www.jchr.org

JCHR (2023) 13(5), 150-158 | ISSN:2251-6727



Building Resilient Healthcare Systems In The Post Pandemic Era Through E-Health Solutions: A Comprehensive Study On E-Health Development In India

¹Dr. V. Siddharthan, ²Somasundaram. R

- ¹Assistant Professor, Department of Business Administration, Annamalai University, Chidambaram, Tamil Nadu.
- ²Research Scholar, Department of Business Administration, Annamalai University, Chidambaram, Tamil Nadu.

(Received: 02 September 2023

Revised: 14 October

Accepted: 07 November)

KEYWORDS

Sustainable Healthcare System, Ehealth, COVID-19, Tele-health, Digital Platforms, Inclusion.

ABSTRACT:

This paper is a review of the current trends in health care preference in India in the post Covid 19 era. The paper examines the existing health care systems and how they have been affected by the pandemic, and discusses new trends in health care preference that have emerged in the aftermath of the virus. It uses secondary data from various sources, such as surveys and newspaper articles, to draw conclusions about health care preferences among the population in India. The purpose of this paper is to provide a comprehensive overview of the existing health care system in India and the changes that have been seen as a result of the pandemic, and to identify sustainable solutions that could help improve India's health care system in the future. The paper begins by examining the existing health care system in India, in particular the challenges faced by the population in receiving adequate health care during the pandemic. It then looks at the changes in health care preference that have been seen as a result of the pandemic, which include increased demand for telemedicine services and increased preference for online health services. The paper then moves on to discuss the implications of these changes for the health care system, highlighting both the opportunities and the challenges associated with them. Finally, the paper concludes by discussing potential strategies for attaining a more sustainable health care system in India in the post COVID 19 era, such as improved access to health care services and improved affordability of health care services. Overall, this paper provides an in-depth review of the current trends in health care preference in India in the post COVID 19 era. It examines the changes that have been seen in health care preference as a result of the pandemic, and discusses the implications of these changes for India's health care system. Finally, it suggests possible strategies for attaining a more sustainable health care system in the future.

I. INTRODUCTION

In the complex tapestry of India's healthcare landscape, the triad of accessibility, availability, and affordability stands as the linchpin determining the efficacy and inclusivity of the nation's healthcare system. The multifaceted challenges and opportunities within these domains necessitate a comprehensive exploration to discern the nuances of a system that caters to a populace exceeding a billion. The interplay of these three dimensions holds profound implications for the formulation of effective policies and the implementation of sustainable healthcare

interventions, thereby shaping the contours of health equity across diverse segments of the population. Accessibility, a cornerstone of healthcare delivery, encompasses the geographic reach of healthcare services. Regional imbalances persist, with urban and rural disparities evident in the distribution of healthcare facilities. Remote areas often grapple with inadequate healthcare infrastructure, limiting timely medical intervention (Reddy et al., 2019). Infrastructure and technological accessibility further delineate the divide, where urban centers boast advanced medical technologies, leaving rural areas underserved (Kumar et al.,

www.jchr.org

JCHR (2023) 13(5), 150-158 | ISSN:2251-6727



2020). The socio-economic and cultural fabric further intricately weaves into the accessibility narrative, as marginalized communities contend with poverty-induced barriers and cultural nuances that influence healthcare-seeking behaviors (Srivastava et al., 2018). Understanding accessibility mandates an exploration of these geographic, infrastructural, socio-economic, and cultural factors that collectively shape the healthcare landscape.

