

OPEN ACCESS

Manuscript ID:
ECO-2024-12027166

Volume: 12

Issue: 2

Month: March

Year: 2024

P-ISSN: 2319-961X

E-ISSN: 2582-0192

Received: 25.01.2024

Accepted: 26.02.2024

Published: 01.03.2024

Citation:

Suresh Kumar, J., and D. Shobana. "A Study on Assessment of Rural Health Care System in India: Schemes and Implications." *Shanlax International Journal of Economics*, vol. 12, no. 2, 2024, pp. 24–34.

DOI:

<https://doi.org/10.34293/economics.v12i2.7166>




This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License

A Study on Assessment of Rural Health Care System in India: Schemes and Implications


J. Suresh Kumar

Associate Professor, Department of Economics
St. Joseph University, Chümoukedima, Nagaland, India

 <https://orcid.org/0000-0002-9659-4813>

D. Shobana

Assistant Professor, Department of Management Studies
St. Joseph University, Chümoukedima, Nagaland, India

 <https://orcid.org/0000-0002-9506-6939>

Abstract

India's rural healthcare system plays a pivotal role in ensuring access to quality healthcare for a significant portion of the population. This study aims to shed light on the state of rural healthcare infrastructure, the effectiveness of government healthcare initiatives, and the far-reaching implications for rural communities. Rural India presents unique healthcare challenges characterized by disparities in healthcare infrastructure, limited access to medical services, and varying health outcomes. The government of India has launched several healthcare schemes and initiatives over the years, such as the National Rural Health Mission (NRHM) and Ayushman Bharat, to address these challenges. Understanding the impact of these schemes and their consequences is essential to inform future healthcare strategies and policies. This study provides a holistic view of the primary healthcare infrastructure in rural India, offering insights into the effectiveness of government schemes and their implications for the health and well-being of rural populations. Its findings serve as a valuable resource for policymakers, stakeholders, and healthcare professionals working toward the improvement of rural healthcare in India.

Keywords: Primary Healthcare, Rural India, Healthcare Infrastructure, Government Schemes, Ayushman Bharat and National Rural Health Mission.

Introduction

The rural health care system in India is a critical component of the country's overall healthcare infrastructure, given that a significant portion of the population resides in rural areas. It plays a pivotal role in ensuring access to healthcare services, particularly for under served and marginalized communities. India, with its vast and diverse landscape, is home to a significant rural population, facing unique healthcare challenges. The provision of adequate and accessible healthcare services in rural areas is not only essential for the well-being of millions but is also integral to achieving broader public health goals.

Components of the Rural Health Care System in India

Sub-Centers: At the grassroots level, rural healthcare begins with sub-centers. These are the first point of contact between the community and the healthcare system. Sub-centers provide basic healthcare services, immunization, maternal and child health services, and health education.

Primary Health Centers (PHCs): PHCs are designed to provide a wider range of healthcare services. Each PHC serves a defined population and offers outpatient services, immunization, maternal and child health care, family planning, and basic diagnostic facilities.

Community Health Centers (CHCs): CHCs are the referral units of PHCs and provide more specialized care, including inpatient services, obstetric care, and basic surgical services. They are typically staffed with medical officers, specialists, and nursing staff.

Health Sub-Centers (HSCs): These are satellite units of PHCs and are aimed at extending the reach of healthcare services to more remote areas. HSCs focus on preventive and basic curative services.

Village Health and Sanitation Committees: These committees are community-based organizations that play a role in healthcare planning, monitoring, and mobilizing community resources for health-related activities.

Background and Rationale

Rural India accounts for a substantial portion of the country's population, and healthcare delivery in these areas is fraught with complexities. The disparities in healthcare infrastructure, the accessibility of services, and the overall health outcomes in rural regions compared to urban areas have long been recognized as a pressing concern. While India has made commendable strides in improving its healthcare systems, the rural-urban divide persists, often leaving rural populations underserved and vulnerable.

Government interventions and schemes have played a pivotal role in attempting to bridge this gap. Initiatives such as the National Rural Health Mission (NRHM) and Ayushman Bharat have been launched with the objective of expanding healthcare coverage and improving the overall health status of rural populations. However, understanding the effectiveness of these schemes, their impact on healthcare infrastructure, and their implications for rural communities requires an in-depth analysis.

