

**The persistent high burden of child and maternal malnutrition in most states of India:
the Global Burden of Disease Study 2016**

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Web Appendix

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Table 1: GBD 2016 India data inputs for malnutrition indicators and covariates

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Table 2: Percent contribution of under-five and all-age DALYs attributable to child and maternal malnutrition and its components in India by sex in 2016

Risk factors	Percent of under-five DALYs (95% uncertainty interval)			Percent of all-age DALYs (95% uncertainty interval)		
	Boys	Girls	Both sexes	Men	Women	Both sexes
Child and maternal malnutrition	66.8% (64.4 to 69.5)	63.5% (60.5 to 67.2)	65.2% (62.7 to 68.0)	12.9% (12.1 to 13.8)	16.6% (15.5 to 17.7)	14.6% (13.7 to 15.5)
Low birth weight and short gestation	44.1% (42.4 to 45.9)	38.3% (36.7 to 40.1)	41.3% (39.7 to 42.8)	7.4% (6.7 to 8.2)	7.2% (6.3 to 8.1)	7.3% (6.6 to 8.1)
Child growth failure	19.2% (17.4 to 21.2)	22.0% (19.4 to 24.7)	20.6% (18.7 to 22.6)	3.2% (2.9 to 3.6)	4.1% (3.5 to 4.8)	3.6% (3.2 to 4.1)
Suboptimal breastfeeding	2.7% (2.2 to 3.4)	3.0% (2.4 to 3.8)	2.9% (2.3 to 3.6)	0.5% (0.4 to 0.6)	0.6% (0.4 to 0.7)	0.5% (0.4 to 0.6)
Iron deficiency	2.9% (1.9 to 4.1)	2.5% (1.6 to 3.6)	2.7% (1.8 to 3.8)	2.2% (1.6 to 3.0)	5.1% (3.8 to 6.6)	3.6% (2.6 to 4.7)
Vitamin A deficiency	1.0% (0.6 to 1.7)	1.2% (0.7 to 1.8)	1.1% (0.6 to 1.7)	0.2% (0.1 to 0.3)	0.2% (0.1 to 0.4)	0.2% (0.1 to 0.3)
Zinc deficiency	0.4% (0.0 to 1.0)	0.5% (0.0 to 1.4)	0.4% (0.0 to 1.2)	0.1% (0.0 to 0.2)	0.1% (0.0 to 0.3)	0.1% (0.0 to 0.2)

The percent contribution of the components of child and maternal malnutrition add up to more than the overall child and maternal malnutrition risk factor due to overlap of the components. DALY=disability-adjusted life-year.

Table 3: Prevalence of low birth weight for India and states grouped by epidemiological transition level, 1990-2016

States of India grouped by ETL (population in 2016)	Prevalence			Percent change			Annualised percent change		
	1990	2000	2016	1990-2000	2000-2016	1990-2016	1990-2000	2000-2016	1990-2016
	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)			
India (1316 million)	19.1 (18.1 to 20.1)	19.0 (17.9 to 20.1)	19.6 (18.4 to 20.8)	-0.5 (-2.5 to 1.6)	3.0 (0.6 to 5.3)	2.5 (-0.1 to 5.2)	-0.05	0.18	0.09
Low ETL (626 million)	18.0 (16.7 to 19.3)	17.9 (16.5 to 19.2)	18.7 (17.2 to 20.2)	-0.8 (-4.2 to 2.7)	4.3 (0.5 to 8.0)	3.5 (0.0 to 7.5)	-0.08	0.26	0.13
Bihar	16.3 (14.6 to 17.9)	15.7 (14.0 to 17.4)	16.2 (14.6 to 18.0)	-3.7 (-11.8 to 5.0)	3.7 (-5.5 to 13.5)	-0.2 (-8.5 to 8.8)	-0.38	0.23	-0.01
Jharkhand	16.7 (14.7 to 18.5)	16.6 (14.7 to 18.4)	18.1 (16.2 to 20.0)	-0.4 (-8.3 to 7.7)	9.0 (0.1 to 18.8)	8.5 (0.3 to 17.6)	-0.04	0.54	0.31
Uttar Pradesh	16.9 (15.2 to 18.6)	17.1 (15.3 to 18.8)	18 (16.2 to 19.9)	1.3 (-6.3 to 9.8)	5.5 (-2.7 to 14.3)	6.9 (-1.6 to 15.7)	0.13	0.34	0.26
Rajasthan	17.6 (16.1 to 19.1)	17.7 (16.2 to 19.1)	18.7 (17.1 to 20.3)	0.4 (-6.8 to 7.4)	6.0 (-1.0 to 13.7)	6.4 (-0.8 to 13.5)	0.04	0.37	0.24
Meghalaya	13.5 (11.8 to 15.3)	15.0 (13.3 to 16.9)	17.2 (15.3 to 19.3)	10.9 (2.3 to 21.1)	14.9 (5.7 to 24.5)	27.4 (17.4 to 39.3)	1.04	0.87	0.93
Assam	16.3 (14.6 to 18.0)	16.5 (14.7 to 18.1)	17.8 (16.0 to 19.8)	0.8 (-7.9 to 9.6)	8.2 (-0.8 to 18.3)	9.1 (0.2 to 18.8)	0.08	0.50	0.33
Chhattisgarh	18.3 (16.6 to 19.8)	18.3 (16.6 to 19.7)	20.5 (18.8 to 22.1)	-0.1 (-7.8 to 8.2)	12.4 (4.6 to 20.7)	12.3 (4.3 to 21.2)	-0.01	0.74	0.45
Madhya Pradesh	23.3 (21.7 to 24.9)	22.9 (21.4 to 24.6)	23.0 (21.5 to 24.4)	-1.4 (-8.2 to 6.1)	0.2 (-6.5 to 7.5)	-1.2 (-7.9 to 5.8)	-0.14	0.01	-0.05
