

Data Note

No. 39 | SEPTEMBER 2021

ANDHRA PRADESH

State Nutrition Profile: Andhra Pradesh

ABOUT THIS DATA NOTE

This Data Note describes the trends for a set of key nutrition and health outcomes, determinants, and coverage of interventions. The findings here are based on data from the National Family Health Survey (NFHS) 3 (2005-2006), 4 (2015-2016), and 5 (2019-2020). In addition to standard prevalence-based analyses, this Data Note includes headcount-based analyses aligned to the POSHAN Abhivaan monitoring framework and uses data from NFHS-5 to provide evidence that helps identify priority districts and number of districts in the state with public health concern as per the WHO guidelines. The Data Note includes a color-coded dashboard to compare the coverage of nutrition interventions across all the districts in the state. It concludes with key takeaways for children, women, and men and identifies areas where the state has potential to improve.

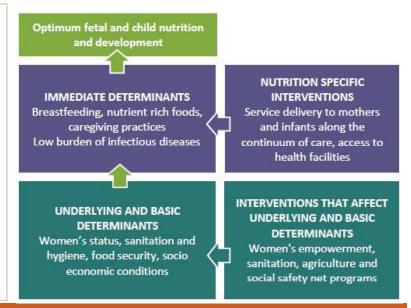
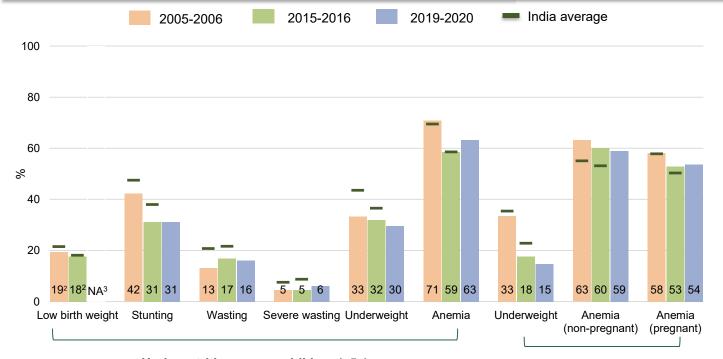


Figure 1. Trends in undernutrition outcomes 2005-2006, 2015-2016, 2019-2020

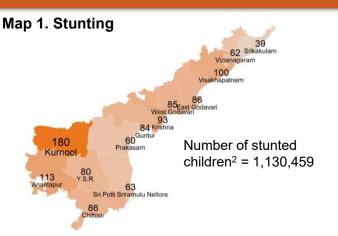


Undernutrition among children (<5y)

Undernutrition among women (15-49y)

Source: NFHS-3 (2005-2006), NFHS-4 (2015-2016), and NFHS-5 state factsheets (2019-2020). Note: Adult nutrition outcomes are based on the woman dataset, while child nutrition outcomes are based on all child data. ¹WHO. Nutrition Landscape Information System (NLiS). Help Topic: Malnutrition in children. Stunting, wasting, overweight and underweight. (help.aspx?menu=0&helpid=391&lang=EN). ²In NFHS-3, 28.2% of data was missing, while 4.1% of data was missing in NFHS-4. ³NA refers to the unavailability of data for a particular indicator in the specified NFHS round.

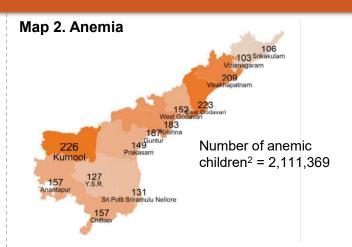
Map 1 & 2. Number of stunted & anemic children <5y, 2019-2020



Note: Number in '000s in the above figure

Highest burden districts				
1	Kurnool	179,685		
2	Anantapur	112,943		
3	Visakhapatnam	99,556		
4	Krishna	92,534		
5	Chittoor	86,363		

No. of districts with public health concern¹: 13 of 13



Note: Number in '000s in the above figure

	Highest burd	en districts
1	Kurnool	226,296
2	East Godavari	223,410
3	Visakhapatnam	209,442
4	Guntur	187,010
5	Krishna	183,263

No. of districts with public health concern¹: 13 of 13

Map 3 & 4. Number of wasted children <5y, 2019-2020

Map 3. Wasting

38
33 Srikakulam
Vizianagaram
69
Visakhapatnam

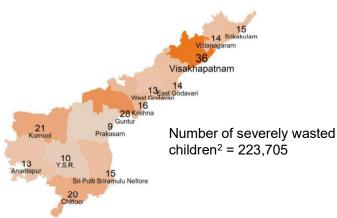
32 East Godavari
44
62 Krishna
23 Guntur
Prakasam
Number of wasted
children² = 592,566

Note: Number in '000s in the above figure

	Highest burden districts			
1	Visakhapatnam	69,047		
2	Guntur	62,489		
3	Anantapur	60,550		
4	Kurnool	59,421		
5	East Godavari	53,240		

No. of districts with public health concern¹: 12 of 13

Map 4. Severe Wasting



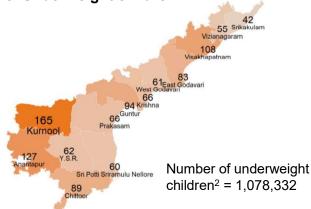
Note: Number in '000s in the above figure

	Highest burden districts	
1	Visakhapatnam	35,968
2	Guntur	28,436
3	Kurnool	21,349
4	Chittoor	20,077
5	Krishna	16,147