Review of Literature

The Indian rural healthcare system has been the focus of much study and policy discussion, which is indicative of the continuous difficulties and initiatives to alleviate healthcare inequalities in remote regions. Past research (Patel et al.; Reddy et al.) has shown how complex these issues are, with issues ranging from poor infrastructure to

restricted access to healthcare services. One of the most important parts of India's plan to enhance rural health outcomes has been the introduction of several healthcare initiatives.

Launched in 2005 to improve service delivery and strengthen healthcare infrastructure in rural areas, the National Rural Health Mission (NRHM) is one noteworthy endeavor (Balarajan et al.). Research indicates that there may still be gaps in the availability and quality of healthcare in rural India, even with these efforts (Gautham et al.). In addition, by encouraging health and wellness facilities in rural regions, the Ayushman Bharat initiative, which was introduced in 2018, brought about major changes to the healthcare landscape. It becomes essential to assess these programmes' efficacy to make well-informed policy decisions.

Studies evaluating the effects of healthcare interventions in rural India have also emphasized the necessity for a complete understanding of socio-economic determinants impacting health outcomes (Subramanian et al.). Furthermore, it has been determined that community involvement and participation are essential components of rural health programmes' effectiveness (Sharma et al.).

A significant section of the population lives in remote and underserved locations, and the rural healthcare system in India is essential in meeting their healthcare needs. The effects of several components of the rural healthcare system on patient outcomes, accessibility, and care quality have been the subject of numerous research.

Launched in 2005, the National Rural Health Mission (NRHM) is a major step forward in improving rural India's healthcare delivery and infrastructure (Bajpai et al.). Assessments of the National Reproductive Health Mission have highlighted advances in mother and child health metrics, highlighting the beneficial effects of focused interventions (Bhat et al.; Mohapatra et al.). However, obstacles including ongoing healthcare worker shortages and inadequate infrastructure continue to prevent the program's goals from being fully realized.

Furthermore, the Pradhan Mantri Jan Arogya Yojana (PM-JAY), which was introduced in 2018, intends to give economically disadvantaged

households health insurance coverage in order to provide financial security (Selvaraj et al.). Although PM-JAY is an admirable attempt to remove financial barriers to healthcare access, its efficacy and influence on health outcomes in rural communities need to be carefully considered.

Additionally, studies show how crucial community health workers-like Accredited Social Health Activists (ASHAs)-are to enhancing the provision of healthcare in remote areas (Scott et al.). Positive health outcomes have been facilitated by ASHAs' crucial role in bridging the gap between communities and official healthcare systems (Bhattacharyya et al.).

Not with standing, certain obstacles continue to exist, such as those concerning care quality, upkeep of health infrastructure, and the requirement for ongoing community involvement (Gautham et al.; Srivastava et al.). The total effect of the Indian rural health care system is shaped by the dynamic interaction of these components.

By thoroughly analyzing the effects of the rural healthcare system and taking into account the wide range of healthcare efforts and their implications for health outcomes in rural India, this study aims to add to the body of existing work.

Statement of the Problem

Evaluating the efficacy of India's rural healthcare systems has gained more attention in recent years, with special attention paid to the many programmes put in place to address healthcare issues in rural regions. Even with the proliferation of health-related initiatives, there is still a lack of knowledge regarding the comprehensive effects and ramifications of these programmes on the healthcare system in rural areas. This study intends to appraise the state of the rural healthcare system in India, examine the implemented projects, and determine their impact on patient outcomes. Through investigating these facets, the study seeks to offer significant perspectives on the merits and demerits of the rural healthcare infrastructure, thereby aiding in the formulation of well-informed policies and tactics aimed at enhancing healthcare provisions in rural India.

Significant of the Study

The study is significant because it has the potential to improve healthcare delivery, guide evidence-based policy decisions, and improve public health outcomes in rural India. The study provides important insights that can direct resource allocation, empower local communities, and serve as a basis for future research and international comparisons, all of which can lead to the improvement of the rural health care system by evaluating the efficacy of current healthcare programmes.

Objectives of the Study

- To investigate the Indian rural health care system.
- To evaluate the many programmes and efforts run by the government to improve healthcare in rural areas.
- To study the challenges of the Indian rural healthcare system.
- To investigate recommendations for enhancing India's rural healthcare system.

