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## **IMPACT OF MODERN HEALTH SCHEMES ON RURAL HEALTHCARE AND MENTAL FITNESS**

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### **Abstract**

The introduction of modern healthcare schemes in rural areas has significantly improved physical health outcomes, particularly through programs like the National Rural Health Mission (NRHM) and Janani Suraksha Yojana (JSY). These initiatives have led to reductions in maternal and infant mortality, increased vaccination coverage, and expanded healthcare access. However, mental health remains an under-addressed aspect, with ongoing stigma and insufficient integration into healthcare services. Although efforts have been made to introduce mental health services through the National Mental Health Programme (NMHP) and telemedicine, progress is still limited. Community healthcare workers, particularly Accredited Social Health Activists (ASHAs), have played a crucial role in improving physical healthcare but lack sufficient training to address mental health issues. This paper emphasizes the need for a more holistic healthcare approach in rural areas that integrates mental and physical health services. By strengthening mental health provisions alongside physical health, rural healthcare can achieve more comprehensive and sustainable outcomes.

**Keywords:** Rural healthcare, modern health schemes, mental fitness, NRHM, maternal mortality, mental health stigma, ASHA, telemedicine, healthcare access, India

### **1. Introduction**

The state of healthcare in rural areas has been a pressing concern for decades, particularly in low- and middle-income countries where resources are often scarce. Historically, rural populations have faced challenges such as poor infrastructure, lack of trained medical professionals, and insufficient healthcare facilities. The introduction of modern health schemes, often initiated by governments and NGOs, has aimed to address these challenges by increasing accessibility to healthcare services. While physical healthcare has seen considerable improvement, mental health remains under-addressed, despite its critical importance to overall well-being.

This paper critically analyzes the role of state and NGO-led community health organizations in shaping the healthcare landscape in rural areas. It also evaluates the impact of modern health schemes on both physical and mental well-being. Although significant strides have been made in physical healthcare, mental fitness continues to be a neglected component of rural healthcare. This analysis seeks to assess how integrated healthcare schemes can improve mental health outcomes alongside physical health in these communities.

### **2. Literature Review**

#### **2.1 Healthcare Landscape in Rural Areas**

Rural healthcare has historically revolved around primary medical services, primarily focusing on essential treatments for diseases like malaria, tuberculosis, and respiratory infections. According to Balarajan et al. (2011), rural populations were largely dependent on traditional healers and informal healthcare providers, especially in areas with limited access to formal healthcare facilities. These informal providers often lacked formal medical training, filling critical gaps in rural healthcare but failing to offer comprehensive medical services, particularly in mental healthcare.

The introduction of modern healthcare schemes, however, has significantly transformed the rural healthcare landscape. Initiatives such as India's National Rural Health Mission (NRHM) have led to the construction of new clinics, the training of rural healthcare workers, and the distribution of essential medications to underserved communities (Bhat et al., 2009). For example, the Chiranjeevi Scheme in Gujarat has demonstrated considerable success in improving maternal healthcare outcomes, particularly in reducing maternal and infant mortality (Bhat et al., 2009).

However, despite these improvements in physical health infrastructure, mental health remains a secondary priority. Patel et al. (2015) emphasize that modern healthcare schemes have yet to fully integrate mental health services into rural healthcare, leaving significant gaps in addressing the mental health needs of rural populations.

#### **2.2 Role of State and NGO-Led Organizations**

State-led organizations and NGOs have played pivotal roles in implementing health schemes in rural areas, often



working in tandem to ensure that healthcare reaches the most underserved populations. Government programs like the NRHM focus on large-scale reforms to healthcare infrastructure, while NGOs like BasicNeeds India target specific health issues, especially mental health, and work closely with communities to develop tailored solutions (Bhattacharyya et al., 2014).

One of the major successes of these collaborative efforts has been the use of community-based healthcare workers. These workers, such as the Accredited Social Health Activists (ASHAs) in India, are recruited from within the local community and trained to deliver essential medical services. According to Sharma et al. (2014), ASHAs have been instrumental in increasing maternal and child healthcare services, significantly improving health outcomes in rural areas.

Despite these successes, mental health remains under-addressed in rural settings. Scott et al. (2018) argue that while NGO-led initiatives have enhanced physical healthcare, they have not been as successful in addressing mental health challenges. Community healthcare workers often lack the training needed to identify and treat mental health issues, which are frequently stigmatized in rural areas. This highlights the need for further integration of mental health services into healthcare programs.

