Health and Wellbeing

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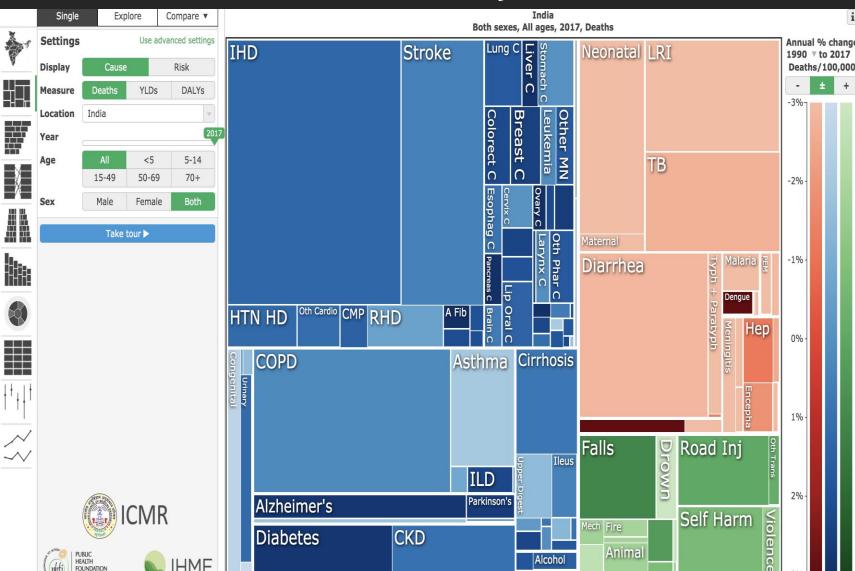


What does it mean

- "Health is a resource for everyday life, not the objective of living; it is a positive concept, emphasizing social and personal resources, as well as physical capacities". WHO
- Health triangle

Current scenario: reports

Burden of disease study



India: Health of the Nation's States The India State-Level Disease Burden Initiative

INDIAN COUNCIL OF MEDICAL RESEARCH
PUBLIC HEALTH FOUNDATION OF INDIA
INSTITUTE FOR HEALTH METRICS AND EVALUATION









NFHS 4

India - Key Indicators

Indicators		S-4 (2015	-16)	NFHS-3 (2005-06)
Population and Household Profile	Urban	Rural	Total	Total
Population (female) age 6 years and above who ever attended school (%)	80.6	63.0	68.8	58.3
2. Population below age 15 years (%)	24.9	30.5	28.6	34.9
3. Sex ratio of the total population (females per 1,000 males)	956	1,009	991	1,000
4. Sex ratio at birth for children born in the last five years (females per 1,000 males)	899	927	919	914
5. Children under age 5 years whose birth was registered (%)	88.8	76.1	79.7	41.2
Households with electricity (%)	97.5	83.2	88.2	67.9
7. Households with an improved drinking-water source ¹ (%)	91.1	89.3	89.9	87.6
8. Households using improved sanitation facility ² (%)	70.3	36.7	48.4	29.1
9. Households using clean fuel for cooking ³ (%)	80.6	24.0	43.8	25.5
10. Households using iodized salt (%)	96.5	91.4	93.1	76.1
 Households with any usual member covered by a health scheme or health insurance (%) 	28.2	28.9	28.7	4.8
Characteristics of Adults (age 15-49)				
12. Women who are literate (%)	81.4	61.5	68.4	55.1
13. Men who are literate (%)	90.8	82.6	85. 7	78.1
14. Women with 10 or more years of schooling (%)	51.5	27.3	35.7	22.3
Marriage and Fertility				
15. Women age 20-24 years married before age 18 years (%)	17.5	31.5	26.8	47.4
16. Men age 25-29 years married before age 21 years (%)	14.1	24.4	20.3	32.3
17. Total fertility rate (children per woman)	1.8	2.4	2.2	2.7
18. Women age 15-19 years who were already mothers or pregnant at the time of the survey (%)	5.0	9.2	7.9	16.0
Infant and Child Mortality Rates (per 1,000 live births)				
19. Infant mortality rate (IMR)	29	46	41	57
20. Under-five mortality rate (U5MR)	34	56	50	74
Current Use of Family Planning Methods (currently married women age 15-49	years)			
21. Any method4 (%)	57.2	51.7	53.5	56.3
22. Any modern method ⁴ (%)	51.2	46.0	47.8	48.5
23. Female sterilization (%)	35.7	36.1	36.0	37.3
24. Male sterilization (%)	0.3	0.3	0.3	1.0
25. IUD/PPIUD (%)	2.4	1.1	1.5	1.7
26. Pill (%)	3.5	4.3	4.1	3.1
27. Condom (%)	9.1	3.9	5.6	5.2
Unmet Need for Family Planning (currently married women age 15-49 years) ⁵				
28. Total unmet need (%)	12.1	13.2	12.9	13.9
29. Unmet need for spacing (%)	5.1	5.9	5.7	6.1
Quality of Family Planning Services				
30. Health worker ever talked to female non-users about family planning (%)	18.6	17.2	17.7	10.1
31. Current users ever told about side effects of current method ⁶ (%)	50.1	45.0	46.6	34.4

