

Data Note

No. 54 | SEPTEMBER 2021

TELANGANA

State Nutrition Profile: Telangana

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.1 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.

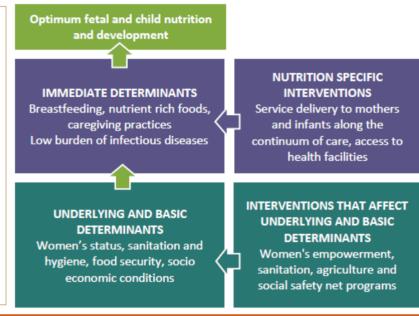
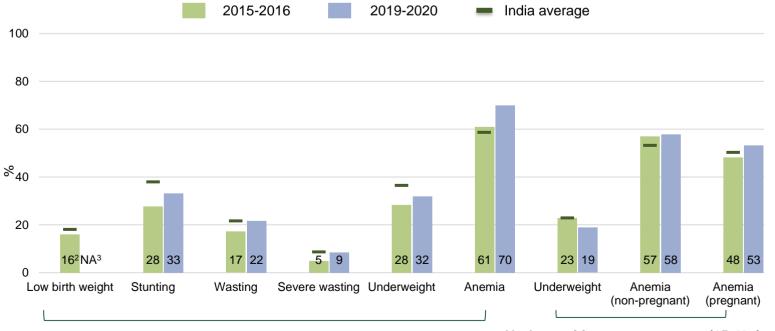


Figure 1. Trends in undernutrition outcomes 2015-2016, 2019-2020



Undernutrition among children (<5y)

Undernutrition among women (15-49y)

Source: NFHS-4 (2015-2016), & NFHS-5 state factsheets (2019-2020).

Note: Telangana state was formed in 2014; therefore, NFHS 3 (2005-06) data are not available for the state.

Adult nutrition outcomes are based on the woman dataset, while child nutrition outcomes are based on all child data.

¹ WHO. Nutrition Landscape Information System (NLiS). Help Topic: Malnutrition in children.

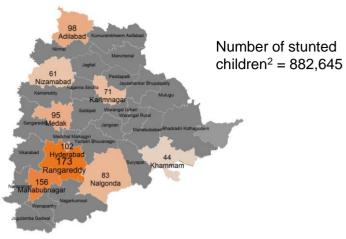
(https://apps.who.int/nutrition/landscape/help.aspx?menu=0&helpid=391&lang=EN).

²In NFHS-4, 3.7% of data was missing.

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

Map 1. Stunting

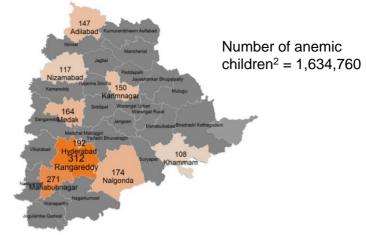


Note: Number in '000s in the above figure

| Highest burden districts | | | | |
|--------------------------|-------------|---------|--|--|
| 1 | Ranga Reddy | 173,073 | | |
| 2 | Mahbubnagar | 155,653 | | |
| 3 | Hyderabad | 102,126 | | |
| 4 | Adilabad | 98,116 | | |
| 5 | Medak | 94,749 | | |

No. of districts with public health concern1: 31 of 31

Map 2. Anemia



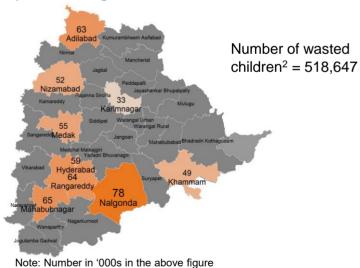
Note: Number in '000s in the above figure

| | Highest burden districts | | | |
|---|--------------------------|---------|--|--|
| 1 | Ranga Reddy | 311,768 | | |
| 2 | Mahbubnagar | 271,114 | | |
| 3 | Hyderabad | 191,931 | | |
| 4 | Nalgonda | 174,275 | | |
| 5 | Medak | 163,680 | | |

No. of districts with public health concern¹: 31 of 31

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

Map 3. Wasting

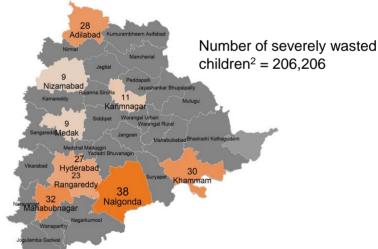


| Highest | hurden | districts |
|-----------|---------|-----------|
| riigiicat | Duracii | districts |

| | riighest baracii alstriots | | |
|---|----------------------------|--------|--|
| 1 | Nalgonda | 77,602 | |
| 2 | Mahbubnagar | 65,038 | |
| 3 | Ranga Reddy | 63,643 | |
| 4 | Adilabad | 63,335 | |
| 5 | Hyderabad | 59,462 | |
| | | | |

No. of districts with public health concern¹: 31 of 31

Map 4. Severe Wasting



Note: Number in '000s in the above figure

| | Highest burden districts | | | |
|---|--------------------------|--------|--|--|
| 1 | Nalgonda | 37,759 | | |
| 2 | Mahbubnagar | 31,788 | | |
| 3 | Khammam | 29,717 | | |
| 4 | Adilabad | 27,696 | | |
| 5 | Hyderabad | 26,875 | | |

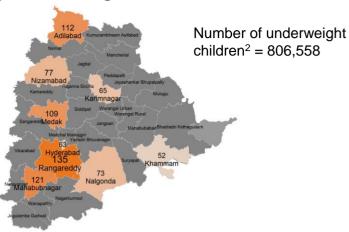
No. of districts with public health concern¹: 31 of 31

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. Note: Gray area in Maps 1-4 indicates districts for which data are not available.