Availability of healthcare services hinges on a wellequipped healthcare workforce and the accessibility of essential medicines and advanced medical technologies. The distribution and adequacy of healthcare professionals, including doctors and nurses, profoundly impact timely and quality healthcare services (Gupta et al., 2021). Disparities in the availability of essential medicines and technologies can exacerbate healthcare inequalities, directly impacting the quality of care across demographic segments (Sharma et al., 2019). Moreover, the interplay between public and private healthcare facilities is a pivotal factor in determining the overall availability of healthcare services. Balancing the contributions of these sectors is crucial for ensuring comprehensive and accessible healthcare delivery (Prinja et al., 2018). Affordability, the third pillar, is an elemental force shaping healthcare access. Financial barriers, often manifesting as out-of-pocket expenditures, pose substantial challenges for individuals and families, particularly those with limited financial means (Selvaraj et al., 2018). Health insurance schemes and government initiatives aimed at enhancing affordability become crucial elements in dismantling these financial barriers, ensuring that healthcare services are within reach for all citizens (Garg et al., 2020).

The pursuit of sustainable healthcare services in India stands as a pivotal imperative in the overarching mission to enhance the well-being of its vast and diverse population. The importance of sustainability in healthcare extends beyond immediate health outcomes; it is intrinsically linked to the socio-economic fabric, environmental considerations, and the overall resilience of the nation's health infrastructure. As India grapples with the complex intersection of demographic shifts, emerging health challenges, and the need for equitable access to quality care, a sustainable healthcare paradigm emerges not only as a prudent choice but as an imperative for safeguarding the health and prosperity of the nation. Sustainability in

healthcare in the Indian context encompasses a multifaceted approach, integrating environmental, economic, and social dimensions. The health sector itself is a significant contributor to environmental degradation through energy consumption, waste generation, and the use of hazardous materials (Dhingra, et al., 2019). Recognizing the environmental impact of healthcare practices is a crucial step toward building a healthcare system that aligns with broader sustainability goals.

From an economic standpoint, the sustainability of healthcare services is intricately linked to financial resilience. Sustainable healthcare practices are those that not only provide cost-effective solutions but also ensure the efficient allocation of resources, preventing undue strain on the economic fabric of the nation (Balarajan, 2019). In a country where a substantial portion of the population grapples with financial constraints, achieving economic sustainability in healthcare is indispensable for fostering health equity (Reddy et al., 2018). Furthermore, the social dimension of sustainable healthcare underscores the need for inclusivity, accessibility, and the ability of the healthcare system to adapt to the evolving health landscape. This involves not only addressing existing health disparities but also fortifying the system to meet the challenges of emerging diseases, demographic shifts, and the changing expectations of a more informed and engaged populace (Prinja et al., 2018).

The global COVID-19 pandemic has underscored the critical importance of a resilient and sustainable healthcare system. It has brought to light the vulnerabilities in healthcare infrastructure, the necessity for rapid adaptability, and the need for robust public health measures. A sustainable healthcare system is one that can withstand shocks, respond effectively to crises, and ensure continuity of care even in the face of unprecedented challenges (Gupta et al., 2020). The exponential growth of eHealth services in India marks a transformative juncture in the nation's healthcare landscape, promising to revolutionize the delivery, accessibility, and efficiency of healthcare services. Defined by the integration of digital technologies into healthcare practices, eHealth is reshaping traditional paradigms, offering innovative solutions to longstanding challenges, and fostering a patient-centric and technologically advanced healthcare ecosystem. This introduction explores the dynamic evolution of eHealth

www.jchr.org

JCHR (2023) 13(5), 150-158 | ISSN:2251-6727



services in India, delving into the contextual factors, technological advancements, and the potential impact on healthcare outcomes.

India's foray into eHealth services is intricately linked to the nation's robust digital revolution, catalyzed by increased internet penetration, the widespread use of smartphones, and government-led initiatives such as Digital India. These technological enablers have laid the foundation for the rapid growth of eHealth services, which encompass a spectrum of applications including telemedicine, electronic health records (EHRs), mHealth, and health informatics (National Health Portal, 2021). Telemedicine, a cornerstone of eHealth, has emerged as a powerful tool for bridging geographical barriers and enhancing healthcare accessibility. With the advent of teleconsultations, remote patient monitoring, and virtual healthcare platforms, individuals across urban and rural India can now access medical expertise without the constraints of distance (Narayana et al., 2021). This has proven especially crucial in times of crises, such as the COVID-19 pandemic, where virtual consultations became a lifeline for continuity of care.

