

COVID-19 in India – Public healthcare matters

- by Vrunda Bansode

Over the last four months as we watched distant countries in the developed world get decimated by the invisible virus, we in India started getting worried. Now we have gone through different phases of the lock-down ourselves as a nation. The number of confirmed infections are rising – slowly on some days raising our collective hopes, furiously fast on other days bringing on collective despair. But the root cause of our panic and precaution lie in the fragility on two fronts – our public healthcare system and our public health itself. How fragile is our public healthcare infrastructure exactly?



* Projected Population

Hospitals and Beds include data from Public Hospitals (Primary Healthcare, Community Healthcare, Sub District/Divisional Hospitals and Distirct Hospitals), Government Hospitals, Defence Hospitals, Railways Hospitals, Employee State Insurance Corporation Hospitals and Ayush Hospitals

Excluding private healthcare facilities, we had 119 hospital beds per lakh population in 2017-18. Government hospitals alone in India had 53 beds per lakh population, the corresponding number for the same time period for Italy and Spain is around 300, and for Japan 1300. We are woefully short of infrastructure, more so in some states.

(This data can be freely accessed here : <u>https://www.indiadatainsights.com/free-interact/public-healthcare-infrastructure/</u>)



Some of the best ratios of hospital beds per lakh population in India are in small states and union territories :

- 1. Puducherry : 598
- 2. Lakshadweep : 550
- 3. Sikkim : 447

Worryingly the states with the worst beds to population ratios are also the most populous states :

- 1. Bihar : 27
- 2. Jharkhand: 53
- 3. Uttar Pradesh : 68

The other huge risk factor in the current pandemic situation is high density of population in some of these medically under-equipped states – as of Census 2011, UP had 828 inhabitants per square km, Bihar had 1102 and Delhi had 11,297!

Coming to the health of our population, we are marred by widespread malnutrition. Our India Hunger Index, built on the framework of Global Hunger Index, shows the extent of malnutrition:



Level of Malnutrition

Moderate
Serious
Alarming
Very Alarming



(This data can be freely accessed here : <u>https://www.indiadatainsights.com/free-interact/india-hunger-index/</u>)

The population thus disadvantaged by lack of good nourishment also suffers from other diseases known to affect the COVID outcomes. This combination of fragile healthcare system and fragile health of our population makes it imperative that we do all we can to prevent a large-scale COVID outbreak rather than treat and cure.

The following table makes our vulnerabilities clearer:



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India	1,317M	382	5	119	221	5.80	8.80	8.80	13.40	
State/ UT Name	Population 2017*	Density (/km²)(6)	Health Centers Per Lakh Population	All Beds Per Lakh Population	Health Workers per Lakh population	% Women - Blood sugar level - high (>140 mg/dl)	% Men - Blood sugar level - high (>140 mg/dl)	% Women with High Blood Pressure	% Men with High Blood Pressure	Population 2017 * 1.36M 224.56M
Andhra Pradesh	52.38M	308	4	162	405	8.20	9 .80	10.00	16.20	
Assam	34.07M	397	7	114	146	5.20	6.60	16.00	19.60	Population Density (/km²)
Bihar	117.15M	1,102	3	27	20	4.20	6.70	5.90	9.40	0 2,598
Chhattisgarh	28.13M	189	4	87	84					Health Centers Per Lakh Population
Gujarat	63.00M	308	4	124	229	5.80	7.60	9.70	13.00	2.725 9.194
Haryana	27.44M	573	5	102	205	4.80	6.10	9.20	16.80	Beds Per Lakh Population
Jammu & Kashmir	13.48M	124	7	191	30	5.60	6.30	11.60	13.70	26.6 597.7
Jharkhand	36.67M	414	3	53	28	4.90	7.70	7.80	12.20	Health Workers per Lakh population
Karnataka	65.43M	319	9	213	453	6.30	8.40	9.70	15.40	19.7 762.1
Kerala	35.04M	859	8	238	762	8.70	13.10	6.80	9.50	% Women - High Blood sugar level
Madhya Pradesh	80.89M	236	3	86	209	5.10	6.70	7.90	10.90	3.50 8.70
Maharashtra	119.58M	365	3	110	148	5.00	5.90	9.10	15.90	% Men - High Blood sugar level
Odisha	44.91M	269	8	81	316	7.30	10.70	9.00	12.50	5.70 13.10
Puducherry	1.36M	2,598	5	598	52	7.30	7.50	9.10	15.10	% Women with High Blood Pressure
Punjab	29.34M	550	5	120	358	6.10	6.70	13.20	21.80	5.90 16.00
Rajasthan	76.80M	201	5	114	426	3.50	5.70	6.90	12.40	% Men with High Blood Pressure
Tamil Nadu	75.84M	555	5	204	426	7.10	9.70	8.30	15.50	9.40 21.80
Telangana	38.04M	0	5	107		6.80	6.00	10.10	18.20	
Uttar Pradesh	224.56M	828	5	68	53	5.00	7.10	7.60	10.10	
West Bengal	96.78M	1,029	4	141	141	7.40	11.40	10.30	12.40	