¹Public health concern is defined as ≥20% for stunting, ≥40% for anemia, ≥10% for wasting, and ≥2% for severe wasting (WHO 2011). ²The total number of children <5 years is 2,754,280.

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

Map 5. Underweight children

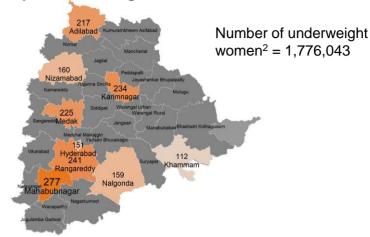


Note: Number in '000s in the above figure

| Highest burden districts | | | |
|--------------------------|-------------|---------|--|
| 1 | Ranga Reddy | 135,070 | |
| 2 | Mahbubnagar | 120,576 | |
| 3 | Adilabad | 111,642 | |
| 4 | Medak | 109,326 | |
| 5 | Nizamabad | 76,910 | |

No. of districts with public health concern1: 30 of 31

Map 6. Underweight women



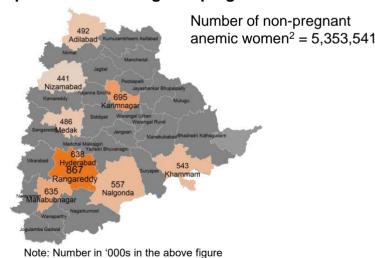
Note: Number in '000s in the above figure

| | Highest burden districts | | | |
|---|--------------------------|---------|--|--|
| 1 | Mahbubnagar | 276,716 | | |
| 2 | Ranga Reddy | 240,986 | | |
| 3 | Karimnagar | 234,382 | | |
| 4 | Medak | 225,217 | | |
| 5 | Adilabad | 216,810 | | |

No. of districts with public health concern¹: 31 of 31

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

Map 7. Anemia among non-pregnant women



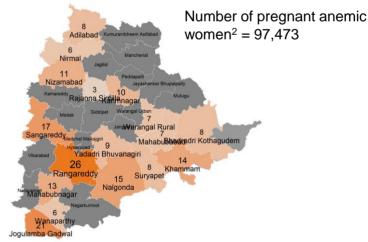
| | Hignest burden districts | | | |
|---|--------------------------|---------|--|--|
| 1 | Ranga Reddy | 866,903 | | |
| 2 | Karimnagar | 695,183 | | |
| 3 | Hyderabad | 637,565 | | |
| 4 | Mahbubnagar | 635,293 | | |

No. of districts with public health concern¹: 31 of 31

5

Nalgonda

Map 8. Anemia among pregnant women



Note: Number in '000s in the above figure

| Highest burden districts | | | |
|--------------------------|-------------|--------|--|
| 1 | Ranga Reddy | 25,555 | |
| 2 | Nalgonda | 15,231 | |
| 3 | Khammam | 13,922 | |
| 4 | Mahbubnagar | 12,757 | |
| 5 | Nizamabad | 11,374 | |

No. of districts with public health concern¹: 14 of 31

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 Maps 5-8 indicates districts for which data are not available. 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). The total number of children <5 years is 2,754,280, pregnant women 15-49 years is 770,426, and non-pregnant women 15-49 years is 9,996,449.