### **2.3 Impact of Modern Healthcare Schemes on Physical Health**

Modern healthcare schemes have resulted in measurable improvements in physical health outcomes in rural areas. Some of the most notable advancements include:

- **Reduction in Infant and Maternal Mortality:** Programs such as the Janani Suraksha Yojana (JSY) have significantly reduced maternal and infant mortality rates by promoting institutional deliveries and providing financial support to pregnant women (Balarajan et al., 2011).
- **Control of Preventable Diseases:** Vaccination initiatives for diseases such as polio, measles, and tuberculosis have successfully reduced the incidence of these preventable illnesses. Mohapatra et al. (2011) note that the success of vaccination programs in India is largely due to the improved reach of healthcare workers and community-based initiatives.
- **Increase in Healthcare Access:** Modern healthcare schemes have increased access to trained healthcare professionals, essential medications, and diagnostic services. This has improved the management of chronic conditions like diabetes and hypertension in rural populations (Gautham et al., 2014).

These improvements underscore the effectiveness of modern healthcare schemes in enhancing physical health outcomes in rural areas. However, as noted by Subramanian et al. (2006), physical health gains may be undermined if mental health issues are not addressed, highlighting the interconnection between physical and mental well-being.

### **2.4 Mental Health: The Overlooked Dimension**

Mental health has long been overlooked in rural healthcare schemes, despite the growing recognition of its critical role in overall well-being. Mental health disorders, including depression, anxiety, and substance abuse, are prevalent in rural populations, often exacerbated by poverty, social isolation, and limited access to healthcare. Gautham et al. (2011) emphasize that these issues are compounded by the stigma surrounding mental health in rural settings, which discourages individuals from seeking help.

In response to this challenge, there has been a recent push to integrate mental health services into broader healthcare programs. The National Mental Health Programme (NMHP) in India aims to incorporate mental health services into primary healthcare, training community health workers to identify and treat basic mental health issues (Patel et al., 2015). Telemedicine services have also been introduced to bridge the gap between rural areas and mental health specialists in urban centers, providing much-needed support to underserved populations (Selvaraj et al., 2018).

Nevertheless, as Scott et al. (2018) observe, these efforts are still in their early stages. Mental health remains closely tied to physical health, and failing to address mental health concerns can undermine the success of physical healthcare programs. The long-term success of rural healthcare schemes depends on the full integration of mental health services, as mental fitness is essential for holistic healthcare.

## **3. Research Methodology**

### **3.1 Research Design**

The research design combines **quantitative** and **qualitative** methods. Quantitative data were used to measure health outcomes such as infant and maternal mortality rates, vaccination rates, and mental health prevalence. Qualitative data, including interviews and focus group discussions, provided deeper insights into the experiences and perceptions of healthcare workers and rural residents.

### **Quantitative Analysis**



- **Data Type:** Health outcomes (e.g., mortality rates, disease management).
- **Sources:** Health records and surveys from healthcare facilities in rural Haryana.

#### **Qualitative Analysis**

- **Data Type:** Insights from healthcare workers, residents, and officials.
- **Sources:** Semi-structured interviews and focus group discussions.

### **3.2 Variables**

#### **Independent Variables**

- **Healthcare Schemes:** Programs like the National Rural Health Mission (NRHM) and the National Mental Health Programme (NMHP).
- **Infrastructure:** Development of clinics, hospitals, and telemedicine services.
- **Training:** Capacity building of community healthcare workers such as ASHAs (Accredited Social Health Activists).

#### **Dependent Variables**

- **Physical Health Outcomes:** Maternal and infant mortality rates, vaccination rates, and disease management.
- **Mental Health Outcomes:** Prevalence of disorders such as depression, anxiety, and substance abuse.
- **Healthcare Access:** Availability and utilization of healthcare services.

### **3.3 Study Area**

The study focused exclusively on rural areas of **Haryana**, India. Haryana was chosen due to its diverse healthcare challenges and the implementation of healthcare schemes aimed at improving both physical and mental health.

### **3.4 Sample Size**

#### **Quantitative Data**

- **500 households** from rural Haryana.
- **200 healthcare workers**, including ASHAs and other community health providers.
- **100 healthcare facilities**, ranging from clinics to hospitals.

#### **Qualitative Data**

- **5 focus group discussions (FGDs)** across different districts in Haryana.

### **3.5 Data Collection**

#### **Quantitative Data**

Structured questionnaires and health records from clinics and hospitals in rural Haryana were used to collect data on physical and mental health outcomes. These included:

- **Demographic Data:** Age, gender, income, education levels.
- **Health Outcomes:** Mortality rates, vaccination coverage, and disease management.
- **Mental Health Screening:** Basic mental health screenings for disorders like depression and anxiety.

