

Health Insurance Coverage in India

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Abstract	The chapter focuses on health insurance coverage with the help of NFHS-5 estimates. The analysis shows an increase in health insurance coverage to 41% of households, indicating the influence of the Ayushman Bharat Pradhan Mantri Jan Arogya Yojana scheme, especially in northeastern India. The study highlights variations in coverage at geographic levels and emphasizes the importance of government-led programs for achieving excellent coverage. It also mentions that states like Haryana, Maharashtra, and Punjab, where private insurers and Third-Party Administrators are involved, have not met expectations. The uneven development of the private health insurance sector and the relative failure of government-sponsored schemes in northern India are attributed as possible reasons. The author emphasizes the need to bridge the gap between national objectives and local health systems to ensure the success of AB-PMJAY. Monitoring the scheme's usage, impact on out-of-pocket expenses, and health outcomes is crucial for assessment.	

Chapter 17 Health Insurance Coverage in India

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For the past 20 years, India has led an ambitious policy promoting health insurance. 4 At the national and state levels, programs have multiplied to improve the protection 5 and coverage of the population concerning health expenses. At the turn of the 2000s, 6 the level of out-of-pocket payment was exceptionally high in India, with 74% of the 7 total health expenditures according to WHO (2022) and 32.5 million persons falling 8 below the poverty line in 1999-2000 because of health expenses (Garg & Karan, 9 2009). The development of health insurance programs targeting the most economically vulnerable groups was seen in India as a priority to meet the Millennium 11 Development Goals (MDGs) and to encourage the development of Universal Health 12 Coverage (UHC). This policy, which materialized in 2008 with the launch of the 13 Rashtriya Swasthya Bima Yojana (RSBY), was not India's first attempt to develop 14 health insurance and social protection. Since the creation of the Employees' State 15 Insurance (ESI) in 1952 and the Central Government Health Scheme (CGHS) in 16 1954, the central government has aimed to develop social and health protection for 17 its citizens. At the time, these programs were seen as the first steps before an 18 extension to the entire population (Jeffery, 1988). Later, in the 1980s, 19 Community-Based Health Insurance schemes (CBHI) were created to provide better 20 protection for the rural population and the poor (Devadasan et al., 2004).

The 1980s and 1990s were also marked by the insurance sector's liberalization 22 and new private players' arrival (Purohit, 2001). By the mid-2000s, only 5% of 23 households were covered by health insurance (NFHS 3). The low penetration of 24 health insurance at that time could be explained by a lack of financial support from 25 the government, the substantial weight of the informal sector, and the difficulty in 26 developing a regulatory and legislative framework for integrating a fragmented care 27 system (patients, health services). In the 2000s, the development of 28

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government-sponsored health insurance schemes (GSHIS) was seen as the best way to meet the threefold challenge posed by the Indian health system: improving access to care for the most economically marginalized patients, offering a wide range of accessible care by reaching to the private health sector, and pooling financial resources to ensure the budgetary sustainability of the system (La Forgia & Nagpal, 2012). Today, the NITI Aayog estimates that a health insurance program covers nearly 70% of the population, with 700 million individuals covered by the Ayushman Bharat—Pradhan Mantri Jan Arogya Yojana (AB-PMJAY) and state government extension schemes (Sarwal & Kumar, 2021).

Questions remain about the actual expansion of health insurance coverage in the population, while programs have multiplied at the national level (RSBY, AB-PMJAY) or the state level. Moreover, the growth of government-sponsored programs has not coincided with the same resources or model across India. The NFHS-5 data make it possible to shed some light on the persistent inequalities in the health insurance coverage of the population. They also make it possible to review the sometimes complex trajectories of these national and local programs between complementarity and competition.

Data Source and Methods

The NFHS has been measuring household health insurance coverage since 2005–06. This period was critical as new health insurance programs were being unrolled in India (launch in 2003 of the Yeshavini scheme in Karnataka and of the Universal Health Insurance Scheme) and when governments at the local and national levels initiated plans for ambitious health insurance programs to fight poverty and improve social protection. In addition, Universal Health Coverage was also gaining momentum in global health policies as health insurance programs were being introduced in different regions of the world with promising results (like the 30-Baht scheme in Thailand in 2002).