Odisha	20.6 (19.2 to 22.2)	20.5 (19.1 to 22.0)	21.7 (20.2 to 23.3)	-0.5 (-7.7 to 7.6)	6.0 (-1.0 to 13.8)	5.5 (-1.9 to 14.0)	-0.05	0.36	0.21
Lower-middle ETL (92 million)	19.1 (18.0 to 20.1)	19.4 (18.2 to 20.6)	21.3 (20.0 to 22.7)	1.6 (-2.7 to 6.3)	9.8 (5.0 to 14.8)	11.6 (7.1 to 16.6)	0.16	0.59	0.42
Arunachal Pradesh	15.0 (13.1 to 16.8)	15.1 (13.4 to 17.0)	15.8 (13.9 to 17.8)	1.3 (-7.0 to 10.8)	4.5 (-4.0 to 13.6)	5.8 (-2.4 to 15.0)	0.13	0.27	0.22
Mizoram	11.9 (10.8 to 13.2)	13.1 (11.8 to 14.4)	14.5 (13.0 to 16.1)	9.7 (2.4 to 18.8)	11 (1.9 to 19.2)	21.8 (11.9 to 31.0)	0.93	0.65	0.76
Nagaland	18.0 (16.7 to 19.2)	19.1 (17.6 to 20.5)	20.8 (19.4 to 22.3)	6.6 (-0.1 to 13.9)	8.8 (2.1 to 16.6)	16.1 (9.1 to 23.8)	0.64	0.53	0.57
Uttarakhand	16.3 (14.8 to 17.7)	16.7 (15.4 to 18.1)	19.7 (18.3 to 21.1)	2.8 (-4.6 to 10.9)	17.4 (9.7 to 25.5)	20.7 (13.3 to 29.8)	0.28	1.01	0.73
Gujarat	20.5 (19.2 to 21.7)	20.7 (19.5 to 22.1)	22.3 (20.9 to 23.7)	1.4 (-4.4 to 7.6)	7.5 (1.7 to 13.8)	9.0 (3.5 to 15.3)	0.13	0.46	0.33
Tripura	15.5 (14.2 to 17.0)	16.2 (14.8 to 17.7)	18.7 (17.2 to 20.3)	4.4 (-2.8 to 12.5)	15.3 (8.1 to 23.7)	20.3 (11.6 to 29.3)	0.43	0.89	0.71
Sikkim	13.5 (12.1 to 15.2)	14.6 (13.2 to 16.3)	19.3 (17.7 to 21.1)	8 (-1.1 to 18.0)	32 (22.9 to 43.1)	42.6 (31.4 to 55.0)	0.77	1.75	1.37
Manipur	12.9 (11.6 to 14.5)	13.1 (11.8 to 14.7)	14.2 (12.6 to 15.9)	1.5 (-6.6 to 9.2)	8.4 (-0.6 to 17.4)	10.0 (1.0 to 19.0)	0.15	0.50	0.37
Higher-middle ETL (446 million)	21.1 (20.2 to 22.1)	21.3 (20.3 to 22.3)	21.6 (20.4 to 22.8)	0.7 (-2.2 to 3.6)	1.4 (-1.3 to 4.3)	2.1 (-1.0 to 5.0)	0.07	0.09	0.08
Haryana	15.9 (14.3 to 17.4)	16.6 (15 to 18.1)	19.1 (17.4 to 20.9)	4.7 (-2.2 to 12.4)	15 (7.1 to 23.6)	20.4 (12.2 to 28.9)	0.46	0.88	0.72
Delhi	17.6 (16.1 to 18.8)	18.3 (16.8 to 19.7)	18.6 (16.9 to 20.3)	4.3 (-2.9 to 12.2)	1.7 (-6.7 to 10.4)	6.1 (-2.0 to 15.1)	0.42	0.11	0.23
Telangana	18.7 (17.3 to 20.3)	19.8 (18.3 to 21.6)	22.6 (21.2 to 24.1)	6.1 (-1.9 to 14.9)	14.1 (6.6 to 22.1)	21.0 (12.8 to 29.2)	0.59	0.83	0.74
Andhra Pradesh	20.6 (19.3 to 22.1)	20.8 (19.5 to 22.3)	21.0 (19.6 to 22.4)	0.9 (-5.1 to 7.4)	0.7 (-5.6 to 6.9)	1.6 (-4.9 to 8.3)	0.09	0.05	0.06
Jammu and Kashmir	12.9 (11.2 to 14.7)	13.6 (12.0 to 15.6)	15.6 (13.4 to 17.6)	5.6 (-3.5 to 15.9)	14.5 (4.0 to 25.6)	21 (10.6 to 32.5)	0.55	0.85	0.74
Karnataka	20.3 (19.1 to 21.6)	20.9 (19.7 to 22.2)	21.4 (20.1 to 22.7)	2.9 (-3.7 to 9.5)	2.2 (-3.4 to 8.6)	5.2 (-0.8 to 11.6)	0.29	0.14	0.19
West Bengal	18.4 (16.9 to 19.8)	18.1 (16.6 to 19.5)	18.5 (16.9 to 20.0)	-1.5 (-7.7 to 5.5)	1.9 (-4.9 to 9.0)	0.4 (-6.2 to 8.0)	-0.15	0.12	0.02
Maharashtra	27.6 (26.2 to 29.0)	27.4 (26.0 to 28.8)	25.9 (24.6 to 27.3)	-0.9 (-6.8 to 4.9)	-5.3 (-10.5 to -0.1)	-6.2 (-11.7 to -1.0)	-0.09	-0.34	-0.24
Union territories other than Delhi	16.8 (15.5 to 18.5)	17.5 (16.2 to 18.8)	20.0 (18.5 to 21.5)	4.4 (-1.5 to 11.1)	13.8 (6.8 to 20.9)	18.9 (11.9 to 26.1)	0.43	0.81	0.67
High ETL (152 million)	17.5 (16.5 to 18.5)	17.5 (16.6 to 18.6)	17.8 (16.8 to 19.0)	0.0 (-3.8 to 4.0)	1.9 (-2.0 to 5.5)	1.9 (-1.8 to 5.9)	0.00	0.12	0.07
Himachal Pradesh	14.7 (13.4 to 16.2)	15.2 (13.8 to 16.7)	17.3 (15.8 to 19.0)	3.3 (-5.2 to 11.8)	14.1 (5.2 to 23.9)	17.9 (8.8 to 27.4)	0.32	0.83	0.63
Punjab	15.0 (13.7 to 16.5)	15.2 (13.9 to 16.7)	15.4 (14.1 to 17.0)	1.2 (-6.3 to 8.9)	1.5 (-5.4 to 8.8)	2.7 (-4.1 to 9.7)	0.12	0.09	0.10
Tamil Nadu	20.7 (19.5 to 21.9)	20.4 (19.1 to 21.6)	20.4 (19.2 to 21.7)	-1.6 (-6.6 to 4.4)	0.3 (-5.2 to 5.6)	-1.3 (-6.8 to 4.7)	-0.16	0.02	-0.05
Goa	20.4 (19.3 to 21.5)	20.7 (19.6 to 21.9)	21.1 (19.8 to 22.3)	1.6 (-3.4 to 6.9)	1.7 (-3.5 to 7.4)	3.3 (-2.2 to 9.6)	0.16	0.10	0.13
Kerala	13.2 (12.2 to 14.2)	13.6 (12.7 to 14.7)	14.1 (13.1 to 15.2)	3.4 (-3.6 to 11.0)	3.3 (-3.3 to 10.3)	6.9 (-0.2 to 13.9)	0.34	0.20	0.26