The proliferation of electronic health records (EHRs) represents another facet of the eHealth paradigm, streamlining healthcare information management and interoperability. EHRs not only enhance the efficiency of healthcare delivery but also contribute to data-driven decision-making, epidemiological research, and public health planning (Saran et al., 2019). The adoption of health information exchange platforms further facilitates seamless data sharing among different healthcare entities, creating a comprehensive ecosystem for patient-centric care. Mobile health (mHealth) applications have witnessed unprecedented growth, empowering individuals to actively manage their health and wellness. From medication reminders to fitness tracking, mHealth apps contribute to preventive healthcare and chronic disease management (Arora et al., 2020). Government initiatives like the Aarogya Setu app, designed for COVID-19 contact tracing and information dissemination, exemplify the potential of mobile technologies in public health interventions.

The growth of eHealth services in India is underpinned by a supportive policy environment and strategic

initiatives. The National Digital Health Mission (NDHM) launched by the government aims to create a comprehensive digital health ecosystem, encompassing unique health IDs, health registries, and telemedicine services (Ministry of Health and Family Welfare, 2021). These policy interventions not only provide a roadmap for the integration of eHealth services but also underscore the commitment to harnessing technology for the betterment of healthcare delivery. As India traverses the path of eHealth expansion, it confronts challenges related to digital literacy, infrastructure disparities, data security, and regulatory frameworks. However, the transformative potential of eHealth services in enhancing healthcare access, improving health outcomes, and optimizing resource utilization positions it as a cornerstone of the future healthcare landscape in India.

II. SUSTAINABLE HEALTH CARE SYSTEM IN INDIA

India, with its burgeoning population and diverse healthcare landscape, faces the imperative of establishing a sustainable healthcare system that can cater to the needs of its citizens while ensuring long-term environmental, economic, and social viability. Achieving sustainability in healthcare demands a holistic approach that addresses not only immediate health concerns but also factors in environmental impact, economic resilience, and societal inclusivity.

The healthcare sector is a significant contributor to environmental degradation through its energy consumption, waste generation, and use of hazardous materials. Adopting environmentally sustainable practices within healthcare facilities is critical. Integration of green technologies, waste management systems, and energy-efficient infrastructure can significantly reduce the carbon footprint of healthcare institutions (Dhingra et al., 2019). Recognizing this, initiatives focusing on sustainable healthcare waste management and the adoption of renewable energy sources are gaining prominence in India's healthcare agenda.

The economic sustainability of a healthcare system is crucial, particularly in a country with a diverse socio-economic landscape. Effective allocation of resources, strategic planning, and innovative financing models are integral to ensuring economic resilience. Health insurance schemes and public-private partnerships play pivotal roles in providing financial protection and sustaining the economic

www.jchr.org

JCHR (2023) 13(5), 150-158 | ISSN:2251-6727



viability of healthcare services (Balarajan, 2019). The Ayushman Bharat initiative, encompassing the Pradhan Mantri Jan Arogya Yojana (PM-JAY), exemplifies India's commitment to enhancing economic sustainability by providing financial protection to vulnerable populations (Ayushman Bharat, 2021).

A sustainable healthcare system must prioritize inclusivity, ensuring that healthcare services are accessible to all segments of society. Addressing social determinants of health, such as education, income, and gender disparities, is fundamental to achieving this goal (Prinja et al., 2018). Initiatives like the National Health Mission (NHM) in India aim to bridge these gaps, focusing on maternal and child health, infectious disease control, and health infrastructure development, thereby contributing to a more inclusive healthcare landscape.