No. of districts with public health concern¹: 13 of 13

Map 5 & 6. Number of underweight children (<5y) & women (15-49y), 2019-2020

Map 5. Underweight children

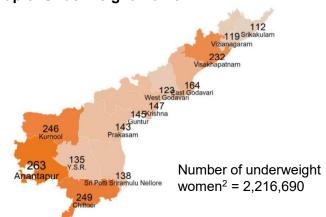


Note: Number in '000s in the above figure

	Highest burden dis	tricts
1	Kurnool	164,741
2	Anantapur	127,374
3	Visakhapatnam	107,584
4	Guntur	94,436
5	Chittoor	88,913

No. of districts with public health concern1: 13 of 13

Map 6. Underweight women



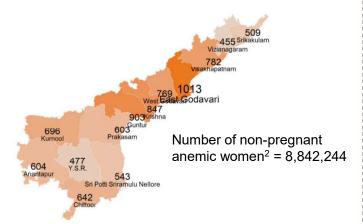
Note: Number in '000s in the above figure

		Highest burden districts	
	1	Anantapur	263,108
2	2	Chittoor	249,145
;	3	Kurnool	245,821
4	4	Visakhapatnam	232,064
	5	East Godavari	163,528

No. of districts with public health concern¹: 13 of 13

Map 7 & 8. Number of anemic women (15-49y), 2019-2020

Map 7. Anemia among non-pregnant women

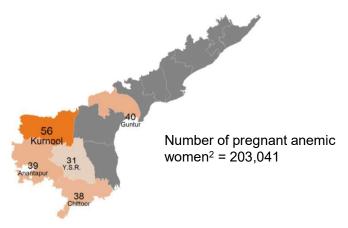


Note: Number in '000s in the above figure

Highest burden districts			
1	East Godavari	1,013,230	
2	Guntur	903,152	
3	Krishna	846,540	
4	Visakhapatnam	781,549	
5	West Godavari	768,838	

No. of districts with public health concern¹: 13 of 13

Map 8. Anemia among pregnant women²



Note: Number in '000s in the above figure

	Highest burden districts	
1	Kurnool	55,500
2	Guntur	39,869
3	Anantapur	39,275
4	Chittoor	37,715
5	Y.S.R.	30,682

No. of districts with public health concern¹: 13 of 13

Figure 2. Trends in overweight/obesity & NCDs¹ 2005-2006, 2015-2016, 2019-2020

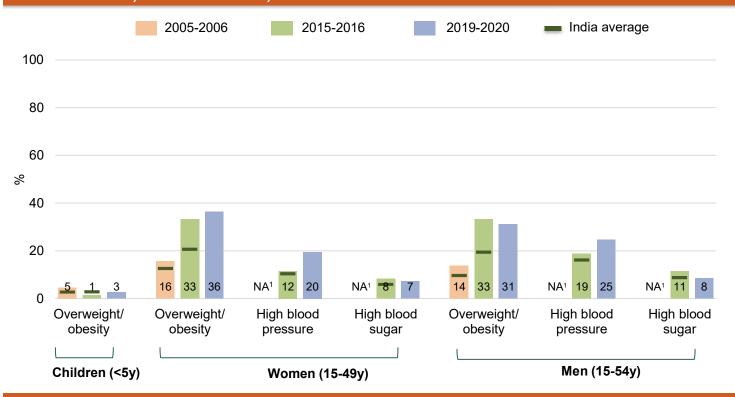


Table 1. Overweight/obesity & NCDs¹ at district-level 2015-2016, 2019-2020

Category	Outcomes	Worst performing districts (pp) ⁶	Best performing districts (pp) ⁶	Highest burden districts (thousands) ²	No of districts with public health concern ³ (total=13)
		Difference between (2019-2020) & (2015- 2016)	Difference between (2019-2020) & (2015- 2016)	2019-2020	2019-2020
Children <5 years	Overweight/ obesity	W.Godavari ⁴ : +5.2 Vizianagaram: +4.2	Y.S.R: -2.8 Nellore⁴ : -0.5	Visakhapatnam: 15 W.Godavari ⁴ : 14	0
	Overweight/ obesity	E. Godavari ⁴ : +8.1 Prakasam : +7.2	Krishna: -5.3 Visakhapatnam: -4.9	E.Godavari ⁴ : 712 Guntur: 701	13
Women (15-49 years)	High blood pressure	Kurnool: +12.3 Prakasam: +11.9	Not applicable ⁵	E.Godavari ⁴ :314 Guntur: 311	6
	High blood sugar	Kurnool: +1.4 Y.S.R:+0.2	Krishna: -4.8 Chittoor: -2.1	E.Godavari ⁴ :120 Guntur: 117	0
	Overweight /obesity	Data not available at	district level		
Men (15-54 years)	High blood pressure	Guntur: +13.4 Visakhapatnam: +11.4	Vizianagaram: -2.8 Anantapur: -1.3	Guntur: 432 E.Godavari ⁴ :428	13
	High blood sugar	Prakasam: +3.7 Krishna: +3.5	Y.S.R: -11.6 Vizianagaram: -10.6	Guntur: 174 E.Godavari ⁴ :160	0

Source: NFHS-3 (2005-2006), NFHS-4 (2015-2016), and NFHS-5 state and district factsheets (2019-2020). pp: percentage points. Note: Adult nutrition outcomes are based on the woman/man dataset, while child nutrition outcomes are based on all child data. ¹NCDs: non-communicable diseases. ¹NA refers to the unavailability of data for a particular indicator in the specified NFHS round. ²Burden: The headcount was calculated as the product of the prevalence and the total eligible projected population for each district in 2019. Prevalence estimates were obtained from NFHS-5 (2019-2020) and projected population for 2019 was estimated using Census 2011. ³Public health concern is defined as prevalence ≥15% for overweight/obesity (children), ≥20% for overweight/obesity (women and men), ≥ 20% high blood pressure (women and men), and ≥20% high sugar (women and men) (WHO 2011). ⁴ District codes: Nellore: Sri Potti Sriramulu Nellore; E. Godavari: East Godavari; W. Godavari: West Godavari. ⁵ No decreases observed in any districts. ⁶The difference is calculated only between districts that are comparable between 2015-2016 and 2018-2019. All districts are comparable.

