Ensuring Rights while Protecting Health: The Importance of Using a Human Rights Approach in Implementing Public Health Responses to COVID-19

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Abstract

In response to the COVID-19 pandemic, governments around the world have implemented public health policies that limit individual freedoms in order to control disease transmission. While such limitations on liberties are sometimes necessary for pandemic control, many of these policies have been overly broad or have neglected to consider the costs for populations already susceptible to human rights violations. Furthermore, the pandemic has exacerbated preexisting inequities based on health care access, poverty, racial injustice, refugee crises, and lack of education. The worsening of such human rights violations increases the need to utilize a human rights approach in the response to COVID-19. This paper provides a global overview of COVID-19 public health policy interventions implemented from January 1 to June 30, 2020, and identifies their impacts on the human rights of marginalized populations. We find that over 70% of these public health policies negatively affect human rights in at least one way or for at least one population. We recommend that policy makers take a human rights approach to COVID-19 pandemic control by designing public health policies focused on the most marginalized groups in society. Doing so would allow for a more equitable, realistic, and sustainable pandemic response that is centered on the needs of those at highest risk of COVID-19 and human rights violations.
Introduction

The global response to public health emergencies, such as pandemics, often requires enacting public health policy interventions to prevent disease and protect population health. These interventions can and do limit individual freedoms and are widely understood to be appropriate in public health emergencies. The COVID-19 pandemic has prompted the implementation of public health measures at an unprecedented global scale. Policies such as border and school closures, face mask mandates, limitations on social gatherings, and household confinement have been shown to be effective against COVID-19 transmission and disease outcomes. While such interventions are crucial to pandemic mitigation, their public health benefits can result in substantial trade-offs, such as limited access to medical care and public health services for the diagnosis, treatment, and prevention of other diseases, as well as the loss of livelihood and disruptions to education and sociocultural interaction. Furthermore, public health interventions can also come at human rights costs, disproportionately impacting already vulnerable and oppressed communities.

International guidance on the rights-limiting measures allowable during states of emergency is based on the Siracusa Principles. These principles state that regardless of the nature or severity of the emergency, restrictions on human rights must meet standards of legality, legitimacy, necessity, proportionality, evidence, and nondiscrimination. General Comment 14 to the International Covenant on Economic, Social, and Cultural Rights (ICESCR) further emphasizes that states have “the burden of justifying such serious measures” with respect to “demonstrat[ing] that restrictive measures are necessary to curb the spread of infectious diseases so as to ultimately promote the rights and freedoms of individuals.” However, the implementation of these guiding principles can be intricate given that derogations of human rights standards are multifaceted and may be complicated by complex interactions between competing aspects of public health, ethics, economics, and law.

Methods

Defining populations vulnerable to human rights abuses

To examine COVID-19 public health interventions within a human rights framework, we must first for state of emergency declarations, meaning that states are bound solely to national and local public health laws when making these declarations. Therefore, public health interventions can and have been practiced discriminatorily by restricting the social, economic, and cultural rights of specific populations, such as refugees and migrants, who are particularly vulnerable to movement restrictions.

Blanket public health policies can be particularly challenging for disadvantaged populations. For example, people living in impoverished and densely populated urban housing or confined to refugee camps cannot realistically quarantine or avoid gatherings. Incarcerated persons do not have the capability to follow sanitization and masking guidelines without the support of prison policy and resources, and the nature of correctional facilities is not suited to social distancing. Hourly workers and day workers may not be able to afford food, medicine, or other necessities of life when COVID-19 restrictions impair their travel to work.

Viewed through a human rights lens, public health interventions are designed to protect the most vulnerable members of society but in practice, the result may be the opposite. Furthermore, policies can be designed ostensibly for pandemic control while their true goal is political—for example, by limiting assemblies and thereby suppressing anti-government demonstrations. Evaluating COVID-19 public health interventions around the needs of vulnerable populations and prioritizing their needs may allow for a pandemic response that is not only more equitable but also more practicable and sustainable for those at highest risk of disease transmission, morbidity, and mortality.
define groups vulnerable to human rights abuses. The Committee on Economic, Social and Cultural Rights notes that state parties to the ICESCR are obliged to “give special attention to those individuals and groups who traditionally face difficulties in exercising this right” in the context of social security and human rights.\textsuperscript{12} We based our analysis of vulnerable groups on the ICESCR definition and added additional groups that may be relevant to the COVID-19 pandemic based on US research ethics standards.\textsuperscript{13} Table 1 outlines the major groups used in our analysis.