Research Methodology

The study looked at the Ministry of Health and Family Welfare's annual report on rural health data for 2021-2022. Based on a thorough review of numerous publications, research articles, policy documents, and comparative statistical data from official websites, secondary data for this study was acquired. The vast majority of the data on the related subject originates from both published and unpublished publications. Furthermore, an examination of the information has been carried out utilizing individual proficiency.

Indian Rural Health Care System

Sub-Centers, Primary Health Centers (PHCs), and Community Health Centers (CHCs) are among the healthcare facilities that make up the hierarchical structure of the Indian Rural Health Care System. But issues like unequal access, unequal distribution, and a lack of medical personnel continue to exist. The goal of government programmes like Ayushman Bharat and the National Rural Health Mission (NRHM) is to improve rural healthcare. The approach promotes community involvement, integrates conventional medicine, and places an emphasis on preventive care.

To enhance rural health outcomes, ongoing efforts are concentrated on infrastructure development, public-private partnerships, health insurance, disease control initiatives, and technology integration.

Figure 1: A stronger health infrastructure in the public sector has resulted from recent health sector changes, as highlighted by the Economic Survey. Sub-centers (SCs), Primary Health Centers (PHCs), and Community Health Centers (CHCs) are becoming more prevalent in rural regions, which is a notable reflection of this. 1.50 lakh Health & Wellness Centers (HWCs) have been operationalized under the Ayushman Bharat scheme by December 31, 2022. Nearer to the villages, these provide full primary healthcare services.

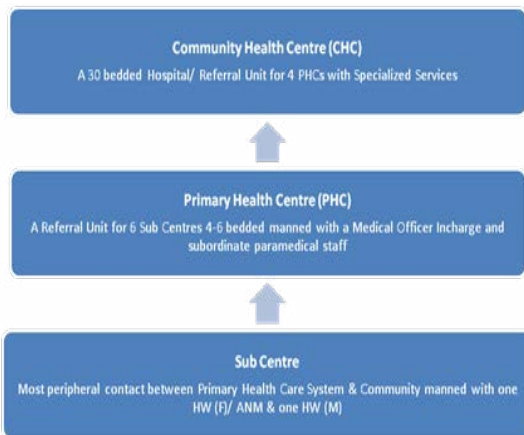


Figure 1 Rural Health Care System in India

Table 1 provides a snapshot of the progress in health infrastructure in India across various indicators over the years 2014 to 2022. There has been a steady increase in the number of Sub-Centers from 152.3 in 2014 to 157.9 in 2022, indicating a continuous effort to expand and strengthen the primary healthcare infrastructure at the grassroots level.

Table 1 Progress of Health Infrastructure in India

Indicators	2014	2019	2020	2021	2022
Sub-Centers (SCs)	152.3	157.4	155.4	156.1	157.9
Primary Health Centers (PHCs)	25.0	24.9	24.9	25.1	24.9
Community Health Centers (CHCs)	5.4	5.3	5.2	5.5	5.5

Doctors at PHCs	27.4	29.8	28.5	31.7	30.6
Total Specialists at CHCs	4.1	3.9	5.0	4.4	4.5
Auxiliary Nurse Midwife at SCs & PHCs	213.4	234.2	212.6	214.8	207.6
Nursing Staff at PHCs & CHCs	63.9	81.0	71.8	79.0	79.9
Pharmacists at PHCs & CHCs	22.7	26.2	25.8	28.5	27.1
Lab Technicians at PHCs & CHCs	16.7	18.7	19.9	22.7	22.8

(Numbers in thousands, as of March each year)