Figure 3. Trends in immediate determinants (%) 2005-2006, 2015-2016, 2019-2020

Category	Immediate determinants	2005-2006	2015-2016	2019-2020
	Early initiation of breastfeeding	23	41	52
	Exclusive breastfeeding	62	70	68
Early initiation of breastfeeding 23 Exclusive breastfeeding 6 Timely introduction of complementary foodso 45	45	59	51	
IVOT	Continued breastfeeding at 2 years	100	71	
IYCF practices	Adequate diet ^o	<u> </u>	8	9
	Eggs and/or flesh foods consumption, 6-23m	<u> </u>	24	
	Sweet beverage consumption, 6-23m	<u> </u>	28	
	Bottle feeding of infants, 6-23m	<u> </u>	23	
Maternal	Women with body mass index <18.5 kg/m2°	39	21	15
determinants	Consumed IFA 100+ days	27	58	70
Diseases	Diarrhea in the last two weeks ^o	6	8	7
Diseases	ARI in the last two weeks ^o	2	1	2

Table 2. Immediate determinants at district-level 2015-2016, 2019-2020

Category	Immediate determinants	Worst performing Best performing districts (pp) ³ districts (pp) ³		Top coverage districts (%) ¹	
		Difference between (2019-2020) & (2015-2016)	Difference between (2019-2020) & (2015-2016)	2019-2020	
	Early initiation of breastfeeding	Krishna: -9.6 Chittoor: -7.1	Prakasam: +40.9 Kurnool:+34.4	Prakasam: 73.8 Guntur: 69.3	
IYCF	Exclusive breastfeeding	Nellore: -17.4 Chittoor: -11.1	Anantapur: +3.4 Y.S.R.: +0.7	Kurnool:78.1 Y.S.R: 77.4	
practices	Timely introduction of complementary foods ⁰	Data not available at district level			
	Adequate diet ⁰	Anantapur: -12.7 Vizianagaram: -10.7	Krishna: +13.3 Srikakulam: +12.2	Krishna: 23.4 Srikakulam: 16.1	
Maternal determinants	Women with BMI<18.5 kg/m2 ⁰	Not applicable ⁴	Vizianagaram: -13.4 Visakhapatnam: -13.1	Guntur: 9.6 W. Godavari²: 10.1	
determinants	Consumed IFA 100+ days	Krishna:-15.0	W.Godavari²: +37.8 Guntur: +35.8	W.Godavari ² : 82.8 Nellore ² : 76.1	
Diagona	Diarrhea in the last two weeks ⁰	Nellore²: +7.2 Srikakulam: +5.2	Prakasam: -6.7 W. Godavari²: -4.8	Anantapur: 2.5 W. Godavari²: 2.7	
Diseases	ARI in the last two weeks ⁰	Kurnool: +4.2 Nellore ² :+3.9	W. Godavari²: -0.1 Vizianagaram: -0.1	W. Godavari: ² 1.0 Guntur: 1.0	

Source: NFHS-3 (2005-2006), NFHS-4 (2015-2016), and NFHS-5 state and district factsheets (2019-2020). pp: percentage points.

Note: Immediate determinants are based on the last child data; data on continued breastfeeding at 2 years, egg and/or flesh foods consumption, sweet beverage consumption, and bottle feeding of infants not available in NFHS-5 factsheets (2019-20)/state report

Olndicator definition differs slightly between NFHS-4 and NFHS-5. For all indicators, top coverage districts refer to the districts with the highest prevalence in immediate determinants, except for women with a BMI of 18.5 kg/m2, diarrhea in the last two weeks, and ARI in the last two weeks, for which it refers to the districts with the lowest prevalence in coverage. District codes: Nellore: Sri Potti Sriramulu Nellore; E. Godavari: East Godavari; W. Godavari: West Godavari. The difference is calculated only between districts that are comparable between 2015-2016 and 2018-2019. All districts are comparable across periods.

Figure 4. Trends in underlying determinants (%) 2005-2006, 2015-2016, 2019-2020

Category	Underlying determinants	2005-2006	2015-2016	2019-2020
	Women who are literate ^o	50	75	69
Maternal	Women with ≥10 years education ^o	21	43	40
determinants	Girls 20-24 years married before age of 18 years ^o	72	50	29
	Women 15-19 years with child or pregnant	•	12	1 3
	HHs with improved drinking water source®	92	71	97
	HHs with improved sanitation facility ^o	26	47	77
	HHs with hand washing facility	•	56	
Household determinants	Open defecation ^o	62	44	1 6
	Safe disposal of feces	—— 19	29	
	HHs with BPL card ^o	66	84	90
	HHs with electricity ^o	89	100	100