**Database for public health interventions and applied human rights norms**

To categorize the key types of public health interventions that were implemented in the first six months of the COVID-19 pandemic (January 1 to June 30, 2020), we utilized curated data on global public health interventions from the free, open-access Health Intervention Tracking for COVID-19 (HIT-COVID) database.\textsuperscript{14} Established in April 2020, the HIT-COVID database catalogues the implementation and relaxation of COVID-19 public health interventions at the national and subnational level, with geographic granularity down to the local level (cities and towns) where applicable. Within the available data for this period, 59% of the records were for the subnational level. The time frame from January 1 to June 30, 2020, was chosen because database entries during this period provided the most complete coverage and were therefore considered to yield more robust findings. As of March 31, 2021, there were 13,429 public health interventions catalogued in the database, of which 10,720 were implemented from January 1 to June 30, 2020. We abstracted these 10,720 public health interventions into 21 categories that the database had assigned a priori, based on the most common and relevant COVID-19 interventions. Then, we tabulated the absolute and relative frequency of public health interventions within these categories (Table 2). Notably, due to the time frame underlying our data extraction, more recent issues such as vaccine inequities, emerging COVID-19 variants, and global health disparities were not analyzed here.

### Table 1. Disadvantaged and vulnerable groups impacted by COVID-19 interventions

<table>
<thead>
<tr>
<th>Category</th>
<th>ICESCR groups</th>
<th>Additional groups</th>
</tr>
</thead>
</table>
| Vulnerability based on historical or personal identity | - Women | - Indigenous people  
- LGBTQI+ groups  
- People of color  
- People with language barriers  
- Other historically disadvantaged groups |
| Vulnerability based on economic disadvantage | - Unemployed persons  
- Workers inadequately protected by social security  
- Persons working in the informal economy  
- Domestic workers  
- Home workers  
- Sick or injured workers | - Agricultural workers  
- Workers in crowded conditions, daily wage earners, and workers with job insecurity  
- People experiencing homelessness  
- Socioeconomically disadvantaged people  
- People without health insurance  
- Educationally disadvantaged people  
- Undocumented workers |
| Vulnerability based on age or health status | - People with disabilities  
- Older persons  
- Children  
- Adult dependents | - People living with chronic diseases, especially conditions that require continued access to medical care or therapeutics  
- Health workers and other essential or frontline workers at increased risk of contracting COVID-19  
- People with mental health conditions  
- People with COVID-19 and “long COVID” |
| Other vulnerable groups | - Racial, ethnic, religious, sexual, and political minority groups  
- Refugees, asylum seekers, returnees, and internally displaced persons  
- Non-nationals (immigrants and migrants)  
- Incarcerated and detained people | |
Guided by the standards set forth in the Universal Declaration of Human Rights (UDHR), we cross-compared the 21 intervention categories by their potential human rights impacts. For each intervention category, we also identified the population groups most likely to be impacted from a human rights perspective, identifying groups that were most vulnerable to human rights abuses in such categories (Table 2).

Results

The most common public health interventions implemented in the first six months of the pandemic: School closures, border closures, and movement restrictions

Of the 10,720 public health interventions recorded during the first six months of the pandemic in the HIT-COVID database, the majority (71.67%) were identified as restricting human rights in at least one way or for at least one population (Table 2). Among all 21 public health intervention categories in the database, the five most prevalent categories covered 57.60% of interventions. These five categories were school closures (28.61%), border closures (12.62%), quarantine and isolation (6.03%), limiting gathering size (5.23%), and household confinement (5.11%). School closures refer to limited hours or days at school, the utilization of online learning, and universal school closure. Border closures refer to the closing of borders to other countries or subnational units, including restrictions imposed on certain subpopulations (based on geographic origin or on COVID-19 exposure or test results). Quarantine refers to the separation and restriction of movement for individuals who have had potential COVID-19 exposure or who have not had a confirmed infection (such as travelers and persons in contact with confirmed or suspected cases). Home isolation refers to people who are symptomatic or have a confirmed infection (such as symptomatic suspected cases, non-hospitalized confirmed cases, and cases discharged from the hospital). Limiting gatherings refers to the imposition of size limits on indoor and outdoor gatherings. Household confinement refers to curfews, stay-at-home orders, and lockdowns that require people to stay within their household except for essential trips (for example, for medical care or food). These orders may also restrict the movement of high-risk groups, such as elderly or chronically ill people.

