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**Assessment of Awareness and Utilization of Government Health Schemes Among
Patients at a Tertiary Care Hospital in Rajasthan: A Case Study of Krishiv Khandaka
Hospital, Multispecialty, Jaipur**

Introduction

Healthcare accessibility and affordability remain critical challenges in developing countries, particularly for poor populations. India's healthcare system has undergone significant transformation through the implementation of various government-funded health insurance schemes aimed at providing universal health coverage and reducing out-of-pocket expenditure for medical care. The Government of India launched several flagship programs including Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (AB PM-JAY), while state governments have implemented complementary schemes such as Rajasthan's Bhamashah Swasthya Bima Yojana (BSBY) and Mukhiya Mantri Chiranjeevi Swasthya Bima Yojana (CSBY).

The Ayushman Bharat initiative, launched in 2018, represents one of the world's largest government-funded healthcare programs, providing health insurance coverage of up to ₹5 lakh per family per year to approximately 50 crore beneficiaries. This scheme encompasses two primary components: establishing Health and Wellness Centres (HWCs) for comprehensive primary healthcare and the Pradhan Mantri Jan Arogya Yojana for secondary and tertiary care hospitalization. The program targets socio-economically disadvantaged families identified through the Socio-Economic Caste Census (SECC) 2011, covering both rural and urban populations.

In Rajasthan, the state government has implemented multiple health insurance schemes to complement national programs. The Bhamashah Swasthya Bima Yojana, launched in 2015, initially provided health insurance coverage to families below the poverty line. This was

subsequently expanded and renamed as Mukhiya Mantri Chiranjeevi Swasthya Bima Yojana in 2021, offering enhanced coverage of up to ₹25 lakh per family per year, making it one of the most comprehensive state-level health insurance schemes in India.

The implementation of these schemes represents a paradigm shift from an out-of-pocket payment system to a cashless, insurance-based healthcare delivery model. However, the success of these programs depends significantly on public awareness, accessibility, and effective utilization by the target population. Studies have shown that awareness levels, geographical accessibility, quality of services, and administrative efficiency significantly influence scheme utilization patterns.

Private healthcare providers, particularly tertiary care hospitals, play a crucial role in the implementation of these government schemes. Their participation as empanelled providers ensures that beneficiaries have access to quality healthcare services without financial barriers. However, the effectiveness of scheme implementation varies across different healthcare providers, regions, and patient populations. Understanding the utilization patterns, challenges, and outcomes at the institutional level is essential for improving program effectiveness and ensuring equitable access to healthcare services.

Krishiv Khandaka Multispeciality Hospital, Jaipur, serves as a significant healthcare provider in the region, catering to a diverse patient population including beneficiaries of various government health schemes. As a tertiary care facility, it provides comprehensive medical services ranging from outpatient consultations to complex surgical procedures. The hospital's location in Sanganer, a rapidly developing area of Jaipur, positions it to serve both urban and peri-urban populations with varying socio-economic backgrounds.

The assessment of government health scheme utilization at healthcare institutions provides valuable insights into program effectiveness, patient satisfaction, and areas requiring improvement. Such evaluations help identify gaps in awareness, accessibility barriers,

administrative challenges, and service quality issues that may hinder optimal scheme utilization. Furthermore, understanding the demographic and socio-economic profile of scheme beneficiaries, their healthcare-seeking behaviour, and treatment outcomes contributes to evidence-based policy formulation and program enhancement.

Recent studies have highlighted significant variations in health insurance utilization across different states, healthcare providers, and patient populations. Factors such as awareness levels, trust in healthcare providers, perceived quality of services, geographical accessibility, and administrative efficiency significantly influence scheme utilization. Additionally, the COVID-19 pandemic has further emphasized the importance of robust health insurance systems and the need for continuous monitoring and evaluation of program effectiveness.

The digital transformation of healthcare delivery through initiatives like Ayushman Bharat Digital Mission (ABDM) has introduced new dimensions to health scheme implementation. The creation of unique health identifiers, digital health records, and online claim processing systems has the potential to improve scheme efficiency and transparency. However, the adoption and utilization of these digital platforms require assessment to understand their impact on overall scheme effectiveness.

Healthcare quality assurance and patient safety remain critical concerns in government health scheme implementation. Ensuring that beneficiaries receive appropriate, timely, and quality healthcare services is essential for program success. This requires continuous monitoring of clinical outcomes, patient satisfaction, and adherence to established treatment protocols among scheme beneficiaries.