¹ Piped water into dwelling/yard/plot, public tap/standpipe, tube well or borehole, protected dug well, protected spring, rainwater, community RO plant. ² Flush to



National Family Health Survey (NFHS-4)

2015-16



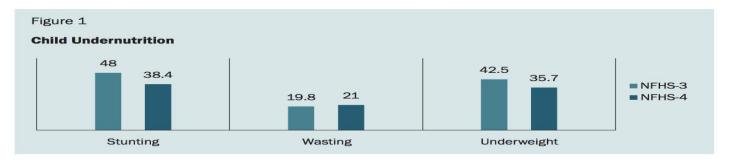
International Institute for Population Sciences
(Deemed University)

Mumbai

NITI Ayog strategy

1.2 CHILD UNDERNUTRITION

India is home to the largest number of children in the world. Nearly every fifth young child in the world lives in India. It is estimated that there are about 43 crore children in the age group of 0-18 years. Children and women together constitute around 70% of India's people – representing not just the



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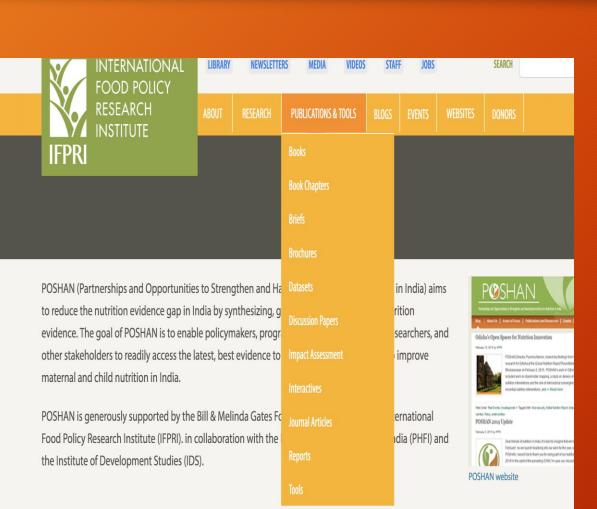
National Nutrition Strategy

present human resource base – but also the future. This resource base is eroded by undernutrition - which undermines their survival, health, cumulative learning capacities and adult productivity and must be urgently addressed.

Child Undernutrition remains high, despite improvements over the last decade. Figure 1 compares the primary indicators of child undernutrition - stunting, wasting and underweight, for children below five years of age. As evident, while stunting and underweight prevalence has gone down, trends in wasting show an overall increase in the last decade. The decrease in stunting has been from 48% to 38.4%, that is, by 1 percentage point per year. Similarly, underweight prevalence has reduced by 0.68 percentage