The information collected in the NFHS questionnaires concerns the presence of a member covered by health insurance and the type of insurance used (NFHS-3 questions 64–65, NFHS-4 questions 54–55, NFHS-5 questions 71–72). The health insurance categories presented in the NFHS cover most national programs (ESIS, CGHS) and increase from 7 to 9 categories, starting with NFHS-4 (2015–16) by incorporating the RSBY and the State Health Insurance Scheme. These different categories highlight the diversity of existing programs and the sector's fragmentation between private health insurance, direct employer reimbursements, subsidized programs, and community-based programs.

There is no data on the actual use of these insurance programs in the NFHS surveys, while questions are asked about the use of and access to health services or

¹The original NFHS dataset and the spatial analysis methodology are described in detail in Chap. 1.

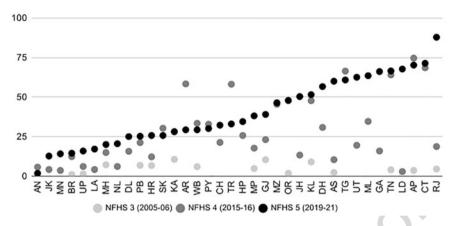


Fig. 17.1 Percentage of households covered by health insurance by state in 2005–21 Source: NFHS 3, NFHS 4, NFHS 5

other public health programs. It should also be noted that it is difficult to compare 67 results from different surveys for each state because of changes in the sampling 68 design in some small states. The recent roll-out of the AB-PMJAY at the time of the 69 NFHS-5 surveys (2019–21) might not have been adequately accounted for in some 70 states. Finally, the health insurance questions are at the household level, not the 71 individual level, preventing a more refined analysis of the coverage inequalities 72 among the population.

Results 74

At the national level, the latest NFHS-5 results confirm the rise of health insurance in 75 Indian households. From 29% in 2015–16 (NFHS-4), the share of households with at 76 least one member covered by health insurance has now climbed to 41%. Between the 77 NFHS-3 and NFHS-5, the share of households covered by health insurance 78 increased eight-fold nationally. However, there are gaps between rural (42%) and 79 urban (38%) households or between males (30%) and females (33%) aged 15–49 in 80 terms of health insurance coverage. The bottom income quintile remains with the 81 lowest proportion of households covered by health insurance (36.1%), but the 82 increase between NFHS-4 and NFHS-5 was more significant in this quintile than 83 in other income groups (+14.5 pt. vs. 12.3 pt.). A similar catch-up can be observed 84 over this period for the Scheduled Tribes households (+16 pt.), which now have the 85 highest coverage level (46.8%) compared to other groups (SC, OBC, Others).

However, this significant increase over the past 15 years appears to have partly 87 stalled between the NFHS-4 and NFHS-5 rounds. Estimates of health insurance 88 coverage point to diverging regional trajectories, ranging from sustained growth to 89 stagnation or even decline (Fig. 17.1). The impact of NFHS sample size must be 90

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considered, especially in small states. The sharp decline in household coverage 91 between NFHS-4 and NFHS-5 (-33 pt.) in Tripura state is partly explained by the 92 creation of eight new districts and its effect on district-level sample size in this state 93 (IIPS and IFC, 2021). In Arunachal Pradesh (-29 pt.), the local government-94 sponsored health insurance scheme (APCMUHIS), launched in 2014, was 95 discontinued at the end of 2016 because of administrative and funding difficulties. 96 It was not until late 2018, a few months before the start of NFHS-5 surveys in 97 Arunachal Pradesh, that a new AB-PMJAY-supported scheme re-emerged for 98 households in the state. 99

