



## Universal Health Coverage- A Case Study of Indian Healthcare System during COVID-19 Pandemic

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### Author's contribution

The sole author designed, analysed, interpreted and prepared the manuscript.

### Article Information

DOI: 10.9734/AJMAH/2021/v19i130291

#### Editor(s):

- (1) Dr. Janvier Gasana, Kuwait University, Kuwait.
- (2) Dr. Maria Manuel Azevedo, University of Porto, Portugal.
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Complete Peer review History: <http://www.sdiarticle4.com/review-history/64987>

Opinion Article

Received 08 January 2021  
Accepted 10 February 2021  
Published 02 March 2021

### ABSTRACT

**Aim:** The main purpose of this paper is to look at the Indian healthcare system during the COVID-19 pandemic and how COVID-19 acts as barrier and also presents some opportunities towards the road of Universal Health Coverage (UHC).

**Background:** COVID-19 has exposed the vulnerability of health systems across the world and India is no exception. The World Health Organization (WHO) has kept the definition of UHC very flexible and has left on the country which is implementing it as to how much of the population and which services should be included in the scheme.

**Discussion:** India already has a unique flagship program Ayushman Bharat where it is trying to cover her most vulnerable population against catastrophic expenditure of health. This paper further investigates the progress of India towards UHC and how COVID-19 is acting as an impediment for India to progress towards it. On the other hand, it also poses some opportunities which had not been explored in the past. Health Systems Strengthening is the path towards the achievement of UHC and due to COVID-19, India has touched upon all the six building blocks which are needed to strengthen our system towards the achievement of UHC.

**Recommendations and Conclusion:** It recommends that Indian system should be more proactive than reactive; it also suggests following a systems-based approach and to not target the problem in

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silos. It also suggests increasing the government funding as well as establishment of proper public health cadre. To conclude, this paper also suggests that the government should include outpatient expenses into their scheme, and they should also concentrate towards building adequate infrastructure in order to face future pandemics like COVID-19.

*Keywords: COVID-19; Universal health coverage; Indian healthcare system.*

## 1. INTRODUCTION

The COVID-19 pandemic has exposed the vulnerability of health systems, as countries around the world struggle to cope with this catastrophe. It has revealed the gaps in the healthcare systems across the world and showed the interdependence between health security and economic security. Countries where progress have been made towards Universal Health Coverage (UHC) were better able to handle the shocks of the pandemic. According to the World Health Organization (WHO), UHC is a fundamental health right of every individual. By understanding health systems, we can develop strategies for dealing with future pandemics, thus saving millions of lives. Globally, UHC operates on two principles. First, ensuring that everyone can access the health services they need and secondly, that no one experiences financial hardship while accessing these services. All countries trying to achieve UHC should incorporate these two principles. The WHO also confirms that enjoying the highest attainable standard of health is a fundamental right and not a privilege [1].

## 2. METHODOLOGY

This article is based on secondary research which includes going through both newspaper and journal articles.

## 3.WHO DEFINITION OF UHC

UHC has often been misunderstood as free access to all health services for everyone. Yet, each country might have its own roadmap for implementing UHC. Therefore, the services and population covered under UHC, depend on the country and the resources at her disposal. However, UHC does emphasize access to health services and right to information as the basic human right [2].

## 4. UNIQUE FLAGSHIP PROGRAM OF THE GOVERNMENT OF INDIA

India also works on the two principles of UHC which have been put forth by WHO through its

flagship program. Ayushman Bharat is the flagship program developed by the Government of India (GoI) to achieve the United Nations (UN) Sustainable Development Goal (SDG) 3: Good Health and Wellbeing. This program tries to address the issues of the healthcare system holistically by covering all the preventive, promotive and ambulatory care services at primary, secondary, and tertiary care levels. It is rolled out in two inter-related parts. The first component is Health and Wellness Centres (HWCs) which cover primary healthcare settings. The WHO has already highlighted the need to invest in Primary Health Centres (PHC). India's plan to develop 150,000 HWCs by transforming existing sub-centres and primary health centres shows us her investment in PHCs [3], thereby ensuring physical access of services and trying to fulfill the first principle of UHC. These facilities cover all essential services like child and maternal health services, non-communicable diseases, essential medicines, and diagnostic services. They also counsel communities on choosing healthy behaviours and making adjustments to reduce chronic disease risk factors.

