

### State Nutrition Profile: Himachal 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 Abhiyaan 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.<sup>1</sup> 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.

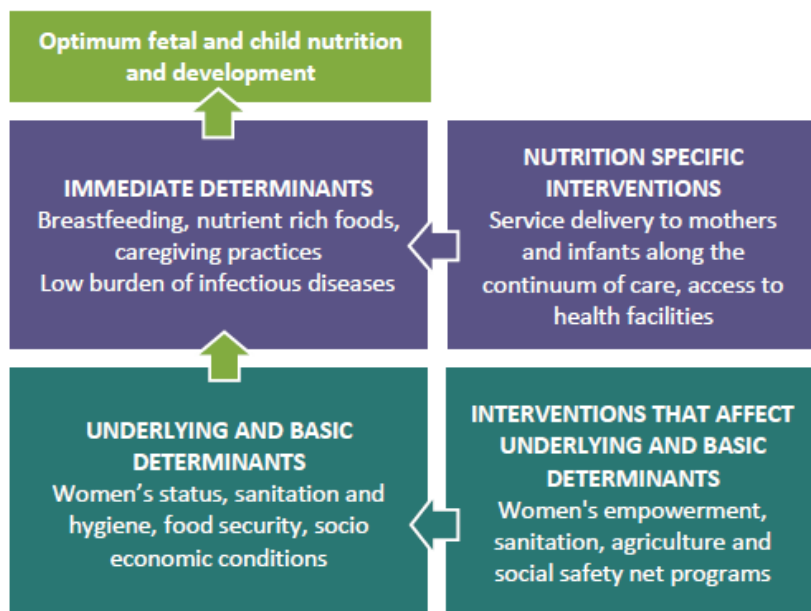
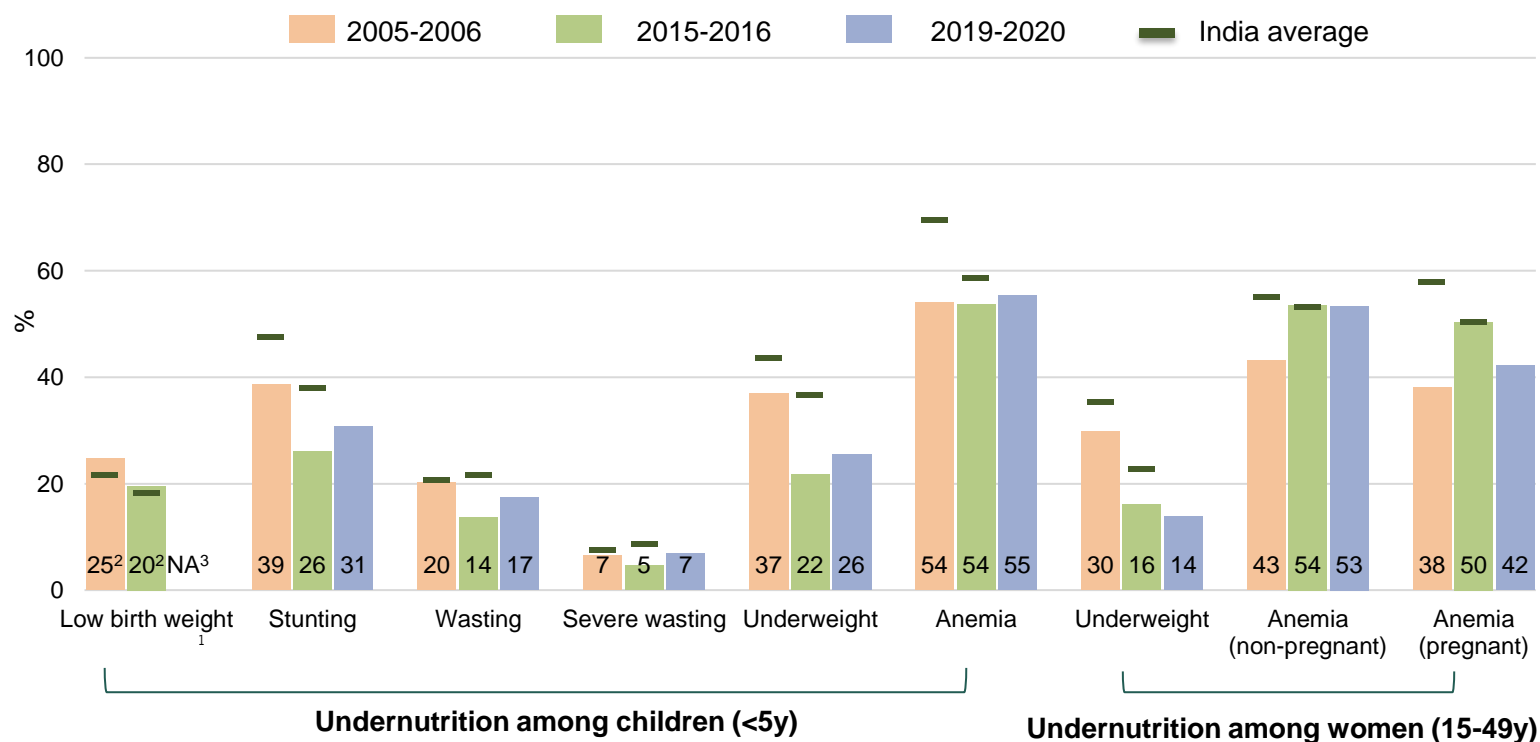


Figure 1. Trends in undernutrition outcomes 2005-2006, 2015-2016, 2019-2020



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.

<sup>1</sup>WHO. Nutrition Landscape Information System (NLIS). Help Topic: Malnutrition in children.

(<https://apps.who.int/nutrition/landscape/help.aspx?menu=0&helpid=391&lang=EN>).

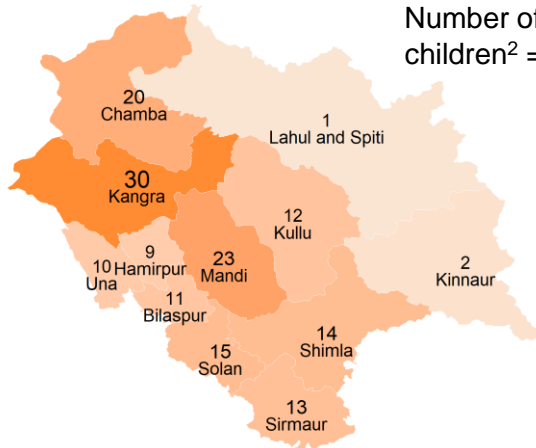
<sup>2</sup>In NFHS-3, 50.9% of data was missing, while 19.3% of data was missing in NFHS-4.