The financial sustainability of government health schemes depends on efficient resource utilization, appropriate pricing mechanisms, and effective fraud prevention measures. Regular assessment of claim patterns, reimbursement rates, and cost-effectiveness helps ensure program viability and optimal resource allocation. Understanding the fiscal impact of these

schemes on healthcare providers is equally important for maintaining their continued participation.

Gender disparities in health scheme utilization have been documented in numerous studies, with females often showing lower utilization rates despite higher healthcare needs. Addressing these disparities requires targeted interventions to improve awareness, accessibility, and cultural acceptability of health services among different population groups.

The integration of traditional medicine systems with modern healthcare delivery through government schemes presents both opportunities and challenges. Understanding patient preferences, treatment outcomes, and cost-effectiveness of integrated approaches contributes to comprehensive healthcare policy development.

Quality improvement initiatives in government health schemes require evidence-based approaches informed by systematic evaluation of program implementation. Regular assessment of scheme performance, beneficiary feedback, and provider experiences helps identify best practices and areas requiring intervention.

Problem Statement

Despite the implementation of comprehensive government health schemes in India, significant gaps persist in awareness, accessibility, and utilization of these programs among target populations. While schemes like Ayushman Bharat PM-JAY, Chiranjeevi Yojana, and BSBY aim to provide universal health coverage, the actual utilization patterns and effectiveness at the institutional level remain inadequately documented and understood.

The problem is multifaceted, encompassing limited awareness among eligible beneficiaries about available schemes and their benefits, administrative barriers in enrolment and claim processing, variations in service quality and accessibility across different healthcare providers, and inadequate documentation of utilization patterns to inform policy improvements. Many eligible beneficiaries remain unaware of their entitlements under various government health

schemes, leading to continued out-of-pocket expenditure and delayed healthcare seeking behaviour.

Healthcare providers, particularly private tertiary care hospitals, face challenges in implementing government schemes effectively, including complex administrative procedures, delayed reimbursements, and inadequate technical support. This affects their motivation to participate in scheme implementation and may compromise the quality of services provided to scheme beneficiaries.

The lack of systematic assessment of scheme utilization at the institutional level limits evidence-based policy formulation and program improvement initiatives. Without comprehensive data on utilization patterns, demographic profiles of beneficiaries, service utilization trends, and outcomes, it becomes difficult to identify bottlenecks and implement targeted interventions to enhance scheme effectiveness.

Need of the Study

The need for this study arises from the critical importance of evaluating government health scheme implementation at the ground level to ensure program effectiveness and equitable access to healthcare services. As India moves toward universal health coverage, understanding the real-world utilization patterns and challenges in scheme implementation becomes essential for policy refinement and program improvement.

There is a significant research gap in institutional-level assessment of government health scheme utilization, particularly in tertiary care settings. Most existing studies focus on national or state-level statistics without providing detailed insights into the operational challenges and opportunities at individual healthcare facilities. This study addresses this gap by providing comprehensive analysis of scheme utilization at Eternal Hospital, which can serve as a model for similar assessments at other healthcare institutions.

The study is particularly relevant given the recent expansion of health insurance coverage in Rajasthan through schemes like Chiranjeevi Yojana, which provides substantial coverage amounts. Understanding how these enhanced benefits translate into actual healthcare utilization helps assess program effectiveness and identify areas for improvement.

Furthermore, the study will contribute to evidence-based policy making by providing detailed insights into beneficiary demographics, service utilization patterns, and institutional challenges in scheme implementation. This information is crucial for healthcare planners, policy makers, and program administrators to design targeted interventions and improve scheme effectiveness.

Research Objectives

1. To assess the level of awareness about government health schemes among patients visiting Eternal Hospital, Sanganer, Jaipur
2. To analyse the utilization patterns of different government health schemes including Ayushman Bharat, Chiranjeevi Yojana, and BSBY among hospital patients
3. To examine the demographic and socio-economic profile of beneficiaries utilizing government health schemes at the hospital
4. To evaluate the effectiveness of government health schemes in reducing out-of-pocket expenditure and improving healthcare access for beneficiaries
5. To identify barriers and challenges in the implementation and utilization of government health schemes from both patient and provider perspectives

Research Questions

1. What is the level of awareness about various government health schemes among patients visiting Eternal Hospital, and what factors influence this awareness?
2. What are the utilization patterns of different government health schemes in terms of service types, claim amounts, and approval rates at the hospital?

3. What are the demographic and socio-economic characteristics of patients who utilize government health schemes compared to those who do not?
4. How effective are government health schemes in reducing financial burden and improving healthcare access for beneficiaries at the hospital?
5. What are the major barriers and challenges faced by patients and healthcare providers in the implementation and utilization of government health schemes?