The second component of this program is the Pradhan Mantri Jan Arogya Yojana (PM-JAY), which mainly covers secondary and tertiary hospitalization care treatments for the bottom 40% of the population, equivalent to approximately 107.4 million poor and vulnerable families. It aims to provide a cover of 500,000 rupees per family on a floater basis. The PM-JAY has also been termed the world's largest insurance plan which is fully funded by the government and touches upon the second principle of UHC. It has also tried to cover various ailments by developing around 1300 packages for the people [3]. These two components of the scheme try to cover all the parts of the healthcare delivery pyramid.

## 5. IMPEDIMENTS TO ACHIEVING UHC DURING COVID-19

The WHO has put forth three impediments to the achievement of UHC. The first one is availability of resources [4]. India faces a severe Shortage

of medical professionals. While the recommended doctor to patient ratio by the WHO is 1 per 1000, India only has 0.62 per 1000. COVID-19 further increased the pressure on our healthcare workers. According to a study done on Healthcare Worker's (HCW) in India during COVID-19, they showed a significant increase in burnout. The doctors especially were 1.64 times more likely to suffer pandemic related burnout [5]. This clearly highlights the further stress COVID-19 is putting on the already scarce human resources.

The second barrier is dependence on direct payments, which includes OTC (Over The Counter) medicines and fees for consultations [4]. Though the plan attempts to protect people from catastrophic expenditures, which could arise due to hospitalization, it does not cover outpatient (OPD) expenses. According to the health ministry's household health expenditure, half of the out of pocket expenditures comes from OPDs purchasing medicines and hospitalization which covers only one-third of the total out of pocket expenditure [6]. People are not able to access OPD services due to the fear of contracting the COVID-19 virus, thereby increasing morbidity and mortality due to non-COVID-19 cases. This will also increase the out-of-pocket expenditure in non-COVID-19 cases therefore leading to an increase in private expenditure [7]. COVID-19 can therefore be termed a syndemic which is putting twice the amount of pressure on healthcare systems by causing an increase in expenditure due to COVID-19 and non-COVID-19 related cases.

The third barrier described is the inefficient and unequal use of resources [4]. Many states do not have appropriate facilities to cater for the needs of the people in their areas. Therefore, states empanel hospitals outside their state, which illustrates the inequitable distribution of resources between them [8]. COVID-19 further increases the pressure on the already overwhelmed health systems as only few hospitals out of the empanelled hospitals will be available for COVID-19 treatment. It has also been reported that 50% of the household expenditure on medicines is spent on unnecessary medication and diagnostic services [9] which shows inefficient use of resources. Isolated beds is one of the main requirements for the COVID-19 patients and there is a huge disparity amongst the states in this regard. The number of beds per 1000 persons in Andhra Pradesh, Madhya Pradesh and Tamil Nadu are

0.43, 0.36 and 0.41 respectively which shows a comparatively better scenario when compared to states like Karnataka and Bihar which both have a ratio of 0.02 [10]. Issues like inequitable distribution of resources and inefficient use of resources further increases the burden of this pandemic inequitably amongst some of the states which are already worse off.

## **6. LESSONS LEARNED DUE TO COVID-19 PANDEMIC**

COVID-19 serves as a "window of opportunity" for the achievement UHC which has not been taken seriously for a very long time. Health Systems Strengthening is a pathway towards the achievement of UHC, and this pandemic has touched upon all the six building blocks (Service Delivery; Healthcare Workforce; Information; Financing; Leadership/Governance; Medical Products, vaccines and technology) which have been ignored for a very long time. Due to this pandemic, there have been many innovations and uptakes which were previously not being taken in order to strengthen the healthcare system.

Service delivery was severely affected due to the pandemic. Many elective surgeries and visits were delayed in order to contain the disease. Telemedicine which was already present for a very long time has been appropriately embraced during this period. The government has launched e-sanjeevni OPD, a national teleconsultation service which has been made mandatory for healthcare providers. The Indian Medical Association is also issuing advisory against telemedicine consultation [11]. Therefore, telemedicine is able to provide consultation to those who are in need of it and is also solving the problem of accessibility. People who do not have access to healthcare workers because of the concentration of doctors in urban areas can do so through telemedicine. Telemedicine also solves the problem of less workforce to some extent.

Several steps and innovations have been taken in order to combat the issue of doctor shortage during the COVID-19 pandemic. Telemedicine has been able to solve the problem of accessibility and saves our scarce workforce from the COVID-19 pandemic. During the initial phase of the pandemic there were discussions around including fifth-year medical students into the workforce in order to combat the shortage of doctors in India [12]. Though these measures are good in the short run, they do not solve the

problem of scarcity of doctors. Consequently, the decision to open new medical colleges has been much appreciated, and in the last three years, 47 medical colleges have been recognized [13]. These initiatives which were earlier not acknowledged as being important have been highlighted properly during this pandemic.