<sup>3</sup>NA 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

## Map 1. Stunting

Number of stunted children<sup>2</sup> = 158,706



Note: Number in '000s in the above figure

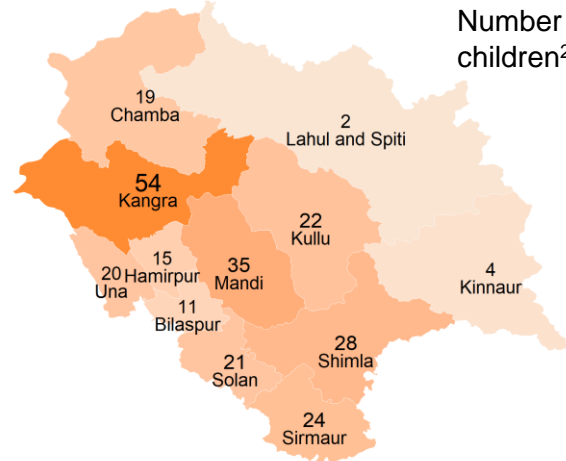
### Highest burden districts

1	Kangra	30,422
2	Mandi	23,096
3	Chamba	19,619
4	Solan	14,630
5	Shimla	14,205

No. of districts with public health concern<sup>1</sup>: 12 of 12

## Map 2. Anemia

Number of anemic children<sup>2</sup> = 254,418



Note: Number in '000s in the above figure

### Highest burden districts

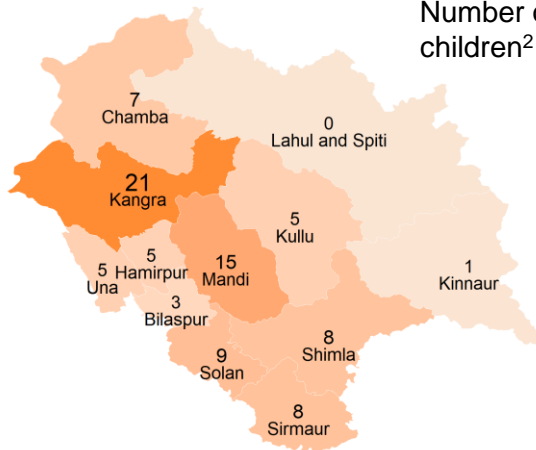
1	Kangra	53,974
2	Mandi	34,601
3	Shimla	27,827
4	Sirmaur	24,124
5	Kullu	22,337

No. of districts with public health concern<sup>1</sup>: 12 of 12

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

## Map 3. Wasting

Number of wasted children<sup>2</sup> = 88,357



Note: Number in '000s in the above figure

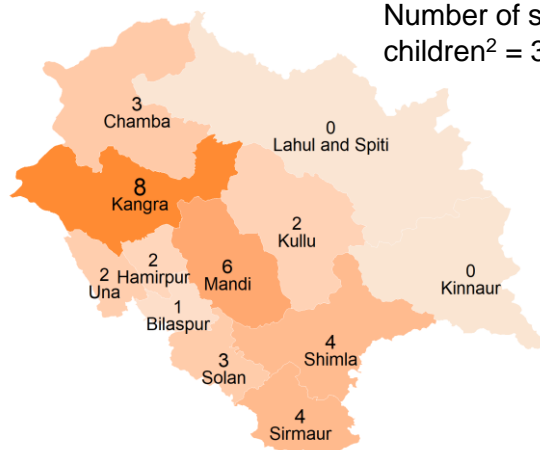
### Highest burden districts

1	Kangra	21,078
2	Mandi	14,684
3	Solan	9,466
4	Sirmaur	8,493
5	Shimla	8,124

No. of districts with public health concern<sup>1</sup>: 12 of 12

## Map 4. Severe Wasting

Number of severely wasted children<sup>2</sup> = 34,724



Note: Number in '000s in the above figure

### Highest burden districts

1	Kangra	8,366
2	Mandi	5,903
3	Sirmaur	4,178
4	Shimla	4,088
5	Chamba	2,671

No. of districts with public health concern<sup>1</sup>: 12 of 12

Source: IFPRI estimates - The headcount was calculated as the product of the undernutrition prevalence and the total eligible projected population for each district in 2019. Prevalence estimates were obtained from NFHS-5 (2019-2020; all child data) and projected population for 2019 was estimated using Census 2011.

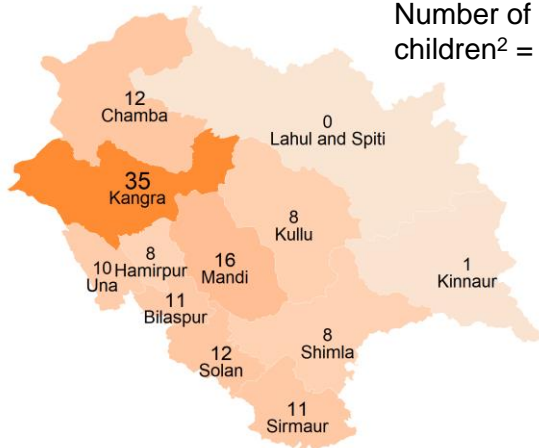
<sup>1</sup>Public health concern is defined as  $\geq 20\%$  for stunting,  $\geq 40\%$  for anemia,  $\geq 10\%$  for wasting, and  $\geq 2\%$  for severe wasting (WHO 2011).

<sup>2</sup>The total number of children <5 years is 511,000.

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

## Map 5. Underweight children

Number of underweight children<sup>2</sup> = 131,651



Note: Number in '000s in the above figure

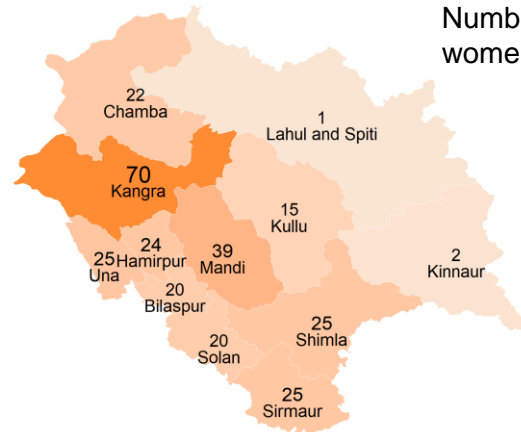
### Highest burden districts

1	Kangra	34,768
2	Mandi	15,717
3	Solan	12,093
4	Chamba	11,974
5	Sirmaur	11,109

No. of districts with public health concern<sup>1</sup>: 9 of 12

## Map 6. Underweight women

Number of underweight women<sup>2</sup> = 287,680



Note: Number in '000s in the above figure

### Highest burden districts

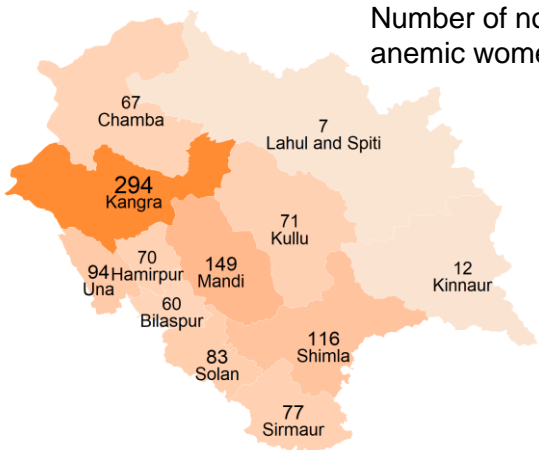
1	Kangra	70,071
2	Mandi	38,820
3	Una	25,229
4	Shimla	24,632
5	Sirmaur	24,585