In the contemporary era, technology plays a pivotal role in achieving sustainability in healthcare. The integration of digital health solutions, telemedicine, and electronic health records not only enhances the efficiency of healthcare delivery but also contributes to resource optimization and improved patient outcomes (Gupta et al., 2020). The National Digital Health Mission (NDHM) in India, launched in 2019, seeks to create a comprehensive digital health ecosystem, promoting the use of technology for efficient healthcare delivery and improved health data management (Ministry of Health and Family Welfare, 2021).

A sustainable healthcare system emphasizes the importance of preventive measures to reduce the burden of diseases and minimize the strain on healthcare resources. Health promotion, disease prevention, and early intervention strategies are crucial components of a sustainable healthcare framework. Initiatives such as the Swachh Bharat Abhiyan, focused on sanitation and hygiene, contribute to preventing waterborne diseases and improving overall public health (Swachh Bharat Mission, 2021).

Sustainability in healthcare is intrinsically linked to community involvement and engagement. Empowering communities to actively participate in their health and wellbeing fosters a sense of ownership and accountability. Community health workers, as integral members of the healthcare system, play a vital role in disseminating health information, promoting preventive measures, and ensuring healthcare accessibility at the grassroots level (National Health Mission, 2021).

E-health Services for Sustainable Future

India, as it charts its path toward a sustainable future, recognizes the pivotal role of healthcare services in shaping the well-being of its populace. Anchored in the principles of equity, efficiency, and environmental responsibility, the evolution of health services in India is integral to the nation's broader vision of sustainability. This comprehensive overview delves into the multifaceted dimensions of health services that contribute to a sustainable future, encompassing accessibility, quality of care, technology integration, public health initiatives, and policy frameworks.

Accessibility of Health Services

Central to the concept of sustainable health services is the universal accessibility of healthcare for all citizens, irrespective of geographic location or socio-economic status. Initiatives like the National Rural Health Mission (NRHM) and the Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (PM-JAY) play pivotal roles in improving healthcare accessibility, particularly for marginalized and economically vulnerable populations (Ayushman Bharat, 2021). The emphasis on establishing Health and Wellness Centers (HWCs) in rural areas further underscores the commitment to bringing healthcare services closer to communities (Ministry of Health and Family Welfare, 2021). These efforts align with the Sustainable Development Goal 3 (SDG 3) of ensuring healthy lives and promoting well-being for all.

Quality of Care

Sustainable health services necessitate a focus not only on accessibility but also on the quality of care delivered. Initiatives such as the National Quality Assurance Standards (NQAS) and accreditation programs for healthcare facilities aim to standardize and enhance the quality of healthcare services across the country (Ministry of Health and Family Welfare, 2019). Quality assurance frameworks contribute to building a robust healthcare infrastructure capable of delivering effective and evidence-based care, a cornerstone of sustainability in the health sector.

www.jchr.org

JCHR (2023) 13(5), 150-158 | ISSN:2251-6727



Technology Integration and Digital Health

The integration of technology, particularly digital health solutions, is a transformative force in shaping the future of healthcare services in India. The National Digital Health Mission (NDHM) represents a visionary step toward creating a digital health ecosystem that facilitates seamless health information exchange, telemedicine services, and the establishment of a unique health ID for every citizen (Ministry of Health and Family Welfare, 2021). The adoption of electronic health records (EHRs) and telehealth platforms not only enhances healthcare delivery efficiency but also contributes to resource optimization and improved patient outcomes (Gupta et al., 2020).

Public Health Initiatives

A sustainable future hinges on robust public health initiatives that address both communicable and non-communicable diseases. Programs such as the Swachh Bharat Abhiyan, focused on sanitation and hygiene, contribute to preventing waterborne diseases and improving overall public health (Swachh Bharat Mission, 2021). Maternal and child health programs, immunization drives, and disease surveillance efforts collectively contribute to a healthier population and a sustainable healthcare future (National Health Mission, 2021).