Human rights dimensions most frequently impacted by public health interventions

All of the 21 public health intervention categories have impacts on human rights. The most common human right that is impacted by these interventions is freedom of movement, which is affected by border closures, household confinement, public space and public transport closures, and quarantine and isolation. While limiting movement is aimed at reducing contact rates between infected and susceptible persons to control community transmission, medically and socially vulnerable populations are disproportionately affected by such restrictions. For example, elderly people and individuals with underlying medical conditions may experience reduced access to health care and essential therapeutics, which in turn can result in delayed detection and prevention or treatment of diseases.

Other human rights that are frequently impacted by public health interventions include the right to protection against interference with individual privacy and the right to peaceful assembly. The curtailment of these rights has often resulted in resistance and protest among affected populations globally. Nonetheless, it is important to emphasize that due to country-level variations in government structures and human rights standards, the impact of these public health interventions differs by country. For example, restrictions on the freedom of movement may be more accepted and realistic in countries with better internet coverage and digital infrastructure, which enables the continuity of work from home; and acceptance of interference with individual privacy to protect the health of others may be higher among societies that culturally value collective action and solidarity.
Case studies from around the globe to explore the human rights impacts of COVID-19 restrictions

Below, we review the five most frequent types of interventions in order to understand the range of restrictions enacted, the potential human rights concerns around these restrictions, and their potential sequelae, particularly for vulnerable groups.

School closures. School closures made up more than one-fourth of all public health interventions in the HIT-COVID database that were implemented from January to June 2020. The right to an accessible and affordable education is protected under article 26 of the UDHR.\(^{16}\) Epidemiologically, in-person school settings were initially considered a high-risk environment for the spread of COVID-19, but updated data analyses consider them a lower-risk environment for transmission, especially at the elementary school level.\(^{27}\) School closures have profound consequences for students’ learning, social well-being, and mental health, as well as the ability of parents to work.\(^{28}\) While various governments have provided virtual education due to in-person school closures, it is not feasible to guarantee quality education or equal access to virtual learning during the pandemic due to inequities in resources (such as internet access) and in parents’ availability to supervise children adequately.\(^{29}\) Many of these inequities were preexisting and were exacerbated during the pandemic. Thus, this disruption of learning inevitably results in substantial educational gaps for children across the world. The effects of educational gaps have been shown, both historically and currently, to negatively impact learning and life outcomes. A mere three-month school closure could reduce students’ long-term learning by a year, as suggested by modeling simulations.\(^{20}\) School disruption during World War II was found to be associated with significant income loss 30 years later in life.\(^{21}\) School closures also lead to increased prevalence and exacerbation of mental health issues, such as anxiety and depression, among students.\(^{22}\) School closures place vulnerable children at higher risk of food insecurity, and in many low- and middle-income countries, lack of access to education puts girls in particular at increased risk of child marriage, gender-based violence, sexual assault, and teen pregnancy. For example, the rate of child marriage in Malawi increased by 83% from March to May of 2020 compared to 2019, and the rate of sexual assault, which is linked to child marriage, increased by 151%.\(^{23}\) Given that child brides are more likely to drop out of school and face gender-based violence, protecting access to education, particularly for girls, should be an imperative in the COVID-19 response, especially in low- and middle-income countries.\(^{24}\)