ETL=epidemiological transition level.

Table 4: Prevalence of wasting in under-five children for India and states grouped by epidemiological transition level, 1990-2016

	Prevalence			Percent change			Annualised percent change		
	1990 (95% uncertainty interval)	2000 (95% uncertainty interval)	2016 (95% uncertainty interval)	1990-2000 (95% uncertainty interval)	2000-2016 (95% uncertainty interval)	1990-2016 (95% uncertainty interval)	1990-2000	2000-2016	1990-2016
States of India grouped by ETL									
India (1316 million)	21.6 (20.7 to 22.5)	19.9 (19.4 to 20.3)	15.9 (15.6 to 16.2)	-8.2 (-11.7 to -4.3)	-19.9 (-22.2 to -17.5)	-26.5 (-29.8 to -22.9)	-0.85	-1.38	-1.18
Low ETL (626 million)	21.7 (20.2 to 23.3)	20.2 (19.5 to 20.9)	15.1 (14.6 to 15.6)	-6.7 (-13.0 to 0.2)	-25.3 (-29 to -21.6)	-30.3 (-35.5 to -24.3)	-0.69	-1.81	-1.38
Bihar	19.7 (15.9 to 23.6)	20.7 (18.5 to 22.9)	14.1 (13.0 to 15.2)	4.9 (-14.0 to 27.2)	-31.7 (-40.2 to -21.9)	-28.4 (-41.7 to -10.7)	0.48	-2.36	-1.28
Jharkhand	39.5 (34.5 to 44.6)	37.7 (34.4 to 41.5)	16.2 (15.0 to 17.5)	-4.7 (-15.0 to 8.2)	-57 (-62.1 to -51.5)	-59 (-64.7 to -52.2)	-0.48	-5.14	-3.37
Uttar Pradesh	17.8 (14.4 to 21.6)	15.8 (14.5 to 17.2)	13.5 (12.2 to 14.6)	-11.4 (-26.7 to 9.2)	-14.7 (-25.1 to -3.5)	-24.4 (-38.8 to -6.2)	-1.21	-0.99	-1.07
Rajasthan	19.5 (15.9 to 23.2)	17.5 (16.0 to 19.0)	17.2 (15.9 to 18.4)	-10.6 (-25.1 to 7.9)	-1.5 (-11.6 to 9.7)	-12.0 (-26.5 to 9.4)	-1.12	-0.10	-0.49
Meghalaya	17.0 (13.4 to 21.3)	18.3 (16.1 to 20.8)	12.8 (11.9 to 13.8)	7.6 (-14.1 to 33.5)	-29.7 (-39.8 to -18.2)	-24.3 (-39.8 to -2.7)	0.74	-2.18	-1.07
Assam	21.3 (18.2 to 24.4)	17.2 (15.6 to 18.7)	15.5 (14.0 to 16.9)	-19.2 (-32.8 to -1.2)	-9.8 (-21.8 to 3.5)	-27.1 (-37.7 to -12.9)	2.11	-0.64	-1.21
Chhattisgarh	24.7 (19.9 to 29.3)	21.1 (18.2 to 23.8)	17.0 (15.7 to 18.4)	-14.4 (-27.4 to 1.3)	-19.5 (-30.2 to -4.5)	-31.1 (-43.0 to -14.0)	-1.55	-1.35	-1.42
Madhya Pradesh	23.9 (20.3 to 27.7)	25.4 (23.8 to 27.0)	16.9 (15.8 to 18.0)	6.5 (-8.2 to 25.1)	-33.5 (-39.4 to -27.5)	-29.2 (-39.8 to -15.8)	0.63	-2.52	-1.32
Odisha	24.8 (20.9 to 28.7)	23.7 (22.1 to 25.2)	17.9 (16.7 to 19.0)	-4.4 (-17.5 to 12.9)	-24.5 (-31.4 to -17.1)	-27.9 (-38.4 to -13.5)	-0.45	-1.74	-1.25
Lower-middle ETL (92 million)	21.5 (18.9 to 24.2)	19.4 (18.2 to 20.6)	17.1 (16.2 to 18.0)	-9.7 (-19.7 to 1.9)	-11.8 (-18.7 to -4.4)	-20.3 (-29.7 to -8.6)	-1.01	-0.78	-0.87
Arunachal Pradesh	10.0 (7.4 to 13.1)	10.7 (9.0 to 12.6)	16.9 (15.8 to 17.9)	7.0 (-17.4 to 39.8)	58.2 (32.8 to 92.3)	69.3 (27.9 to 130.5)	0.68	2.91	2.05
Mizoram	12.7 (10.4 to 15.4)	11.8 (10.2 to 13.5)	14.8 (13.7 to 15.7)	-7.3 (-23.6 to 11.8)	25.6 (7.7 to 46.8)	16.4 (-5.6 to 44.3)	-0.75	1.43	0.59
Nagaland	11.3 (8.7 to 14.3)	11.7 (10.1 to 13.6)	11.7 (10.8 to 12.5)	4.0 (-18.4 to 32.0)	0.1 (-14.4 to 17.6)	4.1 (-18.1 to 36.0)	0.40	0.01	0.16
Uttarakhand	23.3 (18.6 to 27.8)	21.0 (18.1 to 24.0)	11.3 (10.3 to 12.2)	-9.6 (-24.3 to 8.8)	-46.5 (-54.4 to -36.7)	-51.6 (-60.1 to -38.8)	-1.01	-3.83	-2.75