Source: Rural Health Statistics 2021-22, MoHWF

The number of Primary Health Centers remained relatively stable, with a slight fluctuation from 25.0 in 2014 to 24.9 in 2019 and 2020, before a small increase to 25.1 in 2021 and back to 24.9 in 2022. The count of Community Health Centers has seen a marginal decline from 5.4 in 2014 to 5.2 in 2020, followed by a slight increase to 5.5 in 2021 and 2022. The number of doctors at Primary Health Centers has shown a consistent upward trend, from 27.4 in 2014 to 30.6 in 2022, indicating an improvement in the availability of medical professionals at the primary healthcare level. The total number of specialists at Community Health Centers experienced a decrease from 4.1 in 2014 to 3.9 in 2019 but showed a recovery and remained relatively stable at around 4.4 to 4.5 from 2020 to 2022. The count of Auxiliary Nurse Midwives at Sub-Centers and Primary Health Centers has shown some fluctuations, with an overall decrease from 213.4 in 2014 to 207.6 in 2022. The number of nursing staff at both Primary Health Centers and Community Health Centers has seen a significant increase, rising from 63.9 in 2014 to 79.9 in 2022, indicating efforts to strengthen nursing support in these facilities. The count of pharmacists at both Primary Health Centers and Community Health Centers has generally increased, with a slight fluctuation from 22.7 in 2014 to 27.1 in 2022. The number of lab technicians at both Primary Health Centers and Community Health Centers has steadily increased from 16.7 in 2014 to 22.8 in 2022,

suggesting an enhancement of diagnostic capabilities at these healthcare facilities. The data reflects efforts to improve health infrastructure in India, with notable progress in the availability of medical professionals, nursing staff, and diagnostic support at both primary

and community healthcare levels. However, some indicators, such as the count of specialists and Auxiliary Nurse Midwives, have shown fluctuations or a slight decrease over the years.

Table 2 Level of Achievements in Rural Health Infrastructure of India

Rural Health Infrastructure – Norms* and Level of Achievements (All India)					
Sl. No.	Indicator	National Norms		Status (2022)	
1	Rural Population (mid-year population 2022, as on 1st July 2022) covered by a:	General	Tribal Area	Rural Area	Tribal Area
	Sub Centre	5000	3000	5691	4005
	Primary Health Centre (PHC)	30000	20000	36049	26522
	Community Health Centre (CHC)	120000	80000	164027	105893
2	Number of Sub Centers per PHC	6		6	7
3	Number of PHCs per CHC	4		5	4
4	Rural Population (mid-year population 2022, as on 1st July 2022) covered by a:				
	HW (F) (at Sub Centers & PHCs)				4330
	HW (M + F) at Sub Centers				3850
5	Ratio of HA (M + F) at PHCs to HW (M + F) at Sub Centers	Rural Area		Tribal Area	
		1:21		1:24	
6	Average Rural Area (Sq. Km) covered by a:				
	Sub Centre	19.55		21.65	
	PHC	123.85		143.37	
	CHC	563.52		572.44	
7	Average Radial Distance (Kms) covered by a:				
	Sub Centre	2.49		2.62	
	PHC	6.28		6.75	
	CHC	13.39		13.50	
8	Average Number of Villages covered by a:				
	Sub Centre	4		-	
	PHC	27		-	
	CHC	121		-	

Source: Rural Health Statistics 2021-22, MoHWF **M: Male F: Female**

*Number of persons covered under the services of a particular Facility (SC, PHC & CHC)

Table 2 provides information on the level of achievements in rural health infrastructure in India, focusing on various indicators and comparing them to national norms. The table shows the rural population covered by different health facilities, such as Sub-Centre, Primary Health Centers (PHCs), and Community Health Centers (CHCs). The numbers for Sub-Centre, PHC, and CHC are compared to national norms, indicating whether the existing infrastructure meets or exceeds the established

standards. The number of Sub-Centers per PHC is shown as 7, which slightly exceeds the national norm of 6. The number of PHCs per CHC is 4, meeting the national norm. The table provides the number of Health Workers (HW) (both Female and Male) at Sub-Centers and PHCs, indicating the coverage of health personnel at these levels. The ratio of Health Assistants at PHCs to Health Workers at Sub-Centers is provided for both rural and tribal areas, showing the distribution of health personnel. The average

rural area covered by Sub-Centre, PHC, and CHC is presented in square kilometers, providing insights into the geographical reach of these health facilities. The table gives information on the average number of villages covered by a Sub-Centre, PHC, and CHC, indicating the extent of the facilities' reach in terms of serving local communities. The interpretation of the table involves assessing whether the current

status aligns with the national norms, identifying areas of success, and highlighting potential areas for improvement in rural health infrastructure in India. The numbers indicate both achievements and disparities in the distribution and coverage of health facilities and personnel across different regions and types of areas (general and tribal).

