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Dealing With Covid-19

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Abstract: Different Indian groups, private government and civil society organizations had developed different strategies to combat Covid-19 unique threat through measures such as escalation vaccines and sample testing per day. In this focused review, we discussed the challenges they face and the success stories used to manage COVID-19. With the first wave of the Covid-19 epidemic starting late last year, India had just over 1.5 million isolated beds in all of the 15,375 billion medical facilities of 1.38 billion people. That translates to skosh over 1 bed per 1,000 people. Only 18% of these were oxygen-supported beds, according to the 2020-21 annual report of the Department of Health and Family Welfare.
Keywords: Covid, India, beds, government, epidemic .

I. INTRODUCTION

The World Health Organization (WHO) has confirmed COVID-19 as a pandemic 11 March 2020 but before this the Chinese government has confirmed for the first time Outbreak of Coronavirus 2019 (COVID-19) in Wuhan in 2019 31 December 2019. The smartest country closure, imposed on India for the second wave of the novel coronavirus, which has infected people in itall sectors of the economy. In India, so far (9 July 2021), there has been 30,752,950 confirmed cases of COVID-19 deaths and 405,939 deaths were reported WHO.

A. WHO Guidelines for Prevention/Control of COVID 19

Keep at least one meter between you you and others reduce the risk of infection if they cough, sneeze or talk. Keep a distance between you and others if in the house. Make wearing a mask a normal part of being around some people. Proper use, storage and hygiene inserting or discarding is essential to make the mask effective as far as possible. Basic steps universally accepted include mante and hand hygiene, to avoid close contact, use face mask, disinfectant and health monitor.7 The the ongoing epidemic of COVID-19 has once again brought benefits of proper hand hygiene (hand washing and the use of alcohol-based antibiotics) in the facility stage. As hand washing is not possible and is an available option always, use of hand made of alcohol.
sanitizers (rubs by hand) recommended by health professionals organizations, where the hands do not appear dirty. These sanitizers act as a powerful, fast-acting and effective solution with a wide range of antimicrobial.7 Hands act as a device for the exchange of viruses between living organisms and their location. The skin of the hands holds biodiversity from commensal to poten pathogen diseases. Therefore, adequate hand hygiene can greatly reduce disease transmission. The most common
agents used for manual disinfection sanitizers.
There are two main types of arrangements available: alcohol-based and alcohol-free. Alcohol-based, known as alcohol-based hand rubs (ABHRs), generally have ethyl alcohol (ethanol), isopropanol, or n-propanol in concentrating between 60 to 95% alcohol.

B. Analysis of COVID 19 Situation

The whole world has come together and joined hands with the same professional efforts to fight against Covid-19.

1) Steps Taken by Government to Conflict Pandemic

A crowded area such as Ladakh has exemplified the use of “Guidelines for Sanitation and Sanitation during the COVID-19 epidemic” by establishing a Walking Bathroom, used at the Indian Astronomical Observatory (IAO), in Hanle. Having one of The world's highest-ranked sites of optical, infrared and gamma-ray telescopes used by the Indian Institute of Astrophysics (IIA), Bengaluru, IAO12 has one set in all the world's highest sets. Optical, infrared and gamma-ray binoculars. Herbal Hand-Sanitizer Developed by Scientists of National Botanical Research Institute (NBRI)
As demand grew, the production of sanitizers saw a significant increase during the coronavirus outbreak. Because herbal alcohol-based herbal sanitizer was developed by NBRI under the Council of Scientific and Industrial Research (CSIR) -Aroma Mission in accordance with World Health Organization (WHO) guidelines. In addition to having 60% of isopropyl alcohol disinfectant it contains essential oils from Tulsi as a natural antibacterial agent. It not only lasts for 25 minutes but also prevents the skin from dehydration.

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2) India's First COVID-19 Home Bione

The COVID-19 home inspection kit was introduced by Bione with easy-to-use kit indicators after approval by required medical regulatory authorities. In development, the Company already has design a test kit that can provide a break from the impending fear of infection. It will encourage detection during the disease while acting as a blocking tool for others near the user, to separate the incumbent immediately. The kit has a value between `2000-3000 depending on international supply, increasing its reach to more people.