Gujarat	22.6 (19.2 to 26.0)	20.5 (19.0 to 22.1)	18.8 (17.5 to 19.9)	-9.1 (-21.1 to 5.5)	-8.4 (-17.1 to 1.1)	-16.8 (-28.7 to -0.4)	-0.95	-0.55	-0.70
Tripura	21.4 (17.0 to 26.0)	20.8 (18.3 to 23.5)	16.9 (15.4 to 18.3)	-2.6 (-18.6 to 19.8)	-19.1 (-30.9 to -4.8)	-21.2 (-36.6 to 0.1)	-0.26	-1.31	-0.91
Sikkim	8.3 (6.3 to 10.9)	7.1 (5.8 to 8.6)	5.5 (4.9 to 6.1)	-15.5 (-34.3 to 9.7)	-22.2 (-38.7 to -1.8)	-34.2 (-50.8 to -12.5)	-1.66	-1.55	-1.60
Manipur	10.0 (7.8 to 12.7)	9.4 (8.0 to 10.9)	7.8 (7.0 to 8.6)	-6.0 (-23.9 to 17.4)	-17.3 (-31.6 to 0.8)	-22.3 (-39.5 to 1.1)	-0.62	-1.18	-0.96
Higher-middle ETL (446 million)	22.6 (21.2 to 24.1)	20.6 (19.9 to 21.2)	17.1 (16.6 to 17.6)	-9.1 (-14.9 to -2.9)	-16.9 (-20.1 to -13.4)	-24.5 (-29.1 to -18.8)	-0.95	-1.15	-1.07
Haryana	17.9 (15.4 to 20.9)	13.5 (12.3 to 14.8)	15.3 (14.0 to 16.6)	-24.9 (-38.1 to -9.0)	13.6 (-0.1 to 29.7)	-14.7 (-28.3 to 1.8)	-2.82	0.80	-0.61
Delhi	25.3 (22.3 to 28.3)	19.1 (17.1 to 21.0)	14.3 (12.8 to 15.8)	-24.7 (-36.9 to -10.5)	-25.1 (-34.8 to -13.1)	-43.6 (-51.2 to -34.4)	-2.79	-1.79	-2.18
Telangana	22.3 (18.9 to 25.9)	21.7 (19.8 to 23.6)	17.9 (16.6 to 19)	-3.0 (-16.1 to 13.5)	-17.4 (-26.8 to -7.4)	-19.9 (-32.5 to -4.6)	-0.30	-1.19	-0.85
Andhra Pradesh	18.9 (16.0 to 21.9)	17.0 (15.7 to 18.5)	17.9 (16.9 to 18.9)	-10.0 (-23.5 to 6.8)	4.9 (-4.8 to 16.1)	-5.7 (-19.6 to 11.7)	-1.05	0.30	-0.22
Jammu and Kashmir	17.5 (14.1 to 21.1)	14.3 (12.8 to 16.1)	6.9 (6.3 to 7.5)	-18.0 (-32.3 to -0.5)	-51.6 (-58.6 to -44.1)	-60.3 (-67.8 to -50.1)	-1.97	-4.44	-3.50
Karnataka	23.2 (19.8 to 27.1)	20.8 (19.2 to 22.5)	17.6 (16.6 to 18.7)	-10.3 (-23.3 to 4.3)	-15.3 (-23.4 to -6.4)	-24.1 (-35.1 to -9.7)	-1.09	-1.03	-1.05
West Bengal	21.9 (18.2 to 25.7)	20.3 (18.7 to 21.8)	15.5 (14.4 to 16.6)	-7.3 (-21.2 to 10.0)	-23.6 (-31.1 to -14.8)	-29.2 (-40.5 to -13.9)	-0.75	-1.67	-1.32
Maharashtra	26.2 (22.8 to 29.4)	24.6 (23.2 to 26)	19.5 (18.4 to 20.6)	-5.9 (-16.2 to 7.6)	-20.7 (-27.4 to -14.2)	-25.3 (-34.4 to -14.1)	-0.60	-1.44	-1.12
Union territories other than Delhi	14.2 (11.6 to 17.3)	12.6 (10.2 to 15.2)	12.2 (9.5 to 15.8)	-11.2 (-27.5 to 9.3)	-1.5 (-25.4 to 30.1)	-12.6 (-35.8 to 19.9)	-1.18	-0.22	-0.59
High ETL (152 million)	19.1 (17.4 to 20.8)	16.6 (15.7 to 17.4)	16.2 (15.6 to 16.8)	-13.3 (-21.2 to -4.1)	-1.8 (-7.7 to 4.4)	-14.9 (-23.3 to -5.4)	-1.41	-0.11	-0.62
Himachal Pradesh	15.1 (12.3 to 18.0)	14.7 (13.0 to 16.5)	11.0 (9.5 to 12.6)	-2.8 (-21.2 to 21.1)	-25.6 (-38.3 to -10.3)	-27.6 (-43.0 to -8.0)	-0.28	-1.83	-1.24
Punjab	13.7 (11.6 to 16.0)	10.0 (8.8 to 11.0)	11.4 (10.4 to 12.4)	+27.1 (+40.4 to -9.2)	14.4 (-0.6 to 31.5)	-16.6 (-30.4 to -0.3)	-3.11	0.84	-0.70
Tamil Nadu	23.9 (20.8 to 27.3)	21.0 (19.7 to 22.5)	18.8 (17.8 to 19.8)	-12.1 (-23.0 to 1.0)	-10.5 (-18.0 to -2.8)	-21.3 (-31.8 to -9.0)	-1.28	-0.69	-0.92
Goa	18.5 (15.5 to 21.6)	15.0 (13.1 to 16.9)	15.3 (14.1 to 16.3)	-19.1 (-30.5 to -3.9)	1.9 (-12.2 to 18.8)	-17.6 (-30.0 to 0.0)	-2.10	0.12	-0.74
Kerala	14.0 (11.3 to 16.9)	12.8 (11.4 to 14.3)	15.7 (14.7 to 16.8)	-8.5 (-24.5 to 12.9)	22.2 (7.5 to 39.8)	11.8 (-8.4 to 40.0)	-0.88	1.26	0.43

ETL=epidemiological transition level.