Table 3 Number of SCs, PHCs & CHCs Functioning and Growth Status in Rural Areas

S. No.	State/UT	2005			2022			Growth Status		
		Sub Centre	PHCs	CHCs	Sub Centre	PHCs	CHCs	Sub Centre	PHCs	CHCs
1	Andhra Pradesh	12522	1570	164	11073	1142	139	-1449	-428	-25
2	Arunachal Pradesh	379	85	31	355	126	57	-24	41	26
3	Assam	5109	610	100	4667	920	172	-442	310	72
4	Bihar	10337	1648	101	9375	1492	269	-962	-156	168
5	Chhattisgarh	3818	517	116	5124	770	167	1306	253	51
6	Goa	172	19	5	219	24	6	47	5	1
7	Gujarat	7274	1070	272	9132	1474	344	1858	404	72
8	Haryana	2433	408	72	2653	394	129	220	-14	57
9	Himachal Pradesh	2068	439	66	2114	553	93	46	114	27
10	Jharkhand	4462	561	47	3848	291	171	-614	-270	124
11	Karnataka	8143	1681	254	8757	2138	182	614	457	-72
12	Kerala	5094	911	106	4933	780	211	-161	-131	105
13	Madhya Pradesh	8874	1192	229	10287	1266	332	1413	74	103
14	Maharashtra	10453	1780	382	10673	1853	256	220	73	-126
15	Manipur	420	72	16	393	74	8	-27	2	-8
16	Meghalaya	401	101	24	459	122	28	58	21	4
17	Mizoram	366	57	9	300	57	9	-66	0	0
18	Nagaland	394	87	21	434	129	23	40	42	2
19	Odisha	5927	1282	231	6688	1288	377	761	6	146
20	Punjab	2858	484	116	2951	422	150	93	-62	34
21	Rajasthan	10512	1713	326	13523	2133	616	3011	420	290
22	Sikkim	147	24	4	147	24	2	0	0	-2
23	Tamil Nadu	8682	1380	35	8713	1422	385	31	42	350
24	Telangana	-	-	-	4229	578	28	4229	578	28
25	Tripura	539	73	10	956	108	21	417	35	11
26	Uttarakhand	1576	225	44	1785	531	52	209	306	8
27	Uttar Pradesh	20521	3660	386	20781	2919	829	260	-741	443
28	West Bengal	10356	1173	95	10357	915	348	1	-258	253
29	A & N Islands	107	20	4	124	22	4	17	2	0
30	Chandigarh	13	0	1	0	0	0	-13	0	-1
31	Dadra & Nagar Haveli	38	6	1	94	12	3	35	3	1

32	Daman & Diu	21	3	1	94	12	3	35	3	1
33	Delhi	41	8	0	12	5	0	-29	-3	0
34	Jammu & Kashmir	1879	334	70	2429	891	56	550	557	-14
35	Ladakh	-	-	-	288	32	7	288	32	7
36	Lakshadweep	14	4	3	9	4	3	-5	0	0
37	Puducherry	76	39	4	53	24	3	-23	-15	-1
All India/ Total		146026	23236	3346	157935	24935	5480	-11909	1699	2134

Notes: Telangana came to existence in 2014 after bifurcation of Andhra Pradesh Jammu & Kashmir and Ladakh bifurcated and became UTs during Aug 2019. Dadra & Nagar Haveli and Daman Diu merged as a single UT during Jan 2020.

Table 3 provides information on the number of Sub-Centers (SCs), Primary Health Centers (PHCs), and Community Health Centers (CHCs) in rural areas of various States/Union Territories (UTs) in India for the years 2005 and 2022, along with the growth status. The table is organized with columns representing the number of SCs, PHCs, and CHCs for both 2005 and 2022. The growth status columns show the changes in the number of facilities over the period, with negative values indicating a decrease and positive values indicating an increase. The data is presented on a state-wise basis, allowing for a comparison of the health infrastructure growth across different regions. The growth status indicates the overall change over the period. Negative values in the growth status columns suggest a reduction in the number of facilities, while positive values indicate an expansion. The growth status reflects changes in the health infrastructure network, which could be influenced by factors such as population growth, government policies, and healthcare planning. Variances in growth status among states/UTs highlight disparities in healthcare infrastructure development. Some regions show significant positive growth, indicating improvements, while others may have experienced a decline in health facilities. It's crucial to observe notable cases, such as states with substantial positive or negative growth, to understand the context and potential reasons behind these changes. In the case of Lakshadweep, negative values in the growth status column for SCs and PHCs suggest a reduction in these facilities. The overall growth status for India indicates an increase in the number of SCs, PHCs, and CHCs, suggesting efforts to expand rural health infrastructure. The table offers insights into the dynamics of rural health

infrastructure growth across different states and UTs in India, facilitating the evaluation of regional variations and overall progress.