Table 3. Underlying determinants at district-level 2015-2016, 2019-2020

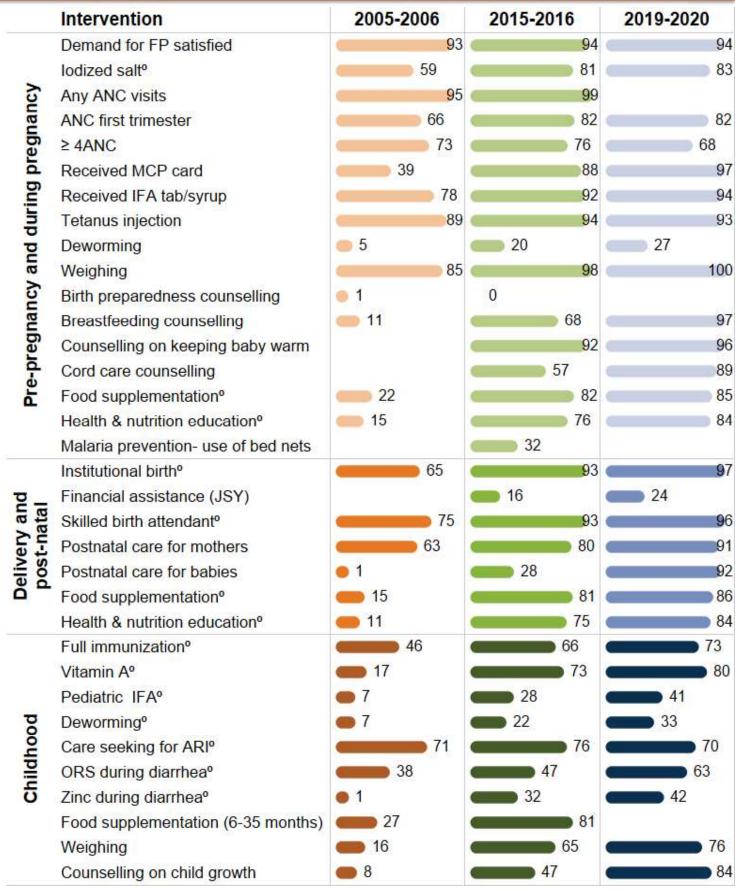
Category	Underlying determinants	Worst performing districts (pp)⁵	Best performing districts (pp) ⁵	Top coverage districts (%) ¹
		Difference between (2019-2020) & (2015-2016)	Difference between (2019-2020) & (2015-2016)	2019-2020
	Women who are literate ⁰	Chittoor:-17.4 Srikakulam:-15.3	Kurnool:+2.8	E.Godavari ⁵ : 78.0 2 districts ⁴ : 77.0
Maternal	Women with ≥10 years education ⁰	2 districts ³ :-12.0 Guntur:-11.2	Kurnool: +8.9 Prakasam: +5.3	W. Godavari ⁵ : 47.0 2 districts ⁶ : 46.0
determinants	Girls 20-24 years married before age of 18 years ⁰	Not applicable ²	Nellore ⁵ : -28.9 Krishna: -28.2	W. Godavari ⁵ : 22.1 Nellore:23.8
	Women 15-19 years with child or pregnant	Anantapur: +8.4 Guntur: +7.1	E.Godavari ⁵ : -6.6 Srikakulam: -6.2	Nellore: 5.5 E. Godavari ⁵ : 6.2
	HHs with improved drinking water source ⁰	Not applicable ²	Y.S.R :+48.6 Prakasam: +44.4	Y.S.R: 100.0 Guntur: 99.3
Household determinants	HHs with improved sanitation facility ⁰	Not applicable ²	Srikakulam: +43.0 Chittoor +38.9	Y.S.R: 85.0 Guntur: 83.0
	HHs with electricity ⁰	E.Godavari ⁵ :-1.2 Guntur:-0.8	Visakhapatnam: +1.0 Vizianagaram:+0.9	3 districts ⁴ :100.0

Source: NFHS-3 (2005-2006), NFHS-4 (2015-2016), and NFHS-5 state and district factsheets and state reports (2019-2020).

Note: Underlying determinants are based on the last child data; safe disposal of feces not available in NFHS-5 factsheets (2019-20)/state report and data on HHs with hand washing facility not available in NFHS-3 (2005-06) and NFHS-5 factsheets (2019-20)/state report. Data on open defecation and HHs with BPL card for 2019-2020 are taken from NFHS-5 state reports.

⁰Indicator definition differs slightly between NFHS-4 and NFHS-5. ¹For all indicators, top coverage districts refer to the districts with the highest prevalence in underlying determinants, except for girls 20-24 years married before age of 18 years and women 15-19 years with child or pregnant for which it refers to the districts with the lowest prevalence in coverage. ²Prevalence did not increase (girls married before 18 years) or decrease (sanitation, drinking water source) in any of the districts. ³ Anantapur, Chittoor. ⁴ Anantapur, Chittoor, Y.S.R. ⁵The difference is calculated only between districts that are comparable between 2015-2016 and 2018-2019. All districts are comparable across periods. ⁵ District codes: Nellore: Sri Potti Sriramulu Nellore; E. Godavari: East Godavari; W. Godavari: West Godavari.

Figure 5. Trends in coverage of interventions across the first 1,000 days (%), 2005-2006, 2015-2016, 2019-2020



Source: NFHS-3 (2005-2006), NFHS-4 (2015-2016) & NFHS-5 state factsheets and state reports (2019-2020). OIndicator comparable between NFHS-3 and NFHS-4 but differs slightly from NFHS-5.

Note 1: Interventions' coverage is based on the last child data.

Note 2: The following information is not available in the NFHS-5 factsheets and state reports (2019-20): receipt of at least one ANC visit, birth preparedness counselling, malaria prevention and food supplementation (6-35m). Information on use of bed nets during pregnancy is not available in NFHS-3 data (2006). Note 3: Data on food supplementation and health and nutrition education during pregnancy and post-natal care, and weight measurement during childhood and counselling on child growth for 2019-2020 are taken from NFHS-5 state reports.

