 | 74.3 | 77.4 | 67.8 | 520 | 397 |
| Residence |  |  |  |  |  |  |  |
| Urban | 51.0 | 65.5 | 73.0 | 71.9 | 58.0 | 816 | 599 |
| Rural | 53.7 | 60.4 | 70.2 | 77.4 | 69.8 | 867 | 700 |
| Schooling |  |  |  |  |  |  |  |
| No schooling |  |  |  |  |  |  |  |
| <5 years complete | * | (58.8) | * | (69.3) | (57.7) | 11 | 30 |
| 5-7 years complete | (60.2) | (75.9) | (56.0) | (77.6) | (65.3) | 24 | 26 |
| $8-9$ years complete | 47.5 | 75.8 | 69.7 | 72.5 | 66.6 | 100 | 79 |
| 10-11 years complete | 57.1 | 68.3 | 74.8 | 72.2 | 63.8 | 243 | 212 |
| 12 or more years complete | 52.5 | 65.9 | 67.7 | 73.9 | 64.2 | 424 | 399 |
| Employment (past 12 months) |  |  |  |  |  |  |  |
| Employed | 51.7 | 64.8 | 72.9 | 76.2 | 66.4 | 439 | 971 |
| Employed, for cash | 51.6 | 64.7 | 73.2 | 76.2 | 66.5 | 434 | 962 |
| Not employed | 52.6 | 56.6 | 71.1 | 70.8 | 58.4 | 1,244 | 328 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 41.7 | 60.8 | 65.0 | 72.5 | 61.5 | 366 | 604 |
| Currently married | 55.7 | 64.1 | 73.3 | 77.0 | 67.1 | 1,260 | 679 |
| Widowed/divorced/separated/deserted | 46.6 | * | 76.5 | * | * | 57 | 16 |
|  |  |  |  |  |  |  | ontinue |

Table 103 Gender role attitudes by background characteristics-Continued

 any of the four specified behaviours, by background characteristics, Kerala, 2019-21

| Background characteristic | Percentage who agree that a husband is justified in hitting or beating his wife for at least one specified reason ${ }^{1}$ |  | 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 ${ }^{3}$ <br> Men | Number |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women | Men | Women | Men |  | Women | Men |
| Number of living children |  |  |  |  |  |  |  |
| 0 | 45.1 | 61.8 | 65.4 | 72.7 | 62.8 | 477 | 775 |
| 1-2 | 54.8 | 63.7 | 72.6 | 78.4 | 66.5 | 962 | 428 |
| 3-4 | 57.8 | 66.0 | 80.1 | 75.5 | 67.4 | 239 | 94 |
| Household structure ${ }^{4}$ |  |  |  |  |  |  |  |
| Nuclear | 50.0 | 64.5 | 71.8 | 76.0 | 64.3 | 788 | 633 |
| Non-nuclear | 54.4 | 61.1 | 71.4 | 73.7 | 64.4 | 895 | 666 |
| Religion |  |  |  |  |  |  |  |
| Hindu | 50.7 | 65.1 | 70.9 | 75.5 | 66.9 | 920 | 742 |
| Muslim | 55.0 | 57.7 | 71.6 | 74.3 | 61.9 | 505 | 337 |
| Christian | 53.1 | 62.5 | 73.9 | 73.4 | 59.7 | 257 | 221 |
| Caste/tribe |  |  |  |  |  |  |  |
| Scheduled caste | 55.4 | 72.2 | 65.8 | 72.8 | 73.0 | 157 | 138 |
| Scheduled tribe | (39.9) | 61.1 | (73.8) | 71.3 | 76.3 | 27 | 30 |
| Other backward class | 50.5 | 62.5 | 74.3 | 76.4 | 63.9 | 1,051 | 767 |
| Other | 56.3 | 60.2 | 67.3 | 73.9 | 60.6 | 447 | 351 |
| Total | 52.4 | 62.7 | 71.6 | 74.8 | 64.4 | 1,683 | 1,299 |

[^22]Table 104 Experience of physical and sexual violence
Percentage of women age 18-49 who have ever experienced physical or sexual violence; among those who have experienced physical violence, the person committing the violence, by marital status, Kerala, 2019-21

| Type of violence/perpetrator | Ever-married | Never married | Total |
| :--- | :---: | :---: | :---: |
|  |  |  |  |
| Type of violence experienced |  |  |  |
| Physical violence only | 9.4 | 2.5 | 8.4 |
| Sexual violence only | 0.4 | 0.0 | 0.4 |
| Physical and sexual violence | 1.1 | 0.0 | 1.0 |
| Physical or sexual violence |  | 2.5 | 9.7 |
|  |  |  |  |
| Number of women |  | 185 | 1,178 |
|  |  |  |  |
| Person committing physical violence ${ }^{1}$ | 89.6 | na |  |
| Current husband | 0.5 | na | 85.7 |
| Former husband | 5.6 | $*$ | 0.4 |
| Father/step-father | 6.3 | 6 | 6.4 |
| Mother/step-mother | 4.6 | $*$ | 5.7 |
| Sister/brother | 0.9 | $*$ | 0.9 |
| Other relative | 1.1 |  | 1.0 |
| Other |  |  |  |
|  | 105 | 5 | 110 |
| Number who experienced physical violence since age 15 |  |  |  |

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. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na = Not applicable
${ }^{1}$ Women can report more than one person who committed the violence

## Table 105 Experience of violence during pregnancy

Among women age 18-49 who have ever been pregnant, percentage who have ever experienced physical violence during pregnancy, by background characteristics, Kerala, 2019-21

| Background characteristic | Percentage who experienced violence during pregnancy | Number of women who have ever been pregnant |
| :---: | :---: | :---: |
| Age |  |  |
| 20-24 | 1.8 | 68 |
| 25-29 | 1.1 | 112 |
| 30-39 | 0.6 | 388 |
| 40-49 | 0.0 | 373 |
| Residence |  |  |
| Urban | 0.5 | 455 |
| Rural | 0.5 | 487 |
| Marital status |  |  |
| Currently married | 0.5 | 908 |
| Widowed/divorced/separated/deserted | (0.0) | 34 |
| Number of living children |  |  |
| 0 | (0.0) | 30 |
| 1-2 | 0.5 | 729 |
| 3-4 | 0.7 | 178 |
| Schooling |  |  |
| 5-7 years complete | 0.7 | 68 |
| 8-9 years complete | 0.0 | 166 |
| 10-11 years complete | 0.5 | 252 |
| 12 or more years complete | 0.7 | 439 |
| Religion |  |  |
| Hindu | 0.4 | 510 |
| Muslim | 0.6 | 296 |
| Christian | 0.4 | 135 |
| Caste/tribe |  |  |
| Scheduled caste | 0.0 | 83 |
| Scheduled tribe | (0.0) | 14 |
| Other backward class | 0.5 | 595 |
| Other | 0.6 | 248 |
| Total | 0.5 | 942 |

Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes women age 18-19, women with 5 or more living children, women with no schooling or less than 5 years of schooling, and women who don't know their caste/tribe, who are not shown separately.