India has Implemented Several Government Schemes and Initiatives Aimed at Enhancing Rural Healthcare

These initiatives aim to raise the standard of healthcare services, accessibility, and infrastructure in rural areas.

National Rural Health Mission (NRHM): One of the largest healthcare initiatives when it was first unveiled in 2005 was NRHM, which is now a part of the National Health Mission. Access to affordable, high-quality healthcare for rural populations is its primary objective. Two of the NRHM's sub-schemes include the Janani Suraksha Yojana (JSY), which supports maternity and child health, and the National Health Rural Mission (NUHM), which serves metropolitan regions.

Ayushman Bharat - Pradhan Mantri Jan Arogya Yojana (PMJAY): 2018 saw the launch of the significant health insurance plan Ayushman Bharat. PMJAY provides financial support to families in need by paying hospital fees. It aims to reduce the cost of healthcare while increasing access to high-quality care.

National Urban Health Mission (NUHM): Similar to NRHM, NUHM focuses on improving healthcare services in urban areas. It aims to enhance sanitation and health in urban areas as well as the infrastructure for basic healthcare.

Rashtriya Bal Swasthya Karyakram (RBSK): The primary objectives of this programme are the early diagnosis and treatment of birth defects, developmental delays, disabilities, and other

paediatric health issues. Free medical care is available for children under the age of eighteen.

National Health Mission (NHM): NHM encompasses a number of programmes, including NRHM and NUHM, that aim to improve infrastructure, human resources, and healthcare delivery in both rural and urban areas. It also promotes illness control and prevention.

Pradhan Mantri Surakshit Matritva Abhiyan (PMSMA): PMSMA attempts to offer expectant mothers all-encompassing prenatal care, with an emphasis on early identification and treatment of high-risk pregnancies. Its goal is to lower the rates of mortality for mothers and newborns.

National Mobile Medical Units (NMMU): This programme outfits mobile medical units with medical staff and essential supplies to deliver healthcare services to underserved and remote communities.

National Health Insurance Schemes: To secure their finances against medical costs, several Indian states have implemented health insurance programmes. Two such programmes are the Mukhyamantri Amrutum in Gujarat and the Tamil Nadu Chief Minister's Comprehensive Health Insurance Scheme.

Swachh Bharat Abhiyan: The Swachh Bharat Abhiyan is not a healthcare-specific effort, but it does concentrate on sanitation and cleanliness improvement, which is essential to preventing water-borne illnesses and enhancing public health in general.

National AYUSH Mission: To give holistic healthcare options, this goal promotes traditional Indian medical systems including Ayurveda, Yoga, Naturopathy, Unani, Siddha, and Homoeopathy in rural areas.

All combined, these government initiatives aim to improve public health awareness, expand healthcare access, boost the caliber of care, and establish a rural India healthcare system. Even with the recent progress, there is still more to be done to guarantee that every population segment has access to healthcare services and to address long-standing problems with healthcare in rural areas.

Challenges of the Rural Health Care System in India

Numerous obstacles prevent the Indian rural healthcare system from offering the rural populace efficient and easily accessible medical care.

Infrastructure and Resource Deficiency

Inadequate Facilities: An adequate infrastructure for providing healthcare, including clinics, hospitals, and diagnostic facilities, is lacking in many rural locations.

Shortage of Healthcare Personnel: In rural areas, there is a major scarcity of physicians, nurses, and other healthcare workers, which causes a big gap in the provision of healthcare services.

Limited Access to Essential Medicines

Supply Chain Issues: Poor supply chain management results in irregular availability of essential medicines in rural health facilities.

Affordability: Limited financial resources in rural households often make it challenging for individuals to purchase necessary medicines.

Geographical Barriers

Remote Locations: Due to their remote locations, many rural places make it challenging for its citizens to get to medical services on time.

Transportation Challenges: Lack of proper roads and transportation infrastructure further hampers the accessibility of healthcare services.