Note 4: Refer to district dashboard for the inter-district variability in the coverage of interventions.

Intervention coverage at district-level, 2019-2020

District name	Pre-pregnancy	.						Pre	Pregnancy									Deli	Delivery & postnatal	postna	Ita						Early ch	Early chiidhood	_		
	Partition of Premed to the med to the media of the media	saisiv DMA ynA	ANC first trimester	24 ANC	Received MCP card	Received IFA quyrup	nothosini sunstaT	Buimrowad	BrildBleW	Birth preparedness counselling	Brieastfeeding counselling on gillesunco	keeping baby warm Cord care counselling	Food supplementation	Health & nutrition	education Malaria prevention-	use of bed nets	Financial assistance	(YZL) Triebriatte attendant	Postnatal care for	mothers Postnatal care for	seided noitetnemelqus boo7	Health & nutrition	noitesube	A nimetiV	AII ointeibee¶	BuimiowaQ	NA vot gnixees seeN	69 during diamhea	eadme during diamhea	Food supplementation (6-35 months)	BringleW Meighing word blid on guillesunoD
ANDHRA PRADESH	83.1		81.7	67.5	96.5	94.1	92.8	27.2								96.5	.5 24.	.4 96.	.1 90.	.7 92.	е;		73.	.0 80.3			70.2	62.5	41.8		
Anantapur	88.6		80.3	9.99	100.0	94.3	97.5	13.2								94.7	.7 36.	88.	.3 89.	1 87	5.		81.	75.7			84.1				
Chittoor	85.5		80.3	65.3	98.7	95.4	97.8	17.9								76	.1 35.	.5 97	93.8	8 95.	.2		.99	6 76.9	_		84.4				
East Godavari	81.2		76.3	51.0	91.4	94.1	87.0	24.8								96.6	.6 18.	.1 89.	16 6.	.9 93.	.5		.65	0 81.4			63.7	72.9	23.0		
Guntur	85.8		89.4	62.5	0.96	6.96	90.3	29.8								98.6	.6 22.	7 95	.5 94.0	.0 97	.2		76.	2 80.2							
Krishna	87.5		81.5	73.3	96.4	8.76	8.36	24.4								98.6	.9 13.	9 58.	0 88	.3 90.	.3		90.	0.18 0.			45.8				
Kurnool	70.4		78.6	74.3	92.6	8.68	91.3	18.6								88.5	.5 20.	05 9	.6 87.8	.8 87	:3		. 63	.0 79.1			73.1				
Prakasam	85.5		84.7	73.4	97.8	93.8	92.2	23.1								97.4	.4 7.2	57	1.06 6.	1.1 90.3	6		51.	9 79.9	_		64.9				
Sri Potti Sriramulu Nellore	85.6		89.0	73.0	92.8	92.5	94.2	40.5								97.(.0 16.6	.6 100.0	0.0	.5 94.3	.3		65.	3 77.0			72.3				
Srikakulam	76.5		79.7	78.4	100.0	98.8	94.4	39.8								97.5	.9 27.	.1 96.	.4 90.8	97	.7		82.	9.69 8.	10		79.7				
Visakhapatnam	82.2		79.4	58.6	97.0	95.5	88.0	36.8								95.3	.3 44.	4 94.	.4 84.8	8.90.9	6		76.	5 91.3			72.3				
Vizianagaram	85.0		76.1	71.4	98.8	94.5	91.3	15.1). 66	.0 33.	4 97	.6 83.	89.	.2		76.	85.9			83.5				
West Godavari	83.4		82.2	62.7	100.0	94.2	95.3	33.2								98.7	.7 16.	4 98	.5 94.8	.8 96.4	.4		80.	0 73.9			71.9				
Y.S.R.	80.2		844	000	222	010																									

Source: NFHS-5 factsheets (2019)

Source: NFHS-5 district factsheets and state reports (2019-20).

receipt of at least one ANC visit, weighing, birth preparedness and breastfeeding counselling, counselling on keeping baby warm, cord care counselling, food supplementation, health and nutrition education and Note 1: The following information is not available in the NFHS-5 factsheets and state reports (2019-20): (1) Information on preconception and pregnancy-related indicators including demand for FP satisfied, malaria prevention; (2) Lactation-related indicators including, food supplementation and health and nutrition education; and (3) early childhood-related indicators including pediatric IFA, deworming, food supplementation (6-35m), weighing and counselling on child growth. Information on use of bed nets during pregnancy not available in NFHS-3 data (2005-2006).

Note 2: Food supplementation during early childhood is for children aged 6-35 months; counselling on child growth during early childhood is conducted after taking weight measurement.

