



# THE INDIA HEALTH INFORMATICS PROJECT

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**REPORT I: Health Data sources for Country,  
State & District wise health figures**

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# The India Healthcare Informatics Project

## Democratizing Health Informatics in India

If you work in healthcare, you would know how difficult it is to source reliable data. Whether you're a student working on a project or a thesis, or a clinician or a researcher working on a manuscript or even a Marketer or industry professional exploring market opportunities. This is a problem we have faced inextricably over the years. Data in India exists in silos across the web and tends to get lost in clunky websites making it close to impossible to dig out. My objective is to put together these various databases and create a centralized go-to healthcare repository. This is the first of a series of documents. In essence, I hope to socialise the platforms we have used for secondary research in the past, in the hope that it eases the access to data for anyone working in healthcare. I hope to make these living document and keep updating it basis crowdsourced inputs from those working in healthcare.

Please keep me posted if you have feedback or data sources that you use on a regular basis!



### About The Author

Rohan D'Souza is a clinician trained at St. John's National Academy of Health Sciences, Bangalore. He has encapsulated experiences across healthcare in Clinical Medicine, Unmet Need Research, Pharmaceuticals, Medical Devices, InsureTech and Health Policy with organizations such as Pfizer, The Lemelson Foundation and InnAccel Technologies, Fedo.AI and YLAC. He is the co-Founder of Medtive. He nurtures an ambition to integrate these experiences and transform healthcare by enabling access to value-based care,

at the intersection of Medicine and Technology in India. He is an incoming dual degree candidate, MBA & Masters in Public Health, at the UC Berkeley Haas School of Business and Berkeley School of Public Health (2019-2021).

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## Executive Summary

The period between 2017 and 2019 was the epoch of ‘secondary research’! During this phase, I worked on two extremely data-heavy projects. The first was as a Research Fellow at the Affordable Inventions in MedTech Research Fellowship. A multidisciplinary team (clinicians, PhDs, engineers, designers) curated a comprehensive database of unmet MedTech needs in India. The 24-month research project meant dissecting healthcare delivery across nine states, 40+ health centres (primary, secondary & tertiary). This was followed by intense secondary research to filter and prioritise the unmet needs based on epidemiology, criticality, technical complexity, regulatory complexity, accessible patient pool, buyer environment and competitor analysis. It was then that I truly understood the value of healthcare data in India. In many cases, we reached an information injunction and had to use assumptions and approximations to proceed. The database now published on [medtechinnovation.in](http://medtechinnovation.in) to foster affordable, indigenous innovation.

The second occasion was as a Policy in Action Fellow with Young Leaders for Active Citizenship where a multidisciplinary team spent four weeks assessing the effectiveness of government interventions from 2014-2019 and identify gaps in the system to offer policy recommendations to the AAP Government to improve health outcomes in Delhi NCT. This again was an unmitigated disaster with more grey areas in healthcare data than expected despite Delhi being the capital of the country.

This project hopes to partially address this gap by increasing awareness of healthcare data sets across the country.

This document is the first attempts to put together a set of data sources which contain Country-wide data as well as state and district-specific data. Health parameters you will find in these portals include vital statistics, demographic data, healthcare infrastructure data, maternal and child health metrics, human resource related figures, epidemiological data, and mortality data etc. These are sourced from Government department websites (Ministry of Health and Family Welfare, Ministry of Statistics and Programme Implementation, Census of India, Indian Council of Medical Research), Think tanks (Niti Aayog, Brookings), International Organizations (WHO).

I do hope this resource eases your pain when it comes to searching for healthcare data in India!

- **Dr. Rohan D’Souza**

Data Set	Data Type	Geographic Coverage	Source & Link
District wise health parameters	Demographics, health infrastructure, maternal and child health metrics, (education, water etc.)	All states	<a href="#">Niti Aayog</a>
Health infrastructure	Healthcare infrastructure and human resources in 2005 & 2015	All states	<a href="#">Niti Aayog</a>
Institutional deliveries (2005 to 2016)	Institutional deliveries by state (rural, urban and total)	All states	<a href="#">Niti Aayog</a>
Home Deliveries	Home deliveries by state 2014 to 2016	All states	<a href="#">data.gov</a>
Infant mortality rate	Infant mortality rate by state from 2000 to 2015	All states	<a href="#">Niti Aayog</a>
Neonatal mortality rate	Neonatal mortality rate by state from 2011, 2012, 2013 (rural, urban, total)	All states	<a href="#">Niti Aayog</a>
Birth Rate	Birth rate by state from 2008 to 2016	All states	<a href="#">Niti Aayog</a>
Death Rate by residence	Death rate by residence for 2014, 2015, 2016	All states	<a href="#">Niti Aayog</a>
% of Children Fully Immunised (Ages 12-23 months)	State wise immunization coverage from 2005 to 2016	All states	<a href="#">Niti Aayog</a>
ANC variables	ANC- Institutional and Home Delivery) from 2008-09 and 2012-13	All states	<a href="#">data.gov</a>
Country and State-wise Health Fact Sheets (National Family Health Survey - 4) 2015-16 <b>(One of my favorite data sources)</b>	Demographic data, household data, maternal & child health parameters, chronic diseases, HIV, tobacco consumption etc	All states	<a href="#">Ministry of Health and Family Welfare</a>
District Level Household Survey 2012-13	State wise reports on healthcare facilities, demographic and MCH indicators, Sexually transmitted diseases, anemia, nutrition status	All states	<a href="#">DLHS-4</a>
State wise Health assessment – ‘Healthy States Progressive India’ <b>(One of my favorite data sources)</b>	Public Health parameters to compare and rank states and UTs across various criteria. Excellent for a holistic view of state healthcare systems	All states	<a href="#">Niti Aayog</a>