Health Awareness and Education

Low Health Literacy: Limited awareness and understanding of health issues among rural populations contribute to delayed healthcare-seeking behavior and preventive measures.

Cultural and Social Factors: Deep-rooted cultural beliefs and practices can affect health-seeking behavior and acceptance of modern healthcare practices.

Inadequate Funding and Budget Allocation

Insufficient Financial Resources: Inadequate funding is a common problem for rural healthcare facilities, which has an impact on infrastructure development and service quality.

Budget Allocation Discrepancies: The issue is made worse by the funding allocation gap between urban and rural healthcare facilities.

Lack of Telemedicine and Technology Integration

Limited Technological Infrastructure: Remote consultations and diagnostics are limited in rural areas due to a lack of telemedicine services and innovative healthcare technologies.

Digital Divide: Rural and urban healthcare disparities are made worse by unequal access to technology and internet services.

Disease Burden and Epidemics

Prevalence of Communicable Diseases: Because there are generally fewer resources for proper sanitation and hygiene, communicable diseases are more common in rural areas.

Challenges in Epidemic Management: Rapid response and containment during disease outbreaks pose significant challenges in resource-limited rural settings.

To ensure the well-being of India's rural population, addressing these issues calls for a thorough and multifaceted strategy that includes equitable resource allocation, better education and awareness campaigns, more healthcare workers, better infrastructure, and technology integration.

Recommendations for Improving India's Rural Healthcare System

Improving the healthcare system in rural India necessitates a multifaceted strategy that tackles difficulties including inadequate infrastructure, a lack of medical experts, accessibility concerns, and the requirement for efficient primary and preventive care services.

Increase Funding and Resource Allocation: Allocate a higher percentage of the national budget to healthcare, with a specific focus on rural areas. Ensure efficient utilization of funds to address infrastructure gaps, procure necessary medical equipment, and improve the overall healthcare delivery system.

Strengthen Healthcare Infrastructure: Construct and renovate primary health centers and sub-centers, as well as other healthcare facilities,

in rural areas to guarantee that essential healthcare services are accessible and available. To enable remote consultations and the sharing of medical information, improve telemedicine and the technical infrastructure.

Address Human Resource Shortages: Address the lack of physicians, nurses, and community health workers in rural areas by implementing focused recruitment and retention methods. To entice and keep healthcare professionals in remote areas, provide training programmes and rewards.

Promote Community-Based Healthcare: Increase the number and quality of community health worker initiatives, such as Accredited Social Health Activists (ASHAs), to enhance community outreach, education, and preventative care. Encourage community involvement in healthcare decision-making to guarantee that offered services fulfill regional requirements.

Focus on Preventive Healthcare: Run effective public health initiatives to increase understanding of the value of early disease detection and preventive measures. To address common health issues in rural communities, establish nutrition counseling, maternity, and child health initiatives, and vaccination programmes.

Improve Health Information Systems: Enhance health data collection and management systems to monitor health indicators, track disease prevalence, and evaluate the effectiveness of healthcare interventions. Utilize technology for electronic health records, ensuring continuity of care and efficient management of patient information.

Integrate Traditional and Modern Medicine: Foster collaboration between traditional and modern healthcare systems, incorporating traditional practices where appropriate. Train healthcare professionals to understand and respect local health traditions and practices.

Implement Health Insurance Schemes: Expand the coverage of health insurance schemes, such as Ayushman Bharat, to provide financial protection to rural populations and reduce out-of-pocket expenditures on healthcare. Ensure the effective implementation and monitoring of health insurance programs to reach those in need.

Encourage Public-Private Partnerships:

Encourage cooperation between public and private healthcare providers to raise the standard and accessibility of healthcare in rural areas. Encourage the private sector to participate in the construction and upkeep of healthcare facilities.

Research and Innovation: Support research initiatives focused on rural health challenges and potential solutions. Encourage innovation in healthcare delivery, including the use of technology for diagnostics, treatment, and monitoring.

Governmental organizations, healthcare facilities, non-governmental organizations, and local communities must work together to implement these proposals. It is possible to develop a more robust and efficient healthcare system that satisfies the many demands of rural communities by tackling the complex issues that India's rural healthcare system is now experiencing.

Conclusion

The assessment of the rural health care system in India reveals a complex landscape marked by both challenges and opportunities. While various government schemes have been implemented to improve healthcare access in rural areas, there are still significant gaps in infrastructure, healthcare delivery, and accessibility. The implications of these gaps are profound, affecting the overall health outcomes of the rural population.