The new COVIN App developed by the Ministry of Health is another milestone in the area of mHealth. This app touches upon two of the six blocks which is Information and Medical Products, Vaccines and Technology. The app has been developed by the centre where it will track distribution, procurement, circulation and storage of vaccine. It will help authorities to access data in real time, and decide who has to receive a shot on based on priority and who has already received it [14]. COVIN App is one such example where technology came into place for vaccine rollout. There have been other technologies also which are entering this sector after COVID-19 pandemic has hit the Indian systems. Arogya Setu App, Rapid Testing kits, digital kiosks in villages for people who do not have access to mobile devices, etc., are some of the other technologies which have been embraced at the user end to combat this pandemic which were not previously embraced by the citizens.

In 2017, India came up with a National Health Policy which aims to establish public health cadre in all the states. Its progress has been limited due to lack of political will, absence of a public health cadre at the central level and opposition of clinicians who feel threatened by the shift in their administrative powers. COVID-19 revealed that there is a need for strong public health leadership and governance and thereby touching upon the leadership/governance block. A reliable system will help us track infectious diseases, and can also give early signs on disease outbreak [15]. Post this pandemic, this cadre will help us in planning healthcare resource allocation, set up laboratories for testing, and they will also keep an eye on the changing situation so that we can have early warning for any outbreak [16]. Therefore, a strong public health cadre is needed in all states and its importance has been highlighted through this pandemic.

Increased financing of healthcare in India does not need any explanation, as the government spends only 1.2% of GDP which highlights the need for a considerable increase in the budget.

Less spending by the government leads to less infrastructure to deal with diseases. Thus, this leads to an increase in infection rates. India itself has a very fragile healthcare system where states have unequal distribution of resources leading to some of the states being worse off. There have been talks in the parliament where the government is planning to increase the budget to 2.5% of the GDP in a phased manner [17]. Therefore, COVID-19 has highlighted the much-needed increase in healthcare budgets which was pending for a very long time.

## 7. RECOMMENDATIONS

There are several recommendations which can be made after we have learnt the lessons from the COVID-19 pandemic. The first one being that the system should change from being reactive to more proactive one and should not wait for the sick to turn in and then react to it. The other recommendation which can be followed is to use systems-based approach to tackle the problem. As these problems cannot be solved in silos, a systems thinking approach has to be followed. It centres around the dynamic interaction and integration of people, processes, and technology. Systems thinking helps us to identify critical relationships and connections which are often ignored or undervalued during the implementation process [18]. This approach will help us reform the healthcare delivery system as well as assist the healthcare organisations with decreasing complication and unexplained practice variation between the organisations. Systems thinking also helps us to account for “unintended consequences” like during the COVID-19 pandemic the interventions like social distancing, market closures had negative impact on people’s mental health, non-COVID-19 ailments, etc. [19]. The next and the most prominent recommendation would be increase of government funding in the area of health. Its funding towards health has been chronically very less, and its peers like Brazil and Russia spend around 7-8% of the GDP on health [20] which is more compared to India. COVID-19 has highlighted that need and shown that there is direct relationship between health and other sectors like economy, transport, education, etc. There also needs to be a concentration on building a proper public health cadre for allocation of resources, to give us early signs of disease outbreak, and can focus on improving community health.

## 8. CONCLUSION

Health has been called a human right, therefore, establishing UHC is necessary for every country to achieve this right for her citizens. What is included in UHC is entirely dependent on the specific services and population a country wants to include in her plan. India has made progress but in order to address the barriers, the Government should also cover outpatient expenses which form an integral part of out-of-pocket expenses of the Indian population. The Indian Government lacks the infrastructure and medical staff necessary for the delivery of healthcare. To address this issue, India should try to build additional medical institutions with the aid of the private sector, so that medical staff can receive adequate training and the country can cater to the health needs of the area. These are the necessary steps which should be taken by the Government in order to address the impediments posed by COVID-19 pandemic.

COVID-19 also possess some opportunities and has tried to touch upon all the six blocks of strengthening healthcare systems during this pandemic. There are other recommendations that also should be followed in order to strengthen our healthcare system, which includes to change from reactive to a more proactive system. Then it also includes adopting of systems-based approach so that the problem is not solved in silos, there should also be an increase in funding and there is also a need to build a good public health cadre for proper management of future pandemics.

### CONSENT

It is not applicable.

### ETHICAL APPROVAL

It is not applicable.

### ACKNOWLEDGEMENT

The author is grateful to Mohini Parmar, University of Sydney for reviewing the article.

### COMPETING INTERESTS

Author has declared that no competing interests exist.

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*The peer review history for this paper can be accessed here:  
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