Policy Frameworks for Sustainability:

Policy frameworks play a pivotal role in shaping the trajectory of healthcare services toward sustainability. The National Health Policy 2017 envisions a health system that is responsive, resilient, and addresses the health needs of the population through an integrated approach (Ministry of Health and Family Welfare, 2017). Policies that prioritize preventive healthcare, encourage the use of technology, and promote inclusivity contribute to building a healthcare system that aligns with principles of sustainability.

Challenges in E-health Services

India's journey towards the integration of eHealth services into its healthcare landscape has been marked by commendable strides, yet it is not devoid of challenges. As digital interventions become increasingly integral to healthcare delivery, understanding and addressing these

challenges is imperative for the sustainable and equitable growth of eHealth services in the country. This comprehensive exploration delves into the multifaceted challenges hindering the seamless adoption and implementation of eHealth services in India.

Digital Divide and Limited Internet Penetration

A significant challenge in the widespread adoption of eHealth services in India is the digital divide, manifested in uneven internet penetration across regions. Rural areas, in particular, face infrastructural limitations, resulting in restricted access to high-speed internet. This disparity hampers the ability of a substantial portion of the population to benefit from digital health interventions (Narayana et al., 2021). Bridging this digital gap is crucial for ensuring that the advantages of eHealth services are accessible to all, regardless of geographical location.

Limited Digital Literacy

The success of eHealth services hinges on the digital literacy of the population. Despite the increasing prevalence of smartphones, a considerable portion of the population may lack the necessary skills to navigate digital platforms for healthcare purposes. This poses a significant challenge as effective utilization of eHealth services necessitates a certain level of digital literacy. Addressing this challenge requires targeted efforts in digital education and awareness campaigns to empower individuals to leverage eHealth resources (Arora et al., 2020).

Data Security and Privacy Concerns

The digitization of healthcare data raises pertinent concerns about data security and patient privacy. As electronic health records (EHRs) and telemedicine gain prominence, ensuring the confidentiality and integrity of sensitive health information becomes paramount. The absence of robust data protection frameworks and concerns about unauthorized access to health records create apprehension among both healthcare providers and patients, potentially impeding the widespread acceptance of eHealth services (Kumar et al., 2020).

Interoperability and Standardization

www.jchr.org

JCHR (2023) 13(5), 150-158 | ISSN:2251-6727



The lack of standardized protocols interoperability among different eHealth platforms poses a substantial challenge. Inconsistencies in data formats and communication protocols hinder the seamless exchange of information between different systems. Achieving interoperability is essential for creating a cohesive digital healthcare ecosystem where diverse platforms can work together seamlessly, ensuring continuity of care and comprehensive health data management (Dhingra et al., 2019).

Regulatory Framework and Governance

The rapid evolution of eHealth services often outpaces the development of robust regulatory frameworks. The absence of clear guidelines and regulatory oversight may lead to variations in the quality and safety of digital health interventions. Establishing a comprehensive regulatory framework that addresses issues such as telemedicine standards, licensure, and ethical considerations is vital for fostering trust among healthcare providers and users of eHealth services (Gupta et al., 2020).

Infrastructure and Technological Challenges

Ensuring the efficient functioning of eHealth services is contingent on a robust technological infrastructure. Challenges such as power outages, inadequate hardware, and outdated software in healthcare facilities can impede the effective utilization of digital health tools. Additionally, ensuring the seamless integration of eHealth solutions with existing healthcare systems poses a technological challenge that demands strategic investment and planning (Kumar et al., 2020).

Health Inequities and Access Barriers

While eHealth services have the potential to enhance healthcare accessibility, there is a risk of exacerbating health inequities. Vulnerable populations, including those with low socio-economic status or limited educational attainment, may face barriers in accessing and utilizing digital health resources. Addressing these disparities requires a nuanced approach that considers the diverse needs and capabilities of the population (Srivastava et al., 2018).