The study underscores the need for a holistic approach to address the multifaceted challenges faced by the rural health care system. This includes not only enhancing the reach and effectiveness of existing schemes but also prioritizing investments in infrastructure, healthcare personnel training, and community engagement. Additionally, there is a crucial need for improved monitoring and evaluation mechanisms to ensure the efficient utilization of resources and the impact of interventions.

Furthermore, collaborative efforts involving government bodies, non-governmental organizations, and local communities are essential for fostering sustainable improvements in rural healthcare. By fostering partnerships and leveraging technology, it is possible to create innovative solutions that can bridge the existing gaps and enhance the overall quality of healthcare delivery in rural India.

In moving forward, policymakers, healthcare professionals, and communities must work together to implement evidence-based strategies, tailor interventions to local needs, and prioritize the health and well-being of the rural population. Ultimately, a strengthened and resilient rural health care system is not only vital for achieving health equity but also contributes significantly to the overall socio-economic development of the nation.

References

- Bajpai, Nirupam, and Ravindra H. Dholakia. "Improving the Performance of Accredited Social Health Activists in India." *Working Paper No. 1*, 2011.
- Balarajan, Y., et al. "Health Care and Equity in India." *The Lancet*, vol. 377, 2011, pp. 505-515.
- Bhat, Ramesh, et al. "Maternal Healthcare Financing: Gujarat's Chiranjeevi Scheme and Its Beneficiaries." *Journal of Health, Population, and Nutrition*, vol. 27, no. 2, 2009, pp. 249-58.
- Bhattacharyya, Karabi, et al. *Community Health Worker Incentives and Disincentives: How they Affect Motivation, Retention, and Sustainability*. Arlington, BASICS II, 2014.
- Gautham, Meenakshi, et al. "First We go to the Small Doctor: First Contact for Curative Health Care sought by Rural Communities in Andhra Pradesh and Orissa, India." *The Indian Journal of Medical Research*, vol. 134, no. 5, 2011, pp. 627-38.
- Gautham, Meenakshi, et al. *Informal Rural Healthcare providers in North and South India. Health Policy and Planning*, vol. 29, 2014, pp. 20-29.
- Mohapatra, Bijayeeni, et al. "Snakebite Mortality in India: A Nationally Representative Mortality Survey." *PLoS Neglected Tropical Diseases*, vol. 5, no. 4, 2011.
- Patel, Vikram, et al. "Assuring Health Coverage for all in India." *The Lancet*, vol. 386, 2015.
- Reddy, K. Srinath, et al. "Towards Achievement of Universal Health Care in India by 2020: A Call to Action." *The Lancet*, 2011, pp. 760-68.
- Scott, Kerry, et al. "What do We know about Community-based Health Worker Programs? A Systematic Review of Existing Reviews

- on Community Health Workers." *Human Resources for Health*, vol. 16, 2018.
- Selvaraj, Sakthivel, et al. "Quantifying the Financial Burden of Households' Out-of-pocket Payments on Medicines in India: A Repeated Cross-Sectional Analysis of National Sample Survey Data, 1994–2014." *BMJ Open*, 2018.
- Sharma, Reetu, et al. "Factors Affecting the Performance of Community Health Workers in India: A Multi-Stakeholder Perspective." *Global Health Action*, vol. 7, 2014.
- Srivastava, Aradhana, et al. "Are Village Health Sanitation and Nutrition Committees Fulfilling their Roles for Decentralized Health Planning and Action? A Mixed Methods Study from Rural Eastern India." *BMC Public Health*, vol. 16, 2016.
- Subramanian, S. V., et al. "The Mortality Divide in India: The Differential Contributions of Gender, Caste, and Standard of Living across the Life Course." *American Journal of Public Health*, vol. 96, no. 5, 2006, pp. 818-25.

Author Details

Dr. J. Suresh Kumar, Associate Professor, Department of Economics, St. Joseph University, Chümoukedima, Nagaland, India, **Email ID:** drjsuresheco@gmail.com.

Dr. D. Shobana, Assistant Professor, Department of Management Studies, St. Joseph University, Chümoukedima, Nagaland, India, **Email ID:** shobanasc@gmail.com.