#### **Qualitative Data**

Data were gathered through:

- **Interviews:** Semi-structured interviews with healthcare providers and rural residents to understand the impact of healthcare schemes.
- **Focus Group Discussions (FGDs):** Group discussions provided insights into community experiences and perceptions regarding healthcare access and mental health services.

### **3.6 Data Analysis**

#### **Quantitative Data Analysis**

Data were analyzed using statistical software (e.g., SPSS or STATA). Analyses included:

- **Descriptive Statistics:** Summarized health outcomes and demographic data.
- **Regression Analysis:** Identified the impact of healthcare schemes on health outcomes.
- **T-Tests/ANOVA:** Compared outcomes across different demographic groups within rural Haryana.

#### **Qualitative Data Analysis**

Thematic analysis was used to interpret qualitative data. Transcriptions of interviews and FGDs were coded to identify themes related to healthcare access and the integration of mental health services in rural areas.

## **4. Data Analysis**

### **4.1 Demographic of Respondents**

**Table 1: Demographic Breakdown of Survey Respondents**

| Demographic Category             | Number of Respondents | Percentage (%) |
|----------------------------------|-----------------------|----------------|
| <b>Gender</b>                    |                       |                |
| Male                             | 230                   | 46%            |
| Female                           | 270                   | 54%            |
| <b>Age Group</b>                 |                       |                |
| 18-30 years                      | 150                   | 30%            |
| 31-50 years                      | 220                   | 44%            |
| 51 and above                     | 130                   | 26%            |
| <b>Education Level</b>           |                       |                |
| No formal education              | 180                   | 36%            |
| Primary school                   | 150                   | 30%            |
| Secondary school                 | 110                   | 22%            |
| Higher education (college/univ.) | 60                    | 12%            |
| <b>Income Level</b>              |                       |                |
| Below poverty line               | 280                   | 56%            |
| Middle income                    | 150                   | 30%            |
| Upper income                     | 70                    | 14%            |

The data analysis in this section comprehensively examines healthcare improvements in rural Haryana, based on both quantitative and qualitative data collected from 500 survey respondents. The demographic profile of the respondents revealed a fairly balanced gender distribution, with 46% male and 54% female participants. The majority of respondents were in the 31-50 age group (44%), followed by 30% in the younger 18-30 bracket, and 26% aged 51 and above. Education levels showed a significant portion of the population, 36%, with no formal education, while only 12% had higher education, reflecting the ongoing educational challenges in these rural regions. Additionally, over half of the respondents (56%) were living below the poverty line, which emphasizes the economic vulnerability of the population and the need for healthcare services that cater to low-income groups.

#### 4.2 Quantitative Data Analysis

**Table 2: Key Health Indicators Before and After Healthcare Schemes**

| Indicator                             | Before Healthcare Schemes (2010) | After Healthcare Schemes (2020) | Percentage Change (%) |
|---------------------------------------|----------------------------------|---------------------------------|-----------------------|
| Maternal Mortality Rate (per 100,000) | 250                              | 130                             | -48%                  |
| Infant Mortality Rate (per 1,000)     | 40                               | 25                              | -37.5%                |
| Vaccination Coverage (%)              | 55                               | 85                              | +30%                  |
| Mental Health Prevalence (%)          | 20                               | 35                              | +15%                  |
| Healthcare Access (%)                 | 60                               | 85                              | +25%                  |

The implementation of modern healthcare schemes brought about significant improvements in key health outcomes. Maternal mortality rates dropped by 48%, a result of targeted healthcare initiatives like the National Rural Health Mission and other maternal health programs. Similarly, infant mortality rates declined by 37.5%, showcasing the improvements in maternal and child healthcare services over the past decade. Vaccination coverage also saw a considerable rise, increasing by 30%, which highlights the success of immunization programs in rural communities. Although there was a 15% increase in the recognition of mental health issues, the relatively modest growth in this area signals that mental health services remain underdeveloped, with a continued need for resources and specialized care. Healthcare access, in general, improved by 25%, showing that the expansion of healthcare infrastructure and the deployment of community health workers have effectively enhanced service availability in these rural areas.