No. of districts with public health concern<sup>1</sup>: 9 of 12

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

## Map 7. Anemia among non-pregnant women

Number of non-pregnant anemic women<sup>2</sup> = 1,099,138



Note: Number in '000s in the above figure

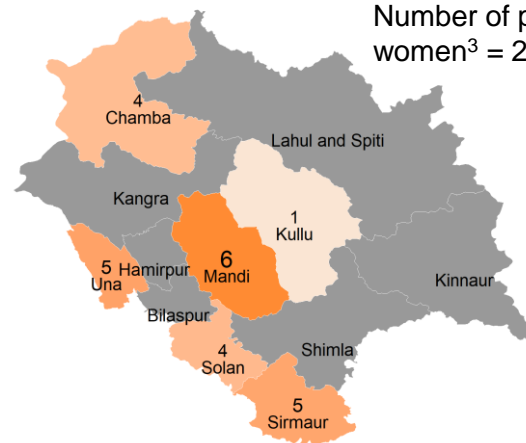
### Highest burden districts

1	Kangra	293,651
2	Mandi	148,607
3	Shimla	116,192
4	Una	94,106
5	Solan	82,819

No. of districts with public health concern<sup>1</sup>: 12 of 12

## Map 8. Anemia among pregnant women<sup>3</sup>

Number of pregnant anemic women<sup>3</sup> = 25,398



Note: Number in '000s in the above figure

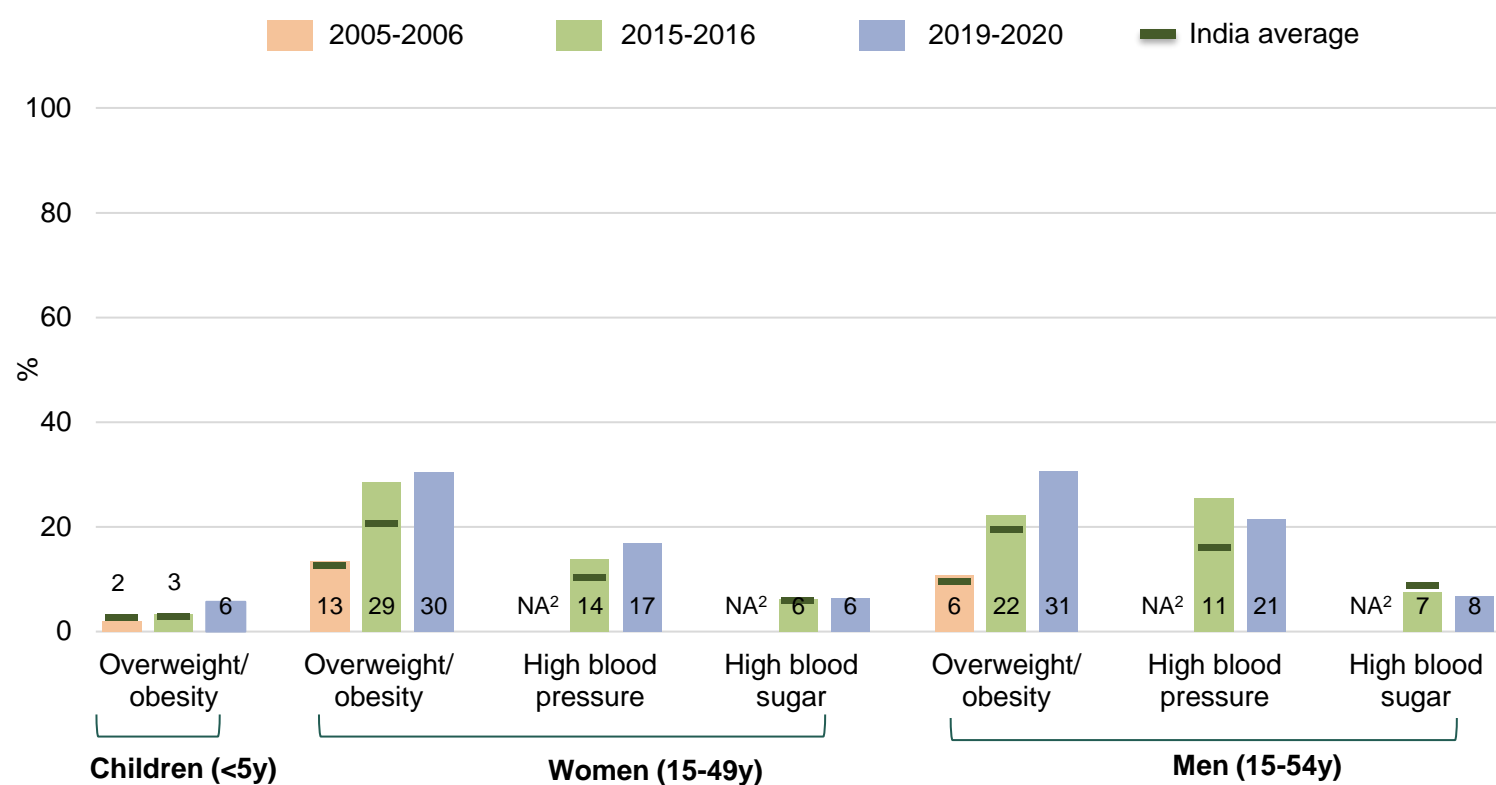
### Highest burden districts

1	Mandi	6,298
2	Una	5,131
3	Sirmaur	4,910
4	Solan	3,880
5	Chamba	3,684

No. of districts with public health concern<sup>1</sup>: 4 of 12<sup>2</sup>

Source: IFPRI estimates - The headcount was calculated as the product of the undernutrition prevalence and the total eligible projected population for each district in 2019. Prevalence estimates were obtained from NFHS-5 (2019-2020; all child/woman data) and projected population for 2019 was estimated using Census 2011. Note: Gray area in Map 8 indicates districts for which data are not available. <sup>1</sup>Public health concern is defined as  $\geq 20\%$  for underweight (children),  $\geq 10\%$  for underweight (women),  $\geq 40\%$  for anemia among non-pregnant women, and  $\geq 40\%$  for anemia among pregnant women (WHO 2011). <sup>2</sup>The total number of children <5 years is 511,000, pregnant women 15-49 years is 110527, and non-pregnant women 15-49 years is 1951487. <sup>3</sup>Anemia among pregnant women is only available for the districts Chamba, Kullu, Mandi, Sirmaur, Solan and Una.

