Key Findings

- **Nutritional status of children:** Seventeen percent of children under age 5 are stunted (short for their age); 15 percent are wasted (thin for their height); and 21 percent are underweight (thin for their age).
- Early initiation of Breastfeeding: Ninety percent of children were breastfed within one hour of birth
- Exclusive breastfeeding: Eighty-two percent of children, less than age 6 months, are exclusively breastfed and the median duration is 5.2 months.
- **Breastfeeding:** Ninety-nine percent of children have ever been breastfed and the median duration of breastfeeding among children born in the three years before the survey is 30.2 months.
- Complementary foods: Generally complementary foods are introduced at the recommended age; 89 percent of breastfed children aged 6-8 months received complementary foods in addition to being breastfed within the 24 hours preceding the survey.

Nutritional status is the result of complex interactions between food consumption and the overall status of health and care practices.Nutritional intake from birth to two years of age is a key determinant of the future growth, health, and development of the child. However, faltering growth, micronutrient deficiencies, and common childhood illnesses often mark this period. Proper breastfeeding practices, including exclusive breastfeeding during the first six months of life, are crucial to the health and well-being of a child. Continued breastfeeding for a longer period improves health and nutritional status of the child. Complementary foods introduced initially around six months of age contribute to the nutritional needs of the child.

A woman's nutritional status has important implications on her health as well as the health of her children. Malnutrition in women results in reducing productivity, increasing susceptibility to infections, slow recovery from illness, and heightened risk of adverse pregnancy outcomes. For example, a woman who has poor nutritional status, short stature, anaemia, or other micronutrient deficiencies has a greater risk of obstructed labour, dying due to postpartum hemorrhage, and morbidity from various conditions. If the mother's nutritional status is unsatisfactory, her baby is at a higher risk of low weight at birth and morbidities.

This chapter focuses on the nutritional status of children and woman. It also includes information about feeding practices of infant and young children, diversity of food consumed, frequency of feeding, and micronutrient intake children and mothers. The section on nutritional status covers anthropometric assessment of the nutritional status of children aged 0-5 and of women aged 15 -49.

11.1 NUTRITIONAL STATUS OF CHILDREN

Stunting or height-for-age

Height-for-age is a measure of linear growth retardation and cumulative growth deficits. Children whose height-for-age Z-score is below minus two standard deviations (-2SD) from the median of the reference population are considered short for their age (stunted), or chronically undernourished. Children who are below minus three standard deviations (-3 SD) are considered severely stunted.

sample : children under age 5

Wasting or weight-for-height

The weight-for-height index measures body mass in relation to body height or length and discribes current nutritional status. Children whose Z-score is below minus two standard deviations (-2sd) from the median of the reference population are considered thin (wasted), or acutely undemourished. children whos weight-for-age Z-score is below minus three standard deviations (-3 SD) from the median of the reference population are considered severely wasted.

sample : children under age 5

Underweight or weight-for-age

Weight-for-age is a composite index of height-for-age and weight-for-height that accounts for both acute and chronic undernutrition. Children whose Weight-for-age Z-score is below minus two standard deviations (-2SD) from the median of the reference population are classified as underweight. Children whose weight-for-age Z-score is below minus three standard deviations (-3SD) from the median are considered severely underweight.

sample : children under age 5

Overweight in children

Children whose weight-for-height Z-score is more than two standard deviations (+2 SD) above the median of the reference population are considered overweight.

sample : children under age 5

The anthropometric data on height and weight collected in the 2016 SLDHS permit the measurement and evaluation of the nutritional status of children under the age of 5 years in Sri Lanka.

11.1.1 MEASUREMENT OF NUTRITIONAL STATUS AMONG CHILDREN UNDER THE AGE OF 5 YEARS

The 2016 SLDHS collected data on the nutritional status of children by measuring the height and weight of all children less than five years of age. Data were collected with the aim of calculating three indices: namely, weight–for–age, height–for–age and weight–for–height. Weight was measured using lightweight SECA bathroom–type scale with digital screens designed and manufactured under the authority of the United Nations Children's Fund (UNICEF). The measuring board was specially designed by SECA productions for use in survey settings. Children younger than 24 months were measured lying down on the board. Older ones were measured standing up.

The nutritional status of children in the survey population is compared with the World Health Organization (WHO) child growth standards, which are based on an international sample of ethnically, culturally and genetically diverse, healthy children living under optimum conditions that are conducive to achieving a child's full genetic growth potential (WHO, 2006).

The analysis presented in this chapter uses measurements of length/height and weight obtained for

all children under age 5 living in the households selected for the 2016 SLDHS sample. The following analysis focuses on the 8,459 children for whom complete and plausible anthropometric and age data measurements were collected.

11.1.2 STUNTING

Assessment of child nutrition using the measurement of height-for-age is of crucial importance to understand the health of children in the country. Data from the 2016 SLDHS revealed that 17 percent of the children under age 5 in Sri Lanka are stunted, and 4 percent are severely stunted (Table 11.1). The levels of stunting according to age of the child follow the traditional pattern of increasing with age, peaking at ages 24-35 months (22 percent), and then slowly declining to 14 percent among older children ages 48-59 months. There is a negative association between stunting and the level of education of the mother and wealth of the households. Place of residence also seems to impact the levels of stunting in Sri Lanka, with higher levels of stunting in children in the estate sector (32 percent) than in those of the urban and rural sectors (15 percent). The highest levels of stunting were observed in Nuwara Eliya (32 percent), followed by Kandy (26 percent) , Kegalle (23 percent), Batticaloa (22 percent), Ampara(22 percent), Mannar, Killinochchi, and Badulla (21 percent). The lowest prevalence of stunting is observed in Polonnaruwa (11 percent), followed by Puttalam and Hambantota (12 percent each, Table 11.1).



Figure 11.1 Trends in stunting of children under age 5 by district, 2006-2016

Note : Excluding Northern Province

11.1.3 WASTING

Table 11.1 also contains information about weight-for-height to identify levels of wasting for children under five years of age . The overall prevalence of wasting is 15 percent, with 3 percent identified as severely wasted. Wasting is highest among children aged 0-5 months (19 percent), while the lowest prevalence is observed among those children aged 18-23 months (13 percent). The level of education of the mother is negatively associated with wasting. The birth interval of the child does not present a clear pattern in relation to wasting.

Measures of wasting by sector of residence does not show any important differences, but higher variations are observed across districts. The higher levels of wasting are observed in Moneragala (25 percent), Mullaitivu, and Hambantota (22 percent each), compared with Matale (10 percent) and Polonnaruwa (11 percent) where lower values are observed.



Figure 11.2 Trends in Wasting of children under age 5 by district , 2006-2016.



Note : Excluding Northern Province



Figure 11.3 Trends in nutritional status of children under age 5



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	Height-for	-age ¹			Weight-for-	height				Weight-fo	r-age			
Background characteristic	Percen- tage below -3 SD	Percen- tage below -2 SD ²	Mean Z-score (SD)	Number of children	Percen- tage below -3 SD	Percen- tage below -2 SD ²	Percen- tage above +2 SD	Mean Z- score (SD)	Number of children	Percen- tage below -3 SD	Percen- tage below -2 SD ²	Percen- tage above +2 SD	Mean Z-score (SD)	Number of children
Age in months														
<6	3.1	11.6	-0.3	613	6.6	19.4	5.3	-0.6	584	4.7	14.8	1.2	-0.8	614
9-11	5.8	15.4	-0.7	370	4.5	15.4	2.2	-0.8	372	3.9	16.3	0.8	-1.0	375
12-17	4.0	18.8	-1.0	747	4.1	14.4	1.5	-0.7	745	3.9	18.4	0.8	-1.0	752
24-35	4.8	21.2	-1.1	1,652	2.0	14.0	0.9	-0.9	1,644	4.3	23.1	0.8	-1.2	1,660
36-47 48-59	4.5 2.6	16.8 13.6	-1.1 -1.0	1,650 1,670	2.7 1.9	15.3 15.4	1.7 2.2	-0.9 -0.9	1,643 1,667	4.1 3.2	23.2 20.5	0.7 1.2	-1.2 -1.2	1,652 1,677
Sex														
Male Female	4.7 3.6	17.9 16.6	-1.0 -0.9	4,066 3,804	3.3 2.7	15.4 14.7	2.2 1.7	-0.9 -0.8	4,042 3,775	3.9 4.1	20.5 20.5	1.1 0.9	-1.1 -1.1	4,088 3,821
Birth interval in months ³														
First birth ⁴	3.5	15.5	-0.9	3,027	3.2	13.9	2.2	-0.8	3,007	3.6	19.9	1.2	-1.1	3,041
<24 24-47	5.8 4.6	17.7 19.2	-0.9	380 1.511	3.0 2.9	17.0 17.0	1.7 1.7	-0.9	377	4.2 4.5	21.2 21.6	0.4	-1.2 -1.2	380
48+	4.3	18.0	-1.0	2,746	3.0	15.1	2.0	-0.9	2,724	4.2	20.3	0.6	-1.2	2,756
Mother's interview status	41	17 2	-1 0	7 663	3.0	15 1	20	-0.8	7.610	40	20.4	10	-1 1	7 701
Not interviewed but in	8.6	23.6	-1.0	56	0.5	20.1	0.0	-1.0	57	6.8	29.8	0.0	-1.4	57
Not interviewed and not in the	4.4	16.2	-0.9	150	2.6	12.0	1.8	-0.8	150	1.6	19.8	1.8	-1.1	150
Mother's nutritional status ⁶		10.2	0.0	100	2.0	12.0	1.0	0.0	100	1.0	10.0	1.0		100
Thin (BMI<18.5)	6.6	22.6	-1.2	814	4.9	24.5	0.8	-1.3	804	7.9	31.5	0.6	-1.5	816
Normal (BMI 18.5-24.9) Overweight/ obese (BMI >= 25)	4.3 3.3	18.1 15.5	-1.0 -0.9	3,415 2,751	3.2 1.9	15.7 10.8	1.7 2.6	-0.9 -0.6	3,409 2,737	4.1 2.9	22.0 15.5	0.6 1.3	-1.2 -1.0	3,440 2,764
Residence														
Urban	3.6	14.7	-0.8	1,214	1.6	12.9	2.9	-0.7	1,205	1.9	16.4	1.5	-0.9	1,220
Estate	4.0 8.8	31.7	-1.4	332	3.2	13.4	1.9	-0.9	326	4.2 7.6	20.8	0.9	-1.2	334
District	4.0	45.0	0.7	cc0	4 7	11.0		0.7	007	1.0	14.0	4.0	0.0	074
Gampaha	4.3	12.8	-0.7	756	2.6	15.9	2.0	-0.7	749	4.1	14.6	1.9	-0.9	756
Kalutara	1.7	12.5	-0.7	497	2.9	16.6	2.1	-0.9	494	2.8	20.1	1.1	-1.0	496
Matale	5.2 2.8	26.0 14.0	-1.2	549 216	2.3	9.9	3.4 1.6	-0.7 -0.8	552 215	4.9	20.6	2.1	-1.1	559 216
Nuwara Eliya	10.0	32.4	-1.5	250	3.2	11.8	1.5	-0.7	248	7.8	29.6	0.6	-1.4	250
Galle Matara	3.7 3.8	12.5 15.6	-0.8 -0.9	408 336	2.9	16.9 16.8	1.8 1.3	-1.0 -1.0	401 332	4.7 3.9	17.8 22.3	0.5	-1.1 -1.2	410 337
Hambantota	2.6	11.8	-0.9	216	3.2	21.8	0.5	-1.1	214	5.1	22.4	1.2	-1.2	217
Jaffna Mannar	1.5 4.6	13.7 20.8	-0.8 -1 1	197 41	2.2	11.7 13 1	0.8	-0.7	196 40	2.5 5.2	13.7 18.2	0.2	-1.0 -1 1	197 41
Vavuniya	6.1	18.7	-0.9	64	3.5	16.0	0.6	-0.9	61	4.9	20.3	1.0	-1.2	64
Mullaitivu Killinochchi	6.0 6.6	16.7 20.9	-0.9 -1 1	36 46	3.8 3.9	21.6 16.8	2.1	-1.0 -0.8	36 45	8.5 3.1	25.5 16.6	1.5	-1.2 -1.2	37 46
Batticaloa	3.6	20.6	-1.1	249	2.8	14.0	2.6	-0.9	248	2.8	21.4	1.5	-1.2	250
Ampara	7.2	21.9 15.5	-1.1	345 188	2.3	12.4	2.6	-0.7	342 184	3.3	18.1 22 7	0.7	-1.2	346 188
Kurunegala	2.0	17.7	-1.0	685	2.3	13.5	1.0	-0.9	683	3.3	21.9	0.4	-1.2	686
Puttalam	2.9	11.7	-0.7	276	6.5	17.2	2.5	-0.9	275	2.9	20.1	1.9	-1.0	276
Polonnaruwa	3.0	11.1	-0.8	185	2.1	11.4	2.7	-0.9	184	2.3	18.7	1.0	-1.1	185
Badulla	6.5	20.6	-1.2	293	2.6	13.1	1.4	-0.9	294	5.2	22.6	0.0	-1.3	297
Ratnapura	4.0	17.8	-1.1	440	3.7	16.0	1.0	-0.9	436	4.5	22.9	0.0	-1.2	446
	0.4	23.1	-1.2	275	4.2	10.5	2.2	-0.0	275	4.5	19.9	0.0	-1.2	200
No education	17.5	37.6	-1.6	58	1.6	17.9	0.0	-1.0	58	6.9	33.9	0.0	-1.6	58
Passed Grade 1-5	8.4	27.2	-1.4	277	4.1	17.6	1.4	-0.9	275	8.5	30.2	0.9	-1.5	278
Passed Grade 6-10 Passed G.C.E.(O/L) or	5.0	20.3	-1.1	3,368	3.7	17.5	1.7	-0.9	3,349	5.2	24.6	0.5	-1.3	3,387
equivalent	3.4	15.9	-0.9	1,705	2.5	14.9	2.6	-0.8	1,690	3.6	18.6	1.4	-1.1	1,713
equivalent	2.8	12.2	-0.7	1,868	2.4	12.2	1.9	-0.8	1,853	2.1	15.4	1.2	-0.9	1,878
	1.3	12.1	ơ.U-	444	2.0	8.7	2.8	-0.0	442	2.2	10.0	1.8	-0.7	445
Lowest	6.2	25.2	-1.3	1,595	3.6	17.3	1.5	-1.0	1,584	6.9	27.6	0.5	-1.4	1,599
Second Middle	5.4 3.3	18.9 15.9	-1.1 -0.9	1,620 1,578	4.3 3.3	18.3 15.0	1.6 1.8	-1.0 -0.9	1,601 1,572	5.4 3.4	24.5 20.9	0.7	-1.3 -1.1	1,625 1,590
Fourth	3.4	14.0	-0.8	1,679	2.2	14.1	2.2	-0.8	1,669	2.1	16.1	1.4	-1.0	1,690
Highest	2.3	11.7	-0.6	1,397	1.5	10.0	3.2	-0.6	1,390	2.1	12.5	1.8	-0.7	1,404
Total	4.1	17.3	-1.0	7,870	3.0	15.1	2.0	-0.8	7,817	4.0	20.5	1.0	-1.1	7.908

Note: Table is based on children who stayed in the household on the night before the interview. Each of the indices is expressed in standard deviation units (SD) from the Table is based on children who stayed in the household on the high benche in this table are NOT comparable to those based on the previously used NCHS/CDC/WHO reference. Table is based on children with valid dates of birth (month and year) and valid measurement of both height and weight. 1 Recumbent length is measured for children under age 2, or in the few cases when the age of the child is unknown and the child is less than 85 cm; standing height is measured for all other children who are below -3 standard deviations (SD) from the WHO Child Growth standards population median 2 Includes children who are below -3 standard deviations (SD) from the WHO Child Growth standards population median

2 Includes children who are below -3 standard deviations (SD) non-the write child Grown standards population median 3 Excludes children whose mothers were not interviewed 4 First-bom twins (triplets, etc.) are counted as first births because they do not have a previous birth interval 5 Includes children whose mothers are deceased 6 Excludes children whose mothers were not weighed and measured, children whose mothers were not interviewed, and children whose mothers are pregnant or gave birth 10 Includes children whose mothers were not weighed and measured, children whose mothers were not interviewed, and children whose mothers are pregnant or gave birth 11 Includes children whose mothers were not weighed and measured, children whose mothers are pregnant or gave birth

within the preceding 2 months. Mother's nutritional status in terms of BMI (Body Mass Index) is presented in Table 11.10. 7 For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire



11.1.4 UNDERWEIGHT

The 2016 SLDHS includes a third indicator for assessing malnutrition among children under five years of age which identified 21 percent of children as of low weight or underweight for their age, and 4 percent as severely underweight. (Table11.1) Similar to the measurements for stunting and wasting, underweight percentages increase with the age of the child, the highest level at 36-47 months of age (23 percent). Differences in the percentage of underweight children by sex, birth interval of the child, level of education, nutritional status of the mother and wealth quintiles are similar to those previously observed and described for stunting and wasting.

