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Thought Paper

COVID-19 and Health Equity: Lessons Learned from the Pandemic



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COVID-19 and Health Equity: Lessons Learned from the Pandemic

By Erica Jensen, Sumaya Ali, Lakell Archer, Student Editorial Board, JoNI

Health inequities refer to avoidable, unjust differences in health outcomes caused by systemic disadvantages rooted in social, economic, and environmental contexts (Braveman, 2014). Health disparities refer to differences in health outcomes between groups, often measured by prevalence, morbidity, or mortality (Centers for Disease Control and Prevention [CDC], 2020). Health inequalities are measurable differences in health status that may arise from biological, social, or environmental factors (World Health Organization [WHO], 2019). Health inequities, however, are specifically preventable and unjust differences.

The COVID-19 pandemic highlighted these inequities, intensifying pre-existing structural disparities within healthcare and societal systems. The pandemic underscored the urgency of addressing these issues by revealing how systemic factors lead to disparate impacts across various populations (Egede & Walker, 2020). Marginalized groups, particularly racial and ethnic minorities and low-income individuals in predominantly white communities have been significantly affected due to insufficient healthcare access and poor living conditions (Bennett et al., 2021). The pandemic has deepened health inequities globally, highlighting the urgent need to address these issues.

Health Inequities Prior to the Pandemic

The pandemic has exposed how deeply entrenched health inequities were before COVID-19. These pre-existing disparities are deeply rooted in socioeconomic, racial, and geographic factors, which contributed to the unequal health outcomes experienced during the pandemic. Understanding these foundational drivers of health inequity is crucial to comprehend how the pandemic amplified them. The following sections will explore these factors in detail, starting with the socioeconomic drivers, then racial and ethnic inequities, and concluding with geographic and environmental aspects.

Socioeconomic Drivers of Health Inequities

Social determinants such as poverty, lack of education, and job insecurity have long contributed to health inequities (Artiga & Hinton, 2021). These factors created disparities in health outcomes even before the COVID-19 pandemic. For example, essential workers, often from lower socioeconomic backgrounds, have been particularly vulnerable. These workers faced increased risks of exposure due to systemic inequities in working conditions and healthcare access (Berkowitz et al., 2021). Additionally, residents in low-income, rural areas, such as those in West Virginia, faced significant barriers to healthcare, leading to higher rates of chronic conditions like diabetes and opioid addiction (Chetty et al., 2016).

Racial and Ethnic Health Inequities

Systemic racism in healthcare has contributed to poorer health outcomes for Black, Hispanic, and Indigenous populations even before the pandemic (Bailey et al., 2017). For instance, Black Americans have long experienced higher rates of chronic conditions such as hypertension and diabetes due to inequities in healthcare access and systemic discrimination (Williams & Mohammed, 2013). The COVID-19 pandemic exacerbated these pre-existing disparities, with racial and ethnic minorities experiencing disproportionately higher rates of infection and mortality. For instance, Black and Hispanic Americans were nearly three times more likely to be hospitalized and twice as likely to die from COVID-19 compared to White Americans (CDC, 2021). The impact was significant: Hispanic and Black Americans had higher rates of COVID-19 infections and deaths attributed to factors such as crowded living conditions, limited healthcare access, and employment in high-risk jobs (Kendi, 2020).

Geographic and Environmental Health Inequities

Geographic factors also play a crucial role in health inequities. Rural populations often face inadequate healthcare infrastructure, a situation worsened by the pandemic (Williams & Cooper, 2019). Low-income communities in rural areas like Kentucky and West Virginia have seen some of

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the highest rates of chronic diseases and COVID-19 mortality due to insufficient access to healthcare services (U.S. Department of Health and Human Services, 2020). Additionally, environmental risks such as overcrowded housing and exposure to pollutants disproportionately affect marginalized communities, further exacerbating health disparities (Schulz & Northridge, 2016). For instance, urban minority communities often face higher levels of pollution, which can lead to respiratory issues and increased vulnerability to diseases like COVID-19 (Bell & Ebisu, 2012).