556,813

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

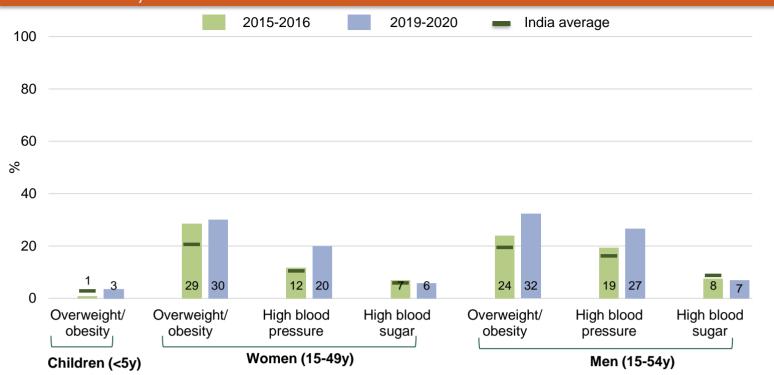


Table 1. Overweight/obesity & NCDs¹ at district level 2015-2016, 2019-2020

| Category | Outcomes | Worst performing districts (pp) ⁴ | Best performing districts (pp) ⁴ | Highest burden districts (thousands) ² | No of districts with public health concern ⁵ (total=31) |
|------------------------|------------------------|---|---|---|---|
| | | Difference between (2019-2020) & (2015-2016) | Difference between (2019-2020) & (2015-2016) | 2019-2020 | 2019-2020 |
| Children <5 years | Overweight/ obesity | Hyderabad: +1.7 | Not applicable ⁴ | Ranga ⁶ : 18 Mahbubnagar: 15 | 0 |
| | Overweight/ obesity | Hyderabad: +2.2 | Not applicable ⁴ | Ranga ⁶ : 656 Hyderabad: 619 | 29 |
| Women (15-49 years) | High blood pressure | Hyderabad: +4.4 | Not applicable ⁴ | Ranga ⁶ : 367 Hyderabad: 236 | 12 |
| | High blood sugar | Not applicable ⁴ | Hyderabad: -4.3 | Ranga ⁶ : 84 Karimnagar: 70 | 0 |
| | Overweight /obesity | Data not available at o | district level | | |
| Men (15-54 years) | High blood pressure | Hyderabad: +7.7 | Not applicable ⁴ | Ranga ⁶ : 546 Hyderabad: 428 | 31 |
| | High blood sugar | Not applicable ⁴ | Hyderabad: -3.9 | Ranga ⁶ : 112 Hyderabad: 86 | 0 |

Source: NFHS-4 (2015-2016), and NFHS-5 state and district factsheets (2019-2020). pp: percentage points Note: Telangana state was formed in 2014, therefore NFHS 3 (2005-06) data is not available for the state.

Adult nutrition outcomes are based on the woman/man dataset, while child nutrition outcomes are based on all child data.

¹NCDs: non-communicable diseases. ²Burden: 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. ⁴The difference is calculated only between districts that are comparable between 2015-2016 and 2019-2020. Only Hyderabad district in Telangana is comparable between the two time periods.

⁵Public 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).

District codes: Ranga⁶: Ranga Reddy.

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

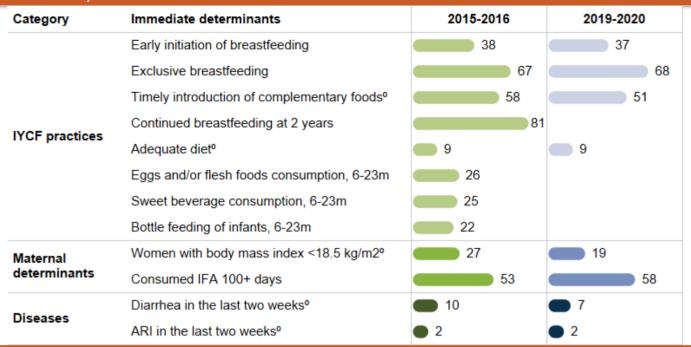


Table 2. Immediate determinants at district-level 2015-2016, 2019-2020

| Category | Immediate determinants | Worst performing districts (pp) ² | Best performing districts (pp) ² | Top coverage districts (%)¹ |
|--------------|---|---|---|---|
| | | Difference between (2019-2020) & (2015-2016) | Difference between (2019-2020) & (2015-2016) | 2019-2020 |
| | Early initiation of breastfeeding | Not applicable ² | Hyderabad: +6.2 | Mahabubabad: 50.5 Nalgonda: 48.5 |
| IYCF | Exclusive breastfeeding | Not applicable ² | Not applicable ² | Jangoan: 79.3 Jogulamba ³ :76.7 |
| practices | Timely introduction of complementary foods ⁰ | Data not available at dist | trict level | |
| | Adequate diet ⁰ | Hyderabad: -15.1 | Not applicable ² | Nizamabad: 18.4 Suryapet: 15.1 |
| Maternal | Women with BMI<18.5 kg/m2° | Hyderabad: +3.9 | Not applicable ² | Hyderabad: 12.4 Khammam: 12.8 |
| determinants | Consumed IFA 100+ days | Not applicable ² | Hyderabad: +0.1 | Hyderabad: 72.2 Mahabubnagar: 69.1 |
| Diseases | Diarrhea in the last two weeks ⁰ | Not applicable ² | Hyderabad: -5.9 | Hyderabad: 1.0 Nagarkurnool: 3.6 |
| Diseases | ARI in the last two weeks ⁰ | Not applicable ² | Hyderabad: -0.9 | Nirmal: 0.0 Jagitial: 0.4 |

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

Note 1: Telangana state was formed in 2014; therefore, NFHS 3 (2005-06) data are not available for the state.

Note 2: 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.

¹For 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.

²The difference is calculated only between districts that are comparable between 2015-2016 and 2019-2020. Only Hyderabad district in Telangana is comparable between the two time periods.

District codes: Jogulamba³: Jogulamba Gadwal.