Border closures. Border closures and movement restrictions are in tension with article 13 of the UDHR, which states that “everyone has the right to freedom of movement and residence within the borders of each state.”\(^{25}\) Further, the International Health Regulations specifically state that public health interventions should be implemented “to prevent, protect against, control and provide a public health response to the international spread of disease in ways that are commensurate with and restricted to public health risks, and which avoid unnecessary interference with international traffic and trade.”\(^{26}\) Even though border closures and movement restrictions were almost universally implemented by governments early in the pandemic, their effectiveness in reducing COVID-19 transmission is disputed, as it remains methodologically complex to distinguish the independent impact of individual interventions that have been implemented at the same point in space and time.\(^{27}\) While border closures may be effective in delaying the spread of COVID-19, if implemented prior to establishment of community transmission within a country, their overall effect on transmission of COVID-19 is modest and not sustainable.\(^{28}\)

For country or territory borders that are fraught or politically unstable, changes to border policies can have drastic consequences. For example, in the United States, border entry for immigrants and asylum seekers has been severely restricted. In response to COVID-19, many legal immigration proceedings were halted, leaving...
### Table 2. Description of public health interventions in the HIT-COVID database (January 1–June 30, 2020)

<table>
<thead>
<tr>
<th>Intervention type</th>
<th>N</th>
<th>%</th>
<th>Potential human rights impacted</th>
<th>Vulnerable groups affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>School closures</td>
<td>3,067</td>
<td>28.61</td>
<td>Right to access and quality of education; right to nutrition; right to work (for parents and teachers)</td>
<td>Low-income students and those without internet access; food-insecure families; parents without access to child care who cannot stay at home; children with learning disabilities or special needs</td>
</tr>
<tr>
<td>Border closures</td>
<td>1,353</td>
<td>12.62</td>
<td>Freedom of movement; right to seek asylum; right to health and well-being</td>
<td>Refugees; asylum seekers; undocumented individuals; expatriates; people who travel for work</td>
</tr>
<tr>
<td>Quarantine and isolation</td>
<td>646</td>
<td>6.03</td>
<td>Freedom of movement</td>
<td>People with physical and mental health issues; essential in-person workers; low-income workers; unemployed people; people with disabilities; elderly people; unstably housed persons; people living in crowded conditions</td>
</tr>
<tr>
<td>Limiting gatherings</td>
<td>561</td>
<td>5.23</td>
<td>Right to assembly; free speech; freedom of movement</td>
<td>Refugees and internally displaced persons (IDPs); people experiencing homelessness; protesters; people living in crowded conditions</td>
</tr>
<tr>
<td>Household confinement</td>
<td>548</td>
<td>5.11</td>
<td>Freedom of movement; right to health and well-being</td>
<td>People experiencing homelessness; domestic workers; people with mental health conditions; refugees and IDPs; essential workers; elderly people; people living in crowded conditions</td>
</tr>
<tr>
<td>Leisure and entertainment venue closures</td>
<td>497</td>
<td>4.64</td>
<td>Right to leisure; right to participate in cultural life; right to work</td>
<td>Service industry employees, particularly low-wage workers</td>
</tr>
<tr>
<td>Retail store closures</td>
<td>469</td>
<td>4.38</td>
<td>Right to work</td>
<td>Retail industry workers, particularly low-wage workers; people without internet or with low retail store density</td>
</tr>
<tr>
<td>Restaurant (dine-in) closures and restrictions</td>
<td>450</td>
<td>4.20</td>
<td>Right to work; right to participate in cultural life</td>
<td>Food service workers, especially low-income people</td>
</tr>
<tr>
<td>Symptom screening at borders</td>
<td>425</td>
<td>3.97</td>
<td>Right to protection against interference with individual privacy</td>
<td>People with disabilities or chronic diseases</td>
</tr>
<tr>
<td>Office closures</td>
<td>362</td>
<td>3.38</td>
<td>Right to work</td>
<td>People who cannot work from home</td>
</tr>
<tr>
<td>Limiting movement within administrative borders</td>
<td>355</td>
<td>3.31</td>
<td>Freedom of movement</td>
<td>IDPs and refugees; unstably housed people</td>
</tr>
<tr>
<td>Public space closures</td>
<td>261</td>
<td>2.43</td>
<td>Freedom of movement; right to peaceful assembly</td>
<td>People from sociopolitical minorities; unstably housed people</td>
</tr>
<tr>
<td>State of emergency</td>
<td>256</td>
<td>2.39</td>
<td>Right to self-will</td>
<td>Groups who face discrimination</td>
</tr>
<tr>
<td>Testing symptomatic individuals</td>
<td>252</td>
<td>2.35</td>
<td>Right to protection against interference with individual privacy</td>
<td>People with disabilities or chronic diseases; people with poor access to health care; low-income people</td>
</tr>
<tr>
<td>Mandated face mask use</td>
<td>246</td>
<td>2.30</td>
<td>Right to freedom of expression (communication ability for disabled)</td>
<td>People with disabilities or underlying health conditions</td>
</tr>
<tr>
<td>Public transport closures</td>
<td>229</td>
<td>2.14</td>
<td>Right to a standard of living adequate for health and well-being; freedom of movement</td>
<td>Low-income people; people experiencing homelessness; schoolchildren; elderly people; undocumented individuals; rural populations</td>
</tr>
<tr>
<td>Contact tracing</td>
<td>170</td>
<td>1.59</td>
<td>Right to protection against interference with individual privacy</td>
<td>People with poor access to health care; low-income populations; people without internet access; undocumented people</td>
</tr>
<tr>
<td>Closure of nursing homes and long-term care facilities</td>
<td>163</td>
<td>1.52</td>
<td>Right to a standard of living adequate for health and well-being</td>
<td>Elderly people; people with disabilities or chronic diseases</td>
</tr>
<tr>
<td>Military or police deployment</td>
<td>162</td>
<td>1.51</td>
<td>Right to protection from violence and inhumane treatment or punishment; right to protection from arbitrary arrest</td>
<td>People at risk of police or military violence or harassment (racial/ethnic, religious, sexual, and political minority groups)</td>
</tr>
</tbody>
</table>
Table 2. Continued