Place of residence again shows some interesting differences as with stunting, children living in the estate sector (30 percent) haveing a much higher prevalence of underweight than their counterparts in the urban and rural sectors (21 percent, 16 percent, respectively). Table 11.1, also reveals some differences in underweight across administrative districts. Children in Nuwara Eliya have the highest level of underweight (30 percent), followed by Mullaitivu (26 percent), Anuradhapura (25 percent) and Moneragala (24 percent). The lower levels of underweight children are observed in Jaffna (14 percent) and in Colombo (15 percent).



Note : Excluding Northern Province

11.2 INITIATION OF BREASTFEEDING

Early breastfeeding

Initiation of breastfeeding with in 1 hour of birth.

sample : Last born children who were born in the 2 years before the survey

Feeding practices play a pivotal role in determining the optimal growth and development of infants. Poor breastfeeding and undesirable complementary feeding practices have adverse consequences for the health and nutritional status of children which could affect their mental and physical development. Exclusive breastfeeding also affects mothers by physiologically suppressing the return of fertility, thereby contribute to lengthening the interval between pregnancies. The pattern of feeding a child has an important influence on both the child and the mother and is one of the key determinants of a child's nutritional status.

Early breastfeeding practices determine the successful establishment and duration of breastfeeding. Moreover, during the first three days after delivery, colostrum, an important source of nutrition and protection for the newborn, is produced and should be given to the newborn while awaiting the let-down of regular/ mature breast milk. Thus, it is recommended that children be put to the breast immediately or within one hour after birth, while discouraging pre-lacteal feeding (i.e. feeding newborns anything other than breast milk before early breastfeeding is initiated).

In 2016, almost all of the last-born children under age two (99 percent) had been breastfed at some time (ever breastfed). About 90 percent of the children were breastfed within one hour of birth (98 percent within one day of birth). The percentage of children breastfed within one hour has increased during the last ten years from 80 percent to 90 percent. The percentage of children breastfed within one day has remained stable at 98 percent (compared to 97 percent in 2006-07). Disparities on breastfeeding initiation across districts are notable. The percentage of infants put to the breast soon after birth ranges from only 77 percent in Mannar to 100 percent in Anuradhapura.

The proportion of children who have ever been breastfed does not show a clear relationship with wealth quintile, but a higher percentage of last-born children of households in the fourth wealth quintile are breastfed within one hour than in any of the other quintiles. The percentage of children who were breastfed within one hour of birth are also higher among children born to mothers who have Passed G.C.E.(A/L) or equivalent education than to mothers of other educational groups.

Table 11.2 shows that thirteen percent of newborns in Sri Lanka received pre-lacteal feeds. The percentage is higher among infants born in the urban sector, mothers whose education is "degree and above", or living in the richer wealth quintiles. This practice is discouraged because pre-lacteal feeds are less nutritious than breast milk, more susceptible to contamination, and may reduce milk flow.



Table 11.2 Initial breastfeeding

Among last-born children who were born in the two years preceding the survey, the percentage who were ever breastfed and the percentages who started breastfeeding within one hour and within one day of birth; and among last-born children born in the two years preceding the survey who were ever breastfed, the percentage who received a prelacteal feed, by background characteristics, Sri Lanka 2016

	Among	last-born children	born in the past two	o years:	Among last-born the past two years breast	children born in s who were ever lfed:
	Percentage	Percentage who started breastfeeding	Percentage who started breastfeeding	Number of	Percentage who	Number of last-
Background characteristic	ever breastfed	within 1 hour of birth	within 1 day of birth ¹	last-born children	received a prelacteal feed ²	ever breastfed
Sox						
Male	99.4	90.2	97.4	1.544	14.3	1.535
Female	99.4	90.4	98.4	1,524	11.1	1,515
Residence						
Urban	99.4	87.0	97.4	487	18.4	484
Rural	99.5	91.2	98.0	2,443	11.6	2,430
Estate	98.9	86.3	98.1	138	11.4	136
District						
Colombo	99.6	88.7	98.2	299	23.5	298
Gampaha	100.0	94.4	99.5	257	16.2	257
Kalutara	98.8	87.5	95.9	198	21.8	195
Kandy	98.8	79.8	97.0	211	10.3	208
	100.0	91.1	99.5	69 107	15.0	69 107
	100.0	90.3	100.0	107	8.9 15 9	107
Matara	100.0	00.7	90.0	107	10.0	100
Hambantota	100.0	92.1	98.2	105	5.5	105
Jaffna	100.0	90.8	98.1	73	22.8	73
Mannar	100.0	77.1	100.0	11	12.9	11
Vavuniva	100.0	91.7	98.5	20	21.2	20
Mullaitivu	100.0	97.6	100.0	13	14.1	13
Kilinochchi	100.0	83.9	96.5	15	9.7	15
Batticaloa	98.9	92.4	97.6	89	12.9	88
Ampara	98.8	94.5	97.7	125	13.7	124
Trincomalee	96.8	78.2	96.8	70	13.5	68
Kurunegala	100.0	92.1	99.2	274	8.9	274
Puttalam	98.5	87.5	98.5	110	5.6	108
Anuradhapura	100.0	100.0	100.0	153	0.2	153
Polonnaruwa	100.0	84.9	94.7	84	16.0	84
Badulla	99.1	90.5	99.1	97	2.9	96
Batapura	100.0	95.0	100.0	191	9.9	190
Kegalle	99.3	94.5	97.6	128	8.0	127
Mother's education						
No education	*	*	*	19	*	17
Passed Grade 1-5	100.0	89.5	97.8	86	14.8	86
Passed Grade 6-10	99.4	88.3	98.0	1,288	8.8	1,281
Passed G.C.E.(O/L) or equivalent	99.6	90.6	97.8	648	10.6	646
Passed G.C.E.(A/L) or equivalent	99.4	93.2	98.2	819	16.8	814
Degree and above	99.6	91.5	97.6	208	26.1	207
Wealth quintile						
Lowest	99.2	89.5	98.2	563	10.6	558
Second	99.5	90.3	98.4	599	8.8	596
Middle	99.5	89.1	96.5	641	9.8	637
Fourth	99.5	92.0	98.6	664	13.5	660
nighest	99.5	90.6	97.8	602	20.8	299
Total	99.4	90.3	97.9	3,068	12.7	3,050
Note: Table is based on last-born chi at the time of interview. ¹ Includes children who started breas ² Children given something other tha	ldren born in t stfeeding within n breast milk o	he 2 years preced n one hour of birth during the first thre	ling the survey rega ee days of life	ardless of whe	ether the children a	re living or dead

³ Doctor, nurse/midwife, or auxiliary midwife

Colostrum, which has also been called the "first milk", is thick milk that is produced by mothers of newborns. Colostrum provides a host of benefits for infants. The ministry of health in Sri Lanka encourages all mothers to breastfeed their babies with colostrum. The majority of children born during the five years before the survey (98 percent) were given colostrum. This percentage has increased in the past ten years from 92 in 2006-07 to 98 in 2016. There are hardly any differences among background variable categories. A slightly higher percentage of women in the richest wealth quintiles and those with higher education have given colostrum than those women with lower education and belonging to households in lower wealth quintiles.

Another notable improvement has occurred in the estates sector, where the percentage of children receiving colostrum increased from 70 percent in 2006-07 to 97 percent in 2016.

Table 11.3 Colostrum feeding				
Among children born in the five years recent births who were not given colos a health provider not to give colostrum	before the survey v strum and among th n, according to back	vho were ever breas lose, the percentag ground characteris	stfed, percentage o e whose mothers v tics, Sri Lanka 201	of the most vere advised by 6
Background characteristic	Percentage not given colostrum	Number of lastborn children born in past five years who were ever breastfed	Percentage advised by a health provider not to use colostrum	Number of children who were not given colostrum
Sex				
Male	2.2	3,697	24.4	83
Female	1.6	3,441	17.8	54
Residence				
Urban	1.6	1,114	*	18
Rural	1.9	5,728	25.6	110
Estate	2.7	296	*	8
Mother's education				
No education	7.9	51	*	4
Passed Grade 1-5	1.9	257	*	5
Passed Grade 6-10	2.0	3,104	25.7	64
Passed G.C.E.(O/L) or equivalent	1.8	1,608	(8.1)	29
Passed G.C.E.(A/L) or equivalent	1.4	1,706	*	23
Degree and above	3.0	413	*	12
Wealth quintile				
Lowest	2.7	1,413	13.0	38
Second	1.8	1,457	(24.5)	27
Middle	1.6	1,463	*	23
Fourth	1.8	1,524	(24.6)	27
Highest	1.7	1,280	*	22
Total	1.9	7,138	21.8	137

11.3 BREASTFEEDING STATUS BY AGE

UNICEF and WHO recommend that children be exclusively breastfed during the first six months of life and that they be given age-appropriate solid or semisolid complementary food in addition to continued breastfeeding from age 6 months to at least age 24 months. Exclusive breastfeeding during the first six months is recommended because breast milk contains all of the nutrients necessary for children in the first few months of life. In addition, the mother's antibodies in breast milk provide immunity to diseases or infections. Early supplementation is discouraged for several reasons. First, it exposes infants to pathogens and increases their risk of infection. Second, it decreases infants' intake of breast milk and therefore suckling, which reduces breast milk production and the infant is deprived of all the benefits of breast milk. Third, in



low-resource settings, complementary food is often nutritionally inferior.

After six completed months, a child requires adequate complementary foods for normal growth. Lack of appropriate complementary feeding may lead to malnutrition and frequent illnesses, which in turn may even lead to death. However, even with complementary feeding, the child should continue to be breast-fed for two years or more. Interviewers obtained information on complementary feeding by asking mothers about the current breastfeeding status of all children under age 5 and, for the youngest child born in the two-year period before the survey and living with the mother, foods and liquids given to the child the day and night before the survey.

Table 11.4 shows the percent distribution by breastfeeding status of youngest children under age 2 living with their mother and the percentage of children under age 2 using a bottle with a nipple, according to age in months. Exclusive breastfeeding for the first six months in Sri Lanka is 82 percent for children under age 6 months (Table 11.4 and Figure 11.5). Among age subgroups, the percentage of children exclusively breastfed decreases sharply from 93 percent of infants aged 0-1 month to 87 percent of infants' age 2-3 months and, further to 64 percent of infants aged 4-5 months.

In addition to receiving breast milk, 6 percent of children under age 6 months receive plain water, 5 percent receive other milk, and 6 percent are given complementary foods. After the age of 5 months, a majority of children (88 percent or more) receive complementary foods in addition to breast milk, as recommended; however, 12 percent of children aged 6-8 months did not receive complementary foods the day or night preceding the survey.

Only two percent of children below 6 months and 11 percent of children aged 6-8 months used a bottle with a nipple the day or night preceding the survey. Bottle feeding is a concern because of possible contamination due to unsafe water and lack of hygiene in its preparation; it also may reduce the child's interest in breastfeeding, with a consequential decline in the mother's milk production.

Continued breastfeeding is recommended until a child is 2 years of age or beyond. In Sri Lanka breastfeeding is widely accepted and of long duration. The proportion of children who are currently breast-feeding decreases with the age of the child, from 94 percent among children aged 12-17 months to 88 percent among children aged 18-23 months.

Although it is recommended that breastfeeding be continued throughout the second year of life, 9 percent of children 12-23 months old are not receiving any breast milk. Figure 11.5 illustrates the patterns of child feeding by the age of the child.

Table 11.4 Breastfeeding status by age

Percent distribution of youngest children under two years who are living with their mother by breastfeeding status and the percentage currently breastfeeding; and the percentage of all children under two years using a bottle with a nipple, according to age in months, Sri Lanka 2016
Breastfeeding status

				Dicastit	Journy Status	3					
									Number of		
			Breast-	Breast-		Breast-			youngest		Number
			feeding	feeding	Breast-	feeding		Percenta	children	Percenta	of all
			and	and	feeding	and		ge	under age	ge using	children
	Not		consuming	consuming	and	consuming		currently	2 living	a bottle	under
Age in	breast-	Exclusively	plain water	non-milk	consuming	compleme		breast-	with their	with a	two
months	feeding	breastfed	only	liquids ¹	other milk	ntary foods	Total	feeding	mother	nipple	years
0-1	0.6	93.4	1.1	0.0	1.8	3.1	100.0	99.4	286	0.8	287
2-3	0.0	87.2	5.3	0.0	6.6	0.8	100.0	100.0	223	0.7	226
4-5	0.0	63.8	12.5	1.7	7.7	14.3	100.0	100.0	243	5.6	244
6-8	1.2	2.2	6.8	1.8	0.2	87.9	100.0	98.8	404	10.7	406
9-11	4.3	0.3	0.4	0.0	0.4	94.6	100.0	95.7	381	10.5	384
12-17	5.7	0.1	0.3	0.0	0.2	93.8	100.0	94.3	766	9.6	773
18-23	11.8	0.0	0.0	0.0	0.1	88.1	100.0	88.2	738	10.6	783
0-3	0.3	90.7	3.0	0.0	3.9	2.1	100.0	99.7	509	0.8	513
0-5	0.2	82.0	6.0	0.6	5.1	6.0	100.0	99.8	752	2.3	757
6-9	1.6	1.8	5.2	1.4	0.2	89.9	100.0	98.4	528	10.4	531
12-15	4.7	0.2	0.4	0.0	0.1	94.6	100.0	95.3	479	10.7	482
12-23	8.7	0.1	0.1	0.0	0.1	91.0	100.0	91.3	1,504	10.1	1,556
20-23	13.4	0.0	0.0	0.0	0.1	86.6	100.0	86.6	503	10.7	536

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

¹ Non-milk liquids include juice, juice drinks, clear broth or other liquids



Figure 11.5: Infant feeding practices by age



Figure 11.6, included below, shows the 2016 SLDHS results for key infant and young child feeding (IYCF) practices on breastfeeding for children under age 2. Although 82 percent of all children under age 6 months are exclusively breastfed, only 64 percent of those aged 4-5 months are exclusively breastfed. Almost all children (95 percent) continue breastfeeding at age 1, and 87 percent continue to breastfeed until age 2. Eighty-eight percent of children are introduced to complementary foods at an appropriate age. Eighty-nine percent of children aged 0-23 months are breastfeeding along with complementary foods for children aged 6-23 months. Predominant breastfeeding (receiving breast milk and only plain water or non-milk liquids such as juice, clear broth, and other liquids) is prevalent in 89 percent of the children. Eleven percent of infants aged 6-11 and eight percent of children under age 2 are bottle-fed.



Figure 11.6 Infant and young child feeding (IYCF) practices-indicators on breastfeeding status

11.4 DURATION AND FREQUENCY OF BREASTFEEDING

Table 11.5 provides information on the median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among children born in the three years preceding the survey. The median duration of any breastfeeding in Sri Lanka is 30 months. Differences in the median duration of breastfeeding by background characteristics are small and affected by small sample sizes. Table 11.5 also shows the median duration of predominant breastfeeding, which is defined as exclusive breastfeeding or breastfeeding in combination with plain water and/or non-milk liquids only. The median duration of predominant breastfeeding is 5.8 months.

Table 11.5 Median duration of breastfeeding

Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among children born in the three years preceding the survey, by background characteristics, Sri Lanka 2016

	Median duration (m	onths) of breastfeed	ling among
	children born in the	past three years	
	A m <i>i</i>	Evelueive	Drada minant
Background characteristic	breastfeeding	breastfeeding	breastfeeding ²
	breasticeanig	breastreeding	breasticeding
Carr			
Male	0.0	43	5 1
Female	0.0	4.5	5.1
i citale	0.0	7.7	5.1
Residence			
Urban	29.0	4.3	5.1
Rural	0.0	4.4	5.1
Estate	(30.6)	4.5	5.2
Mother's education			
Passed Grade 1-5	(33.9)	(3.8)	(4.5)
Passed Grade 6-10	0.0	4.4	5.3
Passed G.C.E.(O/L) or equivalent	0.0	4.7	5.4
Passed G.C.E.(A/L) or equivalent	33.1	4.2	4.7
Degree and above	0.0	(4.0)	(4.3)
Wealth quintile			
Lowest	0.0	4.3	5.6
Second	34.4	4.2	5.0
Middle	0.0	4.8	5.3
Fourth	33.8	4.4	5.0
Highest	31.4	4.2	4.4
Total	0.0		5.1
	0.0	4.4	5.1
Mean for all children	30.2	5.2	5.8
		J.Z	5.0
Note: Median and mean durations are	based on the distribu	tions at the time of t	the survey of the
the survey		living and deceased	
¹ It is assumed that non-last-born child	ren and last-born chil	dren not currently li	ving with the
mother are not currently breastfeeding			
² Either exclusively breastfed or receiv	ed breast milk and pla	ain water, and/or no	n-milk liquids
only			

11.5 TYPES OF COMPLEMENTARY FOODS

Table 11.6 provides information on the types of food given by mothers to children under 3 years of age on the day or night preceding the interview, according to breastfeeding status. The consumption of infant formula and other milk, among breastfed children, increases with the age of the child. Solid and semi-solid foods are introduced to infants around the age of 6 months in Sri Lanka, following the guidelines and recommendations of UNICEF and WHO. Thus, by the ages of 6-8 months, almost 89 percent of the children are receiving any solid or semi-solid food. This percentage is an increase from 85 percent observed ten years ago from the 2006-07 SLDHS.