Specific Examples of Health Inequities Exposed by COVID-19

Building on our understanding of how the pandemic has intensified health inequities, it is important to examine specific instances where these disparities were particularly evident. While the examples provided here are not comprehensive, they highlight critical aspects of how COVID-19 exacerbated existing inequities. This section will focus on the impacts on marginalized communities, the challenges encountered by immigrants and refugees, and the economic and geographic disparities that have been brought to the forefront by the pandemic.



Impact on Marginalized Communities

One of the most striking revelations of the pandemic has been its disproportionate impact on racial and ethnic minorities. For instance, Black Americans experienced COVID-19 mortality rates nearly three times higher than those of white Americans (CDC, 2021). This disparity is rooted in longstanding systemic inequities, such as reduced access to quality healthcare and higher prevalence of underlying health conditions (CDC, 2021). Hispanic communities also faced severe consequences, with elevated infection rates and challenges in accessing healthcare services (Kendi, 2020). Indigenous populations, such as the Navajo Nation, were similarly hit hard, struggling with high infection rates due to inadequate healthcare infrastructure and systemic underfunding (National Indian Health Board, 2020).

Challenges for Immigrants and Refugees

Immigrant and refugee populations encountered additional barriers during the pandemic. Issues such as legal status, language barriers, and fear of seeking medical help due to immigration concerns compounded their vulnerability. These factors contributed to poorer health outcomes and higher risks of COVID-19 exposure and severity (Clark et al., 2021).

Economic and Geographic Disparities

The economic consequences of the pandemic further exacerbated health inequities. Lowincome communities, including rural and urban areas, faced significant challenges. Essential workers, often from lower socioeconomic backgrounds, were at higher risk due to inadequate workplace protections and limited access to healthcare. For example, rural areas experienced severe shortages in healthcare resources, which were exacerbated by the pandemic, leading to higher rates of chronic diseases and COVID-19 mortality (U.S. Department of Health and Human Services, 2020).

Similarly, urban areas with high population densities faced greater exposure risks due to overcrowded living conditions and environmental hazards (Bell & Ebisu, 2012). As a result, both rural and urban communities faced heightened vulnerability, deepening existing disparities in health outcomes during the pandemic.

How the Pandemic Response Impacted Health Equity

The "pandemic response" refers to the collective actions and policies implemented by governments, public health organizations, and other stakeholders to manage and mitigate the effects of the COVID-19 pandemic. This response has included a wide range of activities, from public health interventions and policy changes to the allocation of resources and the development of medical treatments (World Health Organization [WHO], 2020). Understanding the impact of these responses on health equity involves examining the direct and indirect effects on different populations, particularly how these measures influenced disparities in health outcomes and access to care.

The COVID-19 pandemic response had a multifaceted impact on health equity, manifesting positive and negative effects. Analyzing these impacts involves understanding shifts in public health policy, access to medical resources, and the socioeconomic factors influencing health disparities.



Positive Impacts

The pandemic response led to several positive outcomes in terms of health equity.

Increased Awareness of Health Inequities

Expanded telehealth services were implemented broadly across the United States and other highincome countries during the pandemic. Many healthcare providers quickly adapted to virtual platforms to ensure that care could continue despite lockdowns and reduced in-person visits. This shift particularly benefited individuals in rural areas, low-income communities, and those with transportation or mobility challenges, as they could access healthcare remotely. However, the effectiveness of telehealth in bridging health disparities was mixed. While it provided much-needed access to care for some, it also exacerbated disparities for others, particularly those without reliable internet access or digital literacy (Pierce & Steverman, 2021). This digital divide disproportionately affected older adults, low-income households, and racial minorities. While expanding telehealth services provided immediate relief, long-term effectiveness in addressing health inequities requires further evaluation. Initial studies suggest that telehealth increased access for millions of Americans during the pandemic, but the uneven access to technology limited its impact in closing the health equity gap fully. Therefore, while beneficial, telehealth alone did not resolve deep-rooted disparities (Karlin & Vergara, 2022).