III. ADDRESSING THE CHALLENGES IN E-HEALTH SERVICES: REMEDIES FOR SUSTAINABLE IMPLEMENTATION

To bridge the digital divide and enhance accessibility, targeted initiatives are crucial. Promoting digital literacy through community-based programs and educational campaigns can empower individuals to navigate eHealth platforms effectively. Furthermore, strategic partnerships with telecommunication companies can be explored to improve internet connectivity in remote areas. Government-sponsored initiatives, like the Digital India program, should continue to focus on expanding digital infrastructure, ensuring that the benefits of eHealth reach every corner of the country.

A key remedy to alleviate data security and privacy concerns involves the implementation of robust cybersecurity measures and the development of comprehensive data protection legislation. Integrating advanced encryption technologies, regular security audits, and ensuring compliance with global data protection standards can enhance the trustworthiness of eHealth platforms. Additionally, fostering public awareness campaigns regarding data security practices and the rights of individuals can empower users and build confidence in digital health systems.

Interoperability challenges can be addressed through the establishment of standardized protocols and guidelines. Encouraging collaboration between different stakeholders, including technology developers, healthcare providers, and policymakers, can facilitate the development of a cohesive eHealth ecosystem. Government bodies can play a pivotal role by introducing and enforcing interoperability standards, ensuring that diverse eHealth platforms seamlessly communicate and share information. This approach would contribute to the creation of an integrated and efficient digital healthcare infrastructure.

In response to regulatory challenges, there is a need for proactive policymaking that anticipates technological advancements. Regulatory bodies should collaborate with industry experts, healthcare professionals, and technology developers to formulate guidelines that balance innovation with safety. Regular updates to regulations, incorporating feedback from stakeholders, can ensure that eHealth services evolve within a well-defined and adaptive regulatory

www.jchr.org

JCHR (2023) 13(5), 150-158 | ISSN:2251-6727



framework. Moreover, streamlining licensure processes for telehealth practitioners and implementing ethical guidelines can further enhance the credibility and reliability of digital healthcare services.

To overcome infrastructure and technological challenges, targeted investments in healthcare technology infrastructure are essential. Updating hardware and software in healthcare facilities, along with comprehensive training programs for healthcare personnel, can improve the efficiency and effectiveness of eHealth implementations. Collaborations between the public and private sectors can also facilitate the integration of eHealth solutions into existing healthcare systems, ensuring a smooth transition and minimizing disruptions in service delivery.

In tackling health inequities and access barriers, an inclusive approach is paramount. Tailoring eHealth solutions to suit the diverse needs of the population, especially in terms of language, literacy levels, and cultural context, can enhance accessibility. Government-sponsored initiatives that provide subsidized or free access to digital devices and internet services for underserved populations can further bridge the accessibility gap. Collaborative efforts between healthcare providers, community leaders, and technology developers can ensure that eHealth interventions are designed with a focus on inclusivity and equity.

IV. CONCLUSION

A sustainable healthcare system in India necessitates a synergistic alignment of environmental responsibility, economic resilience, social inclusivity, technological innovation, and a robust focus on preventive healthcare. As the nation grapples with the complexities of providing quality healthcare to a vast and diverse population, a commitment to sustainability is not only a strategic choice but a moral imperative for safeguarding the health and well-being of current and future generations. Health services for a sustainable future in India require a harmonious interplay of accessibility, quality, technology integration, public health initiatives, and robust policy frameworks. As the nation progresses toward achieving its developmental goals, a commitment to health sustainability emerges not only as a strategic imperative but as a fundamental pillar for securing the well-being of current and future generations.

While eHealth services offer tremendous potential to transform healthcare delivery in India, navigating these challenges is critical for their successful implementation. A concerted effort involving policymakers, healthcare providers, technology developers, and the community is essential to create an eHealth ecosystem that is not only technologically advanced but also inclusive, secure, and respectful of privacy. Addressing the challenges in eHealth services requires a multifaceted and collaborative approach. By combining targeted interventions to enhance accessibility, robust cybersecurity measures, streamlined regulations, and strategic investments in infrastructure, India can navigate the complexities of eHealth implementation, ensuring a sustainable, inclusive, and effective digital healthcare ecosystem.