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In several Southern states, such as Andhra Pradesh (70.2%), Telangana (60.8%), and Tamil Nadu (66.5%), the already high level of household coverage recorded during the NFHS-4 stagnated or fell back a few points in NFHS-5. Several large states, such as Maharashtra (20%), Karnataka (28.1%), and West Bengal (29.3%), have experienced no significant changes, and their coverage rates remain below the national average. The same observation applies to the heavily populated and poorer states of Bihar (14.5%) and Uttar Pradesh (15.9%), where the proportion of households covered by health insurance remains well below the national average. Other states in the north and south stand out for their robust increase in household coverage between NFHS-4 and NFHS-5. Rajasthan, Goa, Uttarakhand, and Assam present spectacular gains of over 40 points in five years.

Only 318 of 707 districts have values above the mean (42.5%, Median 38.7%). 111 The standard deviation (0.239) and coefficient of variation (0.562) indicate signif-112 icant differences at the district level. Mapping the share of households with at least one member covered by health insurance by district gives us an even clearer picture of the importance of considering the state level (Fig. 17.2). Along with the analysis of the distribution of values (Fig. 17.3), the district map helps distinguish several 116 broad regional clusters. The high value of Moran's I index (0.737) suggests a solid spatial autocorrelation. The distribution of High-High clusters (hot spots) and 118 Low-Low clusters (cold spots) broadly follows state boundaries. Tamil Nadu, 119 Andhra Pradesh, Telangana, and Chhattisgarh districts stand out for having a share of households covered by health insurance ([51–90%]) distinctly above the national 121 mean and median. Local government-sponsored health insurance schemes cover 122 123 more than 70% of insured households in these states. Launched over 15 years ago, programs such as the Aarogyasri Health Insurance Scheme in Andhra Pradesh or the 124 Chief Minister's Comprehensive Health Insurance Scheme (CMCHIS) in Tamil Nadu have allowed optimal coverage of the population and the territory. The 126 neighboring districts of Kerala, Odisha, and Jharkhand also have household cover-127 128 age rates higher than the national average but to a lesser degree ([35–70%]). Over 70% of insured households in these states are covered by national health insurance 129 schemes (RSBY or AB-PMJAY). Three other High-High clusters have emerged between the NFHS-4 and the NFHS-5 in Rajasthan, Uttarakhand, and Northeast 131 India (Assam, Meghalaya), again driven by local or national expansion of govern-132 133 ment health insurance programs that cover more than 70% of insured households. The gap with neighboring states in northern India is particularly notable.

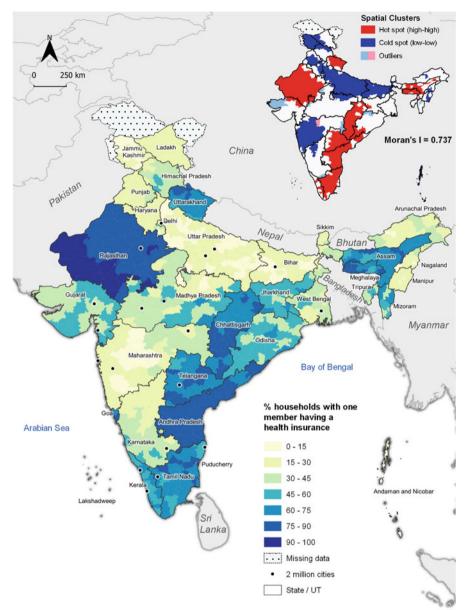


Fig. 17.2 Percentage of households with at least one member enrolled in health insurance Source: NFHS-5 2019–21. May by CZ Guilmoto

A large Low-Low cluster is emerging from Jammu and Kashmir through Punjab, 135 Haryana, Delhi, and Uttar Pradesh to Bihar. No district in this vast cluster reaches the 136 national average ([5–38%]). Thirty-nine of India's 50 worst-performing districts are 137