Table 5: Prevalence of stunting in under-five children for India and states grouped by epidemiological transition level, 1990-2016

States of India grouped by ETL	Prevalence			Percent change			Annualised percent change		
	1990	2000	2016	1990-2000	2000-2016	1990-2016	1990-2000	2000-2016	1990-2016
	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)
States of India grouped by ETL									
India (1316 million)									
Low ETL (626 million)									
Bihar	57.9 (55.3 to 60.9)	56.8 (54.8 to 59.2)	49.4 (46.8 to 52.0)	-1.9 (-7.5 to 4.5)	-13.1 (-18.6 to -7.4)	-14.7 (-21.1 to -8.5)	-0.19	-0.87	-0.61
Jharkhand	58.7 (52.4 to 66.5)	58.0 (52.6 to 63.9)	55.3 (49.4 to 62.5)	-1.0 (-14.3 to 13.3)	-4.7 (-18.2 to 12.4)	-5.7 (-20.0 to 12.4)	-0.10	-0.30	-0.23
Uttar Pradesh	54.1 (47.7 to 61.7)	52.2 (45.8 to 59.9)	49.8 (44.7 to 55.9)	-3.5 (-19.4 to 15.6)	-4.7 (-20.2 to 13.8)	-8.0 (-22.1 to 8.6)	-0.35	-0.30	-0.32
Rajasthan	59.3 (53.2 to 66.9)	58.5 (53.9 to 63.9)	55.2 (50.2 to 60.7)	-1.4 (-14.4 to 13.1)	-5.5 (-17.0 to 7.3)	-6.9 (-19.5 to 8.8)	-0.14	-0.36	-0.27
Meghalaya	56.3 (50.4 to 63.4)	54.5 (50.6 to 59.2)	38.2 (33.5 to 42.6)	-3.2 (-15.9 to 10.6)	-29.9 (-39.6 to -20.1)	-32.1 (-42.9 to -21)	-0.32	-2.20	-1.48
Assam	50.5 (44.1 to 57.9)	50.3 (45.5 to 55.9)	46.1 (41.5 to 51.3)	-0.4 (-15.9 to 18.0)	-8.4 (-21.7 to 4.9)	-8.8 (-23.3 to 7.8)	-0.04	-0.55	-0.35
Chhattisgarh	56.4 (50.4 to 64)	54.6 (49.7 to 60.1)	40.2 (33.6 to 46.3)	-3.2 (-16.9 to 11.7)	-26.5 (-39.7 to -13.3)	-28.8 (-42.4 to -14.6)	-0.33	-1.90	-1.30
Madhya Pradesh	56.6 (50.7 to 64.8)	54.4 (47.8 to 62.7)	39.7 (32.8 to 47.1)	-3.9 (-19.1 to 14.0)	-27 (-41.7 to -9.5)	-29.8 (-43.4 to -13.7)	-0.40	-1.95	-1.35
Odisha	59.0 (52.7 to 66.1)	58.5 (54.3 to 63.4)	46.0 (40.6 to 51.9)	-0.9 (-13.8 to 13.3)	-21.3 (-32.1 to -9.3)	-22.0 (-33.6 to -7.4)	-0.09	-1.49	-0.95
Lower-middle ETL (92 million)									
Arunachal Pradesh	57.1 (50.5 to 64.5)	54.4 (49.3 to 60.9)	39.5 (34.8 to 45.0)	-4.7 (-18.9 to 11.3)	-27.4 (-38.5 to -13.6)	-30.8 (-41.8 to -17.2)	-0.48	-1.98	-1.41
Mizoram	55.1 (51.1 to 60.2)	52.1 (48.9 to 55.7)	39.1 (35.2 to 43.4)	-5.4 (-14.5 to 4.8)	-25.0 (-33.7 to -15.5)	-29.1 (-38.1 to -19.4)	-0.56	-1.78	-1.31
Nagaland	40.4 (32.7 to 48.1)	36.4 (31.7 to 43.2)	31.0 (27.3 to 34.9)	-9.9 (-28.1 to 15.0)	-14.9 (-30.8 to 2.5)	-23.3 (-37.1 to -2.6)	-1.03	-1.00	-1.01
Uttarakhand	43.8 (37.9 to 50.0)	41.4 (37.5 to 47.0)	30.4 (26.0 to 34.5)	-0.8 (-16.8 to 17.7)	-25.8 (-37.5 to -14.1)	-26.4 (-39.8 to -10.9)	-0.08	-1.85	-1.17
Gujarat	54.2 (48.7 to 60.8)	50.5 (44.6 to 57.4)	34.8 (30.4 to 39.4)	-5.4 (-19.4 to 12.2)	-26.7 (-40.3 to -13.4)	-30.6 (-42.4 to -15.7)	-0.55	-1.92	-1.40
Tripura	57.1 (51.6 to 63.9)	54.4 (50.0 to 59.4)	41.3 (36.2 to 47.1)	-6.8 (-22.5 to 9.5)	-31.1 (-42.8 to -17.0)	-35.8 (-46.2 to -24.1)	-0.71	-2.30	-1.69
Sikkim	51.0 (43.4 to 59.8)	47.8 (41.7 to 55.3)	31.0 (26.5 to 35.2)	-4.7 (-16.7 to 9.0)	-24.0 (-35.0 to -11.0)	-27.6 (-39.0 to -15.0)	-0.48	-1.70	-1.23
Manipur	46.8 (40.2 to 54)	40.8 (36.3 to 47.0)	26.2 (22.2 to 30.0)	-6.2 (-23.9 to 17.0)	-35.2 (-47.5 to -21.9)	-39.3 (-51.9 to -25.1)	-0.64	-2.68	-1.90
Higher-middle ETL (446 million)									
Haryana	42.3 (34.4 to 50.6)	42.6 (38.4 to 49.3)	32.4 (27.9 to 36.4)	-12.8 (-27.4 to 6.4)	-35.8 (-47.9 to -21.6)	-44.0 (-54.8 to -31.0)	-1.36	-2.73	-2.21
Delhi	52.4 (49.6 to 55.5)	48.3 (46.1 to 50.7)	33.6 (31.9 to 35.5)	0.7 (-17.6 to 27.4)	-24.0 (-37.6 to -10.5)	-23.5 (-39.6 to -3.4)	0.07	-1.70	-1.03
Telangana	55.7 (50.0 to 62.8)	53.2 (49.4 to 57.9)	36.9 (32.4 to 41.1)	-7.8 (-14.2 to -1.3)	-30.5 (-35.2 to -25.4)	-35.9 (-40.7 to -30.8)	-0.81	-2.25	-1.70
Andhra Pradesh	46.2 (38.3 to 54.7)	46.9 (42.1 to 53.5)	28.6 (23.4 to 33.9)	-4.5 (-17.0 to 10.8)	-30.7 (-41.0 to -20.9)	-33.8 (-44.9 to -22.8)	-0.46	-2.27	-1.58
Jammu and Kashmir	53.3 (47.6 to 59.9)	44.5 (37.8 to 52.4)	32.5 (28.2 to 37.0)	1.4 (-18.0 to 28.0)	-39.1 (-52.2 to -23.9)	-38.2 (-52.7 to -21.3)	0.14	-3.05	-1.83
Karnataka	52.7 (46.5 to 59.6)	46.1 (41.5 to 52.1)	33.9 (29.6 to 38.6)	-16.6 (-30.9 to 2.0)	-26.9 (-40.7 to -9.4)	-39.0 (-49.0 to -26.5)	-1.80	-1.94	-1.89
West Bengal	50.2 (45.2 to 56.2)	46.2 (42.5 to 51.4)	30.4 (25.9 to 34.7)	-12.5 (-25.6 to 3.9)	-26.4 (-38.0 to -12.6)	-35.6 (-47.0 to -23.1)	-1.33	-1.90	-1.68
Maharashtra	51.9 (46.1 to 58.9)	48.3 (44.2 to 54.0)	36.6 (32.1 to 41.0)	-8.0 (-19.6 to 6.2)	-34.3 (-45.3 to -22.5)	-39.6 (-49.9 to -28)	-0.83	-2.59	-1.92
Union territories other than Delhi	52.7 (46.1 to 60.3)	50.9 (45.9 to 57.5)	33.5 (29.1 to 38.4)	-6.9 (-19.9 to 8.6)	-24.4 (-35.6 to -12.1)	-29.6 (-40.8 to -17.6)	-0.71	-1.73	-1.34
High ETL (152 million)									
Himachal Pradesh	52.3 (46.2 to 59.4)	48.2 (43.9 to 54.0)	32.6 (28.4 to 37.2)	-3.5 (-18.8 to 15.3)	-34.1 (-45.5 to -21.8)	-36.4 (-47.8 to -21.8)	-0.36	-2.57	-1.73
Punjab	45.9 (38.4 to 53.8)	38.1 (30.6 to 46.3)	23.1 (17.1 to 31.8)	-7.7 (-21.5 to 8.8)	-32.5 (-42.8 to -21.1)	-37.7 (-48.3 to -25.4)	-0.80	-2.42	-1.80
Tamil Nadu	46.3 (42.5 to 49.9)	40.5 (38.4 to 43.2)	24.6 (22.5 to 26.7)	-17.1 (-35.5 to 7.1)	-37.0 (-56.0 to -11.5)	-47.8 (-64.4 to -26.2)	-1.86	-3.08	-2.62
Goa	54.9 (48.5 to 63.3)	51.3 (46.0 to 58.3)	34.1 (28.3 to 39.6)	-12.5 (-20.1 to -2.5)	-39.3 (-45.8 to -32.9)	-46.9 (-52.4 to -40.6)	-1.33	-3.08	-2.41
Kerala	51.1 (45.2 to 57.6)	47.7 (43.3 to 53.0)	32.1 (28.4 to 36.2)	-6.6 (-22.4 to 11.1)	-33.5 (-46.6 to -20.5)	-37.9 (-50.9 to -24.4)	-0.68	-2.52	-1.81
	45.3 (38.8 to 50.7)	38.8 (35.7 to 43.3)	23.4 (20.1 to 26.9)	-6.8 (-20.5 to 9.8)	-32.7 (-43.4 to -21.3)	-37.2 (-47.7 to -25.4)	-0.70	-2.44	-1.78
	27.6 (21.0 to 36.0)	23.7 (19.8 to 28.5)	19.1 (15.6 to 22.6)	-14.3 (-35.9 to 3.3)	-39.6 (-50.1 to -28.4)	-48.3 (-57.2 to -36.9)	-1.54	-3.10	-2.50
	44.3 (37.3 to 51.5)	37.3 (33.5 to 42.8)	19.3 (16.3 to 22.5)	-14.1 (-37.5 to 16.3)	-19.7 (-37.7 to 1.8)	-31.1 (-49.5 to -5.7)	-1.51	-1.37	-1.42
				-15.7 (-29.7 to 4.7)	-48.2 (-59.2 to -37.6)	-56.4 (-65.5 to -45.3)	-1.69	-4.03	-3.14

ETL=epidemiological transition level.