Table 4. Intervention coverage at district-level 2015-2016, 2019-2020

Category	Interventions	Worst performing districts (pp) ⁵	Best performing districts (pp) ⁵	Top coverage districts (%)
		Difference between (2019-2020) & (2015-2016)	Difference between (2019-2020) & (2015-2016)	2019-2020
	ANC first trimester	E.Godavari¹: -9.1 Krishna: -7.5	Prakasam: +11.1 Chittoor: +8.5	Guntur: 89.4 Nellore ¹ : 89
	≥4 ANC visits	E.Godavari¹: -26.0 Visakhapatnam: -23.1	Srikakulam: +5.9 Kurnool: +2.7	Y.S.R: 82.8 Srikakulam: 78.4
Pregnancy	Received MCP Card	Not applicable ²	W.Godavari¹:+12.2 Chittoor: +10.3	3 districts³: 100 Vizianagaram: 98.8
	Tetanus injection	Visakhapatnam: -7.4 E.Godavari¹:-7.1	W.Godavari¹: +13 Anantapur: +9.3	Chittoor: 97.8 Anantapur: 97.5
	Institutional birth°	E.Godavari ¹ :-0.2 Nellore ¹ :-0.1	Kurnool: +11.8 Visakhapatnam: +9.9	Y.S.R.: 99.4 Vizianagaram: 99
Delivery and	Skilled birth attendant°	E.Godavari ¹ : -3.2 Srikakulam: -1.4	Visakhapatnam: +11.6 Chittoor: +10.1	2 districts ⁴ : 100 W.Godavari ¹ : 98.5
post-natal	Postnatal care for mothers	Krishna: -4.0	Y.S.R: +23 Kurnool: +20.8	Nellore¹: 95.5 W.Godavari¹: 94.8
	Postnatal care for babies°	Not applicable ²	W.Godavari¹: +75.8 Srikakulam: +74.3	Srikakulam: 97.7 Guntur: 97.2
	Full immunization	Prakasam: -11.9 Kurnool: -2.7	Vizianagaram: +28.7 Srikakulam: +25.2	Krishna: 90 Y.S.R.: 83
	Vitamin A supplementation°	Srikakulam: -20.6 Guntur: -6.6	Visakhapatnam: +30.3 Krishna: +23.2	Visakhapatnam: 91.3 Y.S.R: 90.1
Early childhood	Care seeking for ARI°	Krishna: -32.9 Y.S.R.: -22.3	Anantapur: +12.5 W. Godavari: +11.5	Chittoor: 84.4 Anantapur: 84.1
	ORS treatment during diarrhea°	Data not available at dist	rict-level	
	Zinc treatment during diarrhea°	Data not available at dist	rict-level	

Key takeaways

Children: Stunting prevalence declined by 9 percentage points (pp) from 2006 to 2016 and remained stable from 2016 to 2020. Wasting increased by 4pp from 2006 to 2016 and remained stable from 2016 to 2020. Underweight prevalence remained stable from 2006 to 2016 before declining by 2pp from 2016 and 2020. Anemia prevalence declined by 12pp from 2006 to 2016 but increased by 4pp from 2016 to 2020. Overweight/obesity prevalence declined by 4pp from 2006 to 2016 but increased by 2pp from 2016 to 2020.

Women: Underweight prevalence declined by 15pp from 2006 to 2016 and continued to decline by 3pp from 2016 to 2020. Anemia prevalence among non-pregnant and pregnant women declined by 3pp and 5pp from 2006 to 2016, respectively, and remained stable from 2016 to 2020. Overweight/obesity prevalence increased by 17pp from 2006 to 2016 and continued to increase by 3pp from 2016 to 2020.

Men: Overweight/obesity increased by 19pp from 2006 to 2016 and declined by 2pp from 2016 to 2020. Attention is needed to improve (%s in 2020):

- Outcomes: Stunting (31%) and anemia in children (63%); anemia in non-pregnant (59%) and pregnant (54%) women
- Immediate determinants: Timely introduction of complementary foods (51%); adequate diet (9%)
- *Underlying determinants:* Women with ≥10 years education (40%)
- Coverage of interventions: Zinc during diarrhea (42%)

Source: NFHS-3 (2005-2006), NFHS-4 (2015-2016), and NFHS-5 state and district factsheets (2019-2020). pp: percentage points. Note: Interventions' coverage are based on the last child data. ⁰Indicator definition differs slightly between NFHS-4 and NFHS-5. ¹District codes: E. Godavari: East Godavari; W. Godavari: West Godavari; Nellore: Sri Potti Sriramulu Nellore. ²Prevalence did not decrease in any of the districts. ³Anantapur, Srikakulam, West Godavari. ⁴Nellore, Y.S.R. ⁵ The difference is calculated only between districts that are comparable between 2015-2016 and 2018-2019. All districts are comparable across both periods.