<table>
<thead>
<tr>
<th>Intervention type</th>
<th>N</th>
<th>%</th>
<th>Potential human rights impacted</th>
<th>Vulnerable groups affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Testing asymptomatic individuals</td>
<td>157</td>
<td>1.47</td>
<td>Right to protection against interference with individual privacy</td>
<td>People with disabilities or chronic diseases; people with poor access to health care; low-income people</td>
</tr>
<tr>
<td>Religious venue closures</td>
<td>91</td>
<td>0.85</td>
<td>Freedom of worship and religious practice, teaching, and observance</td>
<td>People belonging to religious or faith-based groups, particularly stigmatized minorities</td>
</tr>
<tr>
<td>Total interventions with potential human rights impact</td>
<td>7,116</td>
<td>71.67</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Total interventions</td>
<td>10,720</td>
<td>100.00</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

thousands in detention camps, where they are extremely vulnerable to contracting COVID-19 due to crowded living conditions, poor ventilation, and other inhumane treatment. As of July 9, 2020, the cumulative test positivity rate among ICE detainees was 22.7%. However, an independent investigation by the Vera Institute of Justice indicated that COVID-19 testing at ICE facilities was too limited to capture the actual number of cases and that the real number may have been much higher. Furthermore, communication records indicate that some ICE officials ignored COVID-19 safety recommendations. For example, in one San Diego detention facility, testing guidelines were ignored, detainees did not receive face masks for weeks, and detainees were required to sign a waiver “saying that it wasn’t our fault if we got sick,” according to one detainee. Due to the decentralized oversight of ICE facilities, many of which are under private ownership, the COVID-19 response has been slow moving and uncoordinated, putting detainees at high risk for contracting the virus.

Quarantine and isolation. Quarantine and isolation are ancient but effective public health mitigation measures dating back to medieval Europe, when incoming ships were quarantined to prevent plague transmission. Today, quarantine and isolation are regarded as necessary but not sufficient outbreak prevention strategies, as they require additional actions such as contact tracing. Despite the importance of such measures in pandemic response, they may erode human rights, especially for marginalized populations such as detained people, refugees, immigrants, women, and children. Thus, governments should consider their human rights impacts, particularly with regard to the right to safe shelter, the right to protection from violence, and the right to medical treatment, testing, and mental health services. Further, these measures should not extend beyond the required minimum time period based on the incubation period of the virus.