Table 6: Prevalence of exclusive breastfeeding in the first six months for India and states grouped by epidemiological transition level, 1990-2016

	Prevalence			Percent change			Annualised percent change		
	1990 (95% uncertainty interval)	2000 (95% uncertainty interval)	2016 (95% uncertainty interval)	1990-2000 (95% uncertainty interval)	2000-2016 (95% uncertainty interval)	1990-2016 (95% uncertainty interval)	1990-2000	2000-2016	1990-2016
States of India grouped by ETL									
India (1316 million)	37.7 (25.6 to 50.2)	38.9 (29.4 to 48.7)	39.2 (22.3 to 58.3)	3.7 (-8.3 to 16.3)	1.5 (-13.4 to 19.7)	5.3 (-11.2 to 26.6)	0.31	0.04	0.14
Low ETL (626 million)	38.3 (31.2 to 46.1)	40.5 (31.9 to 48.8)	41.2 (33.7 to 49.5)	5.7 (-12.9 to 27.2)	1.8 (-19.5 to 29.3)	7.6 (-17.7 to 41.9)	0.56	0.11	0.28
Bihar	39.1 (21.8 to 57.8)	43.1 (25.9 to 62.6)	43.4 (25.2 to 64.0)	10.2 (-30.6 to 76.3)	0.6 (-42.2 to 78.7)	10.8 (-43.6 to 116.4)	0.97	0.03	0.39
Jharkhand	37.4 (20.9 to 55.3)	39.4 (21.5 to 58.1)	40.9 (22.5 to 59.1)	5.4 (-33.6 to 71)	3.7 (-43.5 to 88.0)	9.4 (-45.4 to 115.4)	0.53	0.23	0.34
Uttar Pradesh	39.4 (22.6 to 58.2)	40.9 (24.0 to 60.5)	42.2 (23.4 to 59.4)	4.0 (-34.1 to 67.9)	3.1 (-41.8 to 86.6)	7.2 (-43.6 to 101.0)	0.40	0.19	0.27
Rajasthan	38.5 (21.8 to 57.7)	38.9 (22.5 to 58.2)	38.8 (23.0 to 57.9)	1.1 (-36.9 to 62.7)	-0.1 (-42.2 to 79.0)	1.0 (-46.3 to 104.0)	0.11	-0.01	0.04
Meghalaya	36.1 (19.1 to 54.6)	36.2 (20.5 to 55.0)	36.7 (19.9 to 55.8)	4.0 (-33.7 to 64.2)	-0.5 (-44.5 to 75.5)	3.4 (-48 to 101.7)	0.02	0.09	0.06
Assam	38.3 (22.5 to 57.1)	39.9 (23.5 to 58.5)	39.7 (21.9 to 58.7)	2.0 (-33.7 to 64.2)	-0.5 (-44.5 to 75.5)	1.6 (-51.2 to 105.3)	0.39	-0.03	0.13
Chhattisgarh	37.7 (21.9 to 56.4)	40.9 (25.2 to 60.3)	41.1 (24.7 to 58.3)	8.5 (-29.1 to 70.9)	0.5 (-40.9 to 69.9)	9.1 (-41.5 to 104.8)	0.82	0.03	0.34
Madhya Pradesh	35.7 (19.2 to 53.8)	38.1 (22.1 to 55.5)	39 (21.7 to 57.4)	6.6 (-33.4 to 84.8)	2.4 (-43.1 to 89.0)	9.2 (-43.6 to 126.7)	0.64	0.15	0.34
Odisha	37.8 (21.7 to 56.7)	40.1 (23.0 to 58.5)	39.6 (22.5 to 58.6)	6.1 (-33.1 to 68.7)	-1.3 (-43.3 to 70.7)	4.7 (-45.2 to 106.8)	0.59	-0.08	0.18
Lower-middle ETL (92 million)	37.0 (24.3 to 51.0)	37.8 (25.7 to 51.5)	37.1 (25.3 to 51.1)	2.1 (-25.9 to 44.1)	-1.9 (-37.6 to 54.6)	0.1 (-39.1 to 67.7)	0.21	-0.12	0.01
Arunachal Pradesh	36.1 (20.2 to 55.5)	37.9 (21.4 to 56.8)	37.9 (20.4 to 56.4)	5.1 (-36.2 to 69.3)	0 (-44.9 to 80.1)	5.1 (-47.5 to 107.5)	0.50	0.00	0.19
Mizoram	37.4 (20.6 to 55.2)	38.4 (22.6 to 56.7)	37.3 (20.4 to 56.1)	2.9 (-34.1 to 66.6)	-3.0 (-46.9 to 74.2)	-0.2 (-49.4 to 98.1)	0.28	-0.19	-0.01
Nagaland	40.1 (23.1 to 58.9)	40.1 (23.2 to 58.0)	38.6 (22.0 to 56.7)	0.1 (-38.5 to 61.7)	-3.7 (-48.0 to 72.3)	-3.6 (-51.9 to 74.8)	0.01	-0.24	-0.14
Uttarakhand	37.0 (21.2 to 55.6)	39.4 (22.7 to 57.5)	38.3 (21.6 to 57.0)	6.5 (-32.8 to 67.8)	-2.9 (-47.1 to 81.4)	3.4 (-49.5 to 105.4)	0.63	-0.18	0.13
Gujarat	36.4 (19.8 to 55.3)	36.7 (20.5 to 55.5)	36.5 (21.3 to 55.5)	0.9 (-36.6 to 66.0)	-0.7 (-46.6 to 85.7)	0.2 (-50.5 to 102.4)	0.09	-0.05	0.01
Tripura	39.1 (21.7 to 57.9)	39.2 (21.7 to 59.5)	37.5 (22.2 to 55.6)	0.3 (-38.0 to 65.8)	-4.2 (-46.3 to 74.4)	-3.9 (-47.5 to 88.7)	0.03	-0.27	-0.15
Sikkim	35.3 (19.7 to 54.2)	36.8 (20.1 to 55.9)	32.2 (17.9 to 49.6)	4.4 (-35.6 to 64.5)	-12.5 (-52.1 to 59.9)	-8.6 (-53.2 to 70.8)	0.43	-0.83	-0.35
Manipur	44.7 (28.0 to 64.2)	46.3 (29.2 to 65.3)	46.4 (28.9 to 65.8)	3.6 (-30.6 to 56.8)	0.3 (-39.8 to 62.9)	3.9 (-41.4 to 81.2)	0.35	0.02	0.15
Higher-middle ETL (446 million)	37.1 (29.6 to 45.6)	37.9 (31.0 to 45.1)	38.1 (31.2 to 45.9)	2.1 (-15.7 to 23.2)	0.6 (-20.6 to 26.7)	2.8 (-21.6 to 36.4)	0.21	0.03	0.10
Haryana	37.4 (20.1 to 54.6)	37.7 (20.4 to 56.6)	37.0 (21.5 to 55.0)	0.8 (-37.9 to 66.7)	-1.8 (-45.3 to 85.3)	-1.1 (-47.7 to 100.4)	0.08	-0.12	-0.04
Delhi	38.4 (22.4 to 56.9)	38.0 (21.6 to 56.4)	36.3 (20.8 to 55.2)	-1.1 (-38.3 to 59.6)	-4.5 (-45.7 to 66.0)	-5.5 (-51.4 to 78.3)	-0.11	-0.28	-0.22
Telangana	30.9 (16.4 to 48.6)	33.1 (17.1 to 50.1)	36.8 (20.6 to 55.3)	7.1 (-34.0 to 75.6)	11.2 (-42.1 to 114.3)	19.1 (-42.4 to 150.9)	0.69	0.66	0.67
Andhra Pradesh	40.7 (24.0 to 59.1)	41.6 (24.4 to 60.4)	40.1 (22.8 to 58.5)	2.4 (-35.7 to 62.4)	-3.8 (-43.2 to 65.9)	-1.5 (-48.4 to 86.2)	0.24	-0.24	-0.06
Jammu and Kashmir	40.6 (22.7 to 58.7)	41.5 (24.0 to 60.0)	41.5 (24.7 to 59.9)	2.4 (-36.0 to 63.1)	-0.1 (-42.2 to 71.5)	2.2 (-45.2 to 97.6)	0.23	-0.01	0.08
Karnataka	37.9 (21.2 to 57.3)	38.4 (21.5 to 57.6)	39.0 (21.1 to 57.1)	1.5 (-37.7 to 62.0)	0.7 (-46.3 to 80.4)	3.0 (-45.4 to 93.2)	0.15	0.09	0.11
West Bengal	37.3 (20.3 to 55.1)	37.5 (21.7 to 55.2)	37.8 (19.8 to 57.4)	0.7 (-36.5 to 64.4)	0.7 (-46.3 to 80.4)	1.4 (-51.1 to 118.7)	0.07	0.04	0.05
Maharashtra	36.4 (19.4 to 54.5)	37.4 (21.2 to 56.1)	37.7 (21.9 to 54.8)	2.8 (-35.3 to 66.2)	0.9 (-42.1 to 81.5)	3.8 (-46.7 to 109.7)	0.28	0.06	0.14
Union territories other than Delhi	37.9 (20.7 to 56.0)	38.5 (28.6 to 49.1)	38.6 (28.4 to 48.8)	1.3 (-37.0 to 68.5)	-3.5 (-48.6 to 78.9)	2.3 (-54.1 to 95.2)	0.13	-0.22	-0.09
High ETL (152 million)	38.6 (28.3 to 50.0)	38.5 (28.6 to 49.1)	38.6 (28.4 to 48.8)	-0.3 (-23.7 to 30.2)	0.3 (-29.4 to 42.3)	0 (-33.2 to 42.7)	-0.03	0.02	0.00
Himachal Pradesh	39.3 (21.9 to 57.3)	39.6 (22.6 to 58.1)	39.2 (21.6 to 58.6)	0.6 (-37.7 to 58.3)	-1.1 (-44.2 to 81.4)	-0.5 (-48.7 to 90.5)	0.06	-0.07	-0.02
Punjab	36.1 (20.0 to 56.2)	37.2 (21.3 to 56.2)	37.9 (21.3 to 55.7)	2.9 (-38.1 to 66.8)	2.1 (-43.8 to 81.4)	5.1 (-48.2 to 116.1)	0.29	0.13	0.19
Tamil Nadu	38.6 (22.0 to 57.6)	38.5 (22.9 to 57.3)	38.5 (22.3 to 56.4)	-0.3 (-38.0 to 66.1)	0.1 (-46.6 to 75.5)	-0.2 (-50.9 to 97.3)	-0.03	0.01	-0.01
Goa	37.0 (21.4 to 55.5)	36.8 (20.5 to 55.1)	33.8 (18.4 to 51.5)	-0.5 (-40.3 to 62.8)	-8.0 (-50.1 to 68.5)	-8.5 (-53.5 to 83.6)	-0.05	-0.52	-0.34
Kerala	40.5 (23.3 to 60.3)	39.7 (23.0 to 58.0)	39.7 (23.2 to 57.2)	-2.1 (-37.5 to 60.3)	0.0 (-44.3 to 83.7)	-2.1 (-49.1 to 89.9)	-0.21	0.00	-0.08