Table 106 Forms of spousal violence
Percentage of ever-married women age 18-49 who have experienced various forms of violence committed by their husband ever and in the 12 months preceding the survey, Kerala, 2019-21

| Type of violence | Ever ${ }^{1}$ | In the past 12 months |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Often | Sometimes | Often or sometimes |
| Physical violence |  |  |  |  |
| Any form of physical violence | 9.5 | 1.4 | 5.1 | 6.5 |
| Pushed her, shook her, or threw something at her | 5.5 | 0.3 | 3.3 | 3.7 |
| Twisted her arm or pulled her hair | 3.7 | 0.4 | 3.0 | 3.4 |
| Slapped her | 7.2 | 0.9 | 3.6 | 4.5 |
| Punched her with his fist or with something that could hurt her | 1.8 | 0.4 | 0.9 | 1.3 |
| Kicked her, dragged her, or beat her up | 2.9 | 0.2 | 1.5 | 1.7 |
| Tried to choke her or burn her on purpose | 0.2 | 0.0 | 0.2 | 0.2 |
| Threatened her or attacked her with a knife, gun, or any other weapon | 0.8 | 0.0 | 0.3 | 0.3 |
| Sexual violence |  |  |  |  |
| Any form of sexual violence | 1.5 | 0.1 | 0.9 | 1.1 |
| Physically forced her to have sexual intercourse with him even when she did not want to | 1.3 | 0.0 | 0.8 | 0.8 |
| Physically forced her to perform any sexual acts she did not want to | 0.1 | 0.0 | 0.1 | 0.1 |
| Forced her with threats or in any other way to perform sexual acts she did not want to | 0.7 | 0.1 | 0.5 | 0.6 |
| Emotional violence |  |  |  |  |
| Any form of emotional violence | 6.9 | 0.9 | 5.4 | 6.3 |
| Said or did something to humiliate her in front of others | 3.3 | 0.4 | 2.4 | 2.8 |
| Threatened to hurt or harm her or someone close to her | 1.1 | 0.1 | 0.9 | 1.1 |
| Insulted her or made her feel bad about herself | 5.6 | 0.7 | 4.5 | 5.2 |
| Any form of physical and/or sexual violence | 9.9 | 1.5 | 5.3 | 6.9 |
| Any form of physical and sexual violence | 1.1 | 0.0 | 0.7 | 0.7 |
| Any form of physical and/or sexual and/or emotional violence | 13.1 | 2.0 | 8.1 | 10.1 |
| Any form of physical and sexual and emotional violence | 0.9 | 0.0 | 0.5 | 0.5 |
| Any violence by women against their husband ${ }^{2}$ | 0.9 | 0.1 | 0.5 | 0.6 |
| Number of ever-married women | 993 | 993 | 993 | 993 |

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 107 Spousal violence by background characteristics
Percentage of ever-married women age 18-49 by whether they have ever experienced emotional, physical, or sexual violence committed by their husband, according to background characteristics, Kerala, 2019-21

| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical or sexual violence | Emotional, physical, or sexual violence | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |
| 20-24 | 5.5 | 5.5 | 1.3 | 5.5 | 5.5 | 76 |
| 25-29 | 5.7 | 5.7 | 1.8 | 6.7 | 10.7 | 127 |
| 30-39 | 5.8 | 9.8 | 1.0 | 10.2 | 12.7 | 403 |
| 40-49 | 8.6 | 11.2 | 2.1 | 11.5 | 15.7 | 384 |
| Residence |  |  |  |  |  |  |
| Urban | 8.9 | 9.4 | 1.8 | 9.9 | 14.4 | 476 |
| Rural | 5.1 | 9.7 | 1.3 | 9.9 | 11.9 | 517 |
| Schooling |  |  |  |  |  |  |
| 5-7 years complete | 9.0 | 5.5 | 0.0 | 5.5 | 12.2 | 72 |
| $8-9$ years complete | 7.5 | 10.0 | 1.8 | 10.7 | 14.9 | 170 |
| 10-11 years complete | 7.8 | 10.9 | 1.4 | 11.0 | 14.9 | 263 |
| 12 or more years complete | 6.1 | 8.5 | 1.7 | 8.9 | 11.0 | 470 |
| Employment (past 12 months) |  |  |  |  |  |  |
| Not employed | 5.0 | 7.2 | 0.8 | 7.5 | 10.3 | 692 |
| Employed for cash | 11.4 | 14.5 | 3.3 | 15.3 | 19.5 | 298 |
| Marital status |  |  |  |  |  |  |
| Currently married | 6.2 | 8.5 | 1.6 | 8.9 | 12.0 | 951 |
| Widowed | (9.0) | (12.4) | (0.0) | (12.4) | (15.9) | 26 |
| Marital duration ${ }^{1}$ |  |  |  |  |  |  |
| Married only once | 7.0 | 9.5 | 1.5 | 9.9 | 13.2 | 979 |
| $0-4$ years | 5.7 | 4.8 | 0.7 | 4.8 | 6.1 | 129 |
| 5-9 years | 3.8 | 8.0 | 2.0 | 8.8 | 10.3 | 152 |
| 10 or more years | 7.9 | 10.8 | 1.6 | 11.1 | 15.1 | 699 |
| Number of living children |  |  |  |  |  |  |
| 0 | 7.1 | 9.5 | 0.0 | 9.5 | 12.7 | 81 |
| 1-2 | 7.9 | 9.6 | 1.7 | 10.2 | 13.9 | 729 |
| 3-4 | 2.7 | 9.3 | 1.4 | 9.3 | 10.1 | 178 |
| Household structure ${ }^{2}$ |  |  |  |  |  |  |
| Nuclear | 6.8 | 10.9 | 1.8 | 11.8 | 15.5 | 423 |
| Non-nuclear | 7.0 | 8.5 | 1.3 | 8.5 | 11.3 | 570 |
| Religion |  |  |  |  |  |  |
| Hindu | 6.6 | 9.9 | 1.1 | 10.0 | 12.9 | 538 |
| Muslim | 7.9 | 8.2 | 3.0 | 9.1 | 13.1 | 312 |
| Christian | 6.0 | 11.3 | 0.0 | 11.3 | 14.0 | 143 |