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

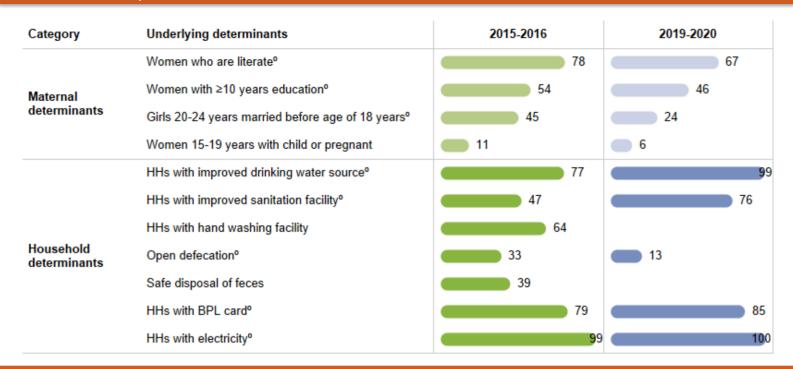


Table 3. Underlying determinants at district-level 2015-2016, 2019-2020

| Category | Underlying determinants | Worst performing districts (pp) ² | Best performing districts (pp) ² | Top coverage districts (%) ¹ |
|---------------------------|---|---|--|---|
| | | Difference between (2019-2020) & (2015-2016) | Difference between (2019-2020) & (2015-2016) | 2019-2020 |
| | Women who are literate ⁰ | Hyderabad: -6.5 | Not applicable ² | Hyderabad: 83.6 Medchal ³ : 79.5 |
| Maternal | Women with ≥10 years education ⁰ | Hyderabad: -9.2 | Not applicable ² | Hyderabad: 63.2 Medchal ³ : 59.3 |
| determinants | Girls 20-24 years married before age of 18 years ^o | Not applicable ² | Hyderabad: -6.4 | Medchal ³ : 10.2 Hyderabad: 10.6 |
| | Women 15-19 years with child or pregnant | Not applicable ² | Hyderabad: -4.6 | Siddipet: 1.0 Kamareddy: 1.1 |
| | HHs with improved drinking water source ⁰ | Not applicable ² | Hyderabad: +11.8 | Medchal ³ : 99.9 Medchak: 99.9 |
| Household determinants | HHs with improved sanitation facility ⁰ | Not applicable ² | Hyderabad: +5.3 | Medchal ³ : 86.2 Khammam: 84.5 |
| | HHs with electricity ⁰ | Hyderabad: -0.1 | Not applicable ² | Medchal ³ : 100.0 Hyderabad: 99.9 |

Source: NFHS-4 (2015-2016) & NFHS-5 state factsheets and state reports (2019-2020). pp: percentage points.

Note 1: Telangana state was formed in 2014, therefore NFHS 3 (2005-06) data are not available for the state.

Note 2: Underlying determinants are based on the last child data; safe disposal of feces and HHs with hand washing facility not available in 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.

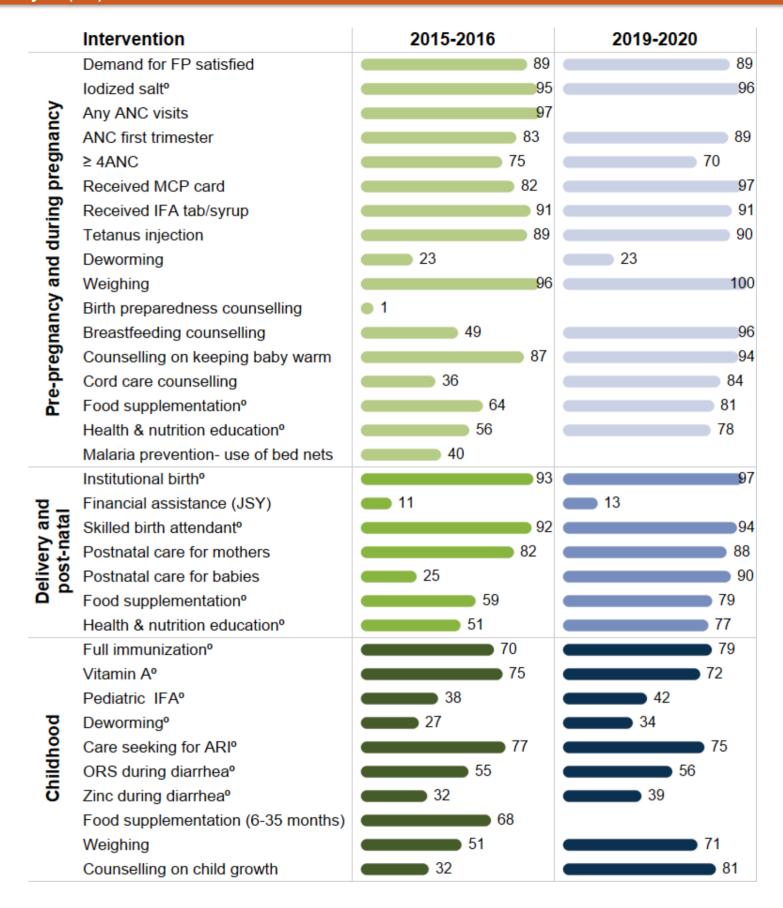
Olindicator definition differs slightly between NFHS-4 and NFHS-5.

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.

²The difference is calculated only between districts that are comparable between 2015-2016 and 2019-2020. Only Hyderabad district in Telangana is comparable between the two time periods.

District codes: Medchal³: Medchal-Malkajgiri.