II. FIGHTING COVID

A. Vaccine

On January 16, 2021, India unveiled "World's Largest Vaccine Drug" with two immunizations: Covishield, the Indian version of the Oxford AstraZeneca vaccine, produced by the Serum Institute of India, and Covaxin, India's inactive vaccine COVID-19 , produced by Pharma company Bharat Biotech in partnership with the Indian Council of Medical Research (ICMR) and the National Institute of Virology (NIV). India aims to vaccinate the following people in phases: Health Workers (HCWs) and Senior Workers (FLWs), followed by citizens over the age of 45 and finally citizens over the age of 18.2 This requires registration at the forum a digital device called the COVID-19 Vaccine Intelligence Network (Co-WIN), after which the information of the vaccine you will visit and the time it will be shared with the recipient. The number of people receiving vaccine doses is tracked by this system. Managing vaccine stocks in thousands of local lists and health facilities is a major challenge. In a world prone to power outages and transmission errors, the poles are higher than ever. The Government of India and state-owned enterprises have partnered with the private sector to cover all the events. Custom refrigerators are manufactured to meet the need for compliance with covid-19 policy locally. These refrigerators can hold temperatures of 2-8 ° C for a few days in the event of a power outage.

According to the World Health Organization, the three main reasons for policy doubts are a lack of confidence (in the vaccine itself or in the healthcare system), dissatisfaction, and difficulty in achieving the vaccine. Some of these concerns are understandable, given the fact that both covid-19 vaccines were approved under emergency authorization without completing a full phase 3 trial. In a socially diverse, linguistic, religious, and cultural world like India, reasons for skepticism do not always lie in health matters, but are deeply rooted in the health and well-being of its citizens. Allegations of animal products, such as gelatin, in vaccines may contribute to law enforcement as they may conflict with the beliefs of some communities. [10] India's biggest challenge is to mobilize people to get vaccinated.

C. Hospitals

As the cases of COVID-19 began to increase in India in March 2020, the government began identifying and adding dedicated COVID hospitals, dedicated COVID health centers and COVID, both public and private care centers. From time to time, the government also provides information on how many COVID-19 beds were available at these facilities across the country, including ICU beds and oxygen-supported beds for critical cases, as well as beds for soft and pre-symptomatic cases. COVID hospitals and health centers offer all three types of beds. During the second wave, the health minister said, "the country has significantly strengthened the hospital infrastructure to manage COVID". There were COVID-2,084 dedicated hospitals, COVID-4,043 health centers and COVID-9,313 health care facilities across the country, according to a related report by the Department of Health and Family Welfare (MoHFW) on April 9. These figures represent a significant increase from April 2020. There were 255,168 oxygen-supported beds in the country on April 9, 2021, per service. This is more than double the 115,134 million beds in May 2020, but only 6% less since December 2020.

III. CHALLENGES FACED BY HEALTHCARE WORKERS (HCWS)

Health care systems in developed and developing countries are under tremendous pressure. Most of these responsibilities are aided by better life care workers to reduce the spread of the novel coronavirus. They risked their lives to do so. Here we are chighlight some of the challenges facing the main HCW as well proposing some weight reduction recommendations. In this epidemic, endless fighting, staff shortages and the things that are lacking, the majority are separated from their families, affecting them physically, mentally, and emotionally ally, which will increase illness and ill health. These mental health issues will not only affect the decision to make the ability, judgment and attention of HCWs, but also contribute to the understanding of the disease and have a long life a lasting impact on their overall well-being.

A. Self-Isolation, Social Isolation and Quarantine

These are key sentences that give you enough time resource collection systems and support capacity breaking the transmission chain. The virus spreads exponentially and is apparently very clear and many will accept it very soon. The state must provide facilities that will function as singles wards and farewell areas. All hospitals should use their own place to create task management committees ensuring that agreements are implemented for effective management. The loop should be complete, including public systems, governments and primary health care workers, as not everyone will report to hospitals, if community delivery will be complete.

B. Utilization of Training, Knowledge and Protocols to Follow

Comfort and commitment to working health system with an active system, which increases several times in between epidemic. Protocols in local languages for better understanding and awareness based on scientific research are helpful. Provides free shipping service in between at work and at home, childcare maintenance and affordable food vouchers reduce home stress and allow for one effort in respect of the health service.

C. Providing PPEs to All Frontline Workers

Health workers face a high risk of contracting the virus as they care for patients who are already infected. Protective clothing, adequate hand cleaners, washes and a head covering are essential items that should be provided at a reasonable price. As well as providing PPE at a reasonable price, disposal is also an important step in all clinical settings. As it could be one of the reasons for the spread of disease.