Disease burden state wise	Multiple data points	All states	<a href="#">ICMR</a>
National Family Health Survey (NFHS-4) 2015-16	Multiple data points by household: Maternal and child health, women empowerment, domestic violence, HIV, TB, alcohol consumption, nutrition status Insurance coverage and utilization	All states	<a href="#">Ministry of Health and Family Welfare</a>
Medical and Dental Professionals by state (National)	Human Resources by state	All states	<a href="#">Ministry of Statistics and Programme Implementation</a>
AYUSH Professionals by state	Human Resources by state	All states	<a href="#">Ministry of Statistics and Programme Implementation</a>
Nurses and Midwives by state	Human Resources by state	All states	<a href="#">Ministry of Statistics and Programme Implementation</a>
AYUSH Colleges by state	Educational infrastructure	All states	<a href="#">Ministry of Statistics and Programme Implementation</a>
National Family Health Statistics	Multiple data points	All states	<a href="#">National Family Health Survey</a>
District Fact Sheets	Maternal and Child Health	All states	<a href="#">National Health Mission</a>
Demographic data and vital statistics ( Birth rate, Death rate, Natural growth rate and Infant mortality rate)	Maternal and Child Health	All states	<a href="#">Health Management Information System</a>
Population data	General Statistics	All states	<a href="#">Health Management Information System</a>
List of Medical Colleges (MBBS)	Educational infrastructure	All states	<a href="#">MCI</a>
List of Medical Colleges (Post graduation)	Educational infrastructure	All states	<a href="#">MCI</a>
Public Health Infrastructure	Healthcare infrastructure and facilities	All states	<a href="#">Brookings</a>

Maternal Health Indices	Maternal and Child Health	All states	<a href="#">Brookings</a>
Health indices by Brookings India	Multiple data points on chronic diseases, maternal health etc. by state	All states	<a href="#">Brookings</a>
Disease specific epidemiology (Cancer, Asthma, Diabetes, Asthma, Heart disease)	Multiple data points including state wise burden and indices	All states	<a href="#">Brookings</a>
State Healthcare facilities 2018-2019	Healthcare infrastructure	Andaman & Nicobar	<a href="#">Health Management Information System</a>
State Healthcare facilities 2018-2019	Healthcare infrastructure	Andhra Pradesh	<a href="#">Health Management Information System</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Andhra Pradesh	<a href="#">ICMR</a>
Integrated Disease Surveillance Project	Non-communicable disease burden and risk factors (behavioral risk factors, hypertension, diabetes, burden, anthropometrics)	Andhra Pradesh	<a href="#">Ministry of Health and Family Welfare</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Arunachal Pradesh	<a href="#">ICMR</a>
State Healthcare facilities 2018-2019	Healthcare infrastructure	Arunachal Pradesh	<a href="#">Health Management Information System</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Assam	<a href="#">ICMR</a>
State Healthcare facilities 2018-2019	Healthcare infrastructure	Assam	<a href="#">Health Management Information System</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Bihar	<a href="#">ICMR</a>

State Healthcare facilities 2018-2019	Healthcare infrastructure	Bihar	<a href="#">Health Management Information System</a>
State Healthcare facilities 2018-2019	Healthcare infrastructure	Chandigarh	<a href="#">Health Management Information System</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Chattisgarh	<a href="#">ICMR</a>
State Healthcare facilities 2018-2019	Healthcare infrastructure	Chattisgarh	<a href="#">Health Management Information System</a>
Health in India - An Overview	Multiple data points	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>
Basic quantitative information on the health sector	Multiple data points	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>
PHCs in Tribal Areas	Tribal health	Country level	<a href="#">data.gov</a>
Rural Health Statistics 2017	Rural health	Country level	<a href="#">data.gov</a>
Country parameters WHO	Multiple data points	Country level	<a href="#">WHO</a>
Vital Statistics Annually	Mortality data	Country level	<a href="#">Civil Registration System</a>
Medical Certification on Cause of Death	Mortality data	Country level	<a href="#">Civil Registration System</a>
Publication on various determinants of healthcare ( <b>NOTE:</b> Relatively old publications but a treasure trove of data)	Health insurance statistics, Health maps, Key health indicators, mortality data, EPI performance, FDA data, Poverty, Public health statistics, Road safety data etc. etc.	Country level	<a href="#">Central Bureau of Health Intelligence</a>
National Health Profile 2018 ( <b>One of my favorite resources!</b> )	Demographic Indicators, Socio-Economic Indicators, Health Status Indicators, Health Finance Indicators Health Human Resource, Health Infrastructure	Country Level	<a href="#">Central Bureau of Health Intelligence</a>