Overall, nearly one hundred percent of children (98 percent) aged 6-23 months of age receive any solid or semisolid complementary foods in addition to breast milk. Consumption of foods made from grains (88 percent) and fruits and vegetables rich in vitamin A (86 percent) is high in the children aged 6-23 months. The consumption of food made from legumes and nuts (66%), food made from roots and tubers (58%), meat, fish, poultry and eggs (58%) is relatively low. Moreover consumption of sugary foods (34%) among children under the age of 3 years decreased drastically by 27 percent compared to 2006/07 SLDHS (61%). The consumption of food made with oil, fat and butter increased from 34 percent (2006/07 SLDHS) to 42 percent (2016 SLDHS excluding northern province) in this decade (2006-2016)

Percenta	age of youn	igest chil	dren unde reastfeedi	r three ye	ears of ag	e who are Sri Lanka	e living wit a 2016	th the mo	other by ty	pe of foo	ds consur	ned in the	e day or n	ight prece	eding
	, acco.	ang to p		ng otatao	Liqu	ids		Sol	id or sem	i-solid foc	ds				
					-	Fruits									
						and		Food	Food						
						vegeta-	Other	made	made		Cheese	Any	Food		Number
					Food	bles	fruits	from	from	Meat,	, yogurt,	solid or	made		of
				Fortified	made	rich in	and	roots	legume	fish,	other	semi-	with oil,		children
Age in	Infant	Other	Other	baby	from	vitamin	vege-	and	s and	poultry,	milk	solid	fat and	Sugary	under
months	formula	milk	liquids	foods	grains	A'	tables	tubers	nuts	eggs	product	food	butter	foods	age 3
BREAS	FEEDING	CHILDR	EN												
0-1	2.3	0.8	4.4	0.5	1.6	1.1	0.0	0.6	1.2	1.0	0.4	3.1	0.7	0.9	284
2-3	5.6	3.3	8.1	0.1	0.8	0.8	0.0	0.1	0.7	0.1	0.7	0.8	0.8	0.0	223
4-5	13.2	3.7	13.3	4.1	6.8	8.8	2.7	6.0	8.1	4.4	1.8	14.3	4.8	0.0	243
6-8	19.4	7.8	45.8	35.1	68.3	75.6	28.6	54.4	58.8	36.9	29.5	88.9	32.7	8.6	399
9-11	24.3	9.6	52.4	40.0	88.2	88.0	43.3	65.0	68.1	54.3	46.1	98.9	38.7	22.0	364
12-17	30.6	17.4	64.6	35.3	93.5	89.7	52.5	58.5	67.8	64.9	47.6	99.4	42.6	38.4	722
18-23	35.2	28.1	76.7	32.5	94.9	87.1	53.5	55.4	66.9	65.1	42.0	99.9	44.1	50.1	651
24-35	33.4	37.7	84.4	29.1	96.6	86.8	53.9	50.1	70.2	60.7	41.9	99.7	46.5	57.4	1,051
6-23	28.8	17.5	62.7	35.2	88.3	86.0	46.8	57.9	65.9	57.9	42.2	97.5	40.6	33.6	2,137
Total	25.9	20.0	58.1	27.2	74.3	70.5	39.9	45.2	55.1	48.0	34.3	80.7	34.8	33.6	3,939
NONBR	EASTFEED	DING CH	ILDREN												
0-1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2
2-3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4-5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6-8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5
9-11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16
12-17	(83.8)	(47.2)	(79.7)	(61.8)	(88.5)	(84.0)	(58.5)	(72.3)	(69.4)	(83.1)	(63.3)	(100.0)	(62.0)	(36.0)	43
18-23	72.7	42.9	83.1	39.9	94.8	91.8	50.7	58.7	63.6	74.7	47.0	100.0	47.4	57.4	87
24-35	53.5	48.6	84.5	41.3	92.4	84.6	51.6	50.5	60.3	69.2	37.8	99.6	47.4	59.8	475
6-23	77.9	42.5	79.6	48.9	92.4	87.0	51.9	63.8	64.2	76.5	52.6	99.2	52.8	46.5	152
Total	59.5	47.0	83.1	43.0	92.2	84.9	51.5	53.6	61.1	70.8	41.3	99.2	48.6	56.4	628
Note: Br	eastfeeding	g status a	ind food c	onsumed	refer to a	a 24-hour"	period (y	esterday	and last	night).					

Other milk includes fresh, tinned and powdered cow or other animal milk ² Doesn't include plain water

Includes fortified baby food

Includes [list fruits and vegetables included in the questionnaire such as pumpkin, red or yellow yams or squash, carrots, red sweet potatoes, dark green leafy vegetables, mangoes, papayas, and other locally grown fruits and vegetables that are rich in vitamin A]

11.6 INFANT AND YOUNG CHILD FEEDING (IYCF) PRACTICES

Appropriate IYCF practices include timely initiation of feeding solid and semisolid foods from age 6 months and increasing the amount and variety of foods and frequency of feeding as the child gets older while maintaining breastfeeding (WHO, 2008). The age ranges of various indicators of IYCF practices presented in this chapter have been updated based on the most recent definitions of breastfeeding and complementary feeding indicators (WHO, 2010).

Minimum dietary diversity means feeding the child food from at least four food groups. This cut-off was selected because it is associated with better-quality diets for both breastfed and non-breastfed children. Studies have shown that plant-based complementary foods by themselves are insufficient to meet the needs for certain micronutrients (WHO and UNICEF 1998). Therefore, it is recommended that meat, poultry, fish, or eggs be eaten daily or as often as possible. Vegetarian diets may not meet children's nutrient requirements unless supplements or fortified products are used. Iron rich food as well as Vitamin A-rich fruits and vegetables should be consumed daily.

Table 11.7 presents a summary of IYCF practices along with the background characteristics. The indicators take into account the percentages of children for whom feeding practices meet minimum standards

with respect to food diversity (i.e., the number of food groups consumed), feeding frequency (i.e., the number of times the child is fed), and consumption of breast milk or other types of milk or milk products (accounting for number of milk feeds for non-breastfed children). Breastfed children are considered to be fed within the minimum standards if they consume at least four food groups and receive food other than breast milk two to three times per day in the case of infants aged 6-8 months and three to four times per day in the case of children aged 9-23 months (Arimond and Ruel, 2003). Non-breastfed children are considered to be fed in accordance with the minimum standards if they consume milk or milk products at least twice a day, are fed four food groups each day, and are fed at least four to five times per day (including milk feeds). Meal frequency is considered a proxy for energy intake from foods other than breast milk; therefore, the feeding frequency indicator for non-breastfed children includes both milk and solid and semi-solid foods (WHO, 2008).

According to the results presented in Table 11.7, seventy two percent of breastfed children aged 6-23 months were given foods from four or more food groups in the 24 hours preceding the interview, and 86 percent were fed the minimum number of times in the preceding 24 hours. About 2 in 3 (63 percent) breastfed children fell into both categories; that is, their feeding practices met minimum standards with respect to food diversity as well as feeding frequency.

Among non-breastfed children aged 6-23 months, 69 percent were given milk or milk products, 86 percent were given food from at least four food groups, and 88 percent were fed four or more times per day. Forty-five percent of non breastfed children aged 6-23 were fed in accordance with all three IYCF practices.

Appropriate feeding practices were more common among breastfed children than non-breastfed children. Overall, 62 percent of Sri Lankan children aged 6-23 months met the minimum standard with respect to all three IYCF feeding practices (Table 11.7). Ninety eight percent of all children aged 6-23 months received breast milk or other milk or milk products during the 24-hour period before the interview, and 86 percent were fed the minimum number of times in the preceding 24 hours. The most common problem with feeding practices was an inadequate number of food groups; only 73 percent of children aged 6-23 months received foods from the minimum number of food groups for their age.

The proportion of children aged 6-23 months, meeting all three recommended IYCF practices increases from 45 percent among children aged 6-8 months to 69 percent among those aged 12-17 months and then declines to 65 percent among those aged 18-23 months. The proportions of children who met the criteria did not vary by sex of the child. On the other hand, urban and rural children were more likely to be fed according to all of the IYCF practices than their counterparts in the estate sector (64 and 62 percent versus 50 percent, respectively). There are no large regional differences in feeding practices. The proportions of children fed in accordance with the recommended IYCF practices increases with the levels of education of the mother and with wealth of the households (three forth among the most educated and richest households compared to less than half of the mothers with primary education or in the poorest of the quintiles, Table 11.7).



Table 11.7 Infant and young	abild feeding	(IVCE) prestiess
Table 11.7 Infant and vound	cillia leeallia	(ITCF) bractices
		V /P · · · · · · · · · · · · · · · · · · ·

status, number of 1000	- groups,		A	mong bre	astfed ch	ildren 6-2	3 Am	nong non-	breastfed	children (6-23 Amo	ng all chil	dren 6-23	months,
			n Both 4+	nonths, pe	rcentage	fed:	mo	onths, per	centage fe	ed:	perc	entage fe	d:	
			food	Number					Number	Descet				
			groups and	01 breastfe					of non- breastfe	Breast- milk				Number
		Minimu	minimu	d	Milk or		Minimu	With 3	d	milk, or		Minimu	With 3	of all
		m meal	m meal	children	milk		m meal	IYCF	children	milk		m meal	IYCF	children
Background	4+ food	frequen	frequen	6-23	product	4+ food	frequen	practice	6-23	product	4+ food	frequen	practice	6-23
characteristic	groups	CY-	су	months	S	groups	cy.	S	months	S	groups	cy'	S	months
Ago in months														
6-8	52.0	82.0	45.1	399	*	*	*	*	5	100.0	52.3	82.2	45.2	404
9-11	69.9	83.3	59.5	364	*	*	*	*	16	99.1	70.1	83.7	59.5	381
12-17	77.9	87.9	70.4	722	(63.6)	(92.3)	(87.3)	(49.8)	43	97.9	78.7	87.8	69.2	766
18-23	77.6	88.0	68.6	651	67.7	86.0	86.1	38.6	87	96.2	78.6	87.8	65.1	738
Sex														
Male	71.4	86.0	63.1	1,099	73.1	84.7	82.2	46.6	67	98.5	72.2	85.8	62.1	1,165
Female	71.8	86.1	63.5	1,039	65.4	87.3	91.9	43.1	85	97.4	73.0	86.5	61.9	1,123
Residence	70.0		cc =	0.07	(00.0)	(05.0)	(00.0)	(40.0)	10	05.0		o 4 -	00.0	050
Urban	76.8	84.4	66.7	307	(66.8)	(85.8)	(86.6)	(43.0)	43	95.9	77.9	84.7	63.8	350
Estate	65.0	81.4	52.5	98	10.2	*	* *	47.5	5	98.0	63.7	81.5	50.1	103
District														
Colombo	85.7	80 0	77 F	120	(71.5)	(87.7)	(06 1)	(51 6)	36	05.2	0 38	۸ ۵۵	72.0	216
Gampaha	81.4	83.4	69.7	180	(71.5)	(07.7)	(30.4)	(31.0)	20	96.0	82.4	82.8	66.7	200
Kalutara	83.0	88.5	73.2	142	*	*	*	*	7	100.0	83.7	88.1	73.4	149
Kandy	58.8	85.0	52.6	141	*	*	*	*	7	99.3	59.8	85.7	53.2	148
Matale	74.3	97.5	74.3	45	*	*	*	*	1	100.0	74.8	97.6	72.7	46
Nuwaraeliya	73.0	80.6	61.9	120	*	*	*	*	4	96.7	71.7	79.3	59.0	80
Matara	74.7 80.7	90.6	76.2	96	*	*	*	*	2	96.6	75.Z 81.7	90.7	74 1	101
Hambantota	78.9	79.9	64.3	71	*	*	*	*	2	97.8	79.3	80.4	62.9	73
Jaffna	53.6	80.5	42.1	48	*	*	*	*	9	98.3	59.4	81.8	42.6	58
Mannar	(66.2)	(87.2)	(57.8)	7	*	*	*	*	1	(94.4)	(68.5)	(83.5)	(54.8)	8
Vavuniya	(41.1)	(33.3)	(14.5)	14	*	*	*	*	2	96.1	45.0	38.6	12.4	10
Killinochchi	(36.5)	(91.0)	(47.5)	9	*	*	*	*	2	(91.1)	(40.6)	(78.7)	(31.5)	10
Batticaloa	48.4	74.5	38.6	60	*	*	*	*	10	94.9	49.1	74.5	36.4	70
Ampara	63.1	74.2	56.2	83	*	*	*	*	11	98.2	67.0	76.6	58.3	94
Trincomalee	58.8	67.9	46.3	40	*	*	*	*	3	95.7	58.8	67.9	45.1	43
Rurunegala	65.0 71.6	90.5	59.9 63.4	207	*	*	*	*	4	98.9	65.7 73.1	90.7	59.1 62.2	212
Anuradhapura	67.6	91.0	66.2	118	*	*	*	*	4	98.1	68.6	90.3	65.9	122
Polonnaruwa	68.7	88.6	62.9	55	*	*	*	*	2	100.0	69.8	89.1	62.6	57
Badulla	66.9	87.5	58.1	67	*	*	*	*	2	100.0	65.4	87.9	56.8	70
Monaragala	69.9	94.2	65.6	63	*	*	*	*	4	95.8	71.5	94.5	61.9	67
Kegalle	75.3	95.5 62.3	72.5 45.5	91	*	*	*	*	3 5	99.2 99.6	75.8 76.0	95.6 64.3	48.0	96
Mother's education														
No education	*	*	*	13	*	*	*	*	2	*	*	*	*	15
Passed Grade 1-	<u> </u>	70.0	40.4	50	*	*		*	0	00.0	<u> </u>	70.0	40.0	C 4
D Passed Grade 6-	63.6	70.8	48.4	56					0	96.9	03.0	76.0	40.2	64
10	64.7	86.9	58.0	935	(75.1)	(79.5)	(83.3)	(36.3)	38	99.0	65.3	86.7	57.1	973
Passed														
G.C.E.(U/L) Or	73.0	8/1	63.6	441	(57.8)	(86.0)	(88.2)	(40.2)	27	97.6	73.8	84.3	62.3	468
Passed	73.0	04.1	00.0		(07.0)	(00.9)	(00.2)	(40.2)	21	57.0	70.0	04.0	02.0	+00
G.C.E.(A/L) or														
equivalent	80.8	85.3	70.8	552	66.0	89.9	89.6	46.9	56	96.9	81.6	85.7	68.6	608
above	83.4	92.0	76.0	139	*	*	*	*	21	96.8	85.6	92.2	74.6	160
													-	
	56 5	84 O	48 F	305	(65.1)	(70.0)	(84.0)	(23.0)	25	97 9	57 3	84 O	<u>4</u> 7 1	420
Second	67.5	84.4	60.2	440	(69.9)	(58.6)	(70.2)	(22.6)	17	98.9	67.1	83.9	58.8	457
Middle	68.9	85.0	60.0	444	*	*	、/ *	、 <i>></i> /	22	98.3	70.1	84.8	59.3	466
Fourth	79.1	87.5	70.6	466	(72.3)	(87.8)	(96.7)	(56.2)	28	98.4	79.6	88.0	69.7	494
Highest	85.7	89.2	76.5	392	70.0	96.7	92.3	54.3	59	96.1	87.1	89.6	73.6	451
Total	71.6	86.0	63.3	2,137	68.8	86.2	87.6	44.6	152	97.9	72.6	86.1	62.0	2,289

Food groups: a. infant formula, milk other than breast milk, cheese or yogurt or other milk products; b. foods made from grains, roots, and tubers, including porridge and fortified baby food from grains; c. vitamin A-rich fruits and vegetables (and red palm oil); d. other fruits and vegetables; e. eggs; f. meat, poultry, fish, and shellfish (and organ meats); g. legumes and nuts. 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 ³ Includes two or more feedings of commercial infant formula, fresh, tinned, and powdered animal milk, and yogurt ⁴ For non-breastfed children aged 6-23 months, minimum meal frequency is receiving solid or semi-solid food or milk feeds at least four times a day

For horsested children aged 6-23 months, minimum mean requerity is receiving solid or demosting bood or minimum standard of three Infant and Young Child Feeding Practices if they receive other milk or milk products at least twice a day, receive the minimum meal frequency, and receive solid or semi-solid foods from at least four food

⁶ Breastfeeding, or not breastfeeding and receiving two or more feedings of commercial infant formula, fresh, tinned and powdered animal milk, and yogurt ⁷ Children are fed the minimum recommended number of times per day according to their age and breastfeeding status as described in footnotes 2 and 4