Research Hypotheses

1. There is a significant positive correlation between awareness levels of government health schemes and their utilization among patients at Eternal Hospital
2. Patients from lower socio-economic backgrounds demonstrate higher utilization rates of government health schemes compared to those from higher socio-economic strata.
3. Government health scheme beneficiaries experience significantly lower out-of-pocket expenditure compared to non-beneficiaries for similar medical services.
4. The utilization of government health schemes is significantly associated with improved healthcare access and reduced delayed care-seeking behaviour among beneficiaries.
5. Administrative barriers and inadequate awareness significantly predict lower utilization rates of government health schemes among eligible beneficiaries.

Literature Review

The literature on government health schemes in India reveals a complex landscape of policy implementation, utilization patterns, and health outcomes. Early studies on health insurance schemes in India focused primarily on community-based insurance models and employer-sponsored schemes. The introduction of Rastriya Swasthya Bima Yojana (RSBY) in 2008 marked a significant shift toward government-funded health insurance, leading to extensive research on its implementation and outcomes.

Ghosh (2014) conducted a comprehensive analysis of RSBY implementation across different states, highlighting significant variations in enrolment rates, utilization patterns, and health outcomes. The study found that states with better administrative capacity and healthcare infrastructure demonstrated higher scheme utilization rates. Similarly, Pranja et al. (2019) evaluated the financial protection provided by RSBY and found that while the scheme reduced catastrophic health expenditure, the impact varied significantly across different regions and population groups.

The launch of Ayushman Bharat PM-JAY in 2018 generated substantial research interest, with studies examining its potential impact on healthcare access and financial protection. Lahariya (2018) provided a comprehensive overview of the scheme's design and implementation strategy, highlighting its potential to achieve universal health coverage. The study emphasized the importance of robust implementation mechanisms and continuous monitoring for scheme success.

Kumar et al. (2019) conducted a systematic review of government health insurance schemes in India, examining their effectiveness in improving healthcare access and financial protection. The review found that while government schemes have shown promise in reducing out-of-pocket expenditure, challenges remain in ensuring equitable access and quality of care. The study highlighted the need for targeted interventions to address awareness gaps and administrative barriers.

State-level studies have provided valuable insights into the implementation challenges and successes of government health schemes. Nandi et al. (2020) examined the implementation of various health insurance schemes in Rajasthan, including RSBY and Bhamashah Swasthya Bima Yojana. The study found that while enrolment rates were high, utilization patterns varied significantly across different districts and population groups. Rural populations showed lower utilization rates despite higher enrolment, suggesting the presence of access barriers.

Hooda (2017) conducted a detailed analysis of RSBY implementation in Haryana, focusing on beneficiary experiences and provider perspectives. The study found that while beneficiaries appreciated the financial protection provided by the scheme, they faced challenges related to service quality, hospital accessibility, and administrative procedures. Healthcare providers reported difficulties in claim processing and reimbursement delays, affecting their motivation to participate in the scheme.

The role of private healthcare providers in government scheme implementation has been extensively studied. Rao et al. (2018) examined the participation of private hospitals in RSBY and found that while private providers played a crucial role in expanding access, there were concerns about service quality and cost control. The study recommended strengthening quality assurance mechanisms and improving provider payment systems.

Gender disparities in health insurance utilization have been documented in multiple studies. Pandey et al. (2019) found significant gender gaps in RSBY utilization, with females showing lower utilization rates despite higher healthcare needs. The study attributed these disparities to cultural barriers, decision-making patterns within households, and accessibility issues. Similar findings have been reported in other studies, highlighting the need for gender-sensitive approaches in scheme implementation.

The impact of health insurance schemes on healthcare utilization patterns has been a key area of research. Several studies have examined changes in healthcare seeking behaviour following scheme implementation. Karan et al. (2017) found that RSBY enrolment led to increased hospitalization rates among beneficiaries, particularly for surgical procedures. However, the study also found evidence of supplier-induced demand, raising concerns about cost escalation and inappropriate care.

Quality of care under government health schemes has been another important research focus. Nelsen et al. (2018) examined the quality of care provided to RSBY beneficiaries and found

mixed results. While access to healthcare improved significantly, there were concerns about the appropriateness of care and adherence to clinical protocols. The study recommended strengthening quality assurance mechanisms and provider training programs.