ETL=epidemiological transition level.

Table 7: Prevalence of anaemia in reproductive age women for India and states grouped by epidemiological transition level, 1990-2016

	Prevalence			Percent change			Annualised percent change		
	1990 (95% uncertainty interval)	2000 (95% uncertainty interval)	2016 (95% uncertainty interval)	1990-2000 (95% uncertainty interval)	2000-2016 (95% uncertainty interval)	1990-2016 (95% uncertainty interval)	1990-2000	2000-2016	1990-2016
States of India grouped by ETL									
India (1316 million)	55.9 (54.7 to 57.3)	54.3 (53.1 to 55.5)	56.2 (54.9 to 57.5)	-3.0 (-4.1 to -1.9)	3.5 (2.3 to 4.8)	0.4 (-0.5 to 1.3)	-0.29	0.22	0.02
Low ETL (626 million)	59.4 (58 to 60.6)	57.5 (56.2 to 58.8)	59.3 (57.9 to 60.7)	-3.2 (-4.8 to -1.5)	3.2 (1.4 to 4.9)	-0.1 (-1.4 to 1.3)	-0.32	0.19	-0.01
Bihar	66.0 (64.0 to 68.0)	63.8 (62.0 to 65.6)	66.0 (64.3 to 67.9)	-3.4 (-6.4 to -0.2)	3.5 (0.2 to 6.8)	0.0 (-2.5 to 3.0)	-0.33	0.21	0.00
Jharkhand	64.2 (62.3 to 66.1)	62.7 (60.8 to 64.6)	64.8 (62.8 to 66.6)	-2.2 (-4.9 to 0.9)	3.3 (0.2 to 6.9)	1.0 (-1.5 to 3.8)	-0.23	0.21	0.04
Uttar Pradesh	55.9 (54.0 to 58.0)	53.7 (52.2 to 55.4)	55.8 (54.1 to 57.6)	-3.9 (-7.2 to -0.8)	3.9 (0.7 to 7.2)	-0.2 (-3.0 to 2.8)	-0.40	0.24	-0.01
Rajasthan	56.6 (55.1 to 58.1)	54.7 (53.3 to 56.3)	56.6 (55.0 to 58.0)	-3.3 (-5.6 to -0.7)	3.4 (0.7 to 5.9)	0.0 (-2.3 to 2.4)	-0.34	0.21	0.00
Meghalaya	52.7 (51.0 to 54.4)	52.1 (50.6 to 53.8)	52.6 (51.2 to 54.1)	-1.2 (-3.8 to 2.0)	1.0 (-1.9 to 3.7)	-0.2 (-2.8 to 2.7)	-0.12	0.06	-0.01
Assam	67.9 (66.0 to 69.5)	66.4 (64.5 to 68.2)	67.0 (65.2 to 68.7)	-2.2 (-4.5 to 0.4)	1.0 (-1.5 to 3.8)	-1.2 (-3.7 to 1.5)	-0.22	0.06	-0.05
Chhattisgarh	55.5 (53.4 to 57.8)	55.0 (53.1 to 57.1)	56.7 (54.7 to 58.6)	-0.8 (-4.5 to 3.1)	3.1 (-0.9 to 7.4)	2.3 (-1.6 to 6.3)	-0.09	0.19	0.08
Madhya Pradesh	58.2 (56.5 to 60.1)	56.1 (54.3 to 57.9)	58.3 (56.6 to 60.0)	-3.7 (-6.4 to -0.9)	4.0 (1.0 to 7.3)	0.2 (-2.1 to 2.5)	-0.37	0.24	0.01
Odisha	58.6 (56.6 to 60.3)	57.9 (56.5 to 59.3)	58.9 (57.2 to 60.5)	-1.2 (-3.8 to 1.8)	1.8 (-1.6 to 4.5)	0.6 (-2.7 to 3.5)	-0.12	0.11	0.02
Lower-middle ETL (92 million)	53.3 (51.9 to 54.6)	51.5 (50.1 to 52.8)	52.8 (51.5 to 54.2)	-3.4 (-5.5 to -1.4)	2.6 (0.5 to 4.8)	-0.8 (-2.7 to 1.1)	-0.34	0.16	-0.04
Arunachal Pradesh	50.2 (48.1 to 52.2)	49.5 (47.8 to 51.3)	50.6 (48.7 to 52.4)	-1.4 (-4.8 to 2.5)	2.2 (-1.2 to 5.7)	0.7 (-2.8 to 4.2)	-0.14	0.14	0.03
Mizoram	41.9 (40.4 to 43.6)	40.6 (39.2 to 42.2)	41.4 (39.8 to 43.2)	-3.1 (-6.7 to 0.1)	2.1 (-1.8 to 5.9)	-1.1 (-4.9 to 2.8)	-0.31	0.12	-0.04
Nagaland	38.9 (37.4 to 40.7)	38.0 (36.6 to 39.4)	37.5 (36.1 to 38.9)	-2.4 (-6.0 to 1.6)	-1.3 (-5.1 to 2.4)	-3.7 (-7.2 to 0.3)	-0.24	-0.08	-0.14
Uttarakhand	49.9 (48.4 to 51.7)	48.7 (47.0 to 50.4)	50.3 (48.6 to 52.0)	-2.5 (-5.5 to 0.6)	3.3 (0.2 to 7.1)	0.7 (-2.6 to 3.7)	-0.25	0.20	0.03
Gujarat	55.1 (53.6 to 56.9)	53.3 (52.1 to 54.6)	54.7 (53.3 to 56.2)	-3.2 (-6.1 to -0.8)	2.6 (0.0 to 5.2)	-0.7 (-3.0 to 1.6)	-0.33	0.16	-0.03
Tripura	57.0 (55.2 to 58.8)	55.7 (54.0 to 57.2)	57.8 (56.1 to 59.4)	-2.3 (-5.3 to 0.4)	3.8 (0.7 to 6.7)	1.4 (-1.9 to 4.2)	-0.23	0.23	0.05
Sikkim	52.0 (50.3 to 53.9)	51.5 (49.6 to 53.3)	52.2 (50.2 to 54.2)	-1.0 (-4.7 to 2.6)	1.4 (-2.0 to 4.8)	0.4 (-3.4 to 4.4)	-0.11	0.08	0.01
Manipur	33.1 (31.4 to 34.8)	32.1 (30.3 to 33.8)	33.9 (32.2 to 35.5)	-3.1 (-7.8 to 2.0)	5.5 (0.6 to 10.7)	2.2 (-2.6 to 7.0)	-0.31	0.34	0.09
Higher-middle ETL (446 million)	54.5 (53.2 to 55.8)	53.1 (51.9 to 54.2)	54.8 (53.5 to 56.1)	-2.7 (-4.1 to -1.5)	3.3 (1.8 to 5.2)	0.6 (-0.7 to 1.8)	-0.26	0.20	0.02
Haryana	57.5 (56.0 to 58.9)	56.4 (54.6 to 58.1)	58.0 (56.3 to 59.4)	-1.9 (-4.3 to 0.7)	2.8 (0.0 to 5.6)	0.9 (-1.7 to 3.7)	-0.19	0.17	0.04
Delhi	48.8 (46.8 to 50.5)	46.3 (44.8 to 48.2)	48.4 (46.5 to 50.6)	-5.2 (-8.8 to -1.1)	4.7 (0.3 to 9.7)	-0.8 (-4.8 to 3.1)	-0.53	0.28	-0.03
Telangana	55.1 (53.5 to 56.6)	54.3 (52.8 to 55.8)	56.0 (54.3 to 57.6)	-1.5 (-4.0 to 1.1)	3.1 (0.3 to 5.8)	1.6 (-1.0 to 4.2)	-0.14	0.19	0.06
Andhra Pradesh	58.2 (56.6 to 59.9)	57.1 (55.6 to 58.7)	58.5 (57.0 to 60.0)	-1.8 (-4.1 to 0.3)	2.5 (0.0 to 4.9)	0.6 (-1.6 to 2.9)	-0.19	0.15	0.02
Jammu and Kashmir	47.2 (45.5 to 48.7)	46.7 (45.4 to 47.9)	47.7 (46.1 to 49.3)	-1.2 (-4.4 to 2.1)	2.2 (-1.2 to 5.4)	1.0 (-2.8 to 4.4)	-0.12	0.14	0.04
Karnataka	51.9 (50.4 to 53.5)	49.7 (48.4 to 51.0)	52.3 (50.7 to 53.7)	-4.3 (-7.1 to -1.6)	5.2 (2.2 to 8.4)	0.7 (-2.1 to 3.2)	-0.44	0.32	0.03
West Bengal	58.1 (56.4 to 59.9)	57.6 (56.0 to 59.4)	58.5 (56.8 to 60.2)	-0.8 (-3.5 to 1.8)	1.5 (-1.4 to 4.4)	0.6 (-2.1 to 3.4)	-0.09	0.10	0.03
Maharashtra	51.6 (50.0 to 53.2)	49.6 (48.3 to 51.2)	52.1 (50.6 to 53.7)	-3.9 (-6.7 to -1.4)	5.0 (2.0 to 8.3)	0.9 (-1.7 to 3.3)	-0.39	0.31	0.04
Union territories other than Delhi	55 (53.5 to 56.6)	53.4 (51.7 to 55.1)	54.6 (52.7 to 56.6)	-3.0 (-5.9 to -0.4)	2.4 (-0.7 to 5.5)	-0.7 (-3.3 to 2.1)	-0.30	0.14	-0.03
High ETL (152 million)	50.7 (49.4 to 52.0)	48.9 (47.6 to 50.2)	50.6 (49.3 to 51.9)	-3.5 (-5.2 to -1.7)	3.4 (1.5 to 5.3)	-0.2 (-2.1 to 1.5)	-0.36	0.21	-0.01
Himachal Pradesh	43.5 (41.6 to 45.3)	42.1 (40.6 to 43.5)	44.7 (42.7 to 46.4)	-3.1 (-7.1 to 1.7)	6.1 (1.7 to 11.0)	2.7 (-1.1 to 7.5)	-0.32	0.38	0.11
Punjab	52.8 (51.1 to 54.7)	51.7 (50.2 to 53.5)	53.2 (51.7 to 54.7)	-2.0 (-5.0 to 1.3)	2.8 (-0.2 to 5.6)	0.7 (-1.8 to 3.4)	-0.21	0.18	0.03
Tamil Nadu	57.8 (56.3 to 59.4)	55.3 (54.0 to 56.7)	56.8 (55.2 to 58.3)	-4.4 (-6.5 to -1.9)	2.7 (0.2 to 4.9)	-1.9 (-4.4 to 0.8)	-0.45	0.17	-0.07
Goa	40.4 (38.6 to 42.0)	39.9 (38.3 to 41.4)	41.0 (39.2 to 42.8)	-1.3 (-5.0 to 2.3)	2.7 (-1.1 to 6.6)	1.4 (-2.6 to 5.3)	-0.13	0.17	0.06
Kerala	37.6 (35.8 to 39.7)	36.4 (34.7 to 38.3)	37.2 (35.4 to 38.9)	-3.2 (-7.7 to 1.8)	2.2 (-3.2 to 8.2)	-1.1 (-5.6 to 3.2)	-0.32	0.14	-0.04

ETL=epidemiological transition level.

Table 8: Prevalence of overweight in children aged 2-4 years for India and states grouped by epidemiological transition level, 1990-2016