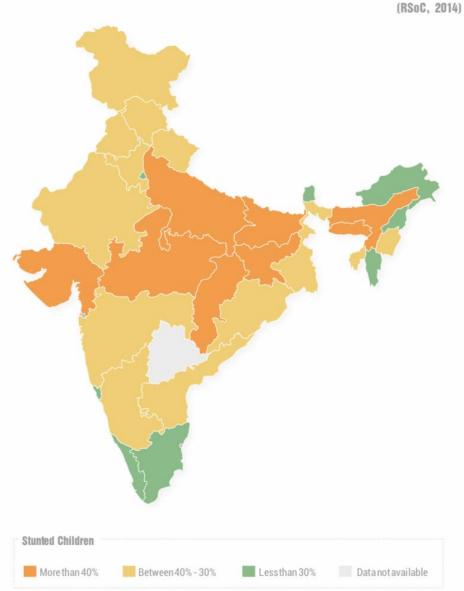


IFPRI fact sheets



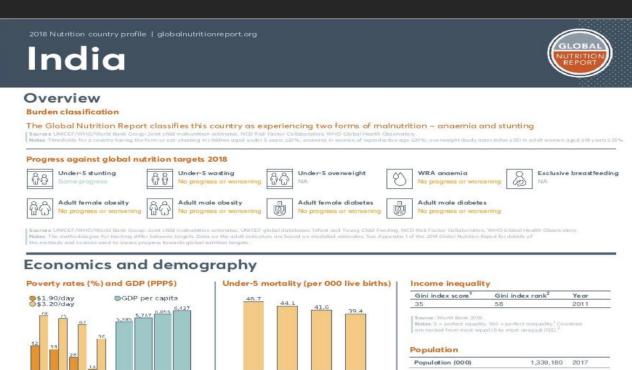
3 INDIA HEALTH REPORT ON NUTRITION - SYNOPSIS

FIGURE 2 PREVALENCE OF STUNTING IN UNDER-5 CHILDREN, BY STATE



)	States	Numbers in Percentage
	Uttar Pradesh	50.4
	Bihar	49.4
	Jharkhand	47.4
	Chhattisgarh	43.0
	Meghalaya	42.9
	Gujarat	41.6
	Madhya Pradesh	41.5
	Assam	40.6
	India	38.7
	Odisha	38.2
	Haryana	36.5
	Rajasthan	36.4
	Maharashtra	35.4
	Andhra Pradesh	35.4
	West Bengal	34.7
	Karnataka	34.2
	Himachal Pradesh	34.2
	Uttarakhand	34.0
	Manipur	33.2
	Jammu & Kashmir	31.7
	Tripura	31.0
	Punjab	30.5
	Delhi	29.1
	Nagaland	29.1
	Arunachal Pradesh	28.4
	Sikkim	28.0
	Mizoram	26.9
	Tamil Nadu	23.3
	Goa	21.3
	Kerala	19.4

Global Nutrition Report, WHO country briefs



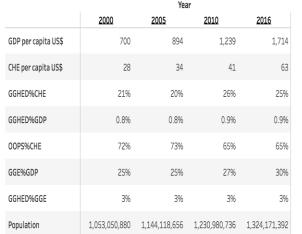
India country nutrition profile

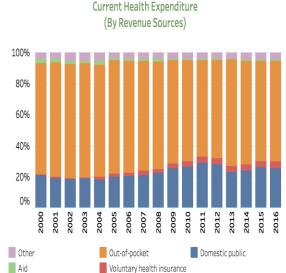
Country profiles aggregate the very latest data on child, adolescent and adult anthropometry and nutritional status, as well as intervention coverage, food supply, nutrition spending and demography.

Country Selected India ▼



Health Expenditure Profile India





How health and well being is poised for a

change

NITI Aayog

Discussion Paper National Strategy for Artificial Intelligence

- Early diagnosis
- Medical research and drug discovery
- Workflow management
- Telehealth
- Blockchain
- VR/ MR
- Robotic care
- 3D printing

Focus areas for AI intervention

Sectoral deep dives

Healthcare

Healthcare is one of the most dynamic, yet challenging, sectors in India, and is expected to grow to USD280 billion by 2020, at a CAGR of upwards of 16%, from the current ~USD100 billion⁹.

Yet, it faces major challenges of quality, accessibility and affordability for a large section of the population:

- a) Shortage of qualified healthcare professionals and services like qualified doctors, nurses, technicians and infrastructure: as evidenced in 0.76 doctors and 2.09 nurses per 1,000 population (as compared to WHO recommendations of 1 doctor and 2.5 nurses per 1,000 population respectively) and 1.3 hospital beds per 1,000 population as compared to WHO recommended 3.5 hospital beds per 1,000 population ¹⁰.
- b) Non-uniform accessibility to healthcare across the country with physical access continuing to be the major barrier to both preventive and curative health services, and glaring disparity between rural and urban India.

Figure 7: Accessibility of Healthcare across India						
Split of population and doctors	Share of cases treated					
Urban 34%	Share of cases treated					
Percentage of	Urban					
population						

How will it impact governance across civil services?

- Reconcile: Poverty, malnutrition, disease with high tech
- Public health-surveillance, mapping
- Self monitoring and health care through wearables,
 Smartphone selfies as diagnostic tools
- Expanding access in underserved regions
- Jobs
- Life spans- demographics
- Ethics of machines
- Doctor patient relationships and placebos

Which sub topics? Volunteers?eventually, a systems way of looking

- Some suggestions:
- Malnutrition- building block of well being
- Supply side changes- health care professionals
- Emerging challenges
- Paradox of Non communicable diseases with poverty