IV. CONCLUSION

So, how India is the topic of discussion in this work. In this work, how India is equipped to deal with the growing number of cases of COVID-19, to deal with the current situation such as negative effects on the economy, human health, and the environment during the closure of COVID-19 and the various measures taken. fighting the epidemic is being discussed. Three categories were emphasized here: economy, human life, and the environment. It is clear that although the first two have a negative impact on the corona, the environment has a very positive impact. However, the big question in India is whether COVID-19 or hunger is a real problem now? India's COVID-19 economy is stagnant, so the number of unemployed people will grow in the future. And, without a proper vaccine, the content of COVID-19 cases is a real challenge.

REFERENCES

[1] Hoffmann M, Kleine-Weber H, Krüger N, et al. SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor. Cell. 2020;181(2):271–280. doi:10.1016/j.cell.2020.02.052
[2] Fischer F, Raiber L, Boscher C, et al. COVID-19 and the elderly who cares? Front Public Health. 2020;8:151. doi:10.3389/Fpubh.2020.00151
[3] Vahia IV, Blazer DG, Smith GS, et al. COVID-19, mental health and aging: a need for new knowledge to bridge science and service. Am J Geriatr Psychiatry. 2020;28(7):695. doi:10.1016/j.jagp.2020.03.007
[4] COVID-19. Tracker India; 2020. Available from: https://www.COVID19india.org/. Accessed April 15, 2020.
[5] Census-India. 2011. Available from: https://censusindia.gov.in/2011-Common/CensusData2011.html. Accessed April 15, 2020.
[6] Mishra VK. India's projected aged population (65?), projected life expectancy at birth and insecurities faced by the aged population. Ageing International. 2020;45:72–84.
[7] De Witt Huberts J, Greenland K, Schmidt W-P, et al. Exploring the potential of antimicrobial hand hygiene products in reducing the infectious burden in low-income countries: an integrative review. Am J Infect Control. 2016;44(7):764–771. doi:10.1016/j.ajic.2016.01.045
[8] U.S. Food and Drug Administration. Temporary policy for preparation of certain alcohol based hand sanitizer products during the public health emergency (COVID-19). Guidance for Industry; March, 2020. Available from: https://www.fda.gov/media/136289/download. Accessed July 21, 2021.
[9] Edwards J, Patel G, Wareham DW. Low concentrations of commercial alcohol hand rubs facilitate growth of and secretion of extracelular proteins by multidrug-resistant strains of Acinetobacter baumannii. J Med Microbiol. 2007;56(12):1595–1599. doi:10.1099/Jmm.0.47442-0
[10] healthcare-in-europe.com [Internet]. Will resistant bacteria be the end of alcohol hand sanitizers? 2018. Available from: https://healthcare-in-europe.com/en/news/will-resistant-bacteria-be-the-end-of-alcohol-hand-sanitizers.html#. Accessed July 21, 2021.
[11] Lan J, Song Z, Miao X, et al. Skin damage among health care workers managing coronavirus disease-2019. J Am Acad Dermatol. 2020;82(5):1215–1216. doi:10.1016/j.jaad.2020.03.014
[12] The Government of India issues simple guidelines, for controlling spread of COVID-19 in densely populated areas. Available from: https://pib.gov.in/PressReleseDetailm.aspx?PRID=1614064. Accessed July 21, 2021
[13] TIFAC explores best methods to revive Indian economy post COVID-19. Available from: https://dst.gov.in/tifac-explores-best-methods-revive-indian-economy-post-COVID-19. Accessed July 21, 2021.
[14] TDB approves support for indigenous company for ramping up production of COVID-19 diagnostic kits. Available from: https://dst.gov.in/tdb-approves-support-indigenous-company-ramping-production-COVID-19-diagnostic-kits. Accessed July 21, 2021.

[15] NBRI scientists develop herbal hand-sanitizer. Available from: https://vigyanprasar.gov.in/isw/NBRI-scientists-develop-herbal-hand-sanitiser.html. Accessed July 21, 2021.
[16] Indian researchers to go for clinical trial of sepsis drug against novel coronavirus. Available from: https://vigyanprasar.gov.in/wp-content/uploads/Indian-researchers-to-go-for-clinical-trial-of-sepsis-drug-against-novel-coronavirus-21apr20.pdf. Accessed July 21, 2021.
[17] Advisory_on_Cepheid_Xpert_Xpress_SARS_CoV2_testing. Advisory_on_Cepheid_Xpert_Xpress_SARS_CoV2_testing. Available from: https://icmr.nic.in/sites/default/files/upload_documents/Advisory_on_Cepheid_Xpert_Xpress_SARS_CoV2_testing.pdf. Accessed July 21, 2021.
[18] AMU alumnus develops COVID-19 testing kit, approved by ICMR. Available from: https://www.amu.ac.in/about3.jsp?did=2495. Accessed July 21, 2021.
[19] Bione launches rapid COVID-19 at-home screening test kit after ICMR approval. Available from: https://zeenews.india.com/india/bione-launches-rapid-COVID-19-at-home-screening-test-kit-after-icmr-approval-2273752.html. Accessed July 21, 2021.