Figure 5. Trends in coverage of interventions across the first 1000 days (%), 2015-2016, 2019-2020



Source: NFHS-3 (2005-2006), NFHS-4 (2015-2016) & NFHS-5 state factsheets and state reports (2019-2020).
Olndicator 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 | à | | | | | | | | De | Delivery & postnatal | oostnata | _ | | | | | | Early cl | Early childhood | | | | |
|--------------------------|---|----------------|---------------------|--------|-------------------|------------------------|-------------------|-----------|-----------|-----------------------------------|---------------------------|-------------------------------------|-----------------------|-------------------|-----------|-------------|-----------------------|-------------------------|----------------------|---------------------------|----------------------|--------------------|--------------------|-----------|-----------------|-----------|-----------------------|----------------------|----------------------|--------------------------|----------|-------------------------------|
| | Defizites 97 for bnemed Ties besibol | stiziv DNA ynA | nəfzəmint first ÖNA | 54 ∀NC | Bres 90M bevieseA | Received IFA tab/syrup | Tetanus injection | Deworming | gnidgiəW | seanbəreqərq rizil Brilləsring | Breastfeeding counselling | Counselling on keeping baby warm | gnillesnuoo eare Cord | noitetnementation | education | eten bed to | (YZL) ezistance (ISY) | Skilled birth attendant | Postnatal care for | Postnatal care for babies | Food supplementation | Health & nutrition | noitezinummi llu-l | A nimetiV | A-II oirteibae4 | Deworming | IAA 101 gring for ARI | 694716ib gairinb 280 | E9A176ib gaitub 2niZ | -a) noitstnemelquus boo7 | gnidgieW | Dlido no gnillasnuo Srowth |
| TELANGANA | 95.8 | | 88.5 | 70.4 | 2.96 | 90.6 | 9.68 | 22.6 | | | | | | | | 97. | .0 13.3 | 3 93.6 | 6 87.6 | 90.0 | 0 | | 79.1 | 12.4 | | | 74.8 | 56.3 | 38.5 | | | |
| Adilabad | 97.6 | | 89.7 | 74.8 | 94.1 | 80.4 | 6.06 | 29.7 | | | | | | | | 94. | 1 13.2 | 2 93.9 | .68 6. | .4 80.3 | 3 | | 69.3 | 85.7 | | | 75.0 | 65.0 | 42.7 | | | |
| Bhadradri Kothagudem | 7.76 | | 92.8 | 70.1 | 98.6 | 9.06 | 91.2 | 31.9 | | | | | | | | .76 | 4 18.4 | 4 94.2 | 2 87.3 | 1 85. | 4 | | 80.4 | 73.2 | | | 82.4 | | | | | |
| Hyderabad | 97.4 | | 87.9 | 6.69 | 94.4 | 90.8 | 9.68 | 20.8 | | | | | | | | 98. | .3 6.7 | 94 | .6 91.2 | .2 94.9 | 6. | | 73.8 | 8 62.0 | | | | | | | | |
| Jagitial | 96.5 | | 94.6 | 81.9 | 95.5 | 88.6 | 87.9 | 18.3 | | | | | | | | 94. | 4 19. | 8 91.9 | .9 84. | 1 89. | 6 | | 77.7 | 72.5 | | | 73.0 | | | | | |
| Jangoan | 8.96 | | 89.7 | 65.4 | 6.86 | 94.4 | . 86.1 | 21.7 | | | | | | | | -66 | .6 5.3 | 3 90.3 | 1 85.6 | 96.5 | 2 | | 84.2 | 80.8 | | | 81.0 | | | | | |
| Jayashankar Bhupalapally | 7.76 | | 94.6 | 72.7 | 94.0 | 85.1 | 94.1 | 24.1 | | | | | | | | .66 | .5 13.6 | 6 95.2 | 1 89.2 | 1 89. | 9. | | 87.9 | 70.5 | | | 71.2 | | | | | |
| Jogulamba Gadwal | 85.3 | | 88.3 | 72.9 | 96.5 | 9.98 | 97.6 | 21.8 | | | | | | | | 94. | 2 12. | 1 91.7 | 7 88 | .3 88. | .2 | | 86.9 | 75.0 | | | 88.7 | | | | | |
| Kamareddy | 93.6 | | 87.5 | 79.5 | 8.96 | 93.4 | 9.06 | 23.6 | | | | | | | | 97. | .1 18. | 1 93.2 | 2 86 | .88 | 0. | | 75.5 | 9.62 | | | 72.8 | | | | | |
| Karimnagar | 99.1 | | 92.3 | 9.69 | 88.2 | 91.8 | 85.2 | 17.1 | | | | | | | | ·86 | 4 9.9 | 98 | 68 6 | .5 95.9 | 6. | | 73.4 | 19.8 | | | 70.3 | 59.2 | 36.8 | | | |
| Khammam | 9.96 | | 84.9 | 76.3 | 99.4 | 95.1 | 97.3 | 30.3 | | | | | | | | .76 | 9 11.3 | .3 93.2 | 2 93.2 | 2 91.5 | 5 | | 9.98 | 5 70.9 | | | 73.3 | | | | | |