Table 11.7.1. Infant and young child feeding (IYCF) practices according to DHS-V calculation Percentage of youngest children aged 6-23 months living with their mother who are fed according to three IYCF practices based on breastfeeding status, number of food groups, and times they are fed during the day or night preceding the survey, by background characteristics, Sri Lanka, 2016 Among breastfed children 6-23 months, Among non-breastfed children 6-23 months, Among all children 6-23 months, Percentage percentage fed: percentage fed: fed: Both 3+ food Number of With Number groups and Number of Milk or Minimum With 3 non-Breast Minimu all 3 of all Minimum minimum breastfed milk meal IYCF breastfed milk. milk. 3+ or 4+ m meal IYCF children children 6or milk practi Background 3+ food mea meal product 4+ food frequenc practices children 6 food frequen 6-23 characteristic groups frequency iency 23 months 6 groups 23 months oducts oups C) ces months Total 89.6 86.0 78.6 2,137 89.5 86.9 62.3 52.5 152 99.3 89.4 84.4 76.9 2,289 ¹ Food groups: a. infant formula, milk other than breast milk, cheese or yogurt or other milk products; b. foods made from grains, roots, and tubers, including porridge and fortified baby food from grains; c. vitamin A-rich fruits and vegetables (and red palm oil); d. other fruits and vegetables; e. eggs; f. meat, poultry, fish, and shellfish (and organ meats); g. legumes and nuts; h. foods made with oil, fat, or butter 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 Includes at least one feeding of commercial infant formula, fresh, tinned and powdered animal milk, yogurt, cheese and other milk products For non-breastfed children aged 6-23 months, minimum meal frequency is receiving solid or semi-solid food at least four times a day ⁵ Non-breastfed children aged 6-23 months are considered to be fed with a minimum standard of three Infant and Young Child Feeding Practices if they receive other milk or milk products at least once a day, receive solid or semi-solid foods at least four times a day, and receive solid or semi-solid foods from at least four food groups (including the milk or milk products food group) Breastfeeding or not breastfeeding and receiving two or more feedings of commercial infant formula, fresh, tinned, and powdered animal milk, and yogurt At least 3 food groups for breastfed children and at least 4 food groups for non-breastfed children ⁸ Fed solid or semi-solid food at least twice a day for infants 6-8 months, at least 3 times for other breastfed children, and at least 4 times for non-breastfed children

11.7 PRESENCE OF IODIZED SALT IN HOUSEHOLDS

Iodine is an important micronutrient and dietary iodine deficiencies are a major public health concern worldwide. A lack of sufficient iodine is known to cause goiter, cretinism (a severe form of neurological defect), spontaneous abortion, premature birth, infertility, stillbirth and increased child mortality. Iodine deficiency disorder is the most common cause of preventable mental retardation and brain damage in the world. In the 2016 SLDHS all visited households were requested to provide a sample of the salt used for cooking to test the level of iodine. The iodine testing was successfully completed in 96 percent of the households included in the sample of the 2016 SLDHS. The remaining 4 percent of the households did not have salt in the household at the time of the survey (Table 11.8).

The results of testing the salt indicate that over ninety-five percent of households have salt with some iodine, a percentage that is very similar across sectors of residence. However, at the district level, the testing found that less than ninety percent of households in Batticaloa and Puttalam Districts had adequately iodized salt (only 85 percent each). The percentage with iodized salt is also greater in the richest households than among the poorest 20 percent of the households.



Table 11.8 Presence of iodized salt in household

Among all households, the percentage with salt tested for iodine content and the percentage with no salt in the household; and among households with salt tested, the percentage with iodized salt, according to background characteristics, Sri Lanka 2016

	Among all housel	holds, the percenta	ige	Among households salt:	enolds with tested		
Packaround obstactoristic	With calt tootod	With no salt in	Number of	Percentage with	Number of		
Background characteristic	Will Sail lesteu	line nousenoid	nousenoius	iouizeu sait	nousenoius		
Residence							
Urban	96.3	3.7	4,309	95.9	4,148		
Rural	96.3	3.7	21,778	95.0	20,964		
Estate	95.4	4.6	1,122	96.1	1,071		
District							
Colombo	96.8	3.2	2,722	97.3	2.635		
Gampaha	95.4	4.6	2 815	93.8	2 684		
Kalutara	97.2	2.8	1 618	96.3	1 572		
Kandy	93.6	64	1,872	96.3	1,752		
Matale	94 7	53	720	98.0	682		
Nuwara Eliva	95.2	4.8	895	97.9	852		
Galle	94.0	6.0	1 461	94.8	1 373		
Matara	97.3	27	1 107	94.3	1 077		
Hambantota	93.3	6.7	846	99.3	789		
Jaffna	98.1	1.9	720	98.4	706		
Mannar	99.1	0.9	126	97.9	125		
Vavuniva	98.3	17	199	94.9	196		
Mullaitivu	94.8	52	116	96.3	110		
Kilinochchi	98.3	17	141	95.8	139		
Batticaloa	99.2	0.8	699	85.1	693		
Ampara	98.9	1.0	909	98.7	898		
Trincomalee	97.1	2.9	507	96.1	492		
Kurunegala	95.9	4 1	2 4 1 6	92.3	2 317		
Puttalam	92.9	7 1	1 007	85.0	936		
Anuradhanura	98.3	17	1 245	94.5	1 224		
Polonnaruwa	95.3	47	577	98.9	550		
Badulla	94 7	5.3	1 114	95.7	1 056		
Moneragala	98.4	1.6	678	97.6	668		
Ratnanura	98.5	1.5	1 567	98.0	1 543		
Kegalle	98.1	1.9	1,134	92.6	1,113		
Wealth quintile							
Lowest	۵۵ ک	7 8	6 140	93 5	5 670		
Second	06 2	7.0 2.2	5 504	94.5	5 204		
Middle	07.5	2.5	5 304	0 1 .0 05.2	5,234		
Fourth	07 Q	2.0	5 164	95.2 95.0	5,050		
Highest	98.2	1.8	5,094	97.1	5,000		
Total	96.2	3.8	27,210	95.2	26,183		

11.8 MICRONUTRIENT INTAKE AMONG CHILDREN

Micronutrient deficiency is a major contributor to childhood morbidity and mortality. Children receive micronutrients from food, food fortification and direct supplementation. The 2016 SLDHS collected information on consumption of foods rich in vitamin A and iron and the coverage status of children receiving vitamin A mega dose capsules, iron supplements (syrup) and a deworming medication.

Vitamin A is an essential micronutrient for the immune system that plays an important role in maintaining the epithelial tissue in the body. Severe vitamin A deficiency (VAD) can cause eye damage. VAD can also increase the severity of infections, such as measles and diarrheal diseases in children and slow recovery from illness. Vitamin A is found in breast milk, other milk, liver, egg yolk, fish, butter, mangoes, papayas, carrots, pumpkins and dark green leafy vegetables. The human liver can store an adequate amount of the vitamin for four to six months.

Table 11.9.1 Micronutrient intake among children

Among all children aged 6-59 months who are living with their mother, the percentages who consumed vitamin A-rich and iron-rich foods in the day or night preceding the survey, by background characteristics, Sri Lanka 2016

	Among youngest months living wit	t children aged h the mother:	6-23	Among all child living with the	dren aged 24-59 mother:	9 months
Background characteristic	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 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
Male	93.0	60.4	1,165	89.2	60.2	2,525
Female	91.6	57.9	1,123	89.6	61.1	2,272
Breastfeeding status Breastfeeding Not breastfeeding	91.9 97.7	57.9 76.5	2,137 152	93.5 86.6	61.4 60.2	1,918 2,879
Mother's age at birth						
15-19	(83.1)	(42.7)	44	*	*	11
20-29	91.1	59.4	1,032	86.2	58.5	1,611
40-49	93.8	55.1	96	90.4	62.2	446
Residence						
Urban	91.5	69.3	350	89.7	70.4	742
Rural	92.5	58.1	1,835	89.5	59.4	3,852
Estate	91.4	44.5	103	86.7	48.9	203
District						
Colombo	96.4	65.0	216	89.6	66.9	392
Gampaha	94.6	69.8	200	88.6	64.0 64.4	466
Kandy	90.0 83.7	42.1	149	81.3	04.4 44 9	354
Matale	93.4	47.6	46	89.1	49.4	141
Nuwara Eliya	94.7	44.5	80	87.2	45.7	166
Galle	92.6	51.7	122	85.0	65.9	259
Matara	90.5	58.7	101	89.5	62.6	192
Hambantota	88.6	55.5	73	87.1	59.5	150
Mannar	0.00 (98.6)	(94 0)	00 8	00.5 92.4	53.1 79.6	28
Vavuniva	79.5	58.2	16	93.4	68.8	39
Mullaitivu	86.7	68.0	11	86.9	63.7	23
Kilinochchi	(80.3)	(54.4)	10	84.6	63.7	29
Batticaloa	78.5	69.7	70	89.3	72.7	148
Ampara	84.3	75.0	94	89.3	78.6	217
Kurunegala	91.0	73.0	43 212	00.2 92.7	70.3	384
Puttalam	93.3	62.7	89	94.0	64.8	171
Anuradhapura	96.5	67.2	122	96.4	70.4	251
Polonnaruwa	93.0	53.5	57	91.4	50.2	101
Badulla	94.4	41.9	70	89.9	48.2	189
Reteapura	97.4	67.3 51.1	67 131	88.2	58.2	138
Kegalle	100.0	61.6	96	94.0	64.2	177
Mother's education						
No education	*	*	15	(89.9)	(45.6)	34
Passed Grade 1-5	92.9	56.7	64	83.2	55.6	192
Passed Grade 6-10	90.0	53.2	973	87.4	56.3	2,115
Passed G.C.E.(O/L) or						
equivalent Research $G \subseteq (A/L)$ or	92.4	59.2	468	90.3	62.1	1,118
equivalent	94.5	66 7	608	92.5	67.0	1 089
Degree and above	98.2	69.3	160	93.0	69.3	249
Wealth quintile						
Lowest	87.5	53.5	420	85.2	54.1	1,007
Second	90.6	53.6	457	90.2	55.6	996
Middle	92.6	56.1	466	88.7	56.5	944
Fourth	93.9	64.0	494	91.2	65.4	1,026
nighest	90.4	00.0	431	92.0	73.5	024
Total	92.3	59.2	2,289	89.4	60.7	4,797

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

na = Not applicable

1 Includes meat (and organ meat), fish, poultry, eggs, pumpkin, orange or yellow yams or squash, carrots, yellow sweet potatoes, dark green leafy vegetables, mango, papaya, and other locally grown fruits and vegetables that are rich in vitamin A 2 Includes meat (including organ meat), fish, poultry and eggs

According to Table 11.9.1 ninety-two percent of children aged 6-23 months consumed foods rich in vitamin A the day or night preceding the survey. The consumption of foods rich in vitamin A increases with wealth quintile. The consumption of vitamin A rich food the day or night before the survey also varies by district, pointing to the need to target those districts in which children are less protected (Vavuniya and Batticaloa, among others)

Among children aged 24-59 months, eighty-nine percent of children consumed foods rich in vitamin A the day or night preceding the survey. A larger percentage of breastfed children aged 24-59 months consumed foods rich in vitamin A than non-breastfed children in the same age group (94 percent vs 87 percent). Very little variations are observed in the proportion of children who consumed food rich in vitamin A by residence, wealth quintile and districts. Percentage of children aged 24-59 months who consumed foods rich in vitamin A is positively associated with mother's age at birth and mother's education.

Iron is essential for cognitive development and low iron intake can contribute to anemia. Iron requirements are greatest at the age of 6-23 months, when growth is extremely rapid. According to Table 11.9.1, three in five children (59 percent) consumed food rich in iron in the 24 hours prior to the survey. A higher percentage of children in urban areas consume food rich in iron than those in the rural or estates sector (69, 58 and 45 percent respectively).

Among children aged 24-59 months, sixty-one percent of children consumed food rich in iron in the previous 24 hours with a higher percentage in urban sector than in the rural or estate sector. (70, 59 and 49 percent respectively). The highest percentages of children aged 24-59 months who consumed food rich in iron are observed among older mothers (62 percent), the richest household (74 percent) and mothers with the highest educational level (69 percent).



Figure 11 .7 Percentage of consuming foods rich in vitamin A and iron by Age Groups

Figure 11.7 - shows the 2016 SLDHS results for infants and young children aged 6-59 months consuming foods rich in vitamin A and iron in the day or night preceding the survey. Trends of both consuming vitamin A rich foods and iron rich foods are positively associated with child age groups from 6 to 23 months. The proportions of children who consumed foods rich in vitamin A in the age group 24-59 months is less than the proportion of children in the age group 18-23 months.

Table 11.9.2 Micronutrient intake among children

Among all children 6-59 months, the percentages who were given vitamin A supplements in the six months preceding the survey, who were given iron syrup in the past fourteen days, and who were given deworming medication in the six months preceding the survey, and among all children aged 6-59 months who live in households that were tested for iodized salt, the percentage who live in households with iodized salt, by background characteristics, Sri Lanka 2016

	A	mong all children a	iged 6-59 months:		Among childre months living i tested for id	en aged 6-59 n households odized salt
	Percentage given iron syrup in past	Percentage given vitamin A supple- ments in past 6	Percentage given dewor- ming medica- tion in past 6	Number of	Percentage living in house- holds with iodized	Number of
Background characteristic	14 days	months	months [*] ,	children	sait	children
Sex			05.7	0.044	05.0	0 700
Female	7.3 7.8	54.7 55.7	65.7 64.7	3,844 3,545	95.6 95.0	3,790 3,483
Breastfeeding status						
Breastfeeding Not breastfeeding	7.7 7.3	59.6 49.7	58.6 73.4	4,107 3,282	95.2 95.5	4,042 3,231
Mother's age at birth						
15-19	12.3	60.2	43.6	56	98.3	54
20-29	7.1	57.0	62.1	2,738	95.1	2,691
40-49	7.7	53.0	69.6	4,034	95.5	551
Residence						
Urban	11.6	52.9	62.3	1,149	95.0	1,133
Estate	6.9 4.2	55.8 52.0	65.7 65.3	5,914 326	95.3 97.2	5,819
District						
Colombo	9.0	39.3	60.8	634	96.3	626
Gampaha	5.2	56.9	65.3	/0/	93.0	700
Kandy	4.2	34.0 45.7	69.0 59.6	400 519	94.0 95.7	400
Matale	5.3	74.6	82.3	191	97.7	187
Nuwara Eliya	4.2	50.0	70.5	253	98.5	247
Galle	5.2	47.8	60.6	392	94.9	382
Matara	5.1	76.1	72.9	309	95.7	308
Hambantota	1.5	66.9	72.0	232	100.0	226
Jamna Mannar	14.4	53.8	60.8 74.8	193	99.5	187
Vavuniva	4.1	39.2	43.5	58	99.0 94.8	58
Mullaitivu	1.6	68.7	50.6	35	97.8	34
Kilinochchi	13.3	64.9	62.4	41	95.5	41
Batticaloa	42.9	63.7	66.0	228	89.6	227
Ampara	9.9	70.0	60.2	323	98.9	323
Irincomalee	19.0	43.2	66.1	164	97.2	164
Rurunegala	5.3	37.8	64.1 51.2	018 270	92.7	604 255
Anuradhapura	5.9	53.3	60.2	385	95.5	377
Polonnaruwa	5.4	70.1	75.7	161	98.9	159
Badulla	4.9	61.7	69.7	275	95.9	265
Moneragala	7.8	69.1	69.0	217	97.2	216
Ratnapura Kegalle	3.7 6.9	79.6 65.3	75.7 61.0	396 283	98.8 95.2	396 283
Mother's education						
No education	6.3	65.6	53.1	53	90.2	52
Passed Grade 1-5	7.9	57.7	58.8	271	94.7	265
Passed Grade 6-10	7.3	55.3	65.9	3,219	94.4	3,173
Passed G.C.E. (O/L) or equivalent	8.4 6.9	5Z.9 57.2	65.3 66.0	1,040	95.1	1,014
Degree and above	8.6	51.9	62.1	431	96.8	426
Wealth quintile						=-
Lowest	8.1	55.3	63.5	1,495	93.8	1,459
Middle	0.8 7 1	50.4 55 1	65.5 67 /	1,520	94.1	1,492
Fourth	7.1	55 7	65.7	1,400	96.2	1,440
Highest	8.2	53.3	63.7	1,328	97.2	1,314
Total	7.5	55.2	65.2	7,389	95.3	7,273

¹ Based on mother's recall
 ² Based on both mother's recall and the Child Health Development Record (where available)
 ³ Deworming for intestinal parasites is commonly done for helminthes and for schistosomiasis.
 ⁴ Excludes children in households in which salt was not tested.



According to Table 11.9.2 eight percent of all children aged 6-59 months were given iron syrup in the fourteen days preceding the survey. Greater variation in the coverage of giving iron syrup in the past 14 days is observed in Batticaloa with the highest coverage of 43 percent compared to percentages in Mullaitivu and Hambantota Districts (2 percent).