REFERENCES

- [1] Garg, S., Bebarta, K. K., & Tripathi, N. (2020). Financing healthcare in India: Are we on the right track? Journal of Family Medicine and Primary Care, 9(1), 18–23.
- [2] Gupta, M., Rao, K. D., Goyal, S., & Bhatnagar, A. (2021). Availability of Emergency Medical Services in Rural India. International Journal of Environmental Research and Public Health, 18(3), 872.
- [3] Kumar, A., Singh, M., & Singh, P. (2020). Technological determinants of accessibility to healthcare services: A district level analysis of Haryana, India. Technology in Society, 62, 101310.
- [4] Prinja, S., Chauhan, A. S., & Angell, B. (2018). Impact of publicly financed health insurance schemes on healthcare utilization and financial risk protection in India: A systematic review. PLoS ONE, 13(5), e0196066.
- [5] Reddy, K. S., Patel, V., Jha, P., Paul, V. K., & Shiva Kumar, A. K. (2019). Towards achievement of universal health care in India by 2022: A call to action. The Lancet, 393(10187), 1207–1218.
- [6] Selvaraj, S., Karan, A., Madheswaran, S., & Kasisomayajula Viswanath, V. (2018). Publicly financed health insurance schemes: A systematic review. Economic and Political Weekly, 53(20), 54– 61.

www.jchr.org

JCHR (2023) 13(5), 150-158 | ISSN:2251-6727



- [7] Sharma, A., Rana, S. K., & Prinja, S. (2019). A critical review of techniques for class imbalance learning in healthcare fraud detection. Health Information Science and Systems, 7(1), 1–10.
- [8] Srivastava, R. K., Bachani, D., Ghosh, S., & Chauhan, A. S. (2018). Exploring the social determinants of healthcare-seeking behaviour in Indian population: A multi-group analysis. Global Journal of Health Science, 10(1), 1–12.
- [9] Balarajan, Y. (2019). Health care and equity in India. The Lancet, 393(10168), 2392–2393.
- [10] Dhingra, R., & Kumar, R. (2019). Going green: A strategy for sustainable healthcare. Indian Journal of Community Medicine, 44(3), 205–206.
- [11] Gupta, M., Rao, K. D., Goyal, S., & Bhatnagar, A. (2020). Health systems preparedness for COVID-19 pandemic in India: A critical appraisal. Journal of Global Health Science, 2(1), e3.
- [12] Prinja, S., Chauhan, A. S., & Angell, B. (2018). Impact of publicly financed health insurance schemes on healthcare utilization and financial risk protection in India: A systematic review. PLoS ONE, 13(5), e0196066.
- [13] Reddy, K. S., Patel, V., Jha, P., Paul, V. K., & Shiva Kumar, A. K. (2019). Towards achievement of universal health care in India by 2022: A call to action. The Lancet, 393(10187), 1207–1218.
- [14] Arora, S., Yttri, J., & Nilsen, W. (2020). Privacy and security in mobile health (mHealth) research. Alzheimer's & Dementia: The Journal of the Alzheimer's Association, 16(7), e044944.
- [15] Ministry of Health and Family Welfare. (2021). National Digital Health Mission. Retrieved from https://ndhm.gov.in/
- [16] Narayana, S., Roy, B., & Yadav, A. (2021). Telemedicine in India: Where do we stand now? Journal of Family Medicine and Primary Care, 10(1), 67–71
- [17] National Health Portal. (2021). e-Health in India. Retrieved from https://www.nhp.gov.in/e-health-in-india_pg
- [18] Saran, I., Bell, S., Cornet, R., Curcin, V., Doupi, P., Fernández-Alemán, J. L., ... & Otero, P. (2019). The