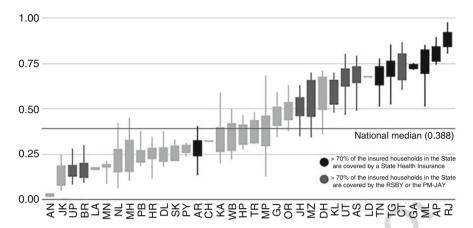


Fig. 17.3 Boxplot of health insurance coverage by district and by state Source: NFHS 5

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located in these states. While household coverage with health insurance is improving 138 compared to NFHS-4 results, the gains remain small (+2.2 pt. in Bihar, +4 pt. in Punjab, +8.5 pt. in Jammu and Kashmir, +9.8 pt. in Uttar Pradesh), even lower than 140 the national increase (+12 pt.). There is no catch-up effect with the rest of the 141 country. The poor results obtained by states such as Bihar and Uttar Pradesh are 142 particularly worrying and show how far India still has to go regarding health and 143 social protection. In these two states, most insured households (88.1% in Bihar and 144 145 85.4% in Uttar Pradesh) are covered by national programs (RSBY, AB-PMJAY). Local government programs are virtually absent in both states (less than 2% of 146 insured households). While some states, such as Assam, Chhattisgarh, and Kerala, 147 have been able to support a large-scale roll-out of the national health insurance 148 scheme at the local level, there is no similar effect in Bihar and Uttar Pradesh. In 149 150 several states like Madhya Pradesh and Himachal Pradesh, the move from the RSBY to the AB-PMJAY scheme was ongoing during the NFHS-5 survey. Nevertheless, 151 the real impact of such a transition on the overall enrollment of households into health insurance schemes could not be fully assessed. 153

Finally, the particular position of the districts of Maharashtra and, to a lesser extent, of Karnataka should be noted. In contrast to other neighboring states in the south or west of India, the share of households covered by health insurance remains below the national average for most of these districts ([10–59%]). At the time of the NFHS-3 in 2005–06, these states occupied two of the top three spots regarding household health insurance coverage, albeit at low levels (<10% of the households surveyed). In addition, Karnataka supported the development of the Yeshasvini health insurance scheme targeted at informal sector workers. The progress of health coverage in Karnataka and Maharashtra remains below the national trend, while the registration of households living below the poverty line is high in both states.

Discussion and Conclusion

The NFHS-5 data comes at a pivotal time for health insurance coverage in India with 165 the launch of the AB-PMJAY in 2018. It may have come too early to measure the 166 real impact of AB-PMJAY on household health insurance coverage, especially for 167 specific regions in northern India. Based on available results, AB-PMJAY seems to 168 have boosted some small states, especially in northeastern India. As highlighted by 169 some in-depth analysis of the NFHS-4 results (Khan et al., 2021), variations in health 170 insurance coverage can be attributed to specific geographic level effects (State, 171 District, communities) even after adjusting for household demographic and socioeconomic differences. The excellent performance of the southern states shows that 173 solid political stewardship coupled with government-led programs can help achieve 174 excellent health insurance coverage results. In states such as Haryana, Maharashtra, 175 and Punjab, where household registration and outreach activities have been left to 176 private insurers and Third Party Administrators (TPAs), health insurance coverage 177 has remained below expectations (Khetrapal & Acharya, 2019; Thakur, 2016; Wagle 178 & Shah, 2017).

The uneven development of the private health insurance sector across India might 180 also explain why the RSBY and other government-sponsored schemes that relied 181 heavily on the involvement of private partners have failed in several parts of northern 182 India. For example, in Kerala, the RSBY has been designed to cover more households beyond BPL ones and to support the redevelopment of public hospitals by bringing more revenues to them and improving the quality of medical care (Palacios et al., 2011). Bridging the gap between national objectives and local health systems realities will be essential for AB-PMJAY's success. Beyond improving household 187 health insurance coverage, monitoring the scheme's usage and impact on OOPs and 188 health outcomes will be essential to assess the AB-PMJAY. Based on the study of 189 state-sponsored health insurance schemes in India, there is a lack of evidence that 190 these schemes make a difference in improving access to health services or offering 191 financial protection (Prinja et al., 2019; Garg et al., 2020).

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