Periodic dosing (every six months) of vitamin A is one method of ensuring that children at risk do not develop VAD. Table 11.9.2 also shows that more than half of the children aged 6-59 months were given vitamin A (55 percent) in the past six months. There are only slight differences in the proportion of children receiving vitamin A by background characteristics.





According to figure 11.8 , there are no large differences among percentages of children given iron syrup in past 14 days (around 9 percent to 11 percent) up to age group 18-23 months after which it reduces to 7 percent in age group 24-59 months. Over 80 percent of children have been given vitamin A before their first birthday. Fifty-one percent of children aged 24-59 months of age received vitamin A in the past six months.

Periodic deworming for organisms such as helminthes can improve children's micronutrient status. Sixty-five percent of children received deworming medication in the six months before the survey. The likelihood of receiving deworming medication increases with the child's age. (see figure 11.9) However it must be noted here that the preventive periodic deworming programme starts from the age of 18 months.



Figure 11.9 Percentage given deworming medication by age groups

As mentioned in the previous section, iodine deficiency, most frequently caused by inadequate iodine intake, has serious effects on physical growth and mental development. Fortification of salt with iodine is the most common method of preventing iodine deficiency. Over ninety-five percent of children aged 6-59 months live in households with adequately iodized salt. There are few differentials in this figure by background characteristics. The percentage of children living in households that use adequately iodized salt is lowest in the Puttalam District (eight-two percent).

11.9 NUTRITIONAL STATUS OF WOMEN

Low pre-pregnancy BMI and short stature of women are risk factors for poor birth outcomes and delivery complications. The height of a woman is associated with past socio-economic status and nutrition during childhood and adolescence. The cut-off point at which mothers can be considered at- risk because of short stature is normally taken as below 145 cm. In developing countries being underweight during pregnancy is the leading risk factor for preventable death and diseases (WHO, 2002).

The BMI is used to measure underweight or obesity. It is expressed as weight in kilograms divided by height in meters squared (kg/m2). A cut-off point of 18.5 is used to define thinness or acute under-nutrition. A BMI of 25 or above usually indicates being overweight, and 29.9 or above indicates obesity (WHO, 1995). The prevalence of overweight women is a concern because it predisposes them to a wide range of health problems such as diabetes and heart disease, as well as poor birth outcomes. On the other end of the continuum, chronic energy deficiency of women leads to low work productivity and reduced resistance to illness. In the 2016 SLDHS measurements of weight and height was obtained for the majority of the ever-married women included in the sample (92 percent).

Tables 11.10 presents the mean values of the two indicators of nutritional status and the proportion of women falling into high-risk categories according to their background characteristics. Respondents for whom there was no information on height and/or weight, or for whom the values obtained were implausible, are excluded from this analysis. The data analysis on BMI is based on 16,806 ever-married women, while the height analysis is based on 17,888 ever-married women aged 15-49 years (98 percent).

11.9.1 HEIGHT OF WOMEN

In 2016, 7 percent of ever-married women fall below the cut-off of 145 cm. This value is slightly lower than the approximately 11 percent reported in 2006. Small stature is higher among women 40 and older than those under that age. The prevalence of shortness decreases as women's education and household wealth increase (11 percent among the poorest quintile compared to only 4 percent for the richest quintile).

The prevalence of short stature among ever-married women in the estate sector is three time shigher than that observed among those residing in the urban sector (15 and 5 percent, respectively). Variations are also observed across districts, with higher percentages of women below 145 cm in Nuwara-Eliya (13 percent) and Ratnapura (15 percent).

11.9.2 BODY MASS INDEX (BMI) OF WOMEN

Body mass index (BMI)

BMI is calculated by dividing weight in kilograms by height in metres squared (kg/m^2) . A BMI less than 18.5 indicates that the woman is too thin for her height and has a chronic energy deficiency. At the other end of the scale, women are considered overweight if their BMI falls between 25.0 and 29.9 and are obese if their BMI is greater than or equal to 30.0.

sample: Women age15-49 who are not pregnant and who have not had a birth in the 2 months before the survey



The mean BMI for ever-married women age 15-49 years is 24.8. This value is an increase from 23.1 as measured in 2006-07. From the BMI distribution, we can see that only 46 percent of the ever-married women have a normal BMI (between 18.5 and 24.9). Of the 54 percent remaining, 9 percent are considered thin (BMI<18.5), 32 percent overweight (BMI between 25.0 and 29.9), and 13 percent obese (BMI of 30 or higher) (Table 11.10).

The prevalence of thinness varies with the place of residence of the woman (22 percent among evermarried women residing in the estates sector, compared to less than seven percent among those of the urban and rural sectors. Women in the districts of Ratnapura (15 percent) and Killinochci (14 percent) have the highest prevalence of thinness.

Most women who are thin are mildly thin (5 percent); however, 4 percent of women are moderately or severely thin (BMI<17), which indicates chronic energy deficiency. Moderate to severe thinness is highest in the youngest age group (11 percent). Women in the estate sector are three times as likely to be in this category as urban and rural woman. As with low stature, the prevalence of severe and moderate thinness decreases with the level of education of the woman and wealth of the household.

Forty-five percent of ever-married women are overweight or obese (BMI>25). The percentage of women who are overweight or obese increases with the age of the woman, their level of education, and the wealth of their households. Compared to 2006-07, the percentage of ever-married women overweight or obese has increased substantially. Thus, in the last ten years, the percentage of overweight women increased by 33 percent (from 24 percent in 2006-07 to 32 percent in 2016), while the percentage of obese ever-married women increased from 7 percent to 13 percent during the same period.

The prevalence of overweight and obesity is much higher among women living in the urban sector (36 percent and 20 percent, respectively) than in the rural or estates sectors. The prevalence of overweight and obesity is positively associated with the level of education of the woman and the wealth of the household in which they reside (Table 11.10). By district, the prevalence of overweight and obesity is at the highest points in Colombo (37 and 19 percent), Gampaha (35 and 16 percent), and in Mannar (39 and 16 percent).

Table 11.10 Nutritional status of wome
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Among ever married women aged 15-49, the percentage with height under 145 cm, mean Body Mass Index (BMI), and the percentage with specific BMI levels, by background characteristics, Sri Lanka 2016