Table 107 Spousal violence by background characteristics-Continued
Percentage of ever-married women age 18-49 by whether they have ever experienced emotional, physical, or sexual violence committed by their husband, according to background characteristics, Kerala, 2019-21
$\left.\begin{array}{lcccccc}\hline & \begin{array}{c}\text { Emotional } \\ \text { violence }\end{array} & \begin{array}{c}\text { Physical } \\ \text { violence }\end{array} & \begin{array}{c}\text { Sexual } \\ \text { violence }\end{array} & \begin{array}{c}\text { Physical or } \\ \text { sexual violence }\end{array} & \begin{array}{c}\text { Emotional, } \\ \text { physical, or }\end{array} \\ \text { Background characteristic violence }\end{array} \quad \begin{array}{c}\text { Number of } \\ \text { women }\end{array}\right]$

Note: Husband refers to the current husband for currently married women and the most recent husband for widowed, divorced, separated, or deserted women. Figures in parentheses are based on 25-49 unweighted cases. Total includes women age 18-19, women with no schooling or less than 5 years of schooling, women who are employed but not for cash, women who are divorced or separated or deserted, women who are married more than once, women with 5 or more children, women who don't know their caste/tribe, and women who don't know if their father ever 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. The remaining households are non-nuclear households.

Table 108 Spousal violence by husband's characteristics and empowerment indicators
Percentage of ever-married women age 18-49 who have ever suffered emotional, physical, or sexual violence committed by their husband, according to his characteristics, marital characteristics, and selected empowerment indicators, Kerala, 2019-21

| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical or sexual violence | Emotional, physical, or sexual violence | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Husband's schooling |  |  |  |  |  |  |
| <5 years complete | (9.2) | (17.6) | (5.6) | (20.8) | (23.9) | 41 |
| 5-7 years complete | 9.8 | 10.2 | 1.0 | 10.2 | 16.3 | 108 |
| 8-9 years complete | 9.9 | 13.7 | 3.8 | 14.5 | 17.9 | 169 |
| 10-11 years complete | 5.5 | 8.7 | 1.0 | 8.7 | 11.4 | 353 |
| 12 or more years complete | 5.6 | 6.3 | 0.5 | 6.6 | 9.1 | 300 |
| Husband's alcohol consumption |  |  |  |  |  |  |
| Does not drink | 4.5 | 7.0 | 1.0 | 7.5 | 9.8 | 756 |
| Gets drunk sometimes | 12.0 | 13.8 | 3.5 | 13.8 | 18.5 | 197 |
| Gets drunk often | (28.5) | (37.1) | (0.6) | (37.1) | (51.3) | 39 |
| Spousal age difference ${ }^{1}$ |  |  |  |  |  |  |
| Wife 1-4 years younger | 6.5 | 8.3 | 2.5 | 8.9 | 11.3 | 260 |
| Wife 5-9 years younger | 5.0 | 7.2 | 0.7 | 7.2 | 10.3 | 474 |
| Wife 10 or more years younger | 9.5 | 12.0 | 1.8 | 12.7 | 17.1 | 187 |
| Spousal schooling difference |  |  |  |  |  |  |
| Husband has more schooling | 4.6 | 6.6 | 0.6 | 7.0 | 8.5 | 195 |
| Wife has more schooling | 7.7 | 10.8 | 2.0 | 11.3 | 14.2 | 523 |
| Both have equal schooling | 7.1 | 9.4 | 1.3 | 9.4 | 14.5 | 269 |
| Number of marital control behaviours displayed by husband ${ }^{2}$ |  |  |  |  |  |  |
| 0 | 3.3 | 5.2 | 0.1 | 5.3 | 7.7 | 779 |
| 1-2 | 15.7 | 19.7 | 6.8 | 21.3 | 25.2 | 181 |
| Number of decisions in which women participate ${ }^{3}$ |  |  |  |  |  |  |
| 0 | 6.8 | 7.6 | 0.0 | 7.6 | 14.0 | 50 |
| 1-2 | 9.3 | 12.1 | 3.6 | 12.7 | 16.2 | 238 |
| 3 | 5.1 | 7.2 | 0.9 | 7.6 | 10.4 | 663 |
| Number of reasons for which wife beating is justified ${ }^{4}$ |  |  |  |  |  |  |
| 0 | 5.4 | 6.8 | 0.9 | 7.3 | 9.9 | 457 |
| 1-2 | 8.4 | 11.4 | 1.0 | 11.5 | 16.1 | 230 |
| 3-4 | 7.3 | 13.2 | 4.0 | 14.0 | 15.7 | 164 |
| 5-6 | 10.4 | 10.3 | 1.4 | 10.3 | 15.8 | 90 |
| 7 | 5.7 | 11.9 | 1.4 | 11.9 | 15.0 | 52 |

Table 108 Spousal violence by husband's characteristics and empowerment indicators-Continued
Percentage of ever-married women age 18-49 who have ever suffered emotional, physical, or sexual violence committed by their husband, according to his characteristics, marital characteristics, and selected empowerment indicators, Kerala, 2019-21

| 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 | 2.6 | 8.7 | 0.0 | 8.7 | 8.7 | 54 |
| 1-2 | 6.8 | 9.8 | 1.7 | 10.5 | 14.3 | 201 |
| 3 | 7.2 | 9.5 | 1.6 | 9.8 | 13.1 | 738 |
| Afraid of husband |  |  |  |  |  |  |
| Most of the time | (23.6) | (33.4) | (0.6) | (33.4) | (43.0) | 36 |
| Sometimes | 9.3 | 12.1 | 2.9 | 12.9 | 17.1 | 486 |
| Never | 3.2 | 5.1 | 0.2 | 5.1 | 6.8 | 472 |
| Total | 6.9 | 9.5 | 1.5 | 9.9 | 13.1 | 993 |

Note: Husband refers to the current husband for currently married women and the most recent husband for widowed, divorced, separated, or deserted women. Figures in parentheses are based on 25-49 unweighted cases. Total includes women whose husband has no schooling, women whose husband drinks alcohol but never gets drunk, women who are older than their husband or are the same age, women who have not attended school and whose husband has not attended school, women whose husband displayed 3-4 or 5-6 marital control behaviours, and women who are afraid of their husband most of the time, 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

