

Growth, determinants and spatial distribution of Health Insurance/Schemes in India (2005-2016) Mohit Kumar Pandey International Institute for Population Sciences Mohitpandeybhadohi94@gmail.com

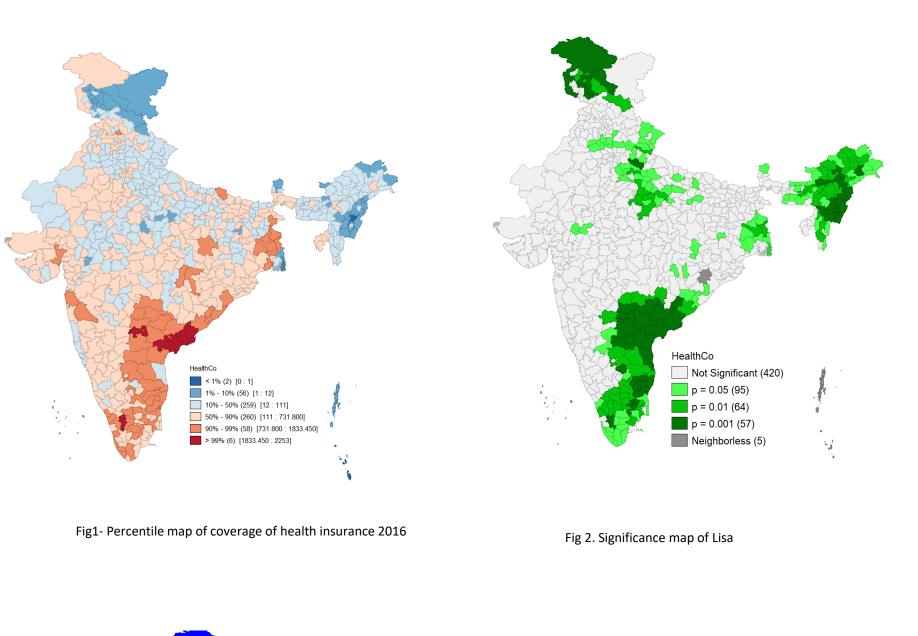


Abstract

an essential constituent of human Health is resource development. Good health is the real wealth of society. Health insurance is a method to finance healthcare. Our study examined the change health insurance/scheme coverage by NFHS-3 to NFHS-4 by background characteristics also determine the distribution partial and autocorrelation of health insurance coverage across districts in India by NFHS-4. In this study, univariate, bivariate, and multivariate analyses(binary logistic regression) have been carried out. Maps have been prepared using Geoda to show the district wise coverage and spatial autocorrelation. The health insurance coverage has increased from NFHS-3 (4.9) to NFHS-4 (28.7). The highest change coverage of health insurance according to NFHS-3 to NFHS-4 Andhra Pradesh (3.6 to 74.6), Chhattisgarh (3.3 to 68.5) and lowest Manipur (6.7 to 3.6) and Jammu Kashmir (5.2 to 4.2). However, The coverage has increased in health insurance in the rural area (2.23) to 28.92) is greater than the urban area (10.41 to 28.21). Moran's I Indicates the high degree of spatial autocorrelation of health insurance.

Methods and Materials

NFHS is a large scale, a multi-round survey conducted in a representative sample of household throughout India. Data for NFHS round 4 was collected in the year 2015-16 in all the 29 states and seven union territories of India. Dependent variable is health insurance, which was binary. In independent variable age, sex, place of residence, region, wealth index, religion, caste. Bivariate analysis was also used for understanding the socioeconomic as well as demographic differentials in the coverage of health insurance. Bivariate analysis was also used for understanding the socioeconomic as well as demographic differentials in the coverage of health insurance. Multivariate analysis in the form of binary logistic regression has been carried out to determine the effect of various predictors on health insurance. The results are presented in the form of Odds Ratio (OR). The calculations were adjusted by using appropriate weighs wherever required. Moran's i is a measure of spatial autocorrelation. Spatial autocorrelation indicates the degree to which data points are similar or dissimilar to their spatial neighbours.