**Figure 2. Trends in overweight/obesity & NCDs<sup>1</sup>  
2005-2006, 2015-2016, 2019-2020**



**Table 1. Overweight/obesity & NCDs<sup>1</sup> at district-level  
2015-2016, 2019-2020**

Category	Outcomes	Worst performing districts (pp) <sup>5</sup>	Best performing districts (pp) <sup>5</sup>	Highest burden districts (thousands) <sup>3</sup>	No of districts with public health concern <sup>4</sup> (total=12)
		<i>Difference between (2019-2020) &amp; (2015-2016)</i>	<i>Difference between (2019-2020) &amp; (2015-2016)</i>	2019-2020	2019-2020
Children <5 years	Overweight/obesity	Kullu: +7.2 Kinnaur: +7.2	Hamirpur: -3.8 Kangra: -0.9	Mandi: 5 Shimla: 4	0
	Overweight/obesity	Mandi: +7.4 Hamirpur: +6.2	Shimla: -4.8 Kinnaur: -1.4	Kangra: 142 Mandi: 95	12
Women (15-49 years)	High blood pressure	Chamba: +6.5 Kangra: +6.2	Kullu: -3.1	Kangra: 93 Mandi: 45	2
	High blood sugar	Mandi: +3.3 Bilaspur: +2.5	Una: -0.9 Solan: -0.8	Kangra: 34 Mandi: 20	0
Men (15-54 years)	Overweight/obesity	<i>Data not available at district level</i>			
	High blood pressure	Chamba: +2.8 Shimla: +2	Kullu: -16.1 Sirmaur: -9.9	Kangra: 102 Mandi: 63	8
	High blood sugar	Bilaspur: +4.6 Mandi: +4.0	Solan: -2.8 Kullu: -2.2	Kangra: 27 Mandi: 25	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.

<sup>1</sup>NCDs: non-communicable diseases. <sup>2</sup>NA refers to the unavailability of data for a particular indicator in the specified NFHS round.

<sup>3</sup>Burden: The headcount was calculated as the product of the overweight/obesity and NCDs 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.

<sup>4</sup>Public health concern is defined as prevalence  $\geq 15\%$  for overweight/obesity (children),  $\geq 20\%$  for overweight/obesity (women and men),  $\geq 20\%$  high blood pressure (women and men), and  $\geq 20\%$  high sugar (women and men) (WHO 2011). <sup>5</sup>The difference is calculated only between districts that are comparable between 2015-2016 and 2019-2020. All districts in Himachal Pradesh are comparable across both periods.

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

Category	Immediate determinants	2005-2006	2015-2016	2019-2020
IYCF practices	Early initiation of breastfeeding	45	44	45
	Exclusive breastfeeding	27	68	70
	Timely introduction of complementary foods <sup>o</sup>	17	59	68
	Continued breastfeeding at 2 years	100	67	
	Adequate diet <sup>o</sup>	25	15	19
	Eggs and/or flesh foods consumption, 6-23m	10	5	
	Sweet beverage consumption, 6-23m	37	28	
	Bottle feeding of infants, 6-23m	23	32	
Maternal determinants	Women with body mass index <18.5 kg/m <sup>2o</sup>	34	15	14
	Consumed IFA 100+ days	27	50	67
Diseases	Diarrhea in the last two weeks <sup>o</sup>	10	8	5
	ARI in the last two weeks <sup>o</sup>	1	2	2

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

Category	Immediate determinants	Worst performing districts (pp) <sup>3</sup>	Best performing districts (pp) <sup>3</sup>	Top coverage districts (%) <sup>1</sup>
		<i>Difference between (2019-2020) &amp; (2015-2016)</i>	<i>Difference between (2019-2020) &amp; (2015-2016)</i>	<i>2019-2020</i>
IYCF practices	Early initiation of breastfeeding	Kangra: -7.4 Una: -5.9	Lahul And Spiti: +11.7 Solun: +11.4	Sirmaur: 67.9 Kinnaur: 59.5
	Exclusive breastfeeding	Chamba: -17 Kullu: -12.8	Sirmaur: +15.5	Sirmaur: 75.9 Kullu: 69.9
	Timely introduction of complementary foods <sup>o</sup>	<i>Data not available at district-level</i>		
	Adequate diet <sup>o</sup>	Una: -8.4 Kinnaur: -6.1	Kullu: +26.6 Lahul And Spiti: +9.8	Hamirpur: 31.8 Kullu: 28.7
Maternal determinants	Women with BMI<18.5 kg/m <sup>2o</sup>	Una: +8.8 Hamirpur: +4.6	Chamba: -8.6 Shimla: -4.9	Shimla: 9.9 Kinnaur: 9.9
	Consumed IFA 100+ days	Una: -7.9	Mandi: +33.9 Sirmaur: +28.9	Shimla: 77.2 Solun: 75
Diseases	Diarrhea in the last two weeks <sup>o</sup>	Hamirpur: +4.9 Kullu: +4.8	Solan: -12.4 Bilaspur: -5.6	Shimla: 1.6 Mandi: 2.6
	ARI in the last two weeks <sup>o</sup>	Solan: +3 Shimla: +2.3	Bilaspur: -4.6 2 Districts <sup>2</sup> : -2.8	Bilaspur: 0 Mandi: 0.4

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

<sup>o</sup>Indicator definition differs slightly between NFHS-4 and NFHS-5. <sup>1</sup>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/m<sup>2</sup>, 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. <sup>2</sup>Districts: Mandi and Kinnaur. <sup>3</sup>The difference is calculated only between districts that are comparable between 2015-2016 and 2019-2020. All districts in Himachal Pradesh are comparable across both periods.