Quarantine and isolation policies during the COVID-19 pandemic have had negative consequences for vulnerable populations such as children because they increase the risk of abuse and neglect. These policies can also have adverse effects on mental health that may last for years, and both social isolation and poor mental health are risk factors for violence. Quarantine and isolation also increase the risk of domestic violence by increasing daily proximity to perpetrators of violence under stressful conditions.

However, some policy makers have utilized quarantine and isolation orders as an opportunity to provide safe housing and health protection for vulnerable populations who are unable to isolate or quarantine. For example, New York City and Baltimore have hotel quarantine and isolation programs
for COVID-19 positive or suspected positive patients who cannot otherwise isolate due to housing instability or crowding. Both programs are offered at no cost and include free meals, and the Baltimore program offers assistance to undocumented individuals.

**Limiting gatherings.** Article 20 of the UDHR declares the right to freedom of peaceful assembly and association to be fundamental. Limiting gatherings is a crucial public health intervention to contain transmission of COVID-19, especially for preventing “superspreader” events. However, limitations on gatherings can easily be used to restrict the fundamental right to protest, and some governments have utilized the banning of gatherings to suppress political protesters. For example, in Algeria, all forms of street protests were banned in March 2020, ending a year of mass anti-government demonstrations by the Hirak movement, although protests reemerged in February 2021.

Limiting gatherings is also unfeasible for people living in crowded areas, including people experiencing homelessness, residents of slums, and refugees housed in camps. For such populations, it is unrealistic to avoid gatherings when crowding is an integral part of unstable housing conditions. Unstably housed populations are often already at higher risk of COVID-19 due to systemic inequities such as poverty, lack of health care access, unemployment, preexisting health conditions, and unsanitary living conditions. For example, Dharavi, India’s largest slum, is one of the most densely populated areas of the world, with an area of 2.1 square kilometers and about one million residents. Crowded housing and limited sanitation mean that residents share both private and public spaces. Under these conditions, it is impossible for Dharavi residents to avoid gatherings, close contact, and crowding, which increases their risk of COVID-19 transmission. By implicitly violating these restrictions, people in these communities may face stigma or judgment and, in turn, avoid seeking health care services when ill. While limiting gatherings has a clear public health justification, there are circumstances where blanket restrictions can repress vital freedoms and harm health.

**Household confinement.** Article 13 of the UDHR states that people have the right to freedom of movement. Household confinement policies such as curfews, lockdowns, and stay-at-home orders are a significant component of the public health response to COVID-19 because they aim to protect individuals from exposure and transmission. Such policies often aim to shield medically vulnerable populations, such as elderly persons and pregnant people. Various studies have found associations between household confinement policies and decreased COVID-19 transmission and mortality. However, household confinement also inherently restricts the right to freedom of movement. Household confinement policies are dangerous and potentially deadly for those facing unsafe conditions at home, such as violence and abuse. Additionally, adherence to home isolation orders is difficult, perhaps impossible, for housing-insecure people such as residents of slums, people living in refugee camps, and people experiencing homelessness. Many groups already facing housing insecurity have experienced the exacerbation of human rights threats during the COVID-19 pandemic.

When household confinement orders are followed, individuals are at risk of social isolation, poor mental health outcomes, and limited access to necessities such as food, supplies, and health care. To address these issues, in China, medically vulnerable populations such as elderly persons have increasingly turned to technology and mobile apps for essential services such as home delivery of food and supplies.

In other cases, the enforcement of household confinement measures can be a dangerous excuse for military and police personnel to use violence and corruption. For example, during the first 10 days of Kenya’s curfew, excessive police force resulted in the deaths of at least six people and injuries to many others. The dusk-to-dawn curfew was enforced with police brutality, including shootings, beatings, whipping, tear gassing, looting, and
financial extortion. In some cases, police began such violence well before the curfew began. Videos also show police not wearing masks and physically crowding civilians together.\textsuperscript{53} Overall, public health and legal experts have argued that voluntary self-isolation efforts, compared to coercive efforts, are more likely to result in cooperation and trust in the public health system.\textsuperscript{54}