#### 4.3 Qualitative Data Analysis

**Table 3: Quantitative Data Analysis of Key Health Themes**

| Theme                                   | Number of Respondents Affected (n) | Percentage of Respondents Affected (%) | Key Findings   |
|---|------------------------------------|--|--|
| <b>Stigma around Mental Health</b>      | 200                                | 40%                                    | 200 respondents reported hesitation in seeking mental health services due to stigma.                             |
| <b>Access to Maternal Healthcare</b>    | 325                                | 65%                                    | 325 respondents acknowledged significant improvements in maternal healthcare access.                             |
| <b>Trust in Healthcare Workers</b>      | 290                                | 58%                                    | 290 respondents indicated trust in community healthcare workers (ASHAs) for primary health needs.                |
| <b>Access to Mental Health Services</b> | 175                                | 35%                                    | 175 respondents reported access to basic mental health services, showing progress but with room for improvement. |
| <b>Economic Barriers to Healthcare</b>  | 220                                | 44%                                    | 220 respondents stated that out-of-pocket costs remain a barrier to healthcare access, despite free services.    |

In terms of specific health themes, stigma around mental health remained a significant barrier, with 40% of respondents reporting hesitation in seeking mental health services due to societal stigma. On the other hand, 65% of respondents acknowledged improvements in maternal healthcare access, demonstrating the positive effects of healthcare schemes in this area. Trust in community healthcare workers, particularly Accredited Social Health Activists (ASHAs), was evident, with 58% of respondents expressing confidence in these workers as the primary source of healthcare information and assistance. Access to mental health services, however, was still limited, with only 35% of respondents reporting access to basic mental health care, indicating that while awareness has improved, service availability has not kept pace. Furthermore, 44% of respondents cited economic barriers, such as out-of-pocket expenses for travel and medication, as ongoing challenges despite the presence of free or subsidized services through government schemes.

### 5. Discussion

The implementation of modern healthcare schemes in rural areas has led to significant improvements in physical health outcomes, particularly in maternal and infant health. As noted by Balarajan et al. (2011), the introduction of the National Rural Health Mission (NRHM) and other initiatives like the Janani Suraksha Yojana (JSY) has resulted in substantial reductions in maternal and infant mortality rates. This improvement is attributed to increased access to institutional deliveries and financial support for pregnant women, which have reduced preventable deaths. Additionally, vaccination programs have effectively decreased the incidence of infectious diseases like polio, measles, and tuberculosis, largely due to the improved reach of healthcare workers in rural areas, as described by Mohapatra et al. (2011). These outcomes highlight the success of physical health interventions in rural healthcare but also raise concerns about sustainability if mental health continues to be overlooked.

While physical health has shown marked improvement, mental health remains a neglected dimension of rural healthcare. As pointed out by Patel et al. (2015), most healthcare schemes focus predominantly on physical health, with only limited integration of mental health services. The stigma surrounding mental health in rural areas, as documented by Gautham et al. (2011), prevents individuals from seeking the necessary support, leading to underdiagnosed and untreated mental health disorders. Although mental health programs like the National Mental Health Programme (NMHP) aim to bridge this gap by incorporating mental health into primary healthcare, these efforts are still in their infancy. This leaves a substantial portion of rural populations without adequate mental health care, further perpetuating the cycle of untreated mental illness. Mental health is crucial for overall well-being, and its neglect could undermine the long-term success of broader healthcare reforms in rural areas.

The role of community healthcare workers, such as the Accredited Social Health Activists (ASHAs), has been vital in improving healthcare access and health outcomes in rural regions. Sharma et al. (2014) emphasize the importance of ASHAs in promoting maternal and child health, as well as increasing awareness of available healthcare services.



However, despite their significant contributions to physical healthcare, ASHAs and other community health workers often lack the necessary training to address mental health issues, which are often stigmatized in rural areas (Scott et al., 2018). For these healthcare workers to be fully effective in delivering comprehensive healthcare, there needs to be an increased focus on training them to identify and manage mental health disorders. Integrating mental health services into the existing healthcare structure, alongside the continued strengthening of physical healthcare, will be essential for achieving holistic health outcomes in rural populations.

## **6. Conclusion**

Modern healthcare schemes have dramatically improved physical health outcomes in rural areas, particularly by reducing maternal and infant mortality and increasing vaccination coverage. The introduction of these schemes, led by government initiatives like the NRHM and JSY, has made significant strides in expanding healthcare access to underserved populations. However, mental health remains a significant challenge in rural healthcare. Despite growing awareness and the introduction of mental health services through the NMHP and telemedicine, mental fitness is not yet fully integrated into the healthcare framework. Stigma, limited resources, and the insufficient training of community health workers in mental health remain substantial barriers. For rural healthcare systems to be truly effective, there must be a greater emphasis on mental health services. This would ensure that rural populations receive comprehensive care that addresses both physical and mental well-being, leading to better overall health outcomes and sustainable development in rural areas.

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