| Komaram Bheem Asifabad | 92.9 | | 80.0 | 8.89 | 2.96 | 92.5 | 91.8 | 26.2 | | | | | | | | 82.0 | 0 22. | 9 83.4 | .4 85.5 | .5 81.9 | 6. | | 76.2 | 75.0 | | | 59.5 | | | | | |
| Mahabubabad | 96.2 | | 87.8 | 67.7 | 98.1 | 84.4 | 94.0 | 27.6 | | | | | | | | .76 | 7 5.5 | 95 | .4 91.5 | .5 94. | ε. | | 76.1 | 13.6 | | | 79.7 | | | | | |
| Mahabubnagar | 94.1 | | 86.2 | 62.6 | 98.7 | 93.6 | 90.2 | 25.9 | | | | | | | | 98. | 1 14. | 2 97.6 | 84 | .9 85. | .5 | | 89.4 | 1 70.8 | | | 81.2 | | | | | |
| Mancherial | 7.76 | | 86.7 | 64.7 | 93.6 | 95.4 | 9.68 | 24.5 | | | | | | | | 90. | 1 9.4 | 96 | .78 6. | 7 85. | .3 | | 76.0 | 63.9 | | | 67.5 | | | | | |
| Medak | 97.1 | | 78.9 | 68.5 | 7.76 | 89.2 | 81.3 | 27.7 | | | | | | | | 98. | 9 13. | 5 92.9 | 8.08 | .89.8 | 8. | | 69.3 | 85.2 | | | 60.1 | 41.6 | 37.5 | | | |
| Medchal-Malkajgiri | 98.8 | | 89.4 | 9.69 | 96.2 | 90.3 | 92.2 | 14.7 | | | | | | | | 98. | 3 8.9 | 96 | 2 90. | 90.3 | 1 | | 76.1 | 1 69.5 | | | 63.8 | | | | | |
| Nagarkurnool | 92.0 | | 92.4 | 75.1 | 97.0 | 86.4 | 88.5 | 23.4 | | | | | | | | 98. | .0 14.7 | 7 94.5 | .5 90.3 | .3 91.0 | 0 | | 81.1 | 64.7 | | | 9.98 | | | | | |
| Nalgonda | 87.5 | | 90.5 | 65.7 | 98.7 | 96.1 | 91.8 | 28.3 | | | | | | | | 98. | 3 21. | 5 99.0 | 0 92.2 | .2 95 | 3 | | 78.3 | 3 72.6 | | | 76.7 | | | | | |
| Nirmal | 95.1 | | 85.2 | 69.7 | 6.96 | 87.2 | 91.2 | 24.6 | | | | | | | | .96 | 7 10 | .0 91.6 | .78 87.2 | .2 91. | 0 | | 75.3 | 84.1 | | | 56.3 | | | | | |
| Nizamabad | 6.96 | | 87.9 | 78.5 | 96.2 | 90.0 | 80.0 | 22.6 | | | | | | | | 97 | .3 12.3 | 1 91.8 | 79 | .5 85. | 6. | | 86.1 | 1 83.0 | | | 67.0 | 9.99 | 42.2 | | | |
| Peddapalli | 97.8 | | 83.5 | 77.9 | 92.9 | 88.4 | 87.0 | 25.7 | | | | | | | | .96 | .5 19.3 | 1 96.2 | 2 87 | .6 89. | 8. | | 73.1 | 1 66.3 | | | 72.3 | | | | | |
| Rajanna Sircilla | 98.5 | | 90.4 | 67.1 | 99.0 | 90.8 | 96.3 | 26.7 | | | | | | | | 97. | .6 10.5 | 5 95.4 | .4 89.9 | 90.1 | - | | 84.1 | 73.3 | | | 72.7 | | | | | |
| Ranga Reddy | 98.2 | | 95.5 | 75.1 | 95.3 | 83.4 | . 90.3 | 17.4 | | | | | | | | .76 | .2 15.5 | 5 92.7 | 7 89.8 | 8 90.0 | 0 | | 82.8 | 8 67.8 | | | 72.2 | | | | | |
| Sangareddy | 97.5 | | 87.8 | 66.4 | 98.3 | 92.9 | 89.5 | 10.4 | | | | | | | | 93. | .0 19.7 | 7 95.1 | 84. | 7 89. | 0. | | 78.5 | 74.0 | | | 77.8 | 53.1 | 50.7 | | | |
| Siddipet | 98.5 | | 86.1 | 62.6 | 6.86 | 94.3 | 8.68 | 23.0 | | | | | | | | . 66 | 7 18. | 2 90.5 | 5 74.3 | 1 85. | 6 | | 63.1 | 81.0 | | | 71.1 | | | | | |
| Suryapet | 93.0 | | 92.7 | 70.4 | 2.66 | 97.8 | 87.1 | 20.6 | | | | | | | | 95. | .9 16.2 | 2 94.2 | 2 88.6 | .88 9 | 7 | | 70.4 | 70.2 | | | 61.6 | | | | | |
| Vikarabad | 89.1 | | 78.0 | 54.8 | 98.7 | 93.0 | 83.2 | 18.0 | | | | | | | | 95.0 | 0. | 1 86.7 | 7 80.8 | .8 86.9 | 6 | | 86.2 | 66.1 | | | 77.8 | 44.5 | 31.6 | | | |
| Wanaparthy | 93.5 | | 91.4 | 62.8 | 100.0 | 95.9 | 95.6 | 23.8 | | | | | | | | .66 | .0 13.8 | 8 96.6 | 6 87. | .6 83. | 9. | | 87.0 | 71.4 | | | 82.3 | | | | | |
| Warangal Rural | 97.4 | | 86.8 | 70.4 | 98.7 | 89.7 | 82.3 | 20.7 | | | | | | | | 100. | 0 18. | 3 94.5 | 5 93.8 | .8 90. | .5 | | 79.0 | 83.7 | | | 8.69 | 25.8 | 41.7 | | | |
| Warangal Urban | 9.96 | | 88.4 | 71.3 | 96.4 | 92.8 | 96.2 | 19.6 | | | | | | | | .66 | 7 11. | 2 93.0 | .0 92.6 | .6 92. | .3 | | 70.1 | 1 78.5 | | | 81.5 | | | | | |
| Yadadri Bhuvanagiri | 98.7 | | 92.1 | 67.2 | 97.9 | 91.9 | 91.5 | 28.2 | | | | | | | | 7.76 | 7 9.0 | 94.1 | 93 | .2 94. | 6. | | 76.7 | 9.69 / | | | 67.3 | | | | | |