The financial sustainability of government health schemes has been examined in several studies. Sood et al. (2014) analysed the cost-effectiveness of RSBY and found that while the scheme provided significant financial protection, the cost per beneficiary was higher than initially projected. The study highlighted the need for better cost control mechanisms and improved targeting of beneficiaries.

Digital health initiatives and their integration with government health schemes have emerged as a new area of research. The implementation of Ayushman Bharat Digital Mission (ABDM) has created opportunities for improving scheme efficiency and transparency. Preliminary studies suggest that digital platforms can help streamline administrative processes and reduce fraud, but challenges remain in ensuring universal access to digital services.

Recent studies have examined the implementation of enhanced state-level schemes like Chiranjeevi Yojana in Rajasthan. These schemes provide higher coverage amounts and expanded benefits compared to national programs. Early assessments suggest that enhanced coverage can lead to increased utilization, but the long-term sustainability and impact on health outcomes require further evaluation.

The COVID-19 pandemic has highlighted the importance of robust health insurance systems and has led to temporary modifications in scheme implementation. Studies examining the impact of the pandemic on health scheme utilization have found significant disruptions in non-COVID care, with implications for scheme effectiveness and beneficiary health outcomes.

Research Gap

Despite extensive research on government health schemes in India, significant gaps remain in understanding their implementation and effectiveness at the institutional level. Most existing

studies focus on national or state-level analysis, with limited attention to facility-level implementation challenges and opportunities. There is a particular lack of research on tertiary care hospitals' experiences with multiple government schemes, including newer initiatives like enhanced state-level programs.

The integration of different government schemes at the provider level and their comparative effectiveness remains inadequately studied. Additionally, there is limited research on the patient journey from awareness to utilization, including the role of healthcare providers in scheme promotion and implementation. This study aims to address these gaps by providing comprehensive institutional-level analysis of government health scheme utilization.

Research Methodology

This study will employ a mixed-methods approach combining quantitative and qualitative research methods to provide comprehensive insights into government health scheme awareness and utilization at Eternal Hospital, Sanganer, Jaipur. The study design will be cross-sectional, capturing data at a specific point in time to assess current awareness levels and utilization patterns.

The study population will consist of patients visiting Eternal Hospital for various medical services, including outpatient consultations, inpatient care, and emergency services. A stratified random sampling technique will be employed to ensure representation across different patient categories and service types. The sample size will be calculated using appropriate statistical formulas considering the expected prevalence of scheme utilization and desired precision levels.

Data collection will involve multiple approaches including structured questionnaire surveys with patients, in-depth interviews with key stakeholders, and analysis of hospital records related to government scheme utilization. The questionnaire will be developed based on extensive literature review and will be pre-tested and validated before implementation. It will

include sections on demographic information, socio-economic status, awareness of government health schemes, utilization patterns, and experiences with scheme implementation. Hospital records will be analysed to extract quantitative data on scheme utilization including number of beneficiaries, types of services availed, claim amounts, approval rates, and rejection patterns. This secondary data analysis will provide objective measures of scheme performance and utilization trends over time.

Qualitative data will be collected through in-depth interviews with hospital administrators, healthcare providers, and scheme beneficiaries to understand implementation challenges, barriers to utilization, and suggestions for improvement. Focus group discussions may also be conducted with different stakeholder groups to gather diverse perspectives on scheme effectiveness.

Data analysis will involve both descriptive and inferential statistics using appropriate software packages. Descriptive analysis will include frequency distributions, measures of central tendency, and cross-tabulations to describe awareness levels and utilization patterns. Inferential analysis will involve hypothesis testing using chi-square tests, t-tests, and regression analysis to examine associations between variables and test research hypotheses.

Qualitative data will be analysed using thematic analysis to identify key themes and patterns in stakeholder experiences and perceptions. The integration of quantitative and qualitative findings will provide a comprehensive understanding of government health scheme implementation at the institutional level.

Significance of the Study

This study holds significant importance for multiple stakeholders including healthcare policy makers, program administrators, healthcare providers, and beneficiaries of government health schemes. The research will contribute to evidence-based policy making by providing detailed insights into the real-world implementation of government health schemes at the institutional

level. The findings will help identify best practices and areas requiring improvement in scheme design and implementation.

For healthcare providers, particularly tertiary care hospitals, the study will provide valuable insights into effective strategies for implementing government health schemes and addressing implementation challenges. The research will help hospitals optimize their participation in government schemes while maintaining service quality and financial sustainability.

The study will contribute to the academic literature on health policy and health systems research by providing empirical evidence on government health scheme effectiveness. The comprehensive analysis of multiple schemes and their comparative performance will add to the knowledge base on health insurance implementation in developing countries.