Table 109 Injuries to women due to spousal violence
Percentage of ever-married women age 18-49 who have experienced physical or sexual spousal violence by types of injuries resulting from what their husband did to them, and whether they have experienced the violence ever and in the 12 months preceding the survey, Kerala, 2019-21

| Type of spousal violence experienced | Percentage of women who have had: |  |  |  | Number of ever-married women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cuts, bruises, or aches | Eye injuries, sprains, dislocations, or minor burns | Deep wounds, broken bones, broken teeth, or any other serious injury | Any of these injuries |  |
| Experienced physical violence |  |  |  |  |  |
| Ever ${ }^{1}$ | 30.3 | 2.0 | 4.6 | 30.3 | 95 |
| In the past 12 months | 43.9 | 2.9 | 6.8 | 43.9 | 64 |
| Experienced physical or sexual violence |  |  |  |  |  |
| Ever ${ }^{1}$ | 29.2 | 1.9 | 4.4 | 29.2 | 98 |
| In the past 12 months | 41.5 | 2.7 | 6.4 | 41.5 | 68 |

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 violence in the past 12 months

Table 110 Help seeking
Among women age 18-49 who have ever experienced physical or sexual violence, percentage who never sought help and never told anyone, percentage who never sought help but told someone, and percentage who sought help, Kerala, 2019-21
Help seeking Percentage
Never sought help and never told anyone ..... 57.0
Never sought help but told someone ..... 19.3
Sought help ..... 23.8
Number of women who experienced violence ..... 114

## 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 fifth National Family Health Survey (NFHS-5) 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-5 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 NFHS5 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-5 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:

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

in which

$$
z_{h i}=y_{h i}-r x_{h i}, \text { and } z_{h}=y_{h}-r x_{h}
$$

where $h \quad$ represents the stratum, which varies from 1 to $H$,
$m_{h}$ is the total number of clusters selected in the $h^{\text {th }}$ stratum,
$y_{h i} \quad$ is the sum of the weighted values of variable $y$ in the $i^{\text {th }}$ cluster in the $h^{\text {th }}$ stratum, $x_{h i} \quad$ is the sum of the weighted number of cases in the $i^{\text {th }}$ cluster in the $h^{\text {th }}$ stratum, and $f \quad$ 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-5 sample for Kerala, there were 588 clusters. Hence, 588 replications were created. The variance of a rate $r$ is calculated as follows:

$$
S E^{2}(r)=\operatorname{var}(r)=\frac{1}{k(k-1)} \sum_{i=1}^{k}\left(r_{i}-r\right)^{2}
$$

in which

$$
r_{i}=k r-(k-1) r_{(i)}
$$

where $r \quad$ is the estimate computed from the full sample of 588 clusters,
$r_{(i)} \quad$ is the estimate computed from the reduced sample of 587 clusters ( $i^{\text {th }}$ cluster excluded), and
$k \quad$ is the total number of clusters.
In addition to the standard error, the design effect (DEFT) for each estimate is 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 ( $\mathrm{R} \pm 2 \mathrm{SE}$ ) for each estimate are also computed.

Sampling errors for NFHS-5 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. Tables A.2-A. 4 present the total, urban, and rural values of the statistic $(R)$, their standard errors (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 ( $\mathrm{R} \pm 2 \mathrm{SE}$ ) 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 ).

Table A. 1 List of variables for sampling errors, Kerala, 2019-21

| Variable | Estimate | Base population |
| :---: | :---: | :---: |
| HOUSEHOLDS |  |  |
| 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 |
| WOMEN |  |  |
| 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) | Proportion | Women age 15-49 |
| Completed 10 or more years of schooling | Proportion | 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 | Proportion | Currently married women age 15-49 |
| Currently using IUD/PPIUD | Proportion | Currently married women age 15-49 |
| Currently using condom/Nirodh | 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 | Proportion | Women with at least one birth in last five years (last birth) |
| Birth registration | Proportion | De jure children under age 5 years |
| Births delivered by a skilled provider | 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 in the last two weeks | 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 | Proportion | Children under age 5 years with diarrhoea in last 2 weeks |
| Child received BCG vaccination | Proportion | Children age 12-23 months |
| Child received penta or DPT vaccination (3 doses) | Proportion | Children age 12-23 months |
| Child received polio vaccination (3 doses) | Proportion | Children age 12-23 months |
| Child received first dose of measles vaccine | Proportion | Children age 12-23 months |
| Child received penta or hepatitis B vaccination (3 doses) | Proportion | Children age 12-23 months |
| Child with all basic vaccinations | Proportion | Children age 12-23 months |
| Height-for-age, stunting (below -2SD) | Proportion | Children under age 5 years who were measured |
| Weight-for-height, wasting (below -2SD) | Proportion | Children under age 5 years who were measured |
| Weight-for-age, underweight (below -2SD) | Proportion | 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) < $18.5 \mathrm{~kg} / \mathrm{m}^{2}$ | Proportion | Women age 15-49 who were measured |
| Body mass index (BMI) $\geq 25.0 \mathrm{~kg} / \mathrm{m}^{2}$ | Proportion | Women age 15-49 who were measured |
| Waist-to-hip ratio $\geq 0.85$ | Proportion | Women age 15-49 who were measured |
| Have heard of HIV or AIDS | Proportion | Women age 15-49 |
| Have comprehensive knowledge about HIV/AIDS | Proportion | Women age 15-49 |
| Ever experienced physical or sexual violence | Proportion | Women age 15-49 |
| Total fertility rate (last 3 years) | Rate | Women |
| Neonatal mortality | Rate | 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 |
| MEN |  |  |
| 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) | Proportion | Men age 15-49 |
| Completed 10 or more years of schooling | Proportion | Men age 15-49 |
| Never married, including married gauna not performed | Proportion | 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) $<18.5 \mathrm{~kg} / \mathrm{m}^{2}$ | Proportion | Men age 15-49 who were measured |
| Body mass index (BMI) $\geq 25.0 \mathrm{~kg} / \mathrm{m}^{2}$ | Proportion | Men age 15-49 who were measured |
| Waist-to-hip ratio $\geq 0.90$ | Proportion | Men age 15-49 who were measured |
| Have heard of HIV or AIDS | Proportion | Men age 15-49 |
| Have comprehensive knowledge about HIV/AIDS | Proportion | Men age 15-49 |


| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative standard error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted | Weight |  |  |  |  |
|  |  |  | (N) | (WN) |  |  | R-2SE | R+2SE |
| HOUSEHOLDS |  |  |  |  |  |  |  |  |
| Using an improved source of drinking water | 0.949 | 0.003 | 12,330 | 12,330 | 1.415 | 0.003 | 0.943 | 0.954 |
| Using an improved sanitation facility | 0.985 | 0.002 | 12,330 | 12,330 | 1.517 | 0.002 | 0.981 | 0.988 |
| Using iodized salt | 0.993 | 0.001 | 12,300 | 12,302 | 1.579 | 0.001 | 0.991 | 0.996 |
| Sex ratio (females per 1,000 males) | 1,120.661 | 9.297 | 21,810 | 21,876 | 1.212 | 0.008 | 1,102.067 | 1,139.255 |
| WOMEN |  |  |  |  |  |  |  |  |
| No schooling (Females age 6 years and above) | 0.044 | 0.002 | 22,635 | 22,823 | 1.437 | 0.045 | 0.040 | 0.048 |
| Urban residence | 0.481 | 0.007 | 10,969 | 10,969 | 1.442 | 0.014 | 0.467 | 0.495 |
| No schooling (Women age 15-49) | 0.008 | 0.001 | 10,969 | 10,969 | 1.202 | 0.131 | 0.006 | 0.010 |
| Completed 10 or more years of schooling | 0.770 | 0.006 | 10,969 | 10,969 | 1.390 | 0.007 | 0.759 | 0.781 |
| Never married, including married gauna not performed | 0.216 | 0.004 | 10,969 | 10,969 | 1.061 | 0.019 | 0.207 | 0.224 |
| Currently married | 0.744 | 0.005 | 10,969 | 10,969 | 1.112 | 0.006 | 0.735 | 0.753 |
| Married before age 18 | 0.146 | 0.005 | 9,510 | 9,497 | 1.428 | 0.035 | 0.136 | 0.156 |
| Currently using any contraceptive method | 0.607 | 0.008 | 8,130 | 8,163 | 1.453 | 0.013 | 0.591 | 0.623 |
| Currently using a modern contraceptive method | 0.528 | 0.008 | 8,130 | 8,163 | 1.371 | 0.014 | 0.513 | 0.543 |
| Currently using a traditional contraceptive method | 0.079 | 0.005 | 8,130 | 8,163 | 1.710 | 0.065 | 0.069 | 0.089 |
| Currently using pill | 0.004 | 0.001 | 8,130 | 8,163 | 1.065 | 0.196 | 0.002 | 0.005 |
| Currently using IUD/PPIUD | 0.015 | 0.001 | 8,130 | 8,163 | 1.070 | 0.095 | 0.013 | 0.018 |
| Currently using condom/Nirodh | 0.034 | 0.002 | 8,130 | 8,163 | 1.148 | 0.068 | 0.030 | 0.039 |
| Currently using female sterilization | 0.466 | 0.007 | 8,130 | 8,163 | 1.347 | 0.016 | 0.451 | 0.481 |
| Using public health sector source of contraception | 0.571 | 0.011 | 4,571 | 4,475 | 1.439 | 0.018 | 0.550 | 0.592 |
| Unmet need for family planning | 0.125 | 0.005 | 8,130 | 8,163 | 1.261 | 0.037 | 0.115 | 0.134 |
| Want no more children | 0.645 | 0.007 | 8,130 | 8,163 | 1.338 | 0.011 | 0.631 | 0.660 |
| Want to delay next birth at least 2 years | 0.097 | 0.004 | 8,130 | 8,163 | 1.358 | 0.046 | 0.088 | 0.106 |
| Mother received four or more antenatal care (ANC) visits | 0.786 | 0.011 | 2,360 | 2,374 | 1.361 | 0.015 | 0.763 | 0.809 |
| Took iron and folic acid (IFA) for 100 days or more | 0.800 | 0.011 | 2,360 | 2,374 | 1.291 | 0.013 | 0.778 | 0.821 |
| Birth registration | 0.990 | 0.002 | 2,741 | 2,767 | 1.041 | 0.002 | 0.985 | 0.994 |
| Births delivered by a skilled provider | 1.000 | 0.000 | 2,734 | 2,743 | 0.849 | 0.000 | 0.999 | 1.000 |
| Institutional delivery | 0.998 | 0.001 | 2,734 | 2,743 | 1.011 | 0.001 | 0.996 | 0.999 |
| Postnatal check for mother within 2 days of birth | 0.932 | 0.006 | 2,360 | 2,374 | 1.214 | 0.007 | 0.919 | 0.944 |
| Postnatal check for newborn within 2 days of birth | 0.912 | 0.007 | 2,360 | 2,374 | 1.205 | 0.008 | 0.898 | 0.926 |
| Exclusive breastfeeding | 0.555 | 0.036 | 243 | 232 | 1.106 | 0.065 | 0.483 | 0.627 |
| Children with diarrhoea in the last two weeks | 0.043 | 0.005 | 2,719 | 2,730 | 1.306 | 0.120 | 0.032 | 0.053 |
| Treated with oral rehydration salt (ORS) packets | 0.611 | 0.048 | 102 | 116 | 1.047 | 0.078 | 0.515 | 0.707 |
| Children with diarrhoea taken to a health provider | 0.869 | 0.032 | 102 | 116 | 1.015 | 0.037 | 0.805 | 0.933 |
| Child received BCG vaccination | 0.976 | 0.006 | 487 | 479 | 0.923 | 0.007 | 0.963 | 0.989 |