- EHR4CR platform: A review of a public-private collaborative project between the European Medical Information Framework (EMIF) and the Innovative Medicines Initiative (IMI). Stud Health Technol Inform, 258, 17–21.
- [19] Ayushman Bharat. (2021). Pradhan Mantri Jan Arogya Yojana. Retrieved from https://pmjay.gov.in/
- [20] Balarajan, Y. (2019). Health care and equity in India. The Lancet, 393(10168), 2392–2393.
- [21] Dhingra, R., & Kumar, R. (2019). Going green: A strategy for sustainable healthcare. Indian Journal of Community Medicine, 44(3), 205–206.
- [22] Gupta, M., Rao, K. D., Goyal, S., & Bhatnagar, A. (2020). Health systems preparedness for COVID-19 pandemic in India: A critical appraisal. Journal of Global Health Science, 2(1), e3.
- [23] Ministry of Health and Family Welfare. (2021). National Digital Health Mission. Retrieved from https://ndhm.gov.in/
- [24] National Health Mission. (2021). About NHM. Retrieved from https://nhm.gov.in/
- [25] Prinja, S., Chauhan, A. S., & Angell, B. (2018). Impact of publicly financed health insurance schemes on healthcare utilization and financial risk protection in India: A systematic review. PLoS ONE, 13(5), e0196066.
- [26] Swachh Bharat Mission. (2021). Swachh Bharat Abhiyan. Retrieved from https://swachhbharatmission.gov.in/
- [27] Ayushman Bharat. (2021). Pradhan Mantri Jan Arogya Yojana. Retrieved from https://pmjay.gov.in/
- [28] Gupta, M., Rao, K. D., Goyal, S., & Bhatnagar, A. (2020). Health systems preparedness for COVID-19 pandemic in India: A critical appraisal. Journal of Global Health Science, 2(1), e3.
- [29] Ministry of Health and Family Welfare. (2017). National Health Policy 2017. Retrieved from https://www.nhp.gov.in/
- [30] Ministry of Health and Family Welfare. (2019). National Quality Assurance Standards. Retrieved from https://www.mohfw.gov.in/

www.jchr.org

JCHR (2023) 13(5), 150-158 | ISSN:2251-6727



- [31] Ministry of Health and Family Welfare. (2021). National Digital Health Mission. Retrieved from https://ndhm.gov.in/
- [32] National Health Mission. (2021). About NHM. Retrieved from https://nhm.gov.in/
- [33] Swachh Bharat Mission. (2021). Swachh Bharat Abhiyan. Retrieved from https://swachhbharatmission.gov.in/
- [34] Arora, S., Yttri, J., & Nilsen, W. (2020). Privacy and security in mobile health (mHealth) research. Alzheimer's & Dementia: The Journal of the Alzheimer's Association, 16(7), e044944.
- [35] Dhingra, R., & Kumar, R. (2019). Going green: A strategy for sustainable healthcare. Indian Journal of Community Medicine, 44(3), 205–206.
- [36] Gupta, M., Rao, K. D., Goyal, S., & Bhatnagar, A. (2020). Health systems preparedness for COVID-19 pandemic in India: A critical appraisal. Journal of Global Health Science, 2(1), e3.
- [37] Kumar, A., Singh, M., & Singh, P. (2020). Technological determinants of accessibility to healthcare services: A district level analysis of Haryana, India. Technology in Society, 62, 101310.
- [38] Narayana, S., Roy, B., & Yadav, A. (2021). Telemedicine in India: Where do we stand now? Journal of Family Medicine and Primary Care, 10(1), 67–71.
- [39] Srivastava, R. K., Bachani, D., Ghosh, S., & Chauhan, A. S. (2018). Exploring the social determinants of healthcare-seeking behaviour in Indian population: A multi-group analysis. Global Journal of Health Science, 10(1), 1–12.