From a public health perspective, the study will provide insights into healthcare access and utilization patterns among different population groups, helping identify disparities and inform targeted interventions. The research will contribute to understanding the role of tertiary care hospitals in achieving universal health coverage goals.

Limitations of the Study

The study has several limitations that should be acknowledged. The cross-sectional design provides a snapshot of current awareness and utilization patterns but cannot establish causal relationships or track changes over time. The study is limited to a single healthcare facility, which may limit the generalizability of findings to other hospitals or healthcare settings.

The reliance on self-reported data from patients may introduce recall bias and social desirability bias, potentially affecting the accuracy of responses. Hospital records may have limitations in terms of completeness and accuracy, which could impact the secondary data analysis component of the study.

The study focuses on patients who have accessed healthcare services at the hospital, potentially missing perspectives of eligible beneficiaries who have not utilized healthcare services. This

may lead to selection bias and limit understanding of barriers to healthcare access among non-users.

The study's scope is limited to specific government health schemes operating in Rajasthan, and findings may not be applicable to other states or regions with different scheme designs and implementation approaches. Additionally, the study period may not capture seasonal variations in healthcare utilization or the impact of temporary policy changes.

Scope of the Study

The scope of this study encompasses a comprehensive assessment of awareness and utilization of major government health schemes among patients at Eternal Hospital, Sanganer, Jaipur. The study will focus on schemes including Ayushman Bharat PM-JAY, Mukhya Mantri Chiranjeevi Swasthya Bima Yojana, and Bhamashah Swasthya Bima Yojana, which are the primary government health insurance programs available to patients in Rajasthan.

The study will examine both inpatient and outpatient services, covering a wide range of medical specialties and treatment types available at the hospital. It will include patients from different age groups, socio-economic backgrounds, and geographical locations to ensure comprehensive representation of the hospital's patient population.

The temporal scope of the study will cover current awareness levels and utilization patterns, with analysis of hospital records over a defined period to understand trends and patterns in scheme utilization. The study will also examine the administrative and operational aspects of scheme implementation from the hospital's perspective.

Geographically, while the study is centered on Eternal Hospital in Sanganer, Jaipur, it will include patients from surrounding areas who access services at the hospital, providing insights into regional variations in scheme awareness and utilization.

Expected Outcomes

The study is expected to generate several important outcomes that will contribute to understanding and improving government health scheme implementation. The research will provide detailed assessment of awareness levels regarding government health schemes among different patient populations, identifying factors that influence awareness and suggesting strategies for improvement.

The study will produce comprehensive analysis of utilization patterns for different government health schemes, including demographic profiles of beneficiaries, types of services utilized, and fiscal impact on both patients and healthcare providers. This analysis will help identify successful implementation strategies and areas requiring intervention.

The research is expected to identify key barriers and facilitators to scheme utilization from both patient and provider perspectives, leading to actionable recommendations for policy makers and program administrators. These findings will inform evidence-based interventions to improve scheme effectiveness and accessibility.

The study will contribute to the development of best practices for government health scheme implementation in tertiary care settings, which can be replicated in other hospitals and healthcare facilities. The research will also provide insights into the integration of multiple government schemes and their comparative effectiveness.

Expected outcomes include recommendations for improving awareness generation activities, streamlining administrative processes, enhancing service quality, and addressing disparities in scheme utilization. The study will also contribute to understanding the role of private healthcare providers in achieving universal health coverage goals.

Organization of the Study

The study will be organized into five comprehensive chapters that systematically address the research objectives and provide thorough analysis of government health scheme awareness and utilization.

Chapter 1: Introduction will provide comprehensive background information on government health schemes in India, the study setting, and research rationale. This chapter will establish the context for the research and outline the study's significance and scope.

Chapter 2: Literature Review will present a thorough review of existing research on government health schemes, their implementation, and effectiveness. This chapter will identify research gaps and establish the theoretical framework for the study.

Chapter 3: Research Methodology will detail the research design, sampling strategy, data collection methods, and analytical approaches employed in the study. This chapter will ensure transparency and replicability of the research methods.

Chapter 4: Results and Analysis will present the findings from both quantitative and qualitative data analysis, including descriptive statistics, hypothesis testing, and thematic analysis of qualitative data. This chapter will provide comprehensive presentation of research findings.

Chapter 5: Discussion and Conclusions will interpret the findings in the context of existing literature, discuss implications for policy and practice, and provide recommendations for improving government health scheme implementation. This chapter will also outline limitations and suggest areas for future research.

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