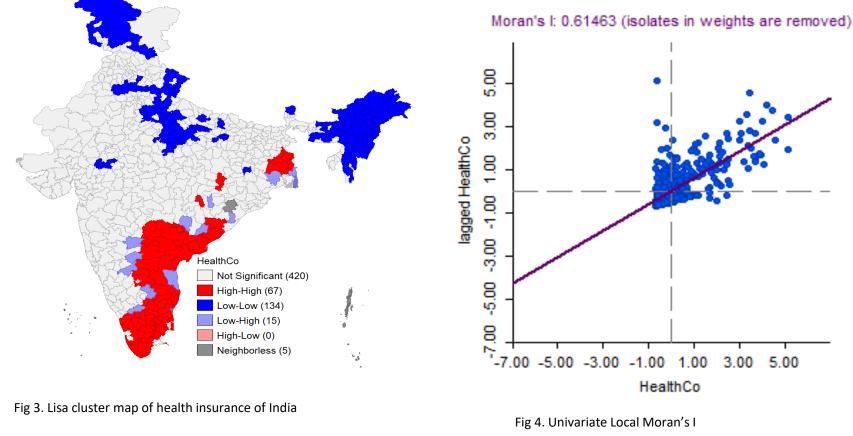


Introduction

Health is an essential constituent of human resource development. Good health is the real wealth of society. Health insurance is a method to finance healthcare. The reduction or elimination of the uncertain risk of loss for the individual or household by combining a small or large number of similarly exposed individuals or households who are included in a common fund that makes functional the loss caused to anyone member (ILO-1996).). The increase in health insurance is possibly due to some state and central government-funded health insurance schemes initiated in the last decade (

Results

The health insurance coverage has increased from NFHS-3 (4.9) to NFHS-4 (28.7). The coverage has increased in health insurance in the rural area (2.23) to 28.92) is greater than the urban area (10.41 to 28.21). In religion, Increase of health insurance highest in Christian (7.27 to 44.58) and the decrease in JAIN (23.69 to 22.65). In caste, in every caste health insurance have increased maximum increase in Scheduled caste (3.35 to 31.08) and scheduled tribe (2.63 to 30.8). Coverage of health insurance In male and female both have increased but compare to male(5.2 to 28.79) female(2.9 to 28) more increased. Result from logistic regression based on NFHS-4 shown that place of residence, caste, age and region are important determinants of health insurance. The highest change coverage of health insurance according to NFHS-3 to NFHS-4 Andhra Pradesh (3.6 to 74.6), Chhattisgarh (3.3 to 68.5) and lowest Manipur (6.7 to 3.6) and Jammu Kashmir (5.2 to 4.2). The value of univariate Moran's I is 0.61463 a measure of spatial autocorrelation. Moran's I Indicates the high degree of spatial autocorrelation of health insurance.