Not Available

%08>-09

40-<60%

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) ¹ | Best performing districts (pp) ¹ | Top coverage districts (%) |
|--------------------|---------------------------------|---|---|---|
| | | Difference between (2019-2020) & (2015- 2016) | Difference between (2019-2020) & (2015- 2016) | 2019-2020 |
| | ANC first trimester | Hyderabad: -3.0 | Not applicable ¹ | Ranga Reddy: 95.5 Jagitial: 94.6 |
| | ≥4 ANC visits | Hyderabad: -15.5 | Not applicable ¹ | Jagitial: 81.9 Kamareddy: 79.5 |
| Pregnancy | Received MCP Card | Not applicable ¹ | Hyderabad: +27.6 | Wanaparthy: 100.0 Suryapet: 99.7 |
| | Tetanus injection | Not applicable ¹ | Hyderabad: -3.7 | Khammam: 97.3 Rajanna Sircilla: 96.3 |
| | Institutional birth° | Not applicable ¹ | Hyderabad: +0.2 | Warangal Rural: 100.0 Warangal Urban: 99.7 |
| Delivery and | Skilled birth attendant° | Hyderabad: -5.2 | Not applicable ¹ | Nalgonda: 99.0 Mahabubnagar: 97.6 |
| post-natal | Postnatal care for mothers | Not applicable ¹ | Hyderabad: +10.9 | Warangal Rural: 93.8 Yadadri ⁴ : 93.2 |
| | Postnatal care for babies° | Not applicable ¹ | Hyderabad: +82.6 | Jangoan: 96.5 Karimnagar: 95.9 |
| | Full immunization | Hyderabad: -1.7 | Not applicable ¹ | Mahabubnagar: 89.4 Jayashankar ² : 87.9 |
| | Vitamin A supplementation° | Hyderabad: -9.6 | Not applicable ¹ | Adilabad: 85.7 Medak: 85.2 |
| Early childhood | Care seeking for ARI° | Data not available at | t district-level | Jogulamba ³ : 88.7 Nagarkurnool: 86.6 |
| | ORS treatment during diarrhea° | Data not available at | t district-level | Adilabad: 65.0 Karimnagar: 59.2 |
| | Zinc treatment during diarrhea° | Data not available at | t district-level | Sangareddy: 50.7 Adilabad: 42.7 |

Key takeaways

Children: Stunting and wasting prevalence each increased by 5 percentage points (pp), between 2016 and 2020. Underweight and anemia increased by 4pp and 9pp respectively between 2016 and 2020.

Women: Underweight declined by 4pp from 2016 to 2020. Anemia increased by 1pp and 5pp among non-pregnant and pregnant women respectively, between 2016 and 2020. Overweight/obesity increased by 1pp between 2016 and 2020. **Men**: Overweight/obesity increased by 8pp between 2016 and 2020.

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

- Outcomes: Anemia in children (70%) among non-pregnant women (58%) and pregnant women (53%).
- Immediate determinants: Early initiation of breastfeeding (37%); adequate diet (9%) .
- Underlying determinants: Women with ≥ 10 years education (46%)
- Coverage of interventions: ORS during diarrhea (56%); Zinc during diarrhea (41%).

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

Note: Telangana state was formed in 2014; therefore, NFHS-3 (2005-06) data are not available for the state. Interventions' coverage are based on the last child data. ⁰Indicator definition differs slightly between NFHS-4 and NFHS-5. ¹The difference is calculated only between districts that are comparable between 2015-2016 and 2019-2020. Only Hyderabad district in Telangana is comparable between the two time periods.

District codes: Jayashankar²: Jayashankar Bhupalapally; Jogulamba³: Jogulamba Gadwal; Yadadri⁴: Yadadri Bhuvanagiri.