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

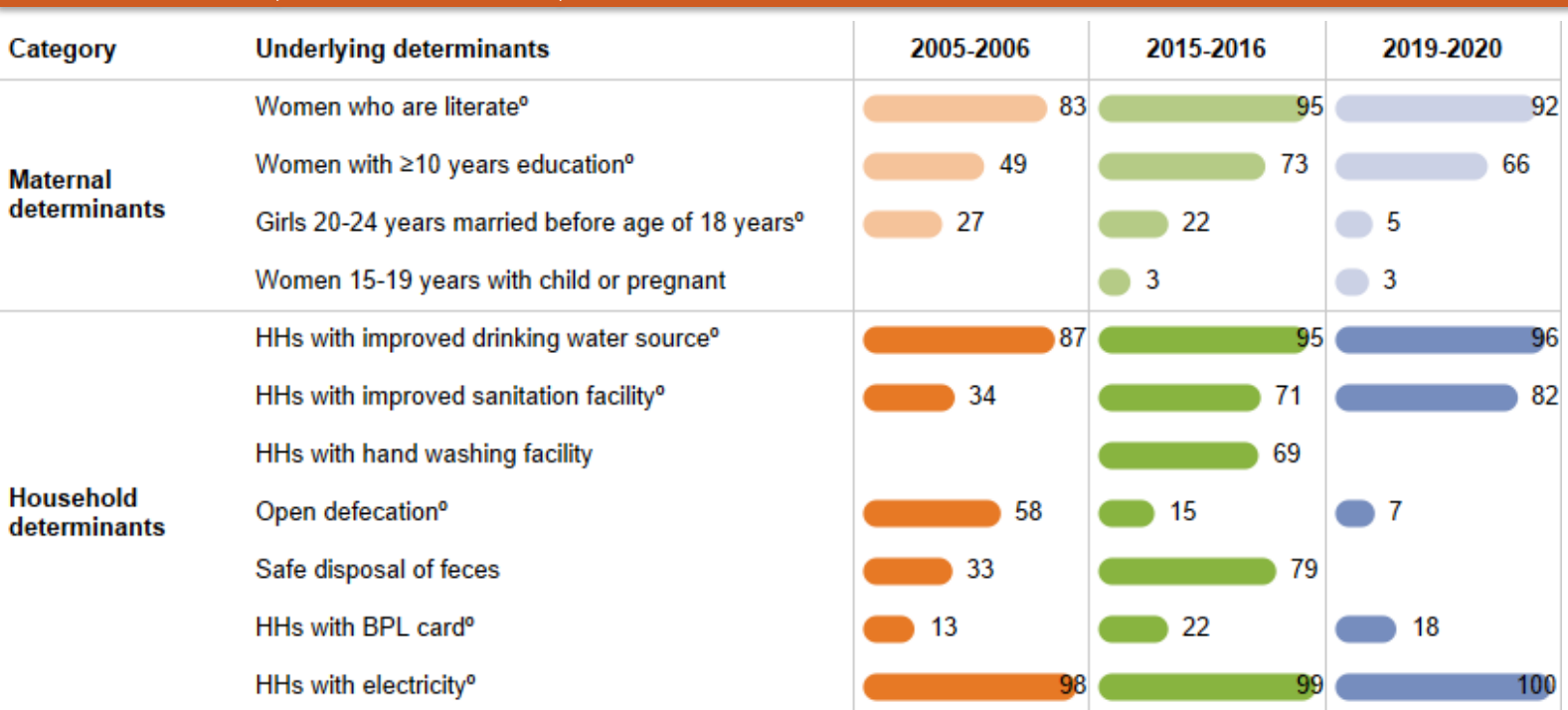
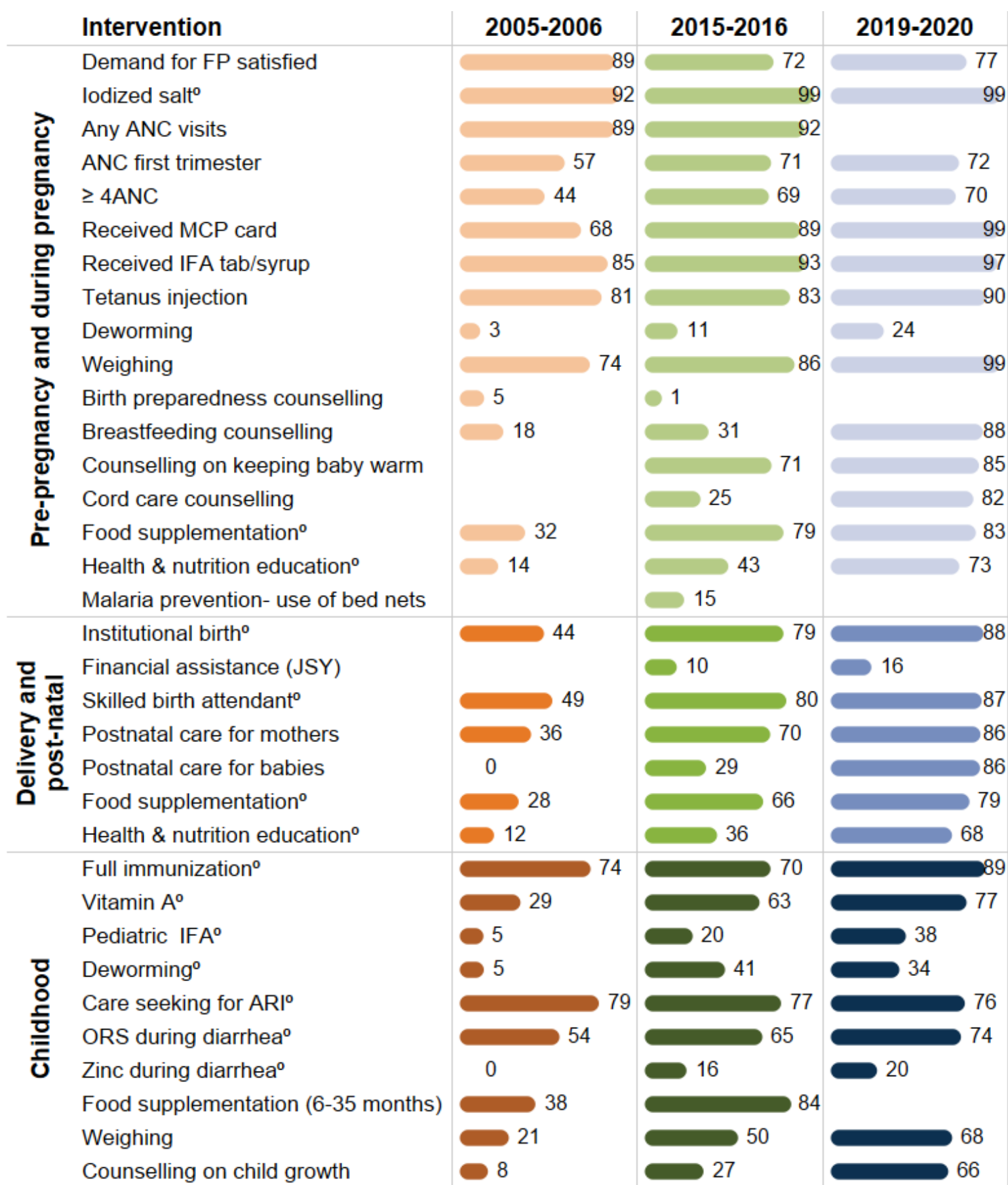