Accelerated Development of Health Innovations

The development of COVID-19 vaccines was remarkably rapid compared to typical vaccine rollouts. Normally, vaccine development can take 10-15 years, given the rigorous clinical trials and approval processes involved. In the case of COVID-19, the Pfizer-BioNTech and Moderna vaccines were developed and authorized for emergency use within approximately 11 months, a record speed. This rapid progress was made possible by unprecedented global collaboration, massive funding initiatives like Operation Warp Speed in the U.S., and mRNA technology, enabling faster production and testing (Slaoui & Hepburn, 2020). The COVID-19 vaccine rollout was several times faster than typical vaccine development timelines. The usual process includes years of exploratory research, preclinical studies, clinical trials (which can take years), regulatory review, and mass production. In contrast, the COVID-19 vaccines compressed these steps by running some processes in parallel, rather than sequentially, without compromising safety standards. However, equitable access to the vaccines, globally and domestically, was a challenge that persisted for months after the first vaccines were made available, despite their rapid development and release.

Enhanced Data Collection and Analysis

The pandemic underscored the need for better health data collection, particularly concerning race, ethnicity, and socioeconomic status. Improved data collection methodologies have since been adopted, providing a clearer picture of health disparities and informing targeted interventions (Hernandez et al., 2022).

Negative Impacts

However, the pandemic response also had several negative impacts:

Exacerbation of Existing Disparities

The pandemic disproportionately affected marginalized communities, including racial and ethnic minorities and individuals with lower socioeconomic status. These groups experienced higher rates of infection, hospitalization, and mortality, partly due to pre-existing health conditions, inadequate access to healthcare, and structural inequalities (Gonzalez et al., 2021).To illustrate the exacerbation of disparities during the pandemic, New York City offers a clear example. Data from the NYC Department of Health showed that by mid-2020, Hispanic and Black residents had higher COVID-19 death rates-265 and 209 per 100,000, respectivelycompared to 135 per 100,000 for white residents. Densely populated neighborhoods, in-person jobs, and reliance on public transportation were all contributing factors. A striking case comes from Elmhurst Hospital in Queens, serving a largely immigrant and low-income community. During the first wave, it was overwhelmed with

patients, highlighting the healthcare system's inability to meet the needs of underserved populations. The pandemic sharply magnified these disparities, rooted in structural inequalities (NYC Health, 2020; Rabin, 2020).

Economic and Social Disruption

The economic fallout from the pandemic, including job losses and financial instability, severely impacted low-income populations. This economic strain led to increased food insecurity and housing instability and exacerbated mental health issues, further widening health disparities (Baker et al., 2021).

Unequal Vaccine Distribution

Disparities persisted despite efforts to promote equitable vaccine distribution. Structural issues in vaccine rollout, such as limited access to vaccination sites and hesitancy in underserved communities, contributed to uneven vaccination rates and prolonged vulnerability among disadvantaged groups (Paltiel & Zheng, 2021).

Overall, the COVID-19 pandemic response has advanced efforts to address health inequities and exposed existing disparities. While the pandemic has fostered greater awareness and innovation in public health, particularly for marginalized and low-income communities, it has also underscored systemic issues that contribute to ongoing inequities. The pandemic prompted health professionals and organizations to critically examine their policies and practices, recognizing their role in mitigating or exacerbating these disparities. It is essential to build on these lessons to develop more effective and equitable public health strategies locally and globally.

Promoting Health Equity in the Future

Communities and nations have the opportunity to build healthy and resilient communities in the post-COVID-19 era. Health equity is both the goal and mechanism of community resilience. Multiple avenues can promote health equity in a postpandemic space.

First, researchers and institutions can diversify research itself. By including a wider range of

Published by BYU Scholars Archive, 2024 September 2024, Vol 4, Issue 3 demographic groups, such as those outlined by the National Institutes of Health (2020) and echoed by scholars like Andrasik et al. (2021) and Mensah et al. (2024), research can become more representative and applicable to diverse populations. This approach helps ensure that health interventions are designed with the specific needs of various communities in mind, thereby promoting equity.

Second, in the event of future pandemics, organizations must prioritize treatment and interventions for the most vulnerable populations. Vulnerable groups include low-income individuals and those experiencing displacement, who often face disproportionate health risks and limited access to healthcare services (WHO, 2024). Healthcare practices must become more equitable by incorporating measures such as translation services to overcome language barriers, increased opportunities for telehealth to reach remote areas, and the deployment of mobile health clinics to underserved communities to address these disparities. These strategies can enhance access to care and improve health outcomes for marginalized groups.