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 | Percentage of pregnant women aged 15-49 who are anemic (<11.0 g/dl) |
| Overweight/obesity - children Overweight/obesity - women | Percentage of children aged 0-59 months who are overweight i.e., weight-for-height z score > 2SD 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 Percentage of youngest children 6–23 months of age who consumed a minimum acceptable diet during the previous |
| Adequate diet | day |
| Eggs and/or flesh foods consumption ^{\$} | Percentage of youngest children 6–23 months of age who consumed egg and/or flesh food during the previous day |
| 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 <18.5 kg/m ² ° | ¹ Percentage of women aged 15-49 with a youngest child < 5 years who have BMI below normal (BMI <18.5 kg/m²); 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 [®] Safe disposal of feces ^{\$} | Percentage of youngest children under age 5 living in household that has no toilet facility/defecates in open Percentage of youngest children living with mother whose stools were disposed of safely |
| HHs with BPL card [®] | Percentage of youngest children under age 5 living in households with BPL card |
| HHs with electricity ⁰ | ¹ Percentage of youngest children under age 5 living in household that has electricity; ² Population living in households with electricity |

[^]Indicator not available in NFHS-3. Indicator not available in NFHS-5 factsheets/state reports Indicator 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 |
| Iodized salt ^o | ¹ Percentage of women aged 15-49 living in HHs that use iodized salt; ² Percentage 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 |
| Descrived MCD cord | Survey |
| Received MCP card | Percentage of mothers who registered last pregnancy in the 5 years preceding the survey for which she received a |
| Received IFA tab/syrup® | Mother and Child Protection (MCP) card Percentage of women who received IFA (given or purchased) tablets during the pregnancy for their most recent live |
| Received if A tab/syrup | 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 |
| 5: 4 | 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 |
| Breastfeeding counselling@ | preceding the survey Percentage of women who met with a community health worker in the last three months of pregnancy and received |
| Dreastreeding counselling | 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 |
| warm [®] | 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 |
| Food supplementation - | ¹ Percentage of youngest children under age 5 whose mother received supplementary food from AWC during |
| pregnancy [®] | pregnancy; ³ Among children under 6 years, percentage whose mother received specific benefits from AWC during |
| | pregnancy: supplementary food |
| Health & nutrition education – | ¹ Percentage of mothers who received health and nutrition education from an Anganwadi Centre (AWC) during last |
| pregnancy [®] | pregnancy in the five years preceding the survey; ³ Among children under 6 years, percentage whose mother received |
| Malaria prevention- use of bed | specific benefits from AWC during pregnancy: health and nutrition education 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 birth ⁰ | 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; ² 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)@ | 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 ⁰ | ¹ 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; ² Percentage of births attended by skilled health personnel for births in the 5 |
| Postnatal care for mothers | years before the survey Percentage of mothers who received postnatal care from a doctor/nurse/LHV/ANM/midwife/other health personnel |
| 1 Ostriatal care for mothers | 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® | ¹ Percentage of youngest children under age 5 whose mother received supplementary food from AWC while |
| | breastfeeding; ³ Among children under 6 years, percentage whose mother received specific benefits from AWC while |
| | breastfeeding: supplementary food |
| Health & nutrition education – | ¹ Percentage of youngest children under age 5 whose mother received health check-ups from AWC while |
| postnatal [@] | breastfeeding; ³ Among children under 6 years, percentage whose mother received specific benefits from AWC while |
| Full immunication() | breastfeeding: health and nutrition education |
| Full immunization ⁰ | ¹ Percentage of youngest living children aged 12-23 months fully vaccinated based on information from either vaccination card or mother's recall; ² Percentage of children aged 12-23 months fully vaccinated based on information |
| | from either vaccination card or mother's recall |
| Vitamin A – early childhood ⁰ | ¹ Percentage of youngest children aged 6-59 months who received Vitamin A supplementation in the last 6 months |
| manner cany annunced | preceding the survey; 2 Percentage of children aged 9-35 months who received a vitamin A dose in the last 6 months |
| Pediatric IFA ^{0@} | Percentage of youngest children aged 6-59 months who received iron supplements in the past 7 days preceding the |
| | survey |
| Deworming – early childhood ^{0@} | Percentage of youngest children aged 6-59 months who received deworming tablets in the last 6 months preceding |
| | the survey |
| Care seeking for ARI ⁰ | ¹ 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; ² Percentage of children under age 5 years with fever or symptoms |
| ORS during diarrhea ⁰ | of ARI in the 2 weeks preceding the survey taken to a health facility or health provider ¹Percentage of youngest children under age 5 years with diarrhea in the 2 weeks preceding the survey who received |
| OKS during diarrileas | oral rehydration salts (ORS); 2Percentage of children under age 5 years with diarrhea in the 2 weeks preceding the |
| | survey who ORS |
| Zinc during diarrhea ⁰ | ¹ Percentage of youngest children under age 5 years with diarrhea in the 2 weeks preceding the survey who |
| Ç | received zinc; ² Percentage 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. OIndicator comparable between NFHS-3 and NFHS-4 but differs slightly from NFHS-5.

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

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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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