Parce int below of ever- table Mean (Total start (Total start (Mildy) start (Mildy)		Height					Body Mass Index ¹					
belöw of ever- mass Mass 18.5-24.9		Perce nt-	Number	Mean Body				<17 (Moderatel	>=25.0 (Total	25 0-		Number
145 married women (Tota) (Tita) (Tita) (Mild) severely weightoly (Oese) women Age 15:19 7.2 219 219 66:1 22.9 11.5 11.4 20.0 15.8 5.2 170 20-29 5.3 3.39 6.1 7.406 24.9 46.3 7.8 4.8 3.0 45.9 3.23 15.0 6.33 2.3 52.0 36.1 15.9 6.31 2.29 13.8 2.5 2.55 4.18 6.2 3.8 2.3 52.0 36.1 15.9 6.31 6.30 2.6 55.8 3.6 4.42 3.19 12.4 13.58 Residence Uthan 5.2 2.700 26.1 38.6 5.6 3.0 2.6 53.8 3.11 13.58 8.21 1.60 3.17 1.40 3.0 1.60 1.71 8.6 2.1 4.5 3.0 1.13 1.31.3 1.31.3 1.31		below	of ever-	Mass	18.5-24.9	<18.5	17.0-18.4	y and	over-	29.9		of ever-
Background characteristic cm women (BMI) normal) thin) thin thin) thin thin <th< td=""><td></td><td>145</td><td>married</td><td>Index</td><td>(Total</td><td>(Total</td><td>(Mildly</td><td>severely</td><td>weight or</td><td>(Over-</td><td>>=30.0</td><td>married</td></th<>		145	married	Index	(Total	(Total	(Mildly	severely	weight or	(Over-	>=30.0	married
Age 15-19 7.2 219 9 6.1 2.2.9 11.5 11.4 20.9 15.8 5.2 170 30-39 6.1 7.408 24.9 46.3 76.4 3.0 45.9 32.8 24.4 84.4 3.83 40-49 9.6 6.332 25.5 41.8 6.2 3.8 2.3 52.0 36.1 15.9 6.310 Residence	Background characteristic	cm	women	(BMI)	normal)	`thin)	thin)	thin)	obese)	weight)	(Obese)	women
15-19 7.2 219 21.9 56.1 22.9 11.5 11.4 12.0 16.8 52.2 17.0 32.8 22.4 8.4 3.33 30.39 6.1 7.406 24.9 46.3 7.8 4.8 3.0 32.3 13.6 6.933 Residence Urban 5.2 2.790 26.1 38.6 5.6 3.0 2.6 65.8 35.8 2.01 2.629 Residence Urban 5.2 2.790 26.1 36.6 3.0 2.3.4 17.3 6.1 2.2.0 12.7 9.3 6.4.4 3.1.4 1.6.20 District Colombo 5.8 1.703 26.1 4.6 3.3 2.2.4 1.6.1 1.10 Colombo 5.8 1.703 2.6 1.6.20 1.2.6 6.5 3.3.5 2.6 <t< td=""><td>Age</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Age											
20-29 5.3 3.930 23.3 51.0 16.3 9.2 7.0 32.8 24.4 8.4 3.83 40-49 9.6 6.332 25.5 41.8 6.2 3.8 2.3 52.0 36.1 15.9 6.310 Residence	15-19	7.2	219	21.9	56.1	22.9	11.5	11.4	20.9	15.8	5.2	170
30-39 6.1 7,406 24.9 46.3 7.8 4.8 3.0 45.9 32.3 13.6 6,433 Residence Urban 5.2 2,790 26.1 38.6 5.6 3.0 2.6 65.8 35.8 20.1 26.26 Rural 7.2 14.427 24.6 46.6 9.1 5.5 3.6 44.2 31.9 12.4 13.56 Colombo 5.8 1.703 26.1 30.0 4.6 2.7 59.4 37.1 19.4 16.04 1.76 Colombo 5.8 1.703 26.1 30.0 4.6 2.7 59.4 37.1 19.4 16.04 1.76 Kandy 9.9 1.91 24.8 45.9 9.0 56.6 2.1 45.1 35.1 16.1 1.76 Matae 9.2 488 24.9 44.9 8.3 4.4 4.6 3.0 14.3 4.6 3.0 17.6 54.1 35.1 15.2 11.00 11.0 13.3	20-29	5.3	3,930	23.3	51.0	16.3	9.2	7.0	32.8	24.4	8.4	3,383
40-9 9.6 6,332 25.5 41.8 6.2 3.8 2.3 52.0 36.1 15.9 6,310 Residence Urban 5.2 2,790 26.1 38.6 5.6 3.0 2.6 55.8 35.8 20.1 2,629 Rural 7.2 14,427 24.6 46.6 9.1 5.5 3.6 44.2 31.9 12.4 13.6 6.6 District Colombo 5.8 1,703 26.1 39.0 4.6 2.7 1.9 56.4 37.1 19.4 1,604 Gampaha 4.8 1,832 25.4 45.8 9.0 5.6 3.3 4.51 3.13 1.043 1.45 1.703 1.6 3.1 1.718 8.1 2.1 4.64 3.170 3.6 3.1 1.61 3.1 1.61 3.1 1.63 3.1 1.63 3.1 1.26 4.51 3.1 2.2 8.6 3.1 2.6 6.5 3.5 1.6 9.9 1.1 1.71 5.0 5.6 3	30-39	6.1	7,406	24.9	46.3	7.8	4.8	3.0	45.9	32.3	13.6	6,943
Residence Urban 52 2.70 26.1 38.6 5.6 3.0 2.6 58.8 2.8.1 2.6.29 Barea 14.9 671 22.2 54.6 9.1 5.5 3.6 44.2 31.9 12.4 13.558 District Colombo 5.8 1.703 26.1 30.0 4.6 2.7 19.64.4 37.1 19.4 1604 Gampaha 4.8 1.832 25.4 42.2 6.6 3.9 2.7 51.6 31.6 1.018 Katura 7.2 1.095 24.6 47.6 7.9 56.8 2.1 44.5 31.6 1.31 1.170 Mattar 7.2 1.092 24.6 63.4 13.4 48.3 44.6 93.5 13.4 44.6 93.6 12.4 43.0 47.6 7.9 41.7 31.6 90.6 Mattar 6.3 7.76 24.1 49.6	40-49	9.6	6,332	25.5	41.8	6.2	3.8	2.3	52.0	36.1	15.9	6,310
Urban 5.2 2.790 26.1 38.6 5.6 3.0 2.6 55.8 35.8 20.1 2.8 Estate 14.9 671 22.2 54.6 22.0 12.7 9.3 23.4 17.3 6.1 620 District Colombo 5.8 1.703 26.1 39.0 4.6 2.7 1.9 56.4 37.1 1.94 1.604 Gampaha 4.8 1.832 25.4 42.2 6.6 3.9 2.7 51.2 35.1 16.1 1.714 Kalutara 7.2 1.965 24.4 45.9 9.0 5.6 3.3 45.1 31.3 13.3 1.43 1.43 3.3 2.8 10.5 518 Matale 9.2 488 2.4 4.4 7.3 6.1 3.33 22.8 10.5 518 Gaile 7.7 1.90 5.4 4.41 3.0 130 130 130 130 130 <td>Residence</td> <td></td>	Residence											
Rural 7.2 14.427 24.6 46.6 9.1 5.5 3.6 44.2 31.9 12.4 13.558 District Colombo 5.8 1.703 26.1 39.0 4.6 2.7 19 56.4 37.1 19.4 1.804 Gampaha 4.8 1.832 25.4 42.2 6.6 3.9 2.7 51.2 35.1 11.61 1.718 Kaldrara 7.2 1.095 24.8 45.9 9.0 5.6 3.3 45.1 31.3 13.3 13.9 11.24 13.9 11.201 Matara 7.2 1.905 24.8 47.9 8.3 4.8 3.4 46.9 31.7 15.2 45.1 Matara 7.2 1.902 24.2 46.0 12.3 6.6 5.7 38.1 26.0 15.2 45.8 Jaffna 3.7 46.3 25.4 3.6 3.7 45.3 3.6 1.2.2 65.5	Urban	5.2	2,790	26.1	38.6	5.6	3.0	2.6	55.8	35.8	20.1	2,629
Estate 14.9 671 22.2 54.6 22.0 12.7 9.3 23.4 17.3 6.1 620 District Colombo 5.8 1.703 26.1 39.0 4.6 2.7 1.9 56.4 37.1 19.4 1.604 Gampaha 4.8 1.832 25.4 42.2 6.6 3.9 2.7 51.2 35.1 16.1 1.718 Kalutara 7.2 1.095 24.8 45.9 90. 5.6 3.3 45.1 31.3 13.8 1.043 Matale 9.2 488 24.9 44.9 8.3 4.8 3.4 46.9 31.7 15.2 45.4 Nutara 12.7 645 23.6 53.4 13.4 7.3 6.1 13.3 22.8 10.7 85.0 Matare 8.3 705 24.1 49.6 12.3 7.6 4.1 3.5 54.6 38.6 15.7 34.9 12.7	Rural	7.2	14,427	24.6	46.6	9.1	5.5	3.6	44.2	31.9	12.4	13,558
District Colombo 5.8 1.703 25.4 39.0 4.6 2.7 1.9 56.4 37.1 16.1 1.716 Gampaha 4.8 1.832 25.4 42.2 6.6 3.9 2.7 51.2 35.1 16.1 1.716 Kandy 9.2 1.191 24.8 45.9 9.0 5.6 3.3 45.1 31.3 13.8 10.43 Matale 9.2 4.88 24.9 4.8 3.4 4.8 3.4 4.6 9.3 12.2 456 Matara 8.3 705 24.1 44.7 10.7 4.0 6.5 7 38.1 26.0 12.2 66 Hambantota 6.5 478 24.1 47.7 10.7 4.0 6.5 7 38.1 26.0 12.2 68.0 15.9 32.0 10.2 66.5 Yavunya 5.8 31.5 24.8 46.6 7.9 6.4 1.5 45.0<	Estate	14.9	671	22.2	54.6	22.0	12.7	9.3	23.4	17.3	6.1	620
Colombo 5.8 1,703 26.1 39.0 4.6 2.7 1.9 56.4 37.1 19.4 1,601 Kalutara 7.2 1,095 24.8 45.9 9.0 5.6 2.1 44.5 30.6 13.9 17.1 15.2 45.1 16.1 1,718 Kandy 9.9 1,911 24.8 47.6 7.9 5.8 2.1 44.5 30.6 13.9 1.120 Matale 9.2 488 24.9 44.9 8.3 4.8 3.4 46.9 31.7 15.2 45.6 Galle 7.1 902 24.2 46.0 12.3 7.5 4.9 41.7 31.0 10.7 850 Matara 8.3 7.05 24.1 47.7 10.7 4.0 6.7 41.5 31.6 9.9 43.9 Jaffina 3.7 463 250 450.7 7.4 4.1 3.5 43.0 113.0 130 130 130 130 130 130 130 130 130 130 130 <td< td=""><td>District</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	District											
Gampaha 48 1.832 25.4 42.2 6.6 3.9 2.7 51.2 35.1 16.1 1.718 Kalutara 7.2 1.095 24.8 45.9 9.0 5.6 3.3 45.1 31.3 1.043 Matale 9.2 44.8 24.6 7.9 5.8 2.1 44.5 30.6 13.3 12.1 15.2 454 Nuwara Eliya 12.7 545 23.6 53.4 13.4 7.3 6.1 33.3 22.8 10.5 518 Galle 7.1 902 24.2 46.0 12.3 7.5 4.9 41.7 11.0 10.7 450 17.7 131.6 19.9 438 Jaffna 3.7 463 25.0 45.0 7.4 4.4 3.0 47.6 3.4.9 12.7 7.1.3 79 Vavuniya 5.8 13.5 24.8 46.6 7.9 6.4 1.5 35.4 13.0 13.0 Milinochohi 3.5 9.80 24.2 52.0 8.9 6	Colombo	5.8	1,703	26.1	39.0	4.6	2.7	1.9	56.4	37.1	19.4	1,604
Kandy 9.9 1,191 24.8 47.6 7.9 5.8 2.1 44.5 30.6 13.9 1,120 Matale 9.2 488 24.9 44.9 8.3 4.8 3.4 46.9 31.7 15.2 45.4 Nuwara Eliya 12.7 545 23.6 53.4 13.4 7.3 6.1 33.3 22.8 10.5 518 Galle 6.5 476 24.1 49.6 12.3 7.5 4.9 41.7 31.0 10.7 850 Matara 8.3 705 24.1 49.6 12.3 7.6 4.1 3.5 14.6 9.9 438 Jaffna 3.7 463 25.0 45.0 7.4 4.4 3.0 47.6 34.9 12.7 44.0 Mullativu 5.9 80 24.2 52.0 8.9 6.1 2.9 39.1 2.7 11.3 7.9 Kulinochchi 3.5 9.3 23.8 50.1 14.0 9.9 4.1 35.9 24.0 11.8	Gampaha	4.8	1,832	25.4	42.2	6.6	3.9	2.7	51.2	35.1	16.1	1,718
Kandy 9.9 1,191 24.8 47.6 7.9 5.8 2.1 44.5 3.06 13.9 1,120 Matale 9.2 448 24.9 44.9 8.3 4.8 3.4 4.6.9 3.3 22.8 454 Nuwara Eliya 12.7 645 23.6 63.4 13.4 7.3 6.1 33.3 22.8 10.5 618 Matara 8.3 705 24.1 49.6 12.3 6.6 5.7 38.1 26.0 12.2 665 Hambantota 6.5 74 44.4 3.0 47.6 34.9 12.7 40.0 Mannar 3.0 81 25.4 37.8 7.6 4.1 3.5 54.6 34.6 15.9 75 Varuniya 5.8 13.5 24.4 46.6 7.9 6.4 1.5 45.5 32.4 13.0 130 Milliochi 3.5 9.3 23.8 50.1 14.0 9.9 4.1 35.8 24.0 11.8 8.8 Stilicochi </td <td>Kalutara</td> <td>7.2</td> <td>1,095</td> <td>24.8</td> <td>45.9</td> <td>9.0</td> <td>5.6</td> <td>3.3</td> <td>45.1</td> <td>31.3</td> <td>13.8</td> <td>1,043</td>	Kalutara	7.2	1,095	24.8	45.9	9.0	5.6	3.3	45.1	31.3	13.8	1,043
Matale 9.2 448 24.9 44.9 8.3 4.8 3.4 46.9 31.7 15.2 458 Galle 7.1 902 24.2 46.0 12.3 7.5 4.9 41.7 31.0 10.7 850 Hambantota 6.5 478 24.1 47.7 10.7 4.0 6.6 5.7 38.1 25.0 12.0 66 5.7 38.1 25.0 12.0 66 5.7 38.1 25.0 16.0 7.4 40.0 6.7 41.5 31.6 9.9 43.8 Jaffna 3.7 463 25.0 45.0 7.6 4.1 35.5 54.6 38.6 15.9 7.7 11.3 79 Mulaitivu 5.9 80 24.2 52.0 8.9 61 2.9 93.1 27.7 11.3 79 Klinochhi 3.5 93 23.8 80.01 10.7 71.7 20.2 42.2 31.6	Kandy	9.9	1,191	24.8	47.6	7.9	5.8	2.1	44.5	30.6	13.9	1,120
Nuwara Eliya 12/ 545 23.6 53.4 13.4 7.3 6.1 33.3 22.8 10.5 518 Galle 7.1 902 24.2 46.0 12.3 6.6 5.7 38.1 26.0 12.2 665 Hambantota 6.5 478 24.1 47.7 10.7 4.0 6.7 41.5 31.6 9.9 43.8 Jaffma 3.7 463 25.0 45.0 7.4 4.4 3.0 47.6 34.9 12.7 64.0 Mannar 3.0 81 25.4 37.8 7.6 4.1 3.5 54.6 38.6 15.9 75 43.0 130 130 Mullatitivu 5.9 80 24.2 52.0 12.4 48.6 7.3 48.7 31.8 16.9 436 Ampara 5.6 725 25.0 45.4 84.5 5.2 43.42 21.6 13.6 14.0 99 41.5 </td <td>Matale</td> <td>9.2</td> <td>488</td> <td>24.9</td> <td>44.9</td> <td>8.3</td> <td>4.8</td> <td>3.4</td> <td>46.9</td> <td>31.7</td> <td>15.2</td> <td>454</td>	Matale	9.2	488	24.9	44.9	8.3	4.8	3.4	46.9	31.7	15.2	454
Galle 7.1 902 24.2 40.0 12.3 7.5 4.9 41.7 31.0 10.7 850 Matara 6.5 478 24.1 49.6 12.3 6.6 5.7 38.1 22.6 65 Hambantota 6.5 478 24.1 47.7 10.7 4.0 6.7 41.5 31.6 9.9 438 Jaffna 3.7 463 25.0 45.0 7.6 4.1 3.5 54.6 38.6 15.9 75 Vavunya 5.8 135 24.8 46.6 7.9 6.4 15.4 55.3 24.0 11.8 88 Batticaloa 6.1 528 25.0 40.7 10.7 54 5.3 48.7 31.8 86.6 14.5 669 Trincomalee 8.0 351 25.5 41.3 7.6 3.6 40.5 11.3 28.0 13.7 42.2 32.1 10.1 1.481	Nuwara Eliya	12.7	545	23.6	53.4	13.4	7.3	6.1	33.3	22.8	10.5	518
Matalari 6.5 7.05 24.1 44.9 12.3 0.6 5.7 48.1 20.0 12.2 600 Jaffna 3.7 463 25.0 45.0 7.4 4.4 3.0 47.6 34.9 12.7 440 Mannar 3.0 81 25.4 37.8 7.6 4.1 3.5 54.6 38.6 135.5 43.8 130 Mullaithu 5.9 80 24.2 52.0 8.9 6.1 2.9 39.1 27.7 11.3 79 Mullaithu 5.9 80 24.2 52.0 8.9 6.1 2.9 39.1 27.7 11.3 79 Ampara 5.6 725 25.0 45.4 8.4 5.2 3.4 42.2 2.1 11.8 18.0 496 Ampara 5.6 25.5 41.3 7.6 3.6 40.0 51.1 32.6 18.0 14.2 0.01 1.4.8 14.7	Galle	7.1	902	24.2	46.0	12.3	7.5	4.9	41.7	31.0	10.7	850
nainbainban 0.3 47.6 24.1 47.7 10.7 4.0 0.7 41.3 31.0 3.9 43.8 Jaffna 3.7 463 25.0 45.0 7.4 4.4 3.0 0.7 6.1.3 0.5 54.6 38.6 15.9 75 Vavuniya 5.8 135 24.8 46.6 7.9 6.4 1.5 45.5 32.4 13.0 13.7 13.7 79 Kilinochchi 3.5 93 23.8 50.1 14.0 9.9 4.1 35.9 24.0 11.8 88 Batticaloa 6.1 528 25.0 40.7 10.7 5.4 5.3 48.7 31.8 16.9 496 Ampara 5.6 725 25.0 45.4 8.4 5.2 32.2 42.0 11.8 88 Batticaloa 6.1 528 25.5 41.3 7.6 3.6 40.7 32.7 12.0 917 Putalam 4.5 4.53 2.4 4.7 2.6 4.7 32.7	Hombontoto	0.3	705	24.1	49.0	12.3	0.0	5.7 6.7	30.1	20.0	12.2	420
Mannar 3.0 81 254 37.8 7.6 4.1 3.5 54.6 38.6 15.9 75 Vavuniya 5.8 135 24.8 46.6 7.9 6.4 1.5 45.5 32.4 13.0 130 130 Mullaitivu 5.9 80 24.2 52.0 8.9 6.1 2.9 39.1 27.7 11.3 79 Kilinochchi 3.5 93 23.8 50.1 14.0 9.9 4.1 35.9 24.0 11.8 88 Batticaloa 6.1 52.8 20.0 45.4 8.4 5.2 3.2 46.2 31.6 14.5 669 Trincomalee 8.0 351 25.5 41.3 7.6 3.6 4.0 51.1 32.8 10.1 1.481 Putatam 4.5 655 25.5 41.3 7.6 3.6 4.0 51.1 32.8 18.2 617 Polonaruwa 5.9 392 24.1 49.3 12.0 6.3 5.6 38.7 12.6	laffna	0.5	470	24.1	47.7	74	4.0	3.0	41.5	31.0	9.9	430
Vavumiya 5.8 135 24.8 46.6 7.9 6.4 1.5 45.5 32.4 13.0 130 Mullativu 5.9 80 24.2 52.0 8.9 6.1 2.9 39.1 27.7 11.3 79 Kilinochchi 3.5 93 23.8 50.1 14.0 9.9 4.1 35.9 24.0 11.8 88 Batticaloa 6.1 528 25.0 45.4 84.5 5.2 3.2 46.2 31.6 14.5 669 Trincomalee 8.0 351 25.5 41.0 7.4 4.6 2.9 51.1 32.8 18.2 617 Aruradhapura 6.0 978 24.4 49.3 12.0 6.3 5.6 85.7 2.6 12.1 32.0 81.3 665 Moreragala 6.5 469 24.1 50.1 9.7 7.7 2.0 40.2 31.9 8.3 665 Moreragala 6.5 469 24.5 48.8 8.5 5.3 3.2 42.	Mannar	3.0	81	25.0	37.8	7.4	4 1	3.5	54.6	38.6	15.9	75
Mulaitivu 5.9 80 24.2 52.0 8.9 6.1 2.9 39.1 27.7 11.3 79 Kilinochchi 3.5 93 23.8 50.1 14.0 9.9 4.1 35.9 24.0 11.8 88 Batticaloa 6.1 528 25.0 40.7 10.7 5.4 5.3 48.7 31.8 16.9 496 Ampara 5.6 725 25.0 45.4 8.4 5.2 3.2 46.2 31.6 14.5 669 Trincomalee 8.0 351 25.5 41.0 7.4 4.6 2.9 51.5 33.5 18.0 324 Kurunegala 7.1 1.584 24.4 48.3 9.5 5.2 4.3 42.2 32.1 10.1 1.481 Putratam 4.5 655 25.5 41.3 7.6 3.6 4.0 51.1 32.8 18.2 61.7 10.0 10.7 7.4 4.7 2.6 44.7 32.7 12.0 91.7 10.2 12.2 2.2 <td>Vavuniva</td> <td>5.8</td> <td>135</td> <td>24.8</td> <td>46.6</td> <td>7.9</td> <td>6.4</td> <td>1.5</td> <td>45.5</td> <td>32.4</td> <td>13.0</td> <td>130</td>	Vavuniva	5.8	135	24.8	46.6	7.9	6.4	1.5	45.5	32.4	13.0	130
Kilinochchi 3.5 93 23.8 50.1 14.0 9.9 4.1 35.9 24.0 11.8 88 Batticaloa 6.1 528 25.0 40.7 10.7 5.4 5.3 48.7 31.8 16.9 496 Ampara 5.6 725 25.0 45.4 8.4 5.2 3.2 46.2 31.6 14.5 669 Trincomalee 8.0 351 25.5 41.0 7.4 4.6 2.9 51.5 33.5 18.0 324 Kurunegala 7.1 1,584 24.4 48.3 9.5 5.2 4.3 42.2 32.1 10.1 1,481 Puttalam 4.5 655 25.5 41.3 7.6 3.6 4.0 51.1 32.8 18.2 617 Polonnaruwa 5.9 392 24.1 49.3 12.0 6.3 5.6 8.7 72.0 40.2 31.9 8.3 665 Moneragala 6.5 469 24.3 48.1 9.7 7.7 2.0 4	Mullaitivu	5.9	80	24.2	52.0	8.9	6.1	2.9	39.1	27.7	11.3	79
Batticaloa 6.1 528 25.0 40.7 10.7 5.4 5.3 48.7 31.8 16.9 496 Ampara 5.6 725 25.0 45.4 8.4 5.2 3.2 46.2 31.6 14.5 669 Trincomalee 8.0 351 25.5 41.0 7.4 4.6 2.9 51.5 33.5 18.0 324 Kurunegala 7.1 1.584 24.4 48.3 9.5 5.2 4.3 42.2 32.1 10.1 1.481 Puttalam 4.5 655 25.5 41.3 7.6 3.6 40.7 32.7 12.0 917 Polonnaruwa 5.9 392 24.1 49.3 12.0 6.3 5.6 38.7 26.6 12.1 360 Moeragala 6.5 469 24.3 48.1 9.7 6.5 3.2 42.2 31.8 10.5 440 Ratnapura 11.8 1.073 23.7 46.2 15.2 8.9 6.2 38.6 29.7 8.9 <	Kilinochchi	3.5	93	23.8	50.1	14.0	9.9	4.1	35.9	24.0	11.8	88
Ampara 5.6 725 25.0 45.4 8.4 5.2 3.2 46.2 31.6 14.5 669 Trincomalee 8.0 351 25.5 41.0 7.4 4.6 2.9 51.5 33.5 18.0 324 Puttalam 4.5 655 25.5 41.3 7.6 3.6 4.0 51.1 32.8 18.2 617 Anuradhapura 6.0 978 24.8 47.9 7.4 4.7 2.6 44.7 32.7 12.0 917 Polonnaruwa 5.9 392 24.1 49.3 12.0 6.3 5.6 38.7 26.6 12.1 360 Badulla 8.7 708 24.1 50.1 9.7 7.7 2.0 40.2 31.9 8.3 665 Moreragala 6.5 469 24.3 48.8 9.5 5.3 3.2 42.8 32.1 10.7 594 Education 23.9 279 23.3 53.1 15.9 10.2 5.7 31.0 21.4 9.6<	Batticaloa	6.1	528	25.0	40.7	10.7	5.4	5.3	48.7	31.8	16.9	496