States of India grouped by ETL	Prevalence			Percent change			Annualised percent change		
	1990	2000	2016	1990-2000	2000-2016	1990-2016	1990-2000	2000-2016	1990-2016
	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)	(95% uncertainty interval)
States of India (1316 million)	7.6 (4.4 to 11.9)	7.3 (4.2 to 11.5)	11.8 (7.1 to 17.9)	-3.4 (-21.6 to 19.6)	60.7 (27.4 to 100.3)	55.1 (22.2 to 96.1)	-0.35	3.01	1.70
Low ETL (626 million)	6.4 (4.8 to 8.6)	5.4 (4.1 to 7.3)	7.8 (5.8 to 10.5)	-15.3 (-38.6 to 20.8)	44.6 (-2.2 to 117.8)	22.4 (-18.6 to 83.2)	-1.65	2.30	0.76
Bihar	6.8 (3.3 to 12.9)	4.3 (2.1 to 8.1)	5.8 (2.8 to 10.0)	-36.9 (-70.0 to 33.6)	34.9 (-43.0 to 235.2)	-14.8 (-65.9 to 114.1)	-4.50	1.89	-0.62
Jharkhand	4.6 (2.2 to 8.2)	4.1 (2.0 to 7.4)	6.0 (3.0 to 10.9)	-12.4 (-57.3 to 93.5)	47.5 (-40.0 to 251.9)	29.3 (-51.2 to 210.7)	-1.31	2.46	0.99
Uttar Pradesh	7.7 (3.9 to 13.7)	6.6 (3.6 to 11.3)	9.3 (4.6 to 16.0)	-13.5 (-58.3 to 88.8)	40.1 (-39.2 to 210.1)	21.1 (-51.6 to 184.0)	-1.44	2.13	0.74
Rajasthan	5.6 (2.9 to 9.9)	5.6 (2.9 to 10.1)	8.3 (4.1 to 14.3)	-1.3 (-47.7 to 101.8)	49.7 (-39.4 to 245.8)	47.7 (-39.5 to 236.0)	-0.13	2.55	1.51
Meghalaya	12.8 (6.6 to 22.5)	13 (7.5 to 21.1)	19.4 (13.2 to 27.6)	1.3 (-47.7 to 101.8)	49.7 (-39.4 to 245.8)	51.3 (-21.8 to 230.9)	0.13	2.54	1.61
Assam	7.3 (3.6 to 13.2)	6.6 (3.4 to 11.4)	9.5 (4.7 to 17.2)	-9.6 (-55.1 to 86.8)	45.6 (-39.9 to 257.0)	31.6 (-46.3 to 232.6)	-1.01	2.38	1.06
Chhattisgarh	6.7 (3.1 to 13.5)	5.2 (2.6 to 9.6)	9.0 (4.4 to 16.3)	-22.7 (-64.0 to 85.9)	73.1 (-32.7 to 301.5)	33.9 (-50.3 to 252.1)	-2.54	3.49	1.13
Madhya Pradesh	4.3 (2.1 to 7.8)	3.8 (1.8 to 7.1)	5.4 (2.6 to 9.8)	-11.4 (-58.1 to 83.4)	42.1 (-40.2 to 246.9)	25.9 (-48.8 to 203.9)	-1.21	2.22	0.89
Odisha	5.3 (2.5 to 9.6)	4.8 (2.7 to 8.1)	8.4 (4.4 to 14.7)	-8.1 (-55.4 to 96.6)	73.3 (-28.6 to 283.6)	59.2 (-32 to 287.6)	-0.84	3.49	1.81
Lower-middle ETL (92 million)	6.6 (4.3 to 10.2)	6.8 (4.7 to 9.9)	11.3 (7.7 to 16.9)	2.5 (-37.5 to 65.4)	65.7 (-0.2 to 180.7)	69.8 (-3.9 to 198.6)	0.24	3.23	2.07
Arunachal Pradesh	12.5 (6.2 to 22.4)	13.3 (7.7 to 22.0)	26.3 (18.9 to 35)	6.3 (-44.4 to 110.9)	97.7 (4.2 to 261.3)	110.2 (10.0 to 355.9)	0.62	4.35	2.90
Mizoram	13.4 (7.1 to 23)	14.0 (8.0 to 22.2)	16.5 (11.0 to 24.1)	4.6 (-47.1 to 104.5)	17.6 (-38.6 to 133.7)	23.1 (-38.4 to 156.4)	0.45	1.02	0.80
Nagaland	14.7 (7.4 to 24.9)	15.3 (9.0 to 23.8)	18.2 (12.0 to 25.7)	3.8 (-45.6 to 102.1)	19.5 (-35.1 to 118.9)	24.0 (-36.0 to 169.6)	0.37	1.12	0.83
Uttarakhand	6.4 (3.1 to 12.1)	6.2 (3.1 to 11.3)	13.6 (6.9 to 25.2)	-3.4 (-58.6 to 113.5)	120.2 (-6.4 to 442.9)	112.8 (-12.5 to 440.9)	-0.34	5.06	2.95
Gujarat	6.0 (2.9 to 10.9)	6.0 (3.2 to 10.2)	9.4 (4.9 to 16.7)	-0.5 (-52.3 to 115.1)	57.4 (-33.4 to 263.2)	56.6 (-36.2 to 286.1)	-0.05	2.88	1.74
Tripura	7.8 (3.9 to 14.0)	7.7 (4.1 to 13.1)	16.2 (10.9 to 23.8)	-1.0 (-50.6 to 107.4)	110.4 (5.5 to 339.5)	108.3 (4.8 to 359.1)	-0.10	4.76	2.86
Sikkim	21.0 (11.1 to 35.3)	25.4 (15.7 to 38.3)	18.0 (11.2 to 27.6)	20.9 (-31.4 to 130.2)	-29.0 (-61.5 to 39.0)	-14.1 (-57.3 to 82.9)	1.92	-2.12	-0.58
Manipur	6.6 (3.3 to 12.0)	6.4 (3.6 to 10.7)	19.7 (13.6 to 27.3)	-3.3 (-52.2 to 111.4)	208.7 (58.6 to 512.6)	198.5 (41.2 to 543.8)	-0.34	7.30	4.30
Higher-middle ETL (446 million)	9.1 (6.8 to 12.1)	9.6 (7.4 to 12.4)	18.1 (14.7 to 22.2)	5.3 (-24.5 to 48.4)	88.7 (37.0 to 158.4)	98.6 (40.0 to 182.3)	0.51	4.03	2.66
Haryana	4.2 (2.0 to 7.6)	4.9 (2.5 to 8.9)	15.8 (9.4 to 23.9)	18.8 (-44.2 to 148.4)	219.3 (45.6 to 584.5)	279.4 (70.8 to 767.2)	1.74	7.53	5.26
Delhi	12.4 (6.1 to 22.5)	12.6 (6.4 to 21.3)	26.2 (16.9 to 37.8)	1.4 (-51.8 to 101.7)	108.4 (7.3 to 351.6)	111.2 (2.4 to 356.8)	0.14	4.70	2.92
Telangana	16.2 (8.3 to 28.4)	17.0 (8.7 to 29.8)	28.4 (19.0 to 39.1)	5.1 (-49.5 to 112.5)	67.0 (-15.9 to 254.0)	75.6 (-12.3 to 271.5)	0.50	3.26	2.19
Andhra Pradesh	7.7 (3.8 to 13.2)	8.8 (4.8 to 15.4)	18.9 (10.9 to 29.4)	14.3 (-45.2 to 139.2)	116.3 (-5.1 to 360.3)	147.3 (14.4 to 470.9)	1.35	4.94	3.54
Jammu and Kashmir	8.0 (3.8 to 14.6)	7.6 (4.0 to 12.7)	12.7 (6.3 to 22.2)	-5.5 (-55.2 to 102.9)	67.8 (-27.2 to 284.4)	58.5 (-34 to 269.6)	-0.57	3.29	1.79
Karnataka	6.9 (3.5 to 12.0)	7.2 (3.8 to 12.2)	11.7 (6.0 to 19.7)	3.7 (-47.5 to 105.6)	62.9 (-28.3 to 270.5)	68.9 (-30.8 to 313.5)	0.36	3.10	2.04
West Bengal	5.5 (2.7 to 9.8)	5.9 (2.9 to 10.8)	17.3 (10.5 to 26.1)	7.3 (-49.2 to 127.2)	193.3 (43.5 to 552.8)	214.7 (57.2 to 593.9)	0.71	6.96	4.51
Maharashtra	12.2 (6.3 to 20.9)	12.5 (6.9 to 20.9)	18.5 (11.0 to 28.8)	2.5 (-50.1 to 116.3)	47.6 (-31.2 to 214.0)	51.2 (-29.3 to 242.0)	0.25	2.46	1.60
Union territories other than Delhi	16.9 (9.3 to 29.4)	14.2 (7.3 to 25.1)	25.4 (12.9 to 41.2)	-16.0 (-59.2 to 73.3)	78.7 (-21.2 to 290.1)	50.1 (-37.2 to 239.1)	-1.73	1.90	0.49
High ETL (152 million)	8.0 (5.2 to 11.9)	9.0 (5.9 to 13.3)	17.4 (12.6 to 23.9)	12.6 (-29.1 to 84.4)	93.9 (17.2 to 222.7)	118.3 (34.9 to 268.9)	1.19	4.23	3.05
Himachal Pradesh	3.9 (1.8 to 6.6)	5.1 (2.5 to 9.1)	21.6 (14.6 to 31.1)	31.1 (-38.6 to 182.2)	326.4 (115.2 to 846.7)	459.1 (181.5 to 1071.8)	2.75	9.49	6.84
Punjab	7.1 (3.6 to 13.1)	7.5 (3.7 to 13.5)	13.1 (7.6 to 19.9)	5.3 (-48.4 to 123.9)	75.2 (-15.2 to 289.9)	84.5 (-13.3 to 314.6)	0.52	3.57	2.38
Tamil Nadu	9.0 (4.6 to 15.9)	10.1 (5.0 to 18.3)	15.7 (8.4 to 26.6)	12.1 (-47.0 to 142.0)	55.7 (-31.1 to 279.8)	74.5 (-22.1 to 320.1)	1.15	2.81	2.17
Goa	12.2 (6.2 to 20.9)	13.9 (7.5 to 22.9)	25.6 (16.8 to 37.9)	14.2 (-39.8 to 128.7)	84.8 (-6.9 to 281.6)	110.9 (4.1 to 343.2)	1.33	3.91	2.91
Kerala	7.1 (3.5 to 12.7)	8.3 (4.2 to 15.1)	23.3 (14.5 to 34.1)	17.3 (-43.6 to 148.8)	180.3 (34.2 to 515.1)	228.8 (58.8 to 640.9)	1.61	6.65	4.68

ETL=epidemiological transition level.