Third, communities, organizations, and public figures must curb misinformation, which can exacerbate health inequities by spreading fear and confusion. Clear, accurate, and culturally sensitive communication is necessary to provide the public with reliable information and reduce the influence of false claims. Finally, a flexible approach to health interventions is crucial, allowing for feedback and local adaptation rather than implementing a one-size-fits-all model. Organizations and public officials should adapt to smaller communities' needs by seeking feedback and local participation. This adaptability ensures that interventions are effective and culturally relevant, increasing the likelihood of success.

Health Equity Interventions: Mpox

An illustrative example of equitable health interventions is the response to mpox, formerly monkeypox. News coverage recently exposed the severity of mpox in Africa. For example, the Democratic Republic of the Congo (DRC) is experiencing a severe outbreak, with over 14,000 cases and 524 deaths reported since the start of 2024. Neighboring countries such as Burundi, Kenya, Rwanda, and Uganda, where cases were previously rare, also report infections (Lay, 2024). Mpox is an infectious viral disease characterized by fever, chills, aches, blisters, and rash. It has two primary clades: Clade I, historically associated with a higher death rate, and Clade II (Guardian, 2024). The World Health Organization (WHO) recently declared Mpox a public health emergency of international concern, highlighting the risk of rapid spread and the need for targeted, equitable responses (2024).

To address these challenges, the WHO released a strategic plan on August 26, 2024, outlining measures to ensure equitable access to care for communities affected by mpox in Africa. These measures include transparency in vaccine allocation and distribution and prioritizing vulnerable populations at high risk, such as internally displaced people (IDPs) and sex workers (WHO, 2024, p. 9, 12). The plan emphasizes the importance of protecting fundamental human rights, advocating for access to care for all individuals (regardless of their background or circumstances), and combating stigma and discrimination that could hinder access to necessary services (WHO, 2024, p. 13).

The Mpox response underscores the importance of investing in equitable healthcare infrastructure, such as mobile health clinics and telehealth services, to reach underserved populations. It also highlights the need for a coordinated response involving governments, nonprofit organizations, and local communities to ensure that interventions are culturally sensitive and tailored to the needs of different populations. By learning from the mpox response, we can develop strategies that are effective in controlling outbreaks and promoting long-term health equity.

Further Application

The lessons learned from the COVID-19 pandemic and the current response to mpox highlight several future applications for promoting health equity. First, it is essential to strengthen healthcare infrastructure to be more

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inclusive and accessible. This change includes investing in technology and resources that enable remote care and support for underserved communities. For example, expanding telehealth services and mobile clinics can provide essential care to individuals in rural or hard-to-reach areas, ensuring no one is left behind.

Second, collaboration between governments, nonprofit organizations, and local communities is crucial. These partnerships can facilitate sharing of resources, knowledge, and best practices, leading to more effective and coordinated responses to health crises. By working together, stakeholders can develop and implement strategies tailored to different populations' specific needs, enhancing the overall impact of health interventions.

Third, ongoing education and training for healthcare providers and public health officials are vital. Professionals can better serve diverse populations by staying informed about the latest research, emerging health threats, and culturally sensitive care practices. Training programs should emphasize the importance of cultural competence, empathy, and the need to address social determinants of health, which are key factors in achieving health equity.

Conclusion

The COVID-19 pandemic has exposed significant health inequities, highlighting the urgent need for more equitable health practices. Promoting health equity requires a comprehensive approach that includes diversifying research participants, prioritizing vulnerable populations, and adopting flexible, culturally sensitive interventions. The mpox response provides a valuable example of how equitable health measures can be implemented effectively. By building healthy, resilient communities and addressing the root causes of health disparities, we can ensure that all individuals can achieve optimal health, regardless of their background or circumstances.

In summary, the lessons learned from the pandemic emphasize the importance of health equity as a foundational principle in public health. We can build a more just and equitable healthcare system by prioritizing vulnerable populations, combating misinformation, and fostering collaboration. These efforts will improve health outcomes for marginalized groups and contribute to the overall resilience and well-being of society.

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