Trincomalee 8.0 351 25.5 41.0 7.4 4.6 2.9 51.5 33.5 18.0 324 Kurunegala 7.1 1,584 24.4 48.3 9.5 5.2 4.3 42.2 32.1 10.1 1,481 Puttalam 4.5 655 25.5 41.3 7.6 3.6 4.0 51.1 32.8 18.2 617 Anuradhapura 6.0 978 24.8 47.9 7.4 4.7 2.6 44.7 32.7 12.0 917 Polonnaruwa 5.9 392 24.1 49.3 12.0 6.3 5.6 38.7 26.6 12.1 360 Badulla 8.7 708 24.1 50.1 9.7 7.7 2.0 40.2 31.9 8.3 665 Moneragala 6.5 469 24.3 48.1 9.7 6.5 3.2 42.2 31.8 10.5 440 Ratnapura 11.8 10.73 23.7 46.2 15.2 8.9 6.2 38.6 2.9	Ampara	5.6	725	25.0	45.4	8.4	5.2	3.2	46.2	31.6	14.5	669
Kurunegala 7.1 1,584 24.4 48.3 9.5 5.2 4.3 42.2 32.1 10.1 1,481 Puttalam 4.5 655 25.5 41.3 7.6 3.6 4.0 51.1 32.8 18.2 617 Anuradhapura 6.0 978 24.8 47.9 7.4 4.7 2.6 44.7 32.7 12.0 917 Polonnaruwa 5.9 392 24.1 49.3 12.0 6.3 5.6 38.7 26.6 12.1 360 Badulla 8.7 708 24.1 50.1 9.7 7.7 2.0 40.2 31.8 10.5 440 Ratnapura 11.8 1,073 23.7 46.2 15.2 8.9 6.2 38.6 29.7 8.9 1,022 Kegalle 7.7 634 24.5 48.8 8.5 5.3 3.2 42.8 32.1 10.7 594 Education R R R R R R R R R R R </td <td>Trincomalee</td> <td>8.0</td> <td>351</td> <td>25.5</td> <td>41.0</td> <td>7.4</td> <td>4.6</td> <td>2.9</td> <td>51.5</td> <td>33.5</td> <td>18.0</td> <td>324</td>	Trincomalee	8.0	351	25.5	41.0	7.4	4.6	2.9	51.5	33.5	18.0	324
Putalam 4.5 655 25.5 41.3 7.6 3.6 4.0 51.1 32.8 18.2 617 Anuradhapura 6.0 978 24.8 47.9 7.4 4.7 2.6 44.7 32.7 12.0 9137 Polonnaruwa 5.9 392 24.1 49.3 12.0 6.3 5.6 38.7 26.6 12.1 360 Badulla 8.7 708 24.1 50.1 9.7 7.7 2.0 40.2 31.9 8.3 665 Moneragala 6.5 469 24.3 48.1 9.7 6.5 3.2 42.2 31.8 10.5 440 Ratnapura 11.8 1.073 23.7 46.2 15.2 8.9 6.2 38.6 29.7 8.9 1,022 Kegalle 7.7 634 24.5 48.8 8.5 5.3 3.2 42.8 32.1 10.7 594 Education 2.9 2.4 44.8 13.3 7.3 6.0 41.9 27.3 14.6 1,	Kurunegala	7.1	1,584	24.4	48.3	9.5	5.2	4.3	42.2	32.1	10.1	1,481
Anuradinapura 6.0 978 24.8 47.9 7.4 4.7 2.6 44.7 3.2.7 12.0 917 Polonnaruwa 5.9 392 24.1 49.3 12.0 6.3 5.6 38.7 26.6 12.1 360 Badulla 8.7 708 24.1 50.1 9.7 7.7 2.0 40.2 31.9 8.3 665 Moneragala 6.5 469 24.3 48.1 9.7 6.5 3.2 42.2 31.8 10.5 440 Ratnapura 11.8 1.073 23.7 46.2 15.2 8.9 6.2 38.6 29.7 8.9 1,022 Kegalle 7.7 634 24.5 48.8 8.5 5.3 3.2 42.8 32.1 10.7 594 Education Passed Grade 6-10 8.2 7,927 24.6 46.7 9.7 5.7 4.0 43.6 0.4 13.2 7,503 Passed Grade 6-10 8.2 7,927 24.6 46.7 9.7 5.7 4.0	Puttalam	4.5	655	25.5	41.3	7.6	3.6	4.0	51.1	32.8	18.2	617
Protonnaruwa 5.9 392 24.1 49.3 12.0 0.3 5.6 38.7 26.6 12.1 300 Badulla 8.7 708 24.1 50.1 9.7 7.7 2.0 40.2 31.9 8.3 665 Moneragala 6.5 469 24.3 48.1 9.7 6.5 3.2 42.2 31.8 10.5 440 Ratnapura 11.8 1.073 23.7 46.2 15.2 8.9 6.2 38.6 29.7 8.9 1,022 Kegalle 7.7 634 24.5 48.8 8.5 5.3 3.2 42.8 32.1 10.7 594 Education 23.9 279 23.3 53.1 15.9 10.2 5.7 31.0 21.4 9.6 276 Passed Grade 1-5 14.2 1,229 24.4 44.8 13.3 7.3 6.0 41.9 27.3 14.6 1,202 Passed Grade 6-10 8.2 7,927 24.6 46.7 9.7 5.7 4.0 43.6 <th< td=""><td>Anuradnapura</td><td>6.0</td><td>978</td><td>24.8</td><td>47.9</td><td>1.4</td><td>4.7</td><td>2.6</td><td>44.7</td><td>32.7</td><td>12.0</td><td>917</td></th<>	Anuradnapura	6.0	978	24.8	47.9	1.4	4.7	2.6	44.7	32.7	12.0	917
Moneragala 6.7 706 24.1 30.1 9.7 7.7 2.0 40.2 31.8 6.3 603 Moneragala 6.5 469 24.3 48.1 9.7 6.5 3.2 42.2 31.8 10.5 440 Ratnapura 11.8 1,073 23.7 46.2 15.2 8.9 6.2 38.6 29.7 8.9 1,022 Kegalle 7.7 634 24.5 48.8 8.5 5.3 3.2 42.8 32.1 10.7 594 Education No education 23.9 279 23.3 53.1 15.9 10.2 5.7 31.0 21.4 9.6 276 Passed Grade 1-5 14.2 1,229 24.4 44.8 13.3 7.3 6.0 41.9 27.3 14.6 1,202 Passed Grade 6-10 8.2 7,927 24.6 46.7 9.7 5.7 4.0 43.6 30.4 13.2 7,503 Passed G.C.E.(A/L) or equivalent 4.9 3,958 25.0 45.0 8.0 <td>Polonnaruwa</td> <td>5.9 0 7</td> <td>392</td> <td>24.1</td> <td>49.3</td> <td>12.0</td> <td>0.3</td> <td>5.0</td> <td>30.7</td> <td>20.0</td> <td>12.1</td> <td>300</td>	Polonnaruwa	5.9 0 7	392	24.1	49.3	12.0	0.3	5.0	30.7	20.0	12.1	300
Nonoragana 0.3 703 23.7 46.2 15.7 0.3 5.2 42.2 51.0 10.3 1.422 Ratnapura 11.8 1,073 23.7 46.2 15.2 8.9 6.2 38.6 22.7 8.9 1,022 Kegalle 7.7 634 24.5 48.8 8.5 5.3 3.2 42.8 32.1 10.7 594 Education 23.9 279 23.3 53.1 15.9 10.2 5.7 31.0 21.4 9.6 276 Passed Grade 1-5 14.2 1,229 24.4 44.8 13.3 7.3 6.0 41.9 27.3 14.6 1,202 Passed G.C.E.(O/L) or equivalent 4.9 3,958 25.0 44.1 7.7 4.8 2.9 48.2 34.5 13.6 3,691 Passed G.C.E.(A/L) or equivalent 4.3 3,654 25.0 45.0 8.0 4.8 3.2 47.0 33.5 13.4 3,387 Degree and above 5.2 841 25.2 50.9	Moneragala	6.5	169	24.1		9.7	65	2.0	40.2	31.8	10.5	440
Kegalle 7.7 634 24.5 48.8 8.5 5.3 3.2 42.8 32.1 10.7 554 Education No education 23.9 279 23.3 53.1 15.9 10.2 5.7 31.0 21.4 9.6 276 Passed Grade 1-5 14.2 1,229 24.4 44.8 13.3 7.3 6.0 41.9 27.3 14.6 1,202 Passed Grade 6-10 8.2 7,927 24.6 46.7 9.7 5.7 4.0 43.6 30.4 13.2 7,503 Passed G.C.E.(O/L) or equivalent 4.9 3,958 25.0 44.1 7.7 4.8 2.9 48.2 34.5 13.6 3,691 Passed G.C.E.(A/L) or equivalent 4.3 3,654 25.0 45.0 8.0 4.8 3.2 47.0 33.5 13.4 3,897 Degree and above 5.2 841 25.2 44.7 4.8 3.1 1.7 50.4 38.5 11.9 748 Wealth quintile Lowest 10.9 3,290 2	Ratnanura	11.8	1 073	23.7	46.2	15.2	8.9	6.2	38.6	29.7	8.9	1 022
Education No education 23.9 279 23.3 53.1 15.9 10.2 5.7 31.0 21.4 9.6 276 Passed Grade 1-5 14.2 1,229 24.4 44.8 13.3 7.3 6.0 41.9 27.3 14.6 1,202 Passed Grade 6-10 8.2 7,927 24.6 46.7 9.7 5.7 4.0 43.6 30.4 13.2 7,503 Passed G.C.E.(O/L) or equivalent 4.9 3,958 25.0 44.1 7.7 4.8 2.9 48.2 34.5 13.6 3,691 Passed G.C.E.(A/L) or equivalent 4.3 3,654 25.0 45.0 8.0 4.8 3.2 47.0 33.5 13.4 3,387 Degree and above 5.2 841 25.2 44.7 4.8 3.1 1.7 50.4 38.5 11.9 748 Wealth quintile Lowest 10.9 3,290 23.2 50.9 16.1 8.9 7.3 33.	Kegalle	7.7	634	24.5	48.8	8.5	5.3	3.2	42.8	32.1	10.7	594
No education 23.9 279 23.3 53.1 15.9 10.2 5.7 31.0 21.4 9.6 276 Passed Grade 1-5 14.2 1,229 24.4 44.8 13.3 7.3 6.0 41.9 27.3 14.6 1,202 Passed Grade 6-10 8.2 7,927 24.6 46.7 9.7 5.7 4.0 43.6 30.4 13.2 7,503 Passed G.C.E.(O/L) or equivalent 4.9 3,958 25.0 44.1 7.7 4.8 2.9 48.2 34.5 13.6 3,691 Passed G.C.E.(A/L) or equivalent 4.3 3,654 25.0 45.0 8.0 4.8 3.2 47.0 33.5 13.4 3,387 Degree and above 5.2 841 25.2 44.7 4.8 3.1 1.7 50.4 38.5 11.9 748 Wealth quintile Lowest 10.9 3,929 23.2 50.9 16.1 8.9 7.3 33.0 24.5 8.5 3,109 Second 8.8 3,600 24.2 48.	Education											
Passed Grade 1-5 14.2 1,22 24.4 44.8 13.3 7.3 6.0 41.9 27.3 14.6 1,202 Passed Grade 6-10 8.2 7,927 24.6 46.7 9.7 5.7 4.0 43.6 30.4 13.2 7,503 Passed G.C.E.(O/L) or equivalent 4.9 3,958 25.0 44.1 7.7 4.8 2.9 48.2 34.5 13.6 3,691 Passed G.C.E.(A/L) or equivalent 4.3 3,654 25.0 45.0 8.0 4.8 3.2 47.0 33.5 13.4 3,387 Degree and above 5.2 841 25.2 44.7 4.8 3.1 1.7 50.4 38.5 11.9 748 Wealth quintile Lowest 10.9 3,290 23.2 50.9 16.1 8.9 7.3 33.0 24.5 8.5 3,199 Second 8.8 3,600 24.2 48.5 11.4 6.8 4.6 40.1 28.8 11.3 3,399 Middle 6.8 3,748 24.7 47.1 <td>No education</td> <td>23.9</td> <td>279</td> <td>23.3</td> <td>53 1</td> <td>15.9</td> <td>10.2</td> <td>57</td> <td>31.0</td> <td>21.4</td> <td>96</td> <td>276</td>	No education	23.9	279	23.3	53 1	15.9	10.2	57	31.0	21.4	96	276
Passed Grade 6-10 8.2 7,927 24.6 46.7 9.7 5.7 4.0 43.6 30.4 13.2 7,503 Passed G.C.E.(O/L) or equivalent 4.9 3,958 25.0 44.1 7.7 4.8 2.9 48.2 34.5 13.6 3,691 Passed G.C.E.(A/L) or equivalent 4.3 3,654 25.0 45.0 8.0 4.8 3.2 47.0 33.5 13.4 3,887 Degree and above 5.2 841 25.2 44.7 4.8 3.1 1.7 50.4 38.5 11.9 748 Wealth quintile Lowest 10.9 3,290 23.2 50.9 16.1 8.9 7.3 33.0 24.5 8.5 3,199 Second 8.8 3,600 24.2 48.5 11.4 6.8 4.6 40.1 28.8 11.3 3,399 Second 8.8 3,748 24.7 47.1 8.1 5.2 2.9 44.8 32.4 12.4 3,524 Fourth 5.7 3,738 25.3 43.3 <t< td=""><td>Passed Grade 1-5</td><td>14.2</td><td>1.229</td><td>24.4</td><td>44.8</td><td>13.3</td><td>7.3</td><td>6.0</td><td>41.9</td><td>27.3</td><td>14.6</td><td>1.202</td></t<>	Passed Grade 1-5	14.2	1.229	24.4	44.8	13.3	7.3	6.0	41.9	27.3	14.6	1.202
Passed G.C.E.(O/L) or equivalent 4.9 3,958 25.0 44.1 7.7 4.8 2.9 48.2 34.5 13.6 3,691 Passed G.C.E.(A/L) or equivalent 4.3 3,654 25.0 45.0 8.0 4.8 3.2 47.0 33.5 13.4 3,387 Degree and above 5.2 841 25.2 44.7 4.8 3.1 1.7 50.4 38.5 11.9 748 Wealth quintile Lowest 10.9 3,290 23.2 50.9 16.1 8.9 7.3 33.0 24.5 8.5 3,109 Second 8.8 3,600 24.2 48.5 11.4 6.8 4.6 40.1 28.8 11.3 3,399 Middle 6.8 3,748 24.7 47.1 8.1 5.2 2.9 44.8 32.4 12.4 3,524 Fourth 5.7 3,738 25.3 43.3 6.1 3.8 2.3 50.6 35.3 15.3 3,465 Highest 4.1 3,512 26.2 <t< td=""><td>Passed Grade 6-10</td><td>8.2</td><td>7,927</td><td>24.6</td><td>46.7</td><td>9.7</td><td>5.7</td><td>4.0</td><td>43.6</td><td>30.4</td><td>13.2</td><td>7,503</td></t<>	Passed Grade 6-10	8.2	7,927	24.6	46.7	9.7	5.7	4.0	43.6	30.4	13.2	7,503
Passed G.C.E.(A/L) or 4.9 3,950 25.0 44.1 7.7 4.0 2.9 40.2 34.5 13.0 3,091 Passed G.C.E.(A/L) or equivalent 4.3 3,654 25.0 45.0 8.0 4.8 3.2 47.0 33.5 13.4 3,387 Degree and above 5.2 841 25.2 44.7 4.8 3.1 1.7 50.4 38.5 11.9 748 Wealth quintile 8.9 7.3 33.0 24.5 8.5 3,199 Second 8.8 3,600 24.2 48.5 11.4 6.8 4.6 40.1 28.8 11.3 3,399 Middle 6.8 3,748 24.7 47.1 8.1 5.2 2.9 44.8 32.4 12.4 3,524 Fourth 5.7 3,738 25.3 43.3 6.1 3.8 2.3 50.6 35.3 15.3 3,465 Highest 4.1 3,512 26.2 38.9 4.1 2.5	Passed G.C.E.(U/L) or	4.0	3 050	25.0	A A 4	77	4.0	2.0	10 0	21 F	10 F	3 601
equivalent 4.3 3,654 25.0 45.0 8.0 4.8 3.2 47.0 33.5 13.4 3,387 Degree and above 5.2 841 25.2 44.7 4.8 3.1 1.7 50.4 38.5 11.9 748 Wealth quintile Lowest 10.9 3,290 23.2 50.9 16.1 8.9 7.3 33.0 24.5 8.5 3,109 Second 8.8 3,600 24.2 48.5 11.4 6.8 4.6 40.1 28.8 11.3 3,399 Middle 6.8 3,748 24.7 47.1 8.1 5.2 2.9 44.8 32.4 12.4 3,524 Fourth 5.7 3,738 25.3 43.3 6.1 3.8 2.3 50.6 35.3 15.3 3,465 Highest 4.1 3,512 26.2 38.9 4.1 2.5 1.5 57.1 38.2 18.8 3,309 Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2). <td>Passed G C F (A/L) or</td> <td>4.9</td> <td>3,950</td> <td>25.0</td> <td>44.1</td> <td>1.1</td> <td>4.0</td> <td>2.9</td> <td>40.2</td> <td>34.5</td> <td>13.0</td> <td>3,091</td>	Passed G C F (A/L) or	4.9	3,950	25.0	44.1	1.1	4.0	2.9	40.2	34.5	13.0	3,091
Degree and above 5.2 841 25.2 44.7 4.8 3.1 1.7 50.4 38.5 11.9 748 Wealth quintile Lowest 10.9 3,290 23.2 50.9 16.1 8.9 7.3 33.0 24.5 8.5 3,199 Second 8.8 3,600 24.2 48.5 11.4 6.8 4.6 40.1 28.8 11.3 3,399 Middle 6.8 3,748 24.7 47.1 8.1 5.2 2.9 44.8 32.4 12.4 3,524 Fourth 5.7 3,738 25.3 43.3 6.1 3.8 2.3 50.6 35.3 15.3 3,465 Highest 4.1 3,512 26.2 38.9 4.1 2.5 1.5 57.1 38.2 18.8 3,309 Total 7.2 17,888 24.8 45.7 9.1 5.4 3.7 45.3 31.9 13.3 16,806 <th< td=""><td>equivalent</td><td>4.3</td><td>3.654</td><td>25.0</td><td>45.0</td><td>8.0</td><td>4.8</td><td>3.2</td><td>47.0</td><td>33.5</td><td>13.4</td><td>3.387</td></th<>	equivalent	4.3	3.654	25.0	45.0	8.0	4.8	3.2	47.0	33.5	13.4	3.387
Wealth quintile Lowest 10.9 3,290 23.2 50.9 16.1 8.9 7.3 33.0 24.5 8.5 3,109 Second 8.8 3,600 24.2 48.5 11.4 6.8 4.6 40.1 28.8 11.3 3,399 Middle 6.8 3,748 24.7 47.1 8.1 5.2 2.9 44.8 32.4 12.4 3,524 Fourth 5.7 3,738 25.3 43.3 6.1 3.8 2.3 50.6 35.3 15.3 3,465 Highest 4.1 3,512 26.2 38.9 4.1 2.5 1.5 57.1 38.2 18.8 3,309 Total 7.2 17,888 24.8 45.7 9.1 5.4 3.7 45.3 31.9 13.3 16,806 Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2). 1 1 scular state state statestas	Degree and above	5.2	841	25.2	44.7	4.8	3.1	1.7	50.4	38.5	11.9	748
Lowest 10.9 3,290 23.2 50.9 16.1 8.9 7.3 33.0 24.5 8.5 3,109 Second 8.8 3,600 24.2 48.5 11.4 6.8 4.6 40.1 28.8 11.3 3,399 Middle 6.8 3,748 24.7 47.1 8.1 5.2 2.9 44.8 32.4 12.4 3,524 Fourth 5.7 3,738 25.3 43.3 6.1 3.8 2.3 50.6 35.3 15.3 3,465 Highest 4.1 3,512 26.2 38.9 4.1 2.5 1.5 57.1 38.2 18.8 3,309 Total 7.2 17,888 24.8 45.7 9.1 5.4 3.7 45.3 31.9 13.3 16,806 Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2). 1 1 Fourths 1 1 4.5 1.5 3.1.9 13.3 16,806	Wealth guintile											
Second 8.8 3,600 24.2 48.5 11.4 6.8 4.6 40.1 28.8 11.3 3,399 Middle 6.8 3,748 24.7 47.1 8.1 5.2 2.9 44.8 32.4 12.4 3,524 Fourth 5.7 3,738 25.3 43.3 6.1 3.8 2.3 50.6 35.3 15.3 3,465 Highest 4.1 3,512 26.2 38.9 4.1 2.5 1.5 57.1 38.2 18.8 3,309 Total 7.2 17,888 24.8 45.7 9.1 5.4 3.7 45.3 31.9 13.3 16,806 Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2). 1 1 5.4 3.7 45.3 31.9 13.3 16,806	Lowest	10.9	3,290	23.2	50.9	16.1	8.9	7.3	33.0	24.5	8.5	3,109
Middle 6.8 3,748 24.7 47.1 8.1 5.2 2.9 44.8 32.4 12.4 3,524 Fourth 5.7 3,738 25.3 43.3 6.1 3.8 2.3 50.6 35.3 15.3 3,465 Highest 4.1 3,512 26.2 38.9 4.1 2.5 1.5 57.1 38.2 18.8 3,309 Total 7.2 17,888 24.8 45.7 9.1 5.4 3.7 45.3 31.9 13.3 16,806 Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2). 1 5.4 3.7 45.3 31.9 13.3 16,806	Second	8.8	3,600	24.2	48.5	11.4	6.8	4.6	40.1	28.8	11.3	3,399
Fourth Highest 5.7 3,738 25.3 43.3 6.1 3.8 2.3 50.6 35.3 15.3 3,465 Highest 4.1 3,512 26.2 38.9 4.1 2.5 1.5 57.1 38.2 18.8 3,309 Total 7.2 17,888 24.8 45.7 9.1 5.4 3.7 45.3 31.9 13.3 16,806 Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2). 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 3 16,806	Middle	6.8	3,748	24.7	47.1	8.1	5.2	2.9	44.8	32.4	12.4	3,524
Highest 4.1 3,512 26.2 38.9 4.1 2.5 1.5 57.1 38.2 18.8 3,309 Total 7.2 17,888 24.8 45.7 9.1 5.4 3.7 45.3 31.9 13.3 16,806 Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2). 1 5.4 3.7 45.3 31.9 13.3 16,806	Fourth	5.7	3,738	25.3	43.3	6.1	3.8	2.3	50.6	35.3	15.3	3,465
Total 7.2 17,888 24.8 45.7 9.1 5.4 3.7 45.3 31.9 13.3 16,806 Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2). 1	Highest	4.1	3,512	26.2	38.9	4.1	2.5	1.5	57.1	38.2	18.8	3,309
Note: The Body Mass Index (BMI) is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m2).	Total	7.2	17,888	24.8	45.7	9.1	5.4	3.7	45.3	31.9	13.3	16,806
	Note: The Body Mass Index	(BMI) is	expressed a	as the ratio	o of weight in	kilogram	s to the squ	are of heigh	t in meters	(kg/m2).		