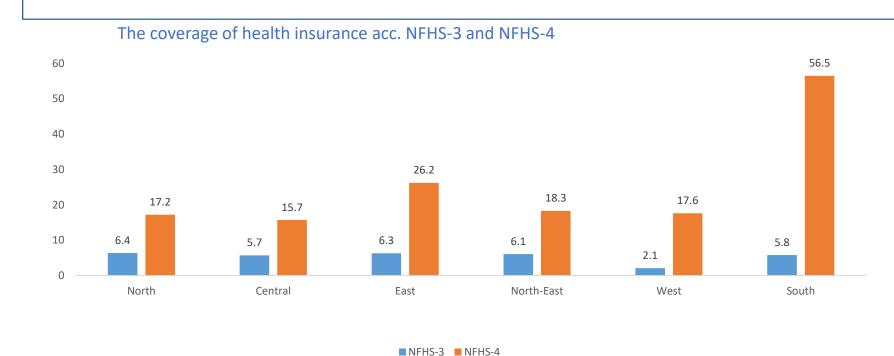
Discussion

The health insurance have increased in significant manner in several states as Andhra Pradesh, Chhattisgarh and decreased in some states as Manipur and Jammu Kashmir. Our study shown that place of residence, caste, age and region are determinants which support other studies. In the wealth quantile, the poorest category has more increase coverage of health insurance. Further, we examined and found that all other health insurance because there decreased had the was implementation of RSBY and State health insurance scheme. Which was for poorer and poorest group of population because of these health insurance increased the coverage in lower quantile group. Further, The study has found that rural population has more health insurance than the urban population.

Selvaraj and Karan 2012). These health insurance are designed in such a manner that they can reduce out-of-pocket expenditure and over the burden of health risk. The probability of catastrophic OOP expenditure reduces by 10 percent if the household head has medical insurance (Rama 2008). The utilization of hospitalization is slightly higher in that group with health insurance, and The insured were less likely to incur out-of-pocket (OOP) expenditure. Who has insurance they have a higher probability of going private health sector? An insured person was less likely to incur OOP expenditure than the uninsured (Nandi et al. 2017) 3 out of 4 impact evaluation studies done in various Indian states show no reduction in catastrophic health expenditures among insured (Rao et al. 2014; aiyar et al. 2013; Selvaraj and Karan 2012). Health insurance is designed to reduce financial hardship. In literature, it has not been clearly found that health insurance helps reduce financial hardship during hospitalization and choose a health care provider. Health insurance is a method to finance healthcare. Our study examined the change health insurance/scheme coverage by NFHS-3 to NFHS-4

Table 3.1 Percentage of households in which at least one usual member is covered by a health scheme or health insurance in NFHS-3 and NFHS-4

	NFHS 3		NFHS 4	
	Percentage of	Number	percentage of	Number
	household	of	household	of
	coverage by	househol	coverage by	household
Covariate	health insurance	ds	health insurance	S
Residence**				
Urban	10.4	3704	28.2	59183
Rural	2.2	1639	28.9	113290
Religion***				
Hindu	5.1	4566	29.8	146164
Muslim	2.1	286	20.0	15129
Christian	7.2	214	44.5	7244
Sikh	6.5	111	20.8	2058
Buddhist	6.5	61	17.8	1026
Jain	23.6	87	22.6	285
Other	3.2	14	17.4	563
Caste***				
SC	3.3	702	31.1	38486
ST	2.6	241	30.8	17072
OBC	3.7	1637	30.4	77416
Other	8	2620	23.7	33447
Don't know	10.9	53	20.02	913
Wealth Inde				
Poorest	0.1	31	21.3	26310
Poorer	0.6	140	28.4	33695
Middle	2.2	485	32.3	38554
Richer	5.0	1083	30.6	36996
Richest	16.4	3602	30.5	36917
Region***				
North	6.4	1165	17.2	13591
Central	5.7	1050	15.7	20720
East	6.3	60	26.2	34443
North-East	6.1	1476	18.3	3870
West	2.1	664	17.6	15613
South	5.8	924	56.5	84223
Sex***				
Male	5.2	4895	28.8	147828
Female	2.9	448	28.0	24645
India	4.9	5342	28.7	172473



Conclusions

Health insurance increase in the southern state is mainly due to State health insurance and other some state due to the implementation of RSBY.In the northern state, especially Uttar Pradesh, Bihar and north-eastern state have low coverage of health insurance that affects their OOP. While we examined different health insurance scheme than we found that all other health insurance had been reduced (except RSBY and SHI) because there was the implementation of RSBY and State health insurance scheme. The government should focus on deprived group of people as old age, poorer section of populations. The policy come out with some strategy which will help to reduce OOPE and distress financing in middle group of populations.

by background characteristics also determine the partial distribution and autocorrelation of health insurance coverage across districts in India by NFHS-4.

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