Mortality Statistics India	Mortality data	Country level	<a href="#">Sample Registration System (Census of India)</a>
Annual Health Survey	Multiple data points	Country level	<a href="#">Census of India</a>
Collection of various health parameter reports across India	Multiple data points	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>
Manual on Health Statistics in India	Multiple data points	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>
Annual Reports by NIMS from 2003 to 2013	Multiple data points ( <b>NOTE:</b> scroll down the PDF beyond the events section to see the studies conducted and related health statistics)	Country level	<a href="#">National Institute of Medical Statistics</a>
Various Health Publications supported by NIE	Multiple publications supported by NIE on hypertension, CKD, HIV, metabolic syndrome, diabetes and many more	Country level	<a href="#">National Institute of Epidemiology</a>
Allopathic Hospitals, dispensaries & beds	Healthcare infrastructure	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>
Hospitals and Bed strength under AYUSH	Healthcare infrastructure	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>
Mental Health Infrastructure	Healthcare infrastructure	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>
AYUSH Dispensaries	Healthcare infrastructure	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>
CGHS beneficiaries by year	Public insurance	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>



Rural Health infrastructure by state (PHC, CHC, DH)	Healthcare infrastructure	Country level	<a href="#">Ministry of Statistics and Programme Implementation</a>
Healthcare facilities in India (2018-2019)	Healthcare infrastructure	Country level	<a href="#">Health Management Information System</a>
Maternal Mortality Rate Bulletin	Maternal and Child Health	Country level	<a href="#">Health Management Information System</a>
State Healthcare facilities 2018-2019	Healthcare infrastructure	Dadra and Nagar Haveli	<a href="#">Health Management Information System</a>
State Healthcare facilities 2018-2019	Healthcare infrastructure	Daman and Diu	<a href="#">Health Management Information System</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Delhi NCT	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Goa	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Gujarat	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Haryana	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Himachal Pradesh	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Jammu and Kashmir	<a href="#">ICMR</a>

State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Jharkhand	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Karnataka	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Kerala	<a href="#">ICMR</a>
Integrated Disease Surveillance Project	Non-communicable disease burden and risk factors (behavioral risk factors, hypertension, diabetes, burden, anthropometrics)	Kerala	<a href="#">Ministry of Health and Family Welfare</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Madhya Pradesh	<a href="#">ICMR</a>
Integrated Disease Surveillance Project	Multiple data points	Madhya Pradesh	<a href="#">Ministry of Health and Family Welfare</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Maharashtra	<a href="#">ICMR</a>
Integrated Disease Surveillance Project	Non-communicable disease burden and risk factors (behavioral risk factors, hypertension, diabetes, burden, anthropometrics)	Maharashtra	<a href="#">Ministry of Health and Family Welfare</a>
District-wise Key Indicators of NFHS-4 for Maharashtra	Multiple data points	Maharashtra	<a href="#">data.gov</a>
Healthcare institute performances	Multiple data points	Maharashtra	<a href="#">data.gov</a>
HMIS district level item wise and month wise comparison of various indicators of Maharashtra		Maharashtra	<a href="#">data.gov</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Manipur	<a href="#">ICMR</a>

State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Meghalaya	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Mizoram	<a href="#">ICMR</a>
Integrated Disease Surveillance Project	Non-communicable disease burden and risk factors (behavioral risk factors, hypertension, diabetes, burden, anthropometrics)	Mizoram	<a href="#">Ministry of Health and Family Welfare</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Nagaland	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Odisha	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Punjab	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Rajasthan	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Sikkim	<a href="#">ICMR</a>
Health infrastructure Sikkim	Healthcare infrastructure	Sikkim	<a href="#">data.gov</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Tamil Nadu	<a href="#">ICMR</a>
Integrated Disease Surveillance Project	Non-communicable disease burden and risk factors (behavioral risk factors, hypertension, diabetes, burden, anthropometrics)	Tamil Nadu	<a href="#">Ministry of Health and Family Welfare</a>

State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Telangana	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Tripura	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Uttar Pradesh	<a href="#">ICMR</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	Uttarakhand	<a href="#">ICMR</a>
Integrated Disease Surveillance Project	Non-communicable disease burden and risk factors (behavioral risk factors, hypertension, diabetes, burden, anthropometrics)	Uttarakhand	<a href="#">Ministry of Health and Family Welfare</a>
State Disease burden profile from 1990 to 2016	Mortality rates, Top 10 causes of death, total disease burden, DALYs by age group,	West Bengal	<a href="#">ICMR</a>
More Data than you can imagine!! (by state, by programme, by disease)	Multiple reports, tables, etc!!	Multiple states	<a href="#">HMIS</a>
Causes of neonatal and child mortality in India	A nationally representative mortality survey	Country level	<a href="#">Lancet</a>
Report on Tertiary Care Institutes for the 12 <sup>th</sup> Five Year Plan (20122017)	Human resources, IT, capacity enhancement planning and vision	Country level	<a href="#">Planning Commission</a>