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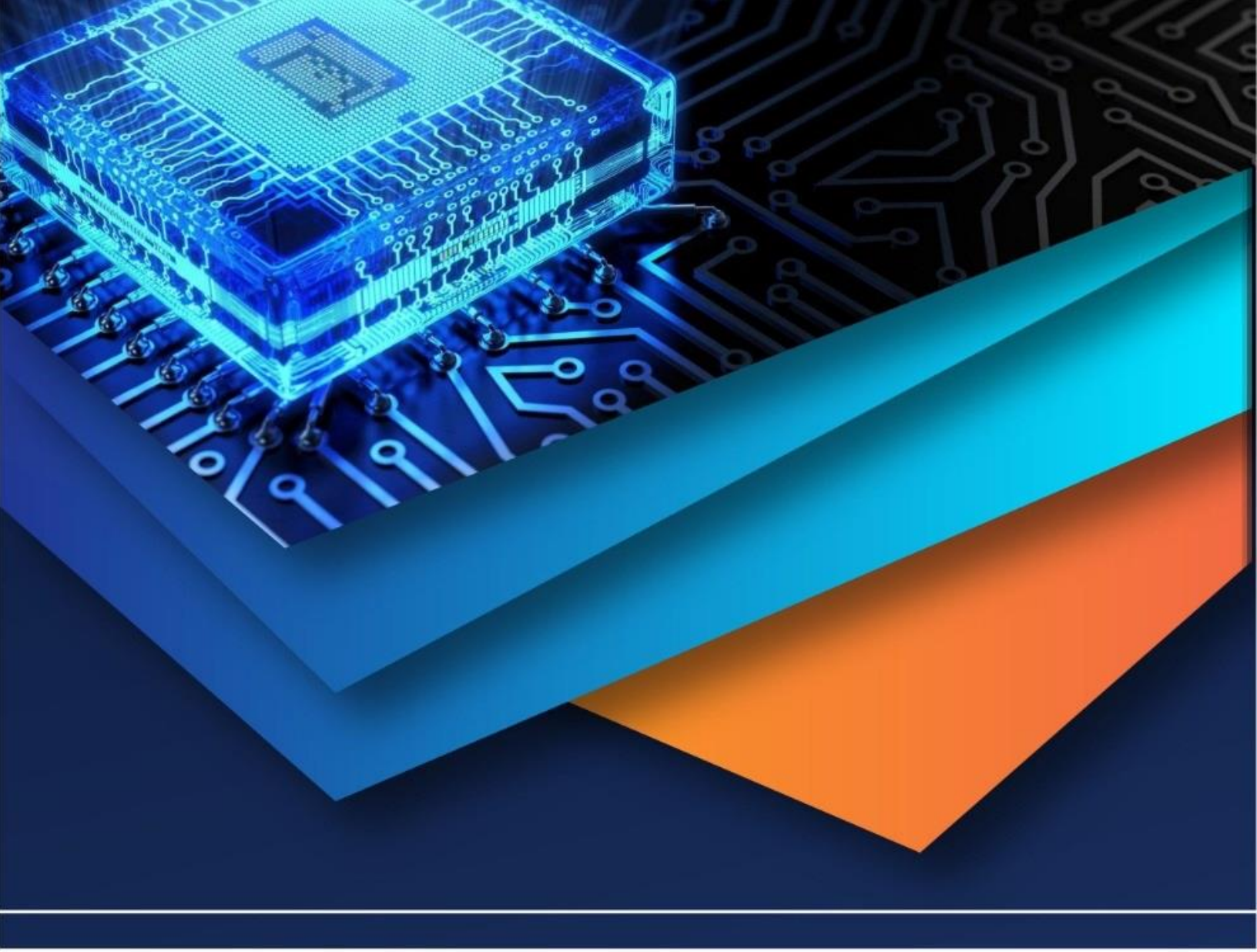

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