Indicator definition

Nutrition outcomes	Definition
Low birth weight	Percentage of live births in the five years preceding the survey with a reported birth weight less than 2.5 kg, based on either a written record or the mother's recall
Stunting among children	Percentage of children aged 0-59 months who are stunted i.e., height-for-age z score < -2SD
Wasting among children	Percentage of children aged 0-59 months who are wasted i.e., weight-for-height z score < -2SD
Severe wasting among children	Percentage of children aged 0-59 months who are wasted i.e., weight-for-height z score < -3SD
Underweight children	Percentage of children aged 0-59 months who are underweight i.e., weight-for-age z score < -2SD
Anemia among children	Percentage of children aged 6-59 months who are anemic i.e., (Hb <11.0 g/dl)
Underweight women	Percentage of women aged 15-49 whose Body Mass Index (BMI) is below normal (BMI <18.5 kg/m2)
Anemia among non-pregnant women	Percentage of non-pregnant women aged 15-49 who are anemic (<12.0 g/dl)
Anemia among pregnant women Overweight/obesity – children	Percentage of pregnant women aged 15-49 who are anemic (<11.0 g/dl) Percentage of children aged 0-59 months who are overweight i.e., weight-for-height z score > 2SD
Overweight/obesity – women	Percentage of men aged 15-54 who are overweight or obese (BMI ≥25.0 kg/m2)
Overweight/obesity – men	Percentage of men aged 15-54 who are overweight or obese (BMI ≥25.0 kg/m2)
High blood pressure among women^	Percentage of women aged 15-49 with elevated blood pressure (Systolic >140 mm Hg or diastolic >90 mm Hg)
High blood pressure among men^	Percentage of men aged 15-54 with elevated blood pressure (Systolic >140 mm Hg or diastolic >90 mm Hg)
High sugar level among women^	Percentage of women aged 15-49 with elevated blood pressure (Systolic >140 mm Hg or diastolic >90 mm Hg)
High sugar level among men^	Percentage of men aged 15-54 with high blood sugar levels (141-160 mg/dl)
Immediate determinants	
Early initiation of breastfeeding	Percentage of children under aged 3 years breastfed within one hour of birth for the last child born in the 3 years before the survey
Exclusive breastfeeding	Percentage of youngest children under age 6 months living with mother who were exclusively breastfed
Timely introduction of complementary foods ⁰	¹ Percentage of youngest children aged 6-8 months living with mother who received solid or semi-solid food during the previous day; ² Percentage of youngest children aged 6-8 months living with mother who received solid or semi-solid food and breastmilk
Continued breastfeeding at 2 years\$	Percentage of youngest children 12-23 months of age who were fed breast milk during the previous day
Adequate diet	Percentage of youngest children 6–23 months of age who consumed a minimum acceptable diet during the previous day
Eggs and/or flesh foods	Percentage of youngest children 6–23 months of age who consumed egg and/or flesh food during the previous day
consumption\$	
Sweet beverage ^{\$} Bottle feeding for infants ^{\$}	Percentage of youngest children 6–23 months of age who consumed a sweet beverage during the previous day Percentage of youngest children 0–23 months of age who were fed from a bottle with a nipple during the previous day
Women with body mass index	¹ Percentage of women aged 15-49 with a youngest child < 5 years who have BMI below normal (BMI <18.5 kg/m²);
<18.5 kg/m ²⁰	² Percentage of women aged 15-49 whose BMI is below normal (BMI <18.5 kg/m²)
Consumed IFA 100+ days	Percentage of mothers aged 15-49 who consumed iron folic acid for 100 days or more during the last pregnancy in last five years preceding the survey
Diarrhea in the last two weeks ⁰	¹ Percentage of youngest children under age five who had diarrhea in the two weeks preceding the survey; ² Percentage of children under age 5 who had diarrhea in the 2 weeks preceding the survey
ARI in the last two weeks ⁰	¹ Percentage of youngest children under age five who had symptoms of acute respiratory infection (ARI) in the two weeks preceding the survey; ² Percentage of children under age five who had symptoms of acute respiratory infection (ARI) in the two weeks preceding the survey
Underlying determinants	
Women who are literate ⁰	¹ Percentage of women aged 15-49 with a birth in five years preceding the survey who are literate i.e., those who completed standard 6 or higher and can read a whole sentence; ² Percentage of women aged 15-49 who are literate i.e., those who completed standard 9 or higher and can read a whole sentence or part of a sentence.
Women with ≥10 years education ⁰	¹ Percentage of women aged 15-49 with a birth in five years preceding the survey with 10 or more years of schooling; ² Percentage of women aged 15-49 with 10 or more years of schooling
Girls 20-24 years married before age of 18 years ⁰	¹ Percentage of women aged 20-24 years with a birth in five years preceding the survey who were married before age 18 years; ² Percentage of women aged 20-24 years who were married before age 18 years
Women 15-19 years with child or pregnant	Percentage of currently married women aged 15-49 who had their first birth before age 20 years and in the five years preceding the survey
HHs with improved drinking water source ⁰	¹ Percentage of youngest children under age 5 living in household that use an improved source of drinking water; ² Population living in households that use an improved sanitation facility
HHs with improved sanitation facility ⁰	¹ Percentage of youngest children under age 5 living in household that uses improved toilet facility; ² Population living in households that use an improved sanitation facility
HHs with hand washing facility ^{^\$}	Percentage of youngest children under age 5 living in household that had soap and water for washing hands
Open defecation®	Percentage of youngest children under age 5 living in household that has no toilet facility/defecates in open
Safe disposal of feces\$ HHs with BPL card@	Percentage of youngest children living with mother whose stools were disposed of safely Percentage of youngest children under age 5 living in households with BPL card
THIS WILL DE L CAIUS	¹ Percentage of youngest children under age 5 living in household that has electricity; ² Population living in households
HHs with electricity ⁰	with electricity

[^] Indicator not available in NFHS-3. \$ Indicator not available in NFHS-5 factsheets/state reports ⁰Indicator comparable between NFHS-3 and NFHS-4 but differs slightly from NFHS-5. [@] Indicator not available in NFHS-5 factsheets but available in NFHS-5 states reports.
¹ Definition per NFHS-3/NFHS-4. ² Definition as per NFHS-5 factsheet.