Table 3. Underlying determinants at district-level  
2015-2016, 2019-2020

Category	Underlying determinants	Worst performing districts (pp) <sup>2</sup>	Best performing districts (pp) <sup>2</sup>	Top coverage districts (%) <sup>1</sup>
		<i>Difference between (2019-2020) &amp; (2015-2016)</i>	<i>Difference between (2019-2020) &amp; (2015-2016)</i>	<i>2019-2020</i>
Maternal determinants	Women who are literate <sup>o</sup>	Kinnaur: -9.4 Lahul and Spiti: -8.8	Shimla: 2.1	Hamirpur: 94.8 Kangra: 94.4
	Women with ≥10 years education <sup>o</sup>	Lahul and Spiti: -17.3 Kangra: -16.1	Sirmaur: +0.4	Hamirpur: 76.1 Mandi: 71.8
	Girls 20-24 years married before age of 18 years <sup>o</sup>	Not applicable <sup>3</sup>	Lahul and Spiti: -44 Shimla: -30.8	Kangra: 1.5 Una: 1.6
	Women 15-19 years with child or pregnant	Shimla: +4.2 Solan: +3.1	Lahul and Spiti: -4.4 Kullu: -3.3	Kangra: 0.8 Chamba: 2.0
Household determinants	HHs with improved drinking water source <sup>o</sup>	Chamba: -7.6 Kullu: -1.8	Bilaspur: +12.4 Solan: +5.7	Una: 98.8 Kangra: 98.6
	HHs with improved sanitation facility <sup>o</sup>	Not applicable <sup>3</sup>	Mandi: +19.4 Shimla: +17.4	Shimla: 87.3 Mandi: 87
	HHs with electricity <sup>o</sup>	Una: -0.6 Kinnaur: -0.4	Lahul and Spiti: +1.6 Chamba: +1.1	Shimla: 100.0 Bilaspur: 100.0

pp: percentage points. 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. <sup>o</sup>Indicator definition differs slightly between NFHS-4 and NFHS-5. <sup>1</sup>For 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. <sup>2</sup>The difference is calculated only between districts that are comparable between 2015-2016 and 2019-2020. All districts in Himachal Pradesh are comparable across both periods. <sup>3</sup>Prevalence did not increase or decrease in any of the districts.

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).

<sup>o</sup>Indicator 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		Pregnancy												Delivery & postnatal										Early childhood											
	Demand for FP satisfied	lodized safe	Any ANC visits	ANC first trimester	≥4 ANC	Received MCP card	Received IFA tab/syrup	Tetanus injection	Deworming	Weighting	Birth preparedness counselling	Breastfeeding counselling	Counseling on keeping baby warm	Cord care counselling	Food supplementation	Health & nutrition education	Malaria prevention-use of bed nets	Institutional birth	Financial assistance (USY)	Skilled birth attendant	Postnatal care for mothers	Postnatal care for babies	Food supplementation	Health & nutrition education	Full immunization	Vitamin A	Paediatric IFA	Deworming	Care seeking for ARI	ORS during diarrhea	Zinc during diarrhea	Food supplementation (6-35 months)	Weighting	Counseling on child growth		
HIMACHAL PRADESH	99.1	99.1	72.4	70.3	98.7	97.4	90.0	23.8									88.2	15.8	87.1	86.3	86.0			89.3	77.3				76.2	73.7	19.5					
Biaspur		98.7	76.4	81.4	99.3	96.4	92.4	22.7									91.7	14.8	87.6	92.9	90.0			100.0	75.4											
Chamba		99.1	75.1	62.7	98.7	96.2	94.0	20.1									72.0	13.4	74.1	72.9	70.8			100.0	77.8											
Hamirpur		99.2	67.5	59.4	97.8	97.9	82.8	16.8									97.6	19.6	92.4	88.9	96.8			74.3	80.0											
Kangra		98.7	51.5	56.3	96.4	97.6	78.8	23.3									90.2	11.8	87.5	88.7	85.9			83.9	79.0			72.4								
Kinnaur		99.5	77.8	75.3	97.5	96.4	91.3	16.8									82.7	28.8	84.1	83.4	85.6			91.7	82.4											
Kullu		99.8	62.1	60.0	99.3	96.2	91.8	16.6									87.0	16.0	88.1	84.6	86.6			80.2	85.2											
Lahul and Spiti		99.2	62.4	65.6	99.4	91.7	95.4	19.2									86.4	23.6	86.7	81.1	81.0			77.9	74.5											
Mandi		98.9	81.2	70.3	100.0	99.4	95.5	31.4									86.6	16.1	86.4	84.2	83.2			94.1	72.8											
Shimla		99.9	83.1	85.3	100.0	96.5	95.5	20.8									92.2	22.9	91.3	91.6	91.2			96.5	73.9											
Sirmaur		98.5	91.0	85.2	100.0	97.1	98.8	23.0									87.4	17.1	88.2	88.7	85.5			93.9	75.1			78.7								
Solan		99.1	87.1	88.2	98.6	98.6	95.2	30.6									90.2	16.2	86.8	85.9	88.7			92.6	78.5			79.1								
Una		98.6	70.7	71.7	99.4	95.1	86.7	22.2									89.7	13.1	89.9	84.9	87.1			75.3	79.1			85.2								