Another key human rights impact of household confinement (and the inherent movement restrictions) is the potential infringement of the right to health and well-being as protected by article 25 of the UDHR, specifically with regard to access to health care.\textsuperscript{55} While such extreme movement restrictions may affect most of the population, their consequences are especially pronounced among populations with an increased need to access health care, such as pregnant women and young children. The COVID-19 pandemic has reduced maternal health care seeking and provision globally, and slum communities in low- and middle-income countries have been particularly disadvantaged in terms of access to health care services.\textsuperscript{56} While the underlying mechanisms are complex and most likely multicausal, disruptions to routine health care have been estimated to result in devastating child and maternal mortality.\textsuperscript{57} Additionally, household confinements to contain the spread of COVID-19 have led to major disruptions to routine childhood vaccination coverage, resulting in immunity gaps for other infectious diseases such as measles, which most likely will exacerbate the pandemic’s detrimental effect on maternal and child health.\textsuperscript{58}

Discussion

This paper demonstrates that COVID-19 public health policies enacted in the first six months of the pandemic present potential human rights violations and discusses the need to design such policies in a way that centers the needs of vulnerable groups. While pandemic containment policies are essential for controlling transmission and reducing mortality, governments must be vigilant against these measures slipping into human rights abuses by design or by negligence.

We analyzed COVID-19-related public health policies implemented from January 1 to June 30, 2020. Using the UDHR standards as a guide, we found that 71.67% of the 10,720 interventions implemented in these six months had potential human rights impacts. In particular, we examined the five most common types of policies (school closures, border closures, quarantine and isolation, limiting gatherings, and household confinement) in further detail through a human rights lens. We found that some COVID-19 public health interventions may be impractical or impossible to adhere to for vulnerable groups, such as refugees, unstably housed people, low-income people, and undocumented individuals. For instance, household confinement orders are impractical to follow for people who are unstably housed due to lack of housing or living in overcrowded settings. These interventions may also put these groups and others at risk of further human rights violations. For example, people who cannot follow household confinement orders, such as the unstably housed, may face violence by members of the police or military who are enforcing household confinement with force.

This paper has limitations. First, our analysis was descriptive and deductive: we did not focus on any specific subpopulations or analyze empirical data related to human rights violations. We did not directly assess the human rights implications of COVID-19 policies and thus cannot provide a causal analysis of any specific human rights violations as a result of COVID-19 policies. Due to data availability, we were able to discuss only those policies enacted in the first six months of the pandemic, which does not cover more current concerns such as vaccine inequities and treatments for novel SARS-CoV-2 variants that will require additional human rights analysis. While this article focuses on public health restrictions, the emphasis on vulnerable communities and negative human rights impacts is also relevant to other aspects of the COVID-19 response, such as vaccine hesitancy, ongoing debates about mask mandates, and public acceptance of policies related to COVID-19. Finally, due to the underreporting of COVID-19 policies in low-income countries, our data are probably not
fully representative of all policies implemented in the study period.

An in-depth consideration of whom public health policies impact and how they may disproportionately affect specific groups, intentionally or not, is critical to ensuring meaningful equity and effectiveness of interventions. This pandemic has exacerbated many preexisting societal inequities and human rights violations affecting marginalized populations, making it even more crucial to design intentionally equitable policy responses that are based on human rights principles.

Human rights, such as the rights to assembly, movement, religion, and privacy, can be negatively impacted by COVID-19 public health policies, particularly with regard to already marginalized or vulnerable people. Socially equitable interventions might be more tailored, focusing human rights restrictions on communities in limited ways, or enforcing them with consideration of the needs and abilities of vulnerable communities. Blanket public policies run the risk of violating basic human rights without the necessity and proportionality laid out in the Siracusa Principles and the ICESCR. This idea is informed by the harm reduction approach of the HIV/AIDS pandemic and acknowledges that a strict all-or-nothing approach is not practical for all. As a result, there is an urgent need to consider the protection of vulnerable populations from human rights abuses when implementing COVID-19 interventions and ensure that any derogations from human rights norms are conducted “in accordance with the law; based on a legitimate objective; strictly necessary in a democratic society; the least restrictive and intrusive means available; and not arbitrary, unreasonable, or discriminatory.”