| Child received penta or DPT vaccination (3 doses) | 0.852 | 0.018 | 487 | 479 | 1.089 | 0.021 | 0.816 | 0.888 |
| Child received polio vaccination (3 doses) | 0.841 | 0.020 | 487 | 479 | 1.167 | 0.024 | 0.801 | 0.881 |
| Child received first dose of measles vaccine | 0.889 | 0.016 | 487 | 479 | 1.075 | 0.018 | 0.857 | 0.920 |
| Child received penta or hepatitis B vaccination (3 doses) | 0.830 | 0.019 | 487 | 479 | 1.095 | 0.023 | 0.792 | 0.869 |
| Child with all basic vaccinations | 0.778 | 0.022 | 487 | 479 | 1.154 | 0.029 | 0.734 | 0.823 |
| Height-for-age, stunting (below -2SD) | 0.234 | 0.010 | 2,521 | 2,526 | 1.170 | 0.044 | 0.214 | 0.254 |
| Weight-for-height, wasting (below -2SD) | 0.158 | 0.009 | 2,471 | 2,474 | 1.235 | 0.060 | 0.139 | 0.177 |
| Weight-for-age, underweight (below -2SD) | 0.197 | 0.009 | 2,566 | 2,581 | 1.143 | 0.047 | 0.178 | 0.215 |
| Children with any anaemia | 0.394 | 0.015 | 2,222 | 2,238 | 1.386 | 0.037 | 0.365 | 0.423 |
| Women with any anaemia | 0.363 | 0.007 | 10,440 | 10,412 | 1.546 | 0.020 | 0.349 | 0.378 |
| Body mass index (BMI) < $18.5 \mathrm{~kg} / \mathrm{m}^{2}$ | 0.101 | 0.004 | 10,263 | 10,237 | 1.259 | 0.037 | 0.093 | 0.108 |
| Body mass index (BMI) $\geq 25.0 \mathrm{~kg} / \mathrm{m}^{2}$ | 0.381 | 0.006 | 10,263 | 10,237 | 1.347 | 0.017 | 0.368 | 0.394 |
| Waist-to-hip ratio $\geq 0.85$ | 0.706 | 0.009 | 10,245 | 10,217 | 1.950 | 0.012 | 0.688 | 0.724 |
| Have heard of HIV or AIDS | 0.992 | 0.002 | 1,659 | 1,683 | 1.159 | 0.002 | 0.987 | 0.997 |
| Have comprehensive knowledge about HIV/AIDS | 0.348 | 0.013 | 1,659 | 1,683 | 1.096 | 0.037 | 0.323 | 0.374 |
| Ever experienced physical or sexual violence | 0.097 | 0.011 | 1,178 | 1,178 | 1.241 | 0.111 | 0.075 | 0.118 |
| Total fertility rate (last 3 years) | 1.791 | 0.045 | 31,607 | 31,577 | 1.148 | 0.025 | 1.700 | 1.882 |
| Neonatal mortality | 3.427 | 1.127 | 2,745 | 2,755 | 1.019 | 0.329 | 1.173 | 5.680 |
| Postneonatal mortality | 0.994 | 0.632 | 2,764 | 2,783 | 1.065 | 0.636 | 0.000 | 2.259 |
| Infant mortality | 4.421 | 1.437 | 2,745 | 2,755 | 1.046 | 0.325 | 1.547 | 7.294 |
| Child mortality | 0.772 | 0.398 | 2,806 | 2,821 | 0.902 | 0.516 | 0.000 | 1.568 |
| Under-five mortality | 5.189 | 1.486 | 2,746 | 2,756 | 1.028 | 0.286 | 2.217 | 8.161 |
| MEN |  |  |  |  |  |  |  |  |
| No schooling (Males age 6 years and above) | 0.021 | 0.002 | 20,054 | 20,104 | 1.447 | 0.073 | 0.018 | 0.024 |
| Urban residence | 0.461 | 0.018 | 1,294 | 1,299 | 1.321 | 0.040 | 0.425 | 0.498 |
| No schooling (Men age 15-49) | 0.023 | 0.006 | 1,294 | 1,299 | 1.330 | 0.240 | 0.012 | 0.034 |
| Completed 10 or more years of schooling | 0.732 | 0.014 | 1,294 | 1,299 | 1.129 | 0.019 | 0.705 | 0.760 |
| Never married, including married gauna not performed | 0.465 | 0.016 | 1,294 | 1,299 | 1.142 | 0.034 | 0.433 | 0.497 |
| Currently married | 0.523 | 0.015 | 1,294 | 1,299 | 1.095 | 0.029 | 0.493 | 0.553 |
| Married before age 21 | 0.036 | 0.006 | 900 | 903 | 0.997 | 0.173 | 0.023 | 0.048 |
| Want no more children | 0.627 | 0.020 | 669 | 679 | 1.042 | 0.031 | 0.587 | 0.666 |
| Want to delay next birth at least 2 years | 0.083 | 0.012 | 669 | 679 | 1.162 | 0.149 | 0.058 | 0.108 |
| Men with any anaemia | 0.177 | 0.015 | 1,207 | 1,196 | 1.320 | 0.087 | 0.146 | 0.208 |
| Body mass index (BMI) $<18.5 \mathrm{~kg} / \mathrm{m}^{2}$ | 0.100 | 0.010 | 1,231 | 1,222 | 1.053 | 0.095 | 0.081 | 0.119 |
| Body mass index (BMI) $\geq 25.0 \mathrm{~kg} / \mathrm{m}^{2}$ | 0.363 | 0.017 | 1,231 | 1,222 | 1.179 | 0.047 | 0.329 | 0.398 |
| Waist-to-hip ratio $\geq 0.90$ | 0.568 | 0.019 | 1,230 | 1,222 | 1.350 | 0.034 | 0.530 | 0.606 |
| Have heard of HIV or AIDS | 0.993 | 0.003 | 1,294 | 1,299 | 1.094 | 0.003 | 0.988 | 0.998 |
| Have comprehensive knowledge about HIV/AIDS | 0.452 | 0.021 | 1,294 | 1,299 | 1.551 | 0.048 | 0.409 | 0.495 |