State of Public Health and Healthcare in India - Large States

Note:

Hospitals and Beds include data from Public Hospitals (Primary Healthcare, Community Healthcare, Sub District/Divisional Hospitals and Distirct Hospitals), Government Hospitals, Defence Hospitals, Railways Hospitals, Employee State Insurance Corporation Hospitals and Ayush Hospitals

Heath workers: Governmental Physicians, Nurses and Midwives

High Blood Pressure - Systolic > 140 mm of Hg and/or Diastolic > 90 mm of Hg

Data: Health Center and Beds data as of July 2018. Population -2017, Healthcare Workers, Blood Sugar and Blood Pressure - 2015-16

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State/UT Name 201 Andaman & Nicobar Isl Andhra Pradesh Arunachal Pradesh S Chandigarh Dadra & Nagar Haveli Daman & Diu S	52.38M 30	7 28 2 5	All Beds Per Lakh Population 327 162 327 422	Health Workers per Lakh population 16 405 127	% Women - Blood sugar level - high (>140 mg/dl) 8.20	% Men - Blood sugar level - high (>140 mg/dl) 9.80	% Women with High Blood Pressure 10.00	% Men with High Blood Pressure 16.20	Population 2017 * 0.07M 52.3
Andhra Pradesh S Arunachal Pradesh Chandigarh Dadra & Nagar Haveli Daman & Diu	52.38M 30 1.51M : 1.11M 9,25	8 4 7 28 2 5	162 327	405		9.80	10.00	16 20	
Arunachal Pradesh Chandigarh Dadra & Nagar Haveli Daman & Diu	1.51M 1 1.11M 9,25	7 28 2 5	327			9.80	10.00	16.30	
Chandigarh Dadra & Nagar Haveli Daman & Diu	1.11M 9,25	2 5		127			10.00	10.20	Population Density (/km²)
Dadra & Nagar Haveli Daman & Diu			422		4.80	7.60	15.00	21.60	17 11,2
Daman & Diu	0.37M 69	o		10	5.60	6.90	9.30	13.50	Health Centers Per Lakh Populatio
		8 3	152	30					3.48 27
	0.22M 2,10	9 6	248	22					
Delhi 1	18.11M 11,29	7 4	270	344	7.60		7.60	4.20	Beds Per Lakh Population
Goa	1.52M 39	4 6	396	42	8.90	12.30	8.50	13.20	137.0 55
Himachal Pradesh	7.25M 12	3 21	313	434	5.90	6.80	12.10	21.90	
Lakshadweep	0.07M 2,01	3 19	550	42	12.00	13.30	10.90	9.90	Health Workers per Lakh populati 10.5
Manipur	2.97M 12	2 5	137	344	7.60	9.30	11.40	20.40	
Meghalaya	3.23M 13	2 11	291	192	4.30	6.40	9.90	10.40	% Women - High Blood sugar leve
Mizoram	1.19M 5	2 15	371	435	8.60	10.30	9.80	17.90	4.30 12
Nagaland	2.16M 11	9 10	196	19	7.20		16.00	23.10	
Sikkim	0.66M 8	6 10	447	37	6.70	8.90	16.50	27.30	% Men - High Blood sugar level 6.40
Tripura	4.00M 35	0 8	235	143	7.70	9.60	12.60	13.60	0.40
Uttarakhand 1	10.96M 18	9 11	170	44	6.10	8.80	9.60	17.20	% Women with High Blood Pressu

State of Public Health and Healthcare in India - Small States

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High Blood Pressure - Systolic > 140 mm of Hg and/or Diastolic > 90 mm of Hg..

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Coronavirus has proven to be a great equaliser in some ways. Everyone is prone to infection and protecting only a few is of no consequence- universal protection and healthcare is the only way to control the pandemic. The need for a robust public healthcare system has never been more pressing. Hopefully, we will remember these lessons and invest in building resilient systems and infrastructure at the earliest.

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Powered by data from India Data Insights. Sattva Consulting has made all COVID-related data resources freely accessible here : <u>https://www.indiadatainsights.com/theme/covid-19/</u>)

We'd love to hear your thoughts and feedback on this topic. Do write to us: impact@sattva.co.in

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