Indicator definition

Interventions Definition Demand for FP satisfied@ Percentage of currently married women aged 15-49 with demand for family planning satisfied by modern methods lodized salt⁰ ¹Percentage of women aged 15-49 living in HHs that use iodized salt; ²Percentage of households using iodized salt Any ANC visits\$ Percentage of women aged 15-49 with a live birth in the five years who received at least one ANC for the last birth ANC first trimester Percentage of women (15-49 years of age) attended by any provider during the first trimester of pregnancy that led to the birth of the youngest child in the last 2 years ≥ 4ANC Percentage of mothers aged 15-49 who had at least 4 antenatal care visits for last birth in the 5 years before the survey Received MCP card Percentage of mothers who registered last pregnancy in the 5 years preceding the survey for which she received a Mother and Child Protection (MCP) card Received IFA tab/syrup@ Percentage of women who received IFA (given or purchased) tablets during the pregnancy for their most recent live birth in the 5 years preceding the survey Tetanus injection Percentage of women whose last birth was protected against neonatal tetanus (for last birth in the five years preceding the survey) Deworming- pregnancy@ Percentage of women who took an intestinal parasite drug during the pregnancy for their most recent live birth in the 5 years preceding the survey Weighing- pregnancy@ Percentage of women aged 15-49 with a live birth in the five years preceding the survey who were weighed during ANC for the last birth Birth preparedness counselling\$ Percentage of women who had at least one contact with a health worker in the three months preceding the survey and were counselled on birth preparedness; calculated among women aged 15-49 who gave birth in the five years preceding the survey Breastfeeding counselling@ Percentage of women who met with a community health worker in the last three months of pregnancy and received advice on breastfeeding (for the last pregnancy in the five years preceding the survey) Counselling on keeping baby Percentage of women who met with a community health worker in the last three months of pregnancy and received advice on keeping the baby warm for their most recent live birth in the five years preceding the survey Cord care counselling\@ Percentage of women who met with a community health worker in the last three months of pregnancy and received advice on cord care for their most recent live birth in the five years preceding the survey Percentage of youngest children under age 5 whose mother received supplementary food from AWC during Food supplementation pregnancy@ pregnancy; ³Among children under 6 years, percentage whose mother received specific benefits from AWC during pregnancy: supplementary food Health & nutrition education -Percentage of mothers who received health and nutrition education from an Anganwadi Centre (AWC) during last pregnancy in the five years preceding the survey; 3Among children under 6 years, percentage whose mother received pregnancy@ specific benefits from AWC during pregnancy; health and nutrition education Malaria prevention- use of bed Percentage of women who used mosquito net during the pregnancy for their most recent live birth in the 5 years nets^\$ preceding the survey Institutional birth⁰ ¹Percentage of women aged 15-49 who gave birth in health/institutional facility for their most recent live birth in the 5 years preceding the survey; ²Percentage of live births to women aged 15-49 in the five years preceding the survey that took place in a health/institutional facility Financial assistance (JSY)@ Percentage of women who received financial assistance under JSY for their most recent live birth that took place in institutional facility in the 5 years preceding the survey ¹Percentage of women whose last delivery was attended by a skilled health personnel for their most recent live birth Skilled birth attendant⁰ in the 5 years preceding the survey; ²Percentage of births attended by skilled health personnel for births in the 5 years before the survey Percentage of mothers who received postnatal care from a doctor/nurse/LHV/ANM/midwife/other health personnel Postnatal care for mothers within 2 days of delivery for their most recent live birth in the five years preceding the survey Percentage of children who received postnatal care from a doctor /nurse /LHV /ANM /midwife /other health personnel Postnatal care for babies within 2 days of delivery for last birth in the 5 years before the survey Food supplementation - postnatal@ Percentage of youngest children under age 5 whose mother received supplementary food from AWC while breastfeeding; ³Among children under 6 years, percentage whose mother received specific benefits from AWC while breastfeeding: supplementary food Health & nutrition education -Percentage of youngest children under age 5 whose mother received health check-ups from AWC while postnatal@ breastfeeding; 3Among children under 6 years, percentage whose mother received specific benefits from AWC while breastfeeding: health and nutrition education Full immunization⁰ Percentage of youngest living children aged 12-23 months fully vaccinated based on information from either vaccination card or mother's recall; ²Percentage of children aged 12-23 months fully vaccinated based on information from either vaccination card or mother's recall Vitamin A - early childhood⁰ Percentage of youngest children aged 6-59 months who received Vitamin A supplementation in the last 6 months preceding the survey; 2 Percentage of children aged 9-35 months who received a vitamin A dose in the last 6 months Pediatric IFA⁰@ Percentage of youngest children aged 6-59 months who received iron supplements in the past 7 days preceding the survey Deworming - early childhood^{o@} Percentage of youngest children aged 6-59 months who received deworming tablets in the last 6 months preceding the survey Care seeking for ARI⁰ Percentage of youngest children under age 5 years with fever or symptoms of ARI in the 2 weeks preceding the survey taken to a health facility or health provider; ²Percentage of children under age 5 years with fever or symptoms of ARI in the 2 weeks preceding the survey taken to a health facility or health provider ORS during diarrhea0 ¹Percentage of youngest children under age 5 years with diarrhea in the 2 weeks preceding the survey who received oral rehydration salts (ORS); 2Percentage of children under age 5 years with diarrhea in the 2 weeks preceding the survey who ORS Zinc during diarrhea⁰ Percentage of youngest children under age 5 years with diarrhea in the 2 weeks preceding the survey who received zinc; ²Percentage of children under age 5 years with diarrhea in the 2 weeks preceding the survey who received zinc Food supplementation (children 6-Percentage of youngest children aged 6-35 months who received food supplements from AWC in the 12 months 35 months)\$ preceding the survey Weighing - early childhood@ Percentage of youngest children under age 5 who were weighed at AWC in the 12 months preceding the survey Counselling on child growth@ Percentage of youngest children under age 5 whose mother received counselling from an AWC after child was weighed in the 12 months preceding the survey

[^]Indicator not available in NFHS-3. Indicator not available in NFHS-5 factsheets/state reports. Indicator not available in NFHS-5 factsheets but available in NFHS-5 states reports. Indicator comparable between NFHS-3 and NFHS-4 but differs slightly from NFHS-5.
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Disclaimer: The maps used in this Data Note are based on the districts in NFHS-5 factsheets/reports . The boundaries shown do not imply any official endorsement or acceptance by IFPRI.

ABOUT POSHAN

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ABOUT DATA NOTES

POSHAN Data Notes focus on data visualization to highlight geographic and/or thematic issues related to nutrition in India. They draw on multiple sources of publically available data.

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