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

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, 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 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) <sup>2</sup>	Best performing districts (pp) <sup>2</sup>	Top coverage districts (%)
		<i>Difference between (2019-2020) &amp; (2015-2016)</i>	<i>Difference between (2019-2020) &amp; (2015-2016)</i>	<i>2019-2020</i>
Pregnancy	ANC first trimester	Not applicable <sup>3</sup>	Not applicable <sup>3</sup>	Kullu: 28.7 Mandi: 24.4
	≥4 ANC visits	Kangra: -25.6 Hamirpur: -14.1	Bilaspur: +21.8 Sirmaur: +21.1	Solan: 88.2 Shimla: 85.3
	Received MCP Card	Not applicable <sup>3</sup>	Bilaspur: +14.3 Lahul and Spiti: +13.2	Mandi: 100.0 Shimla: 100.0
	Tetanus injection	Kangra: -10.4	Lahul and Spiti: +17.7 Chamba: +14.7	Sirmaur: 98.8 Shimla: 95.5
Delivery and post-natal	Institutional birth <sup>o</sup>	Not applicable <sup>3</sup>	Mandi: +17.7 Kullu: +14.6	Hamirpur: 97.6 Shimla: 92.2
	Skilled birth attendant <sup>o</sup>	Kangra: -2.7	Mandi: +14.8 Chamba: +13.8	Hamirpur: 92.4 Shimla: 91.3
	Postnatal care for mothers	Not applicable <sup>3</sup>	Mandi: +28.1 Lahul and Spiti: +18.6	Bilaspur: 92.9 Shimla: 91.6
	Postnatal care for babies <sup>o</sup>	Not applicable <sup>3</sup>	Mandi: +64 Hamirpur: +63.9	Hamirpur: 96.8 Shimla: 91.2
Early childhood	Full immunization	Not applicable <sup>3</sup>	Bilaspur: +39.1 Chamba: +36.4	Bilaspur: 100.0 Chamba: 100.0
	Vitamin A supplementation <sup>o</sup>	Hamirpur: -2.2 Bilaspur: -0.3	Kullu: +26.2 Kinnaur: +23.2	Kullu: 85.2 Kinnaur: 82.4
	Care seeking for ARI <sup>o</sup>	Kangra: -12.2 Sirmaur: -3.8	Una: +5.5	Una: 85.2 Solan: 79.1
	ORS treatment during diarrhea <sup>o</sup>	<i>Data not available at district-level</i>		
	Zinc treatment during diarrhea <sup>o</sup>	<i>Data not available at district-level</i>		

## Key takeaways

**Children:** Stunting and wasting prevalence declined by 13 percentage points (pp) and 6pp respectively between 2006 and 2016; but both stunting and wasting increased by 5pp and 3pp respectively, between 2016 and 2020.

Underweight declined by 15pp between 2006 and 2016 but increased by 4pp between 2016 and 2020. Anemia prevalence remained constant at 54 percent between 2006 to 2016 but increased by 1pp between 2016 and 2020.

**Women:** Underweight declined by 14pp between 2006 and 2016 and continued to decline by 2pp between 2016 and 2020. Anemia increased by 11pp and 12pp among non-pregnant and pregnant women respectively, between 2006 and 2016, but decreased by 1pp and 8pp, respectively between 2016 and 2020. Overweight/obesity increased by 16pp between 2006 to 2016 and continued to increase by 1pp between 2016 and 2020.

**Men:** Overweight/obesity increased by 16pp between 2006 and 2016 and further increased by 9pp between 2016 and 2020.

### Attention is needed to improve (%s in 2020):

- **Outcomes:** Anemia in children (55%); in non-pregnant women (53%) and pregnant women (42%)
- **Immediate determinants:** Early initiation of breastfeeding (45%); adequate diet (19%)
- **Underlying determinants:** Women with ≥ 10 years education (66%)
- **Coverage of interventions:** Zinc during diarrhea (20%)

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. <sup>o</sup>Indicator definition differs slightly between NFHS-4 and NFHS-5. <sup>2</sup>The difference is calculated only between districts that are comparable between 2015-2016 and 2019-2020. All districts in Himachal Pradesh are comparable across both periods.

<sup>3</sup>Prevalence did not increase or decrease in any of the districts.

# Indicator definition

<b>Nutrition outcomes</b>	<b>Definition</b>
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/m <sup>2</sup> )
Anemia among non-pregnant women	Percentage of non-pregnant women aged 15-49 who are anemic (<12.0 g/dl)
Anemia among pregnant women	Percentage of pregnant women aged 15-49 who are anemic (<11.0 g/dl)
Overweight/obesity - children	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/m <sup>2</sup> )
Overweight/obesity - men	Percentage of men aged 15-54 who are overweight or obese (BMI ≥25.0 kg/m <sup>2</sup> )
High blood pressure among women <sup>^</sup>	Percentage of women aged 15-49 with elevated blood pressure (Systolic >140 mm Hg or diastolic >90 mm Hg)
High blood pressure among men <sup>^</sup>	Percentage of men aged 15-54 with elevated blood pressure (Systolic >140 mm Hg or diastolic >90 mm Hg)
High sugar level among women <sup>^</sup>	Percentage of women aged 15-49 with elevated blood pressure (Systolic >140 mm Hg or diastolic >90 mm Hg)
High sugar level among men <sup>^</sup>	Percentage of men aged 15-54 with high blood sugar levels (141-160 mg/dl)
<b>Immediate determinants</b>	
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 <sup>0</sup>	<sup>1</sup> Percentage of youngest children aged 6-8 months living with mother who received solid or semi-solid food during the previous day; <sup>2</sup> 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 <sup>5</sup>	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 consumption <sup>§</sup>	Percentage of youngest children 6–23 months of age who consumed egg and/or flesh food during the previous day
Sweet beverage <sup>§</sup>	Percentage of youngest children 6–23 months of age who consumed a sweet beverage during the previous day
Bottle feeding for infants <sup>§</sup>	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 <18.5 kg/m <sup>2</sup> <sup>0</sup>	<sup>1</sup> Percentage of women aged 15-49 with a youngest child < 5 years who have BMI below normal (BMI <18.5 kg/m <sup>2</sup> ) ; <sup>2</sup> Percentage of women aged 15-49 whose BMI is below normal (BMI <18.5 kg/m <sup>2</sup> )
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 <sup>0</sup>	<sup>1</sup> Percentage of youngest children under age five who had diarrhea in the two weeks preceding the survey; <sup>2</sup> Percentage of children under age 5 who had diarrhea in the 2 weeks preceding the survey
ARI in the last two weeks <sup>0</sup>	<sup>1</sup> Percentage of youngest children under age five who had symptoms of acute respiratory infection (ARI) in the two weeks preceding the survey; <sup>2</sup> Percentage of children under age five who had symptoms of acute respiratory infection (ARI) in the two weeks preceding the survey
<b>Underlying determinants</b>	
Women who are literate <sup>0</sup>	<sup>1</sup> 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; <sup>2</sup> 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 <sup>0</sup>	<sup>1</sup> Percentage of women aged 15-49 with a birth in five years preceding the survey with 10 or more years of schooling; <sup>2</sup> Percentage of women aged 15-49 with 10 or more years of schooling
Girls 20-24 years married before age of 18 years <sup>0</sup>	<sup>1</sup> Percentage of women aged 20-24 years with a birth in five years preceding the survey who were married before age 18 years; <sup>2</sup> 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 <sup>0</sup>	<sup>1</sup> Percentage of youngest children under age 5 living in household that use an improved source of drinking water; <sup>2</sup> Population living in households that use an improved sanitation facility
HHs with improved sanitation facility <sup>0</sup>	<sup>1</sup> Percentage of youngest children under age 5 living in household that uses improved toilet facility; <sup>2</sup> Population living in households that use an improved sanitation facility
HHs with hand washing facility <sup>^</sup> <sup>§</sup>	Percentage of youngest children under age 5 living in household that had soap and water for washing hands
Open defecation <sup>@</sup>	Percentage of youngest children under age 5 living in household that has no toilet facility/defecates in open
Safe disposal of feces <sup>§</sup>	Percentage of youngest children living with mother whose stools were disposed of safely
HHs with BPL card <sup>@</sup>	Percentage of youngest children under age 5 living in households with BPL card
HHs with electricity <sup>0</sup>	<sup>1</sup> Percentage of youngest children under age 5 living in household that has electricity; <sup>2</sup> Population living in households with electricity

<sup>^</sup> Indicator not available in NFHS-3. <sup>§</sup> Indicator not available in NFHS-5 factsheets/state reports <sup>0</sup>Indicator comparable between NFHS-3 and NFHS-4 but differs slightly from NFHS-5. <sup>@</sup> Indicator not available in NFHS-5 factsheets but available in NFHS-5 states reports.