11.10 FOODS CONSUMED BY MOTHERS

Mother's consumption of a variety of nutritious foods influences the health condition of mothers and their children. Adequate amounts of carbohydrates, protein, fat, vitamins and minerals are required for a well-balanced diet. The 2016 SLDHS includes a set of questions to inquire about the type of foods consumed by mothers of children under 3 years of age, during the day or night preceding the interview. Food consumption was obtained with a 24-hour dietary recall.



Eighty-eight percent of mothers had eaten vitamin A rich food, and 62 percent had eaten animal protein (other than dairy). Sixty-nine percent of women ate legumes or legume –based food in the previous day. The consumption of animal protein (other than dairy) increases with the level of education of the mother and wealth of the household. In the estate sector, the consumption of all protein sources such as milk, meat/fish/poultry/ eggs, legumes and cheese/ yogurt is lower than in urban and rural areas. Sugary foods and foods made with oil/fat/butter are most commonly consumed by the mothers in urban sectorsrather than rural or estate sector mothers. Mothers in the lowest wealth quintile have less variety in their diets than those in the highest wealth quintile, a diet that is particularly deficient in the consumption of cheese/yogurt. The consumption of cheese/yogurt in the highest wealth quintile mothers is approximately 3 times of that of the lowest wealth quintile.

night preceding th	ne intervi	ew, by ba	ackgroun	d charact	teristics,	Sri Lanka	2016	ine percer	itage who c	onsumed spi	some type	55 01 1000	3 11 110 0	lay Ul
			Liquids			Solid or	r semi-soli	d foods						
Background characteristic	Milk	Tea/ coffee	Other liquids	Foods made from grains	Foods made from roots/ tubers	Foods made from legumes	Meat/ fish/ shellfish/ poultry/ eggs	Cheese/ yogurt	Vitamin A - rich fruits/ vegetables	Other fruits/ vegetables	Other solid or semi- solid food	Foods made with oil/ fat/ butter	Sugary foods	Number of women
Age														
15-19	17.7	87.3	31.9	96.5	53.9	64.2	55.5	20.3	85.4	43.2	89.0	49.4	25.6	70
20-29	18.0	89.9	26.9	95.6	53.1	68.1 68.8	63.4	21.2	87.5	50.3	88.9	45.5	27.3	1,952
40-49	16.8	91.0	23.7	95.9 97.5	60.6	73.1	54.9	22.1	86.7	52.0	93.5	56.5	33.4	2,272
Desidence														
Urban	23.2	89.4	34.9	94 1	55 1	64.3	73 7	26.6	85.2	50.8	83.4	49.6	35.5	708
Rural	17.5	91.2	23.5	96.4	54.6	69.5	60.6	20.0	89.2	51.8	90.4	46.7	26.4	3 620
Estate	14.5	92.7	21.5	93.6	52.0	68.0	47.4	12.6	81.1	52.6	86.8	45.6	28.9	189
District														
Colombo	17.3	90.5	39.0	96.7	58.1	68.1	71.1	29.6	88.9	49.2	83.1	53.1	37.5	412
Gampaha	15.1	91.5	25.8	98.7	55.7	72.6	63.8	23.4	85.1	50.8	87.1	56.1	26.2	383
Kalutara	10.4	97.8	15.8	98.9	56.5	86.1	61.7	17.2	92.4	63.9	86.5	44.5	15.0	285
Matale	30.2 10.9	00.9 04 4	20.0	99.Z 98.5	45.4	00.0 75.0	40.4 58.4	25.9	03.9 95.5	20.1 46.9	09.5	00.0 84 3	36.0	322
Nuwara Eliva	13.1	92.4	16.5	92.6	57.5	66.7	50.3	16.3	88.4	55.9	89.0	43.2	30.4	146
Galle	6.0	86.3	20.2	98.9	45.9	78.4	57.6	24.7	88.5	63.1	94.8	65.3	33.0	236
Matara	6.2	94.5	16.7	90.5	53.7	83.3	68.9	26.2	91.2	69.5	97.1	62.2	30.7	183
Hambantota	15.8	85.1	31.5	97.9	63.3	83.7	76.8	47.2	92.6	84.8	97.2	68.0	28.4	149
Jaffna	68.7	85.9	38.2	88.7	57.4	43.4	58.0	15.8	73.2	48.1	81.1	39.4	30.7	115
Vavuniva	40.9 57 7	83 Q	33.0 24 Q	94.3	40.9	30.5 10.7	60.8	20.0	09.0 75.5	30.1	68 5	50.4 13.2	20.1	20
Mullaitivu	65.6	95.6	19.7	99.2	50.3	37.0	68.1	4.0	75.6	40.0	72.9	30.9	9.1	21
Kilinochchi	60.9	82.6	29.7	74.6	39.8	29.9	67.0	8.4	79.8	21.1	61.6	39.8	16.6	21
Batticaloa	35.7	92.6	28.2	94.1	53.5	38.9	80.9	19.1	78.7	44.1	80.8	16.5	41.6	137
Ampara	25.1	85.0	19.4	73.4	56.7	49.4	80.6	22.8	78.4	53.0	84.9	29.7	24.6	197
Irincomalee	20.5	83.4	44.1	95.0	54.4	34.7	86.7	19.4	78.9	58.0	88.5	19.4	24.5	106
Puttalam	11.5	90.6 97.0	26.7	97.5	54.9 68.9	65 1	54.1 63.1	17.4	09.5 97.7	45.0	93.4 86.5	32.0 30.4	29.1	300 156
Anuradhapura	14.8	97.2	51.7	98.1	72.0	71.9	75.4	24.4	97.3	53.0	93.3	18.2	27.6	250
Polonnaruwa	30.9	88.2	12.7	97.8	58.0	66.3	58.7	20.3	94.4	40.8	94.0	51.4	30.0	114
Badulla	9.3	89.9	17.6	96.5	35.6	63.4	45.5	12.9	92.3	47.8	86.6	30.6	21.4	168
Moneragala	2.0	93.6	13.8	97.8	40.1	80.5	53.5	6.6	90.7	23.2	82.1	52.8	7.1	140
Kegalle	20.0 4.3	92.4 88.9	16.2	95.9	49.3 65.7	77.8	50.5 53.6	24.4	82.1 98.1	28.3	95.2 92.9	46.0	33.3 12.9	249 178
Education														
No education	(16.0)	(98.3)	(6.0)	(100.0)	(58.8)	(63.3)	(46.8)	(8.1)	(69.3)	(31.7)	(73.0)	(49.9)	(20.5)	32
Passed Grade	17 9	90.6	22.6	91.1	39.6	59.9	56.4	11.8	74.6	41.3	78.8	38.3	27.7	143
Passed Grade	17.0	00.0	22.0	01.1	00.0	00.0	00.4	11.0	74.0	41.0	10.0	00.0	27.7	140
6-10 Passed	17.1	91.0	19.6	95.3	48.6	64.1	56.3	15.6	85.2	48.3	88.1	42.0	24.8	1,931
equivalent Passed	19.2	91.0	28.8	95.4	56.9	66.5	64.2	23.1	88.5	51.4	90.1	46.7	27.9	979
G.C.E.(A/L) or	17.0	01.0	20 F	07.2	61.4	76.6	67.6	20.4	02.7	57 F	01.0	54.0	21 E	1 1 2 4
Degree and	17.9	91.0	29.5	97.3	61.4	70.0	07.0	28.4	93.7	57.5	91.8	54.2	31.5	1,134
above	24.0	90.1	36.8	97.9	66.4	79.9	76.4	35.9	94.8	59.1	89.6	58.9	35.4	298
Wealth quintile				_										
Lowest	19.7	91.0	18.3	93.9	45.3	57.7	55.5	12.7	79.3	46.3	85.3	37.6	21.6	859
Second	17.9	89.7 01 6	22.3 24 F	95.8 05.7	50.3	50./	55.7 58 5	14.3 19.4	80.6	47.2	89.3 02 0	41.2 /86	22.9	903
Fourth	15.3	90.6	24.3	96.5	58.8	70.0	67 N	27.6	92.3	54.5	92.0 90.7	+0.0 50 4	31.3	905
Highest	21.5	91.9	33.1	97.4	60.4	76.3	73.7	34.6	92.3	57.8	88.1	57.5	33.3	861
Total	18.2	90.9	25.2	95 9	54 6	68 7	62.1	21.6	88.2	51 7	89.2	47 1	27 9	4 518

Includes [list fruits and vegetables included in the questionnaire such as pumpkin, or yellow yams or squash, carrots, yellow sweet potatoes, green leafy vegetables, mangoes, papayas, and other locally grown fruits and vegetables that are rich in vitamin A]

Demographic and Health Survey - 2016, Sri Lanka

11.11 MICRONUTRIENT INTAKE

AMONG MOTHERS

Low nutritional status is one of the most important health and welfare problems in Sri Lanka. Young children and women of reproductive age are especially vulnerable to nutritional deficits and micronutrient deficiencies. Micronutrient intake can improve the nutritional and immune status of pregnant women and consequently, prevent maternal and neonatal deaths. Micronutrient deficiencies during pregnancy may be caused by inadequate intake of meat, fruits and vegetables or by infections (WHO, 2011).

Parasitic infections may cause iron-deficiency anemia. Deworming during pregnancy is an effective preventive measure against this type of anemia and can improve both the health of the woman and her unborn child. In the 2016 SLDHS, all ever married women aged 15-49 with a birth in the five years preceding the survey were asked if they ever took any drug for intestinal worms during the pregnancy of their last birth. Table 11.12 shows that, overall, 97 percent of these women took deworming medication during the pregnancy of their last birth. This high percentage presents small variations by background characteristics of the mother, in particular for younger mothers (less than age 20) who appear to be more likely to take deworming medication during pregnancy than older women. No reasonable variations are observed among mother's residential sector nor in the wealth quintiles from lowest to highest.

Table 11.12 Micronutrient intake among mothers

Among ever-married women age 15-49 with a child born in the 5 years preceding the survey, percentage who took deworming medication during the pregnancy of the last child; and among women age 15-49 with a child born in the 5 years preceding the survey and who live in households that were tested for iodized salt, percentage who live in households with iodized salt, according to background characteristics, Sri Lanka 2016

	Percentage of women who took	<u>o background</u>	Am with a the la would were were io	Among women with a child born in the last five years, who live in households that were tested for iodized salt			
	deworming		Percentage				
	during		living in house-				
Background characteristic	pregnancy of last birth	Number of	holds with	Number of			
•	1001 2.111						
Age 15-19	100.0	75	98.7	74			
20-29	97.3	2,727	95.3	2,684			
30-39	96.6	3,788	95.6	3,734			
40-49	97.0	548	94.2	538			
Residence							
Urban	95.4	1,114	95.2	1,098			
Rural	97.3	5,728	95.3	5,640			
Estate	95.9	296	97.6	291			
District							
Colombo	94.0	631	96.5	624			
Gampaha	95.9	666	93.8	658			
Kalutara	98.1	443	95.4	442			
Matalo	93.9	489	90.4	4/4			
Nuwara Eliva	90.0 97 0	232	97.5	229			
Galle	98.5	380	94.8	372			
Matara	98.7	291	95.1	290			
Hambantota	99.5	233	100.0	228			
Jaffna	96.2	170	99.5	165			
Mannar	98.0	35	99.6	35			
Vavuniya	96.6	53	95.6	53			
Mullaitivu	99.8	32	97.6	31			
Rillnochchi	97.0	40	93.9	39			
Ampara	90.9	305	98.6	304			
Trincomalee	97.8	168	96.0	168			
Kurunegala	98.7	613	92.4	598			
Puttalam	97.8	262	83.7	248			
Anuradhapura	99.3	369	96.0	363			
Polonnaruwa	100.0	167	99.0	164			
Badulla	98.3	271	95.0	263			
Moneragaia	98.3	208	97.6	208			
Kanapura Kegalle	99.5 80.9	275	90.0 94.6	275			
Education	02.0	E4	00.0	40			
No education Passed Grade 1.5	93.9	257	92.2	49 253			
Passed Grade 6-10	97.4	3 104	94.6	3 059			
Passed G.C.E.(O/L)	01.0	0,101	01.0	0,000			
or equivalent	96.6	1,608	95.2	1,581			
Passed G.C.E.(A/L)							
or equivalent	96.4	1,706	96.9	1,679			
Degree and above	92.6	413	97.1	408			
Wealth quintile							
Lowest	96.5	1,413	93.6	1,382			
Second	97.4	1,457	94.3	1,432			
Fourth	98.0	1,463	95.7	1,442			
Highest	97.0	1,524	90.3	1,505			
	•	.,		.,•			
Total	96.9	7,138	95.4	7,029			
I EXCludes women in no	JUSELIOIUS WITELE Sa	ai was nol lesi	.cu.				



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