Table A. 3 Sampling errors: Urban sample, Kerala, 2019-21

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative standard error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted | Weighted |  |  |  |  |
|  |  |  | (N) | (WN) |  |  | R-2SE | R+2SE |
| HOUSEHOLDS |  |  |  |  |  |  |  |  |
| Using an improved source of drinking water | 0.965 | 0.003 | 5,047 | 5,838 | 1.286 | 0.003 | 0.958 | 0.972 |
| Using an improved sanitation facility | 0.988 | 0.003 | 5,047 | 5,838 | 1.819 | 0.003 | 0.983 | 0.994 |
| Using iodized salt | 0.995 | 0.001 | 5,033 | 5,822 | 1.284 | 0.001 | 0.993 | 0.998 |
| Sex ratio (females per 1,000 males) | 1,137.940 | 14.326 | 8,992 | 10,386 | 1.169 | 0.013 | 1,109.287 | 1,166.592 |
| WOMEN |  |  |  |  |  |  |  |  |
| No schooling (Females age 6 years and above) | 0.030 | 0.002 | 9,498 | 11,010 | 1.337 | 0.079 | 0.025 | 0.034 |
| No schooling (Women age 15-49) | 0.003 | 0.001 | 4,564 | 5,277 | 1.137 | 0.301 | 0.001 | 0.005 |
| Completed 10 or more years of schooling | 0.788 | 0.009 | 4,564 | 5,277 | 1.471 | 0.011 | 0.770 | 0.806 |
| Never married, including married gauna not performed | 0.219 | 0.006 | 4,564 | 5,277 | 0.974 | 0.027 | 0.207 | 0.231 |
| Currently married | 0.742 | 0.007 | 4,564 | 5,277 | 1.032 | 0.009 | 0.729 | 0.755 |
| Married before age 18 | 0.128 | 0.007 | 3,964 | 4,563 | 1.326 | 0.055 | 0.114 | 0.142 |
| Currently using any contraceptive method | 0.614 | 0.013 | 3,393 | 3,916 | 1.534 | 0.021 | 0.589 | 0.640 |
| Currently using a modern contraceptive method | 0.506 | 0.012 | 3,393 | 3,916 | 1.374 | 0.023 | 0.483 | 0.530 |
| Currently using a traditional contraceptive method | 0.108 | 0.010 | 3,393 | 3,916 | 1.824 | 0.090 | 0.088 | 0.127 |
| Currently using pill | 0.005 | 0.001 | 3,393 | 3,916 | 1.002 | 0.256 | 0.002 | 0.007 |
| Currently using IUD/PPIUD | 0.016 | 0.002 | 3,393 | 3,916 | 1.056 | 0.142 | 0.011 | 0.021 |
| Currently using condom/Nirodh | 0.040 | 0.004 | 3,393 | 3,916 | 1.090 | 0.092 | 0.032 | 0.047 |
| Currently using female sterilization | 0.436 | 0.012 | 3,393 | 3,916 | 1.353 | 0.026 | 0.413 | 0.459 |
| Using public health sector source of contraception | 0.513 | 0.017 | 1,775 | 2,052 | 1.390 | 0.032 | 0.480 | 0.546 |
| Unmet need for family planning | 0.130 | 0.007 | 3,393 | 3,916 | 1.267 | 0.056 | 0.115 | 0.145 |
| Want no more children | 0.632 | 0.011 | 3,393 | 3,916 | 1.319 | 0.017 | 0.610 | 0.654 |
| Want to delay next birth at least 2 years | 0.094 | 0.006 | 3,393 | 3,916 | 1.207 | 0.064 | 0.082 | 0.106 |
| Mother received four or more antenatal care (ANC) visits | 0.793 | 0.016 | 1,004 | 1,135 | 1.217 | 0.020 | 0.762 | 0.825 |
| Took iron and folic acid (IFA) for 100 days or more | 0.805 | 0.016 | 1,004 | 1,135 | 1.274 | 0.020 | 0.773 | 0.838 |
| Birth registration | 0.995 | 0.002 | 1,151 | 1,303 | 1.018 | 0.002 | 0.991 | 0.999 |
| Births delivered by a skilled provider | 0.999 | 0.001 | 1,163 | 1,318 | 0.858 | 0.001 | 0.998 | 1.001 |
| Institutional delivery | 0.997 | 0.001 | 1,163 | 1,318 | 0.862 | 0.001 | 0.995 | 1.000 |
| Postnatal check for mother within 2 days of birth | 0.931 | 0.009 | 1,004 | 1,135 | 1.058 | 0.009 | 0.914 | 0.948 |
| Postnatal check for newborn within 2 days of birth | 0.904 | 0.011 | 1,004 | 1,135 | 1.145 | 0.012 | 0.882 | 0.925 |
| Exclusive breastfeeding | 0.503 | 0.059 | 95 | 101 | 1.113 | 0.118 | 0.385 | 0.622 |
| Children with diarrhoea in the last two weeks | 0.042 | 0.008 | 1,159 | 1,313 | 1.245 | 0.181 | 0.027 | 0.057 |
| Treated with oral rehydration salt (ORS) packets | 0.659 | 0.072 | 42 | 55 | 1.031 | 0.109 | 0.515 | 0.803 |
| Children with diarrhoea taken to a health provider | 0.900 | 0.046 | 42 | 55 | 1.064 | 0.052 | 0.807 | 0.993 |
| Child received BCG vaccination | 0.982 | 0.009 | 204 | 230 | 0.944 | 0.009 | 0.965 | 1.000 |
| Child received penta or DPT vaccination (3 doses) | 0.861 | 0.027 | 204 | 230 | 1.092 | 0.031 | 0.807 | 0.915 |
| Child received polio vaccination (3 doses) | 0.858 | 0.029 | 204 | 230 | 1.133 | 0.033 | 0.801 | 0.915 |
| Child received first dose of measles vaccine | 0.870 | 0.026 | 204 | 230 | 1.080 | 0.030 | 0.819 | 0.922 |
| Child received penta or hepatitis B vaccination (3 doses) | 0.853 | 0.026 | 204 | 230 | 1.036 | 0.031 | 0.801 | 0.905 |
| Child with all basic vaccinations | 0.776 | 0.033 | 204 | 230 | 1.102 | 0.043 | 0.710 | 0.842 |
| Height-for-age, stunting (below -2SD) | 0.201 | 0.013 | 1,061 | 1,193 | 1.028 | 0.067 | 0.174 | 0.227 |
| Weight-for-height, wasting (below -2SD) | 0.160 | 0.013 | 1,039 | 1,170 | 1.102 | 0.084 | 0.133 | 0.187 |
| Weight-for-age, underweight (below -2SD) | 0.194 | 0.013 | 1,079 | 1,219 | 1.059 | 0.067 | 0.168 | 0.221 |
| Children with any anaemia | 0.389 | 0.024 | 929 | 1,060 | 1.463 | 0.063 | 0.340 | 0.438 |
| Women with any anaemia | 0.370 | 0.012 | 4,304 | 4,979 | 1.672 | 0.033 | 0.345 | 0.394 |
| Body mass index (BMI) $<18.5 \mathrm{~kg} / \mathrm{m}^{2}$ | 0.097 | 0.006 | 4,230 | 4,892 | 1.244 | 0.058 | 0.086 | 0.109 |
| Body mass index (BMI) $\geq 25.0 \mathrm{~kg} / \mathrm{m}^{2}$ | 0.404 | 0.009 | 4,230 | 4,892 | 1.235 | 0.023 | 0.385 | 0.423 |
| Waist-to-hip ratio $\geq 0.85$ | 0.711 | 0.014 | 4,225 | 4,886 | 1.974 | 0.019 | 0.683 | 0.738 |
| Have heard of HIV or AIDS | 0.999 | 0.001 | 686 | 816 | 1.008 | 0.001 | 0.996 | 1.001 |
| Have comprehensive knowledge about HIV/AIDS | 0.355 | 0.019 | 686 | 816 | 1.045 | 0.054 | 0.317 | 0.393 |
| Ever experienced physical or sexual violence | 0.091 | 0.020 | 485 | 568 | 1.489 | 0.214 | 0.052 | 0.130 |
| Total fertility rate (last 3 years) | 1.824 | 0.068 | 13,132 | 15,157 | 1.095 | 0.037 | 1.689 | 1.959 |
| Neonatal mortality | 2.621 | 1.622 | 1,164 | 1,320 | 1.077 | 0.619 | 0.000 | 5.865 |
| Postneonatal mortality | 0.903 | 0.904 | 1,169 | 1,329 | 1.027 | 1.001 | 0.000 | 2.711 |
| Infant mortality | 3.524 | 1.856 | 1,164 | 1,320 | 1.068 | 0.527 | 0.000 | 7.235 |
| Child mortality | 0.345 | 0.345 | 1,182 | 1,348 | na | 1.001 | 0.000 | 1.035 |
| Under-five mortality | 3.867 | 1.885 | 1,164 | 1,320 | 1.068 | 0.487 | 0.097 | 7.637 |
| MEN |  |  |  |  |  |  |  |  |
| No schooling (Males age 6 years and above) | 0.013 | 0.002 | 8,269 | 9,566 | 1.148 | 0.122 | 0.010 | 0.017 |
| No schooling (Men age 15-49) | 0.015 | 0.006 | 496 | 599 | 1.064 | 0.388 | 0.003 | 0.027 |
| Completed 10 or more years of schooling | 0.768 | 0.021 | 496 | 599 | 1.100 | 0.027 | 0.727 | 0.810 |
| Never married, including married gauna not performed | 0.480 | 0.026 | 496 | 599 | 1.170 | 0.055 | 0.428 | 0.533 |
| Currently married | 0.511 | 0.027 | 496 | 599 | 1.182 | 0.052 | 0.458 | 0.564 |
| Married before age 21 | 0.026 | 0.009 | 342 | 414 | 1.014 | 0.333 | 0.009 | 0.044 |
| Want no more children | 0.617 | 0.033 | 252 | 306 | 1.065 | 0.053 | 0.551 | 0.682 |
| Want to delay next birth at least 2 years | 0.071 | 0.016 | 252 | 306 | 0.986 | 0.225 | 0.039 | 0.103 |
| Men with any anaemia | 0.194 | 0.028 | 452 | 547 | 1.447 | 0.143 | 0.138 | 0.249 |
| Body mass index (BMI) $<18.5 \mathrm{~kg} / \mathrm{m}^{2}$ | 0.069 | 0.013 | 468 | 564 | 1.061 | 0.191 | 0.043 | 0.095 |
| Body mass index (BMI) $\geq 25.0 \mathrm{~kg} / \mathrm{m}^{2}$ | 0.401 | 0.027 | 468 | 564 | 1.131 | 0.067 | 0.347 | 0.454 |
| Waist-to-hip ratio $\geq 0.90$ | 0.572 | 0.033 | 468 | 564 | 1.458 | 0.059 | 0.505 | 0.638 |
| Have heard of HIV or AIDS | 0.996 | 0.003 | 496 | 599 | 1.049 | 0.003 | 0.989 | 1.002 |
| Have comprehensive knowledge about HIV/AIDS | 0.439 | 0.033 | 496 | 599 | 1.498 | 0.076 | 0.372 | 0.506 |