<sup>1</sup> Definition per NFHS-3/NFHS-4. <sup>2</sup> Definition as per NFHS-5 factsheet.

# Indicator definition

Interventions	Definition
Demand for FP satisfied <sup>®</sup> Iodized salt <sup>0</sup> Any ANC visits <sup>§</sup> ANC first trimester	Percentage of currently married women aged 15-49 with demand for family planning satisfied by modern methods <sup>1</sup> Percentage of women aged 15-49 living in HHs that use iodized salt; <sup>2</sup> Percentage of households using iodized salt Percentage of women aged 15-49 with a live birth in the five years who received at least one ANC for the last birth 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 <sup>®</sup>	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 <sup>®</sup>	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 <sup>®</sup>	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 <sup>§</sup>	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 <sup>®</sup>	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 warm <sup>®</sup>	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 <sup>^®</sup>	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
Food supplementation - pregnancy <sup>®</sup>	<sup>1</sup> Percentage of youngest children under age 5 whose mother received supplementary food from AWC during pregnancy; <sup>3</sup> Among children under 6 years, percentage whose mother received specific benefits from AWC during pregnancy: supplementary food
Health & nutrition education – pregnancy <sup>®</sup>	<sup>1</sup> Percentage of mothers who received health and nutrition education from an Anganwadi Centre (AWC) during last pregnancy in the five years preceding the survey; <sup>3</sup> Among children under 6 years, percentage whose mother received specific benefits from AWC during pregnancy: health and nutrition education
Malaria prevention- use of bed nets <sup>^§</sup>	Percentage of women who used mosquito net during the pregnancy for their most recent live birth in the 5 years preceding the survey
Institutional birth <sup>0</sup>	<sup>1</sup> Percentage 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; <sup>2</sup> Percentage 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) <sup>®</sup>	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
Skilled birth attendant <sup>0</sup>	<sup>1</sup> Percentage of women whose last delivery was attended by a skilled health personnel for their most recent live birth in the 5 years preceding the survey; <sup>2</sup> Percentage of births attended by skilled health personnel for births in the 5 years before the survey
Postnatal care for mothers	Percentage of mothers who received postnatal care from a doctor/nurse/LHV/ANM/midwife/other health personnel within 2 days of delivery for their most recent live birth in the five years preceding the survey
Postnatal care for babies	Percentage of children who received postnatal care from a doctor /nurse /LHV /ANM /midwife /other health personnel within 2 days of delivery for last birth in the 5 years before the survey
Food supplementation – postnatal <sup>®</sup>	<sup>1</sup> Percentage of youngest children under age 5 whose mother received supplementary food from AWC while breastfeeding; <sup>3</sup> Among children under 6 years, percentage whose mother received specific benefits from AWC while breastfeeding: supplementary food
Health & nutrition education – postnatal <sup>®</sup>	<sup>1</sup> Percentage of youngest children under age 5 whose mother received health check-ups from AWC while breastfeeding; <sup>3</sup> Among children under 6 years, percentage whose mother received specific benefits from AWC while breastfeeding: health and nutrition education
Full immunization <sup>0</sup>	<sup>1</sup> Percentage of youngest living children aged 12-23 months fully vaccinated based on information from either vaccination card or mother's recall; <sup>2</sup> Percentage of children aged 12-23 months fully vaccinated based on information from either vaccination card or mother's recall
Vitamin A – early childhood <sup>0</sup>	<sup>1</sup> Percentage of youngest children aged 6-59 months who received Vitamin A supplementation in the last 6 months preceding the survey; <sup>2</sup> Percentage of children aged 9-35 months who received a vitamin A dose in the last 6 months preceding the survey
Pediatric IFA <sup>0®</sup>	Percentage of youngest children aged 6-59 months who received iron supplements in the past 7 days preceding the survey
Deworming – early childhood <sup>0®</sup>	Percentage of youngest children aged 6-59 months who received deworming tablets in the last 6 months preceding the survey
Care seeking for ARI <sup>0</sup>	<sup>1</sup> 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; <sup>2</sup> Percentage 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 diarrhea <sup>0</sup>	<sup>1</sup> Percentage of youngest children under age 5 years with diarrhea in the 2 weeks preceding the survey who received oral rehydration salts (ORS); <sup>2</sup> Percentage of children under age 5 years with diarrhea in the 2 weeks preceding the survey who ORS
Zinc during diarrhea <sup>0</sup>	<sup>1</sup> Percentage of youngest children under age 5 years with diarrhea in the 2 weeks preceding the survey who received zinc; <sup>2</sup> Percentage of children under age 5 years with diarrhea in the 2 weeks preceding the survey who received zinc
Food supplementation (children 6-35 months) <sup>§</sup>	Percentage of youngest children aged 6-35 months who received food supplements from AWC in the 12 months preceding the survey
Weighing – early childhood <sup>®</sup>	Percentage of youngest children under age 5 who were weighed at AWC in the 12 months preceding the survey
Counselling on child growth <sup>®</sup>	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

<sup>^</sup> Indicator not available in NFHS-3. <sup>§</sup> Indicator not available in NFHS-5 factsheets/state reports. <sup>®</sup> Indicator not available in NFHS-5 factsheets but available in NFHS-5 states reports. <sup>0</sup> Indicator comparable between NFHS-3 and NFHS-4 but differs slightly from NFHS-5.

<sup>1</sup> Definition per NFHS-3/NFHS-4. <sup>2</sup> Definition as per NFHS-5 factsheet. <sup>3</sup> Definition as per NFHS-5 state reports.

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Partnerships and Opportunities to Strengthen and Harmonize Actions for Nutrition in India (POSHAN) is a multi-year initiative that aims to support the use of data and evidence in decision-making for nutrition in India. It is supported by the Bill & Melinda Gates Foundation and led by IFPRI in India.  
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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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