These stipulations, laid out in the Siracusa Principles, could protect citizens from discriminatory and unnecessary restrictions but will require more concrete integration into national and local public health laws and policies in order to be effective. In authoritarian settings, reliance on international accountability mechanisms will be critical to protect vulnerable people.

Consideration of human rights may also increase the effectiveness of public health policies. With sweeping public health interventions, those who are already at higher risk of morbidity and mortality may be subjected to more severe health and economic costs. Without considering the costs and trade-offs of interventions and ensuring that their design considers their secondary impacts, such public health policies may paradoxically violate the right to health as defined by the World

### Table 3. Recommendations for future policy and practice

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engage individuals and leaders from disproportionately affected populations as equal partners in all aspects of the public health agenda and establish liaisons to their communities.</td>
<td>Place community liaisons from vulnerable groups on decision-making committees so that their expertise can inform policy design to address the needs of vulnerable communities.</td>
</tr>
<tr>
<td>Identify specific populations that may be affected by particular policies and interventions and understand the specific risks and challenges arising from these policies.</td>
<td>Add local, state/provincial, and national-level reporting requirements on the differential impacts of public policies, such as stratification by gender, race, ethnicity, income, etc.</td>
</tr>
<tr>
<td>Improve data collection related to vulnerable populations and factors related to human rights and health equity for these groups.</td>
<td>Relay qualitative and quantitative feedback from monitoring public policy directly to policy makers to inform them about the impact of policies and the data needs for policy monitoring.</td>
</tr>
<tr>
<td>Use these data to guide the development of more robust, targeted public health policies and to refocus existing policies and interventions by centering the COVID-19 response around the most vulnerable and marginalized groups.</td>
<td>Ensure that future public health policies consider the impacts on vulnerable communities and that protections are formally integrated into legislation.</td>
</tr>
<tr>
<td>Focus support and resources on communities known to be particularly affected by specific policies.</td>
<td>Provide financial, social, and health service support for communities disproportionately impacted by COVID-19.</td>
</tr>
</tbody>
</table>
Health Organization: “a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.” In doing so, these policies can risk worsening the health of marginalized communities.

Recommendations for future policy and practice at the nexus of public health and human rights

We argue that public health interventions should (1) prioritize the most vulnerable and underserved populations, (2) ensure additional support for such communities, including access to financial, social, and medical resources, and (3) be formulated to consider not only pandemic control but also the health and human rights of those they impact. Based on our analysis, public health decision-makers must ensure that public health interventions are executed with a human rights lens by taking concrete steps in both policy and practice (see Table 3).

Decision-makers must follow a forward-thinking approach while constantly assessing and reassessing policies and restrictions for potential impacts on human rights and inequities. Likewise, policy decisions need to be adapted to emerging issues and challenges that arise during long-lasting crises. Whereas our analysis focused on the early phases of the COVID-19 pandemic, global inequities in access to COVID-19 vaccines have emerged as the dominant human rights issue in 2021, with high-income countries controlling the vast majority of the global vaccine supply. Our database did not include information on vaccination policies, but this example strikingly demonstrates how both data collection and policymaking need to flexibly adjust to rapid developments to ensure that emerging human rights issues can be addressed in a timely manner.

While these recommendations can help reduce the negative human rights impacts of public health interventions, there will still be communities that disproportionately suffer. It is imperative that any utilitarian approach look deeply at the short- and long-term impacts on marginalized communities and establish concrete mechanisms for redress and compensation. This could include financial support, additional health services, health insurance coverage, policy changes, and social support. While these steps may be aspirational in practice, they are required to build a healthier and fairer world. Curbing the COVID-19 pandemic requires a strong public health response—but to do it equitably and effectively requires a human rights framework.

Acknowledgments

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11. Gostin (2020, see note 3).


31. Smart and Garcia (see note 29).


38. International Commission of Jurists (see note 4); Brooks et al. (see note 37).


41. Peterman et al. (see note 2).


47. Hayakawa (see note 9).


51. Peterman et al. (see note 2).
60. Silva and Smith (see note 6); Gostin (2003, see note 7).
63. Silva and Smith (see note 6).