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For additional information on NFHS-5, visit http://www.iipsindia.ac.in or http://www.mohfw.gov.in


[^0]:    Note: The total columns include transgender persons, who are not shown separately in the male and female columns. na = Not applicable
    ${ }^{1}$ Females per 1,000 males
    ${ }^{2}$ Population age 6 and above

[^1]:    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 insurance/financing scheme

[^2]:    Note: In this table, children's age refers to their age at the start of the 2019-20 school year (assumed here to be April 2019). An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes children in households with the household head belonging to other religions, who are not shown separately.

[^3]:    Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and

[^4]:    Note: Table is based on the responses of the respondent to the household questionnaire.

[^5]:    Note: Total includes information on births to women age 15-19, women with no schooling or less than 5 years of schooling, and women who don't know their caste/tribe, which is not shown separately.

[^6]:    Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Total includes women/men with 6 or more children, who are not shown separately.
    $\mathrm{nc}=$ No cases
    ${ }^{1}$ Includes current pregnancy for women or wife's current pregnancy for men
    ${ }^{2}$ Means are calculated excluding respondents who gave non-numeric responses

[^7]:    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. Figures

[^8]:    or more children but no sons, who are not shown separately.

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

[^9]:    ${ }^{1}$ Includes nongovernmental organizations and trust hospitals/clinics

[^10]:    Note: Total includes information on births of women with no schooling or less than 5 years of schooling, births of women belonging to other religions, and births of women who don't know their caste/tribe, which is not shown separately.
    ${ }^{1}$ Excludes women who don't know the cost

[^11]:    Note: Total includes information on births of birth order 6 or more, births delivered at home, births to women belonging to other religions, births to women who don't know their caste/tribe, and births to women with no schooling or less than 5 years of schooling, which is not shown separately.
    ${ }^{1}$ Includes newborns who received a health check after the first week
    ${ }^{2}$ Includes nongovernmental organization or trust hospital/clinic

[^12]:    Note: Figures in parentheses are based on 25-49 unweighted cases.

[^13]:    ${ }^{1}$ Non-milk liquids include juice, juice drinks, clear broth, and other liquids.

[^14]:    Note: Figures in parentheses are based on 25-49 unweighted cases.
    ${ }^{1}$ Includes households in which salt could not be tested for technical or logistical reasons

[^15]:    na $=$ Not applicable
    ANC = Antenatal care
    ${ }^{1}$ Sexual intercourse with a partner who was neither a spouse nor who lived with the respondent

[^16]:    ${ }^{1}$ 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

[^17]:    Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted

[^18]:    Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes women belonging to other religions, who are not shown separately. SBP = Systolic blood pressure; DBP = Diastolic blood pressure
    ${ }^{1}$ A woman is classified as having hypertension if she has $S B P \geq 140 \mathrm{mmHg}$ or $\mathrm{DBP} \geq 90 \mathrm{mmHg}$ at the time of the survey, or she is currently taking antihypertensive 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.

[^19]:    Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes men who don't know their caste/tribe, who are not shown separately. SBP = Systolic blood pressure; DBP = Diastolic blood pressure
    ${ }^{1}$ A man is classified as having hypertension if he has $S B P \geq 140 \mathrm{mmHg}$ or $\mathrm{DBP} \geq 90 \mathrm{mmHg}$ at time of survey, or he is currently taking antihypertensive 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.

[^20]:    Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
    $\mathrm{nc}=$ No cases

[^21]:    na＝Not applicable

[^22]:     employed but not for cash, women/men with 5 or more living children, and women/men who don't know their caste/tribe, who are not shown separately.
     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.
     remaining households are non-nuclear households.

