

February 8, 2022

To the General Assembly Public Health Committee

Re: Written Testimony on Extending King Lamont's Medical Experimentation

To the Committee,

It's day 694 of the 15 days to flatten the curve.

I'm including a link to the spoken version – [at least to the extent Youtube allows it to stay up.](#)

I'm hyperlinking this, with the exception of Exhibit A, the latest and greatest, as you should call it, “science”.

But this Committee won't do that for the reasons to be proven and demonstrated.

I'm not going to change any minds. The only constructive purpose of this testimony is to confront my abusers and to make a record that such evils will never be allowed to happen again after they get their day in court. It's not going to matter today. Minds are made up, federal money is to be obtained, ex post factor justifications are being sought – today.

This is for five years from now, when the civil rights litigation can start winding down, and hopefully we have a government that can make sure this never, ever happens again looking back on this.

You on this Committee and your colleagues in the General Assembly that have allowed the abuse to have no end or limit are my abusers. I have every reason to believe you hate both my children whom the Governor's edicts kept me from for almost two years – just as much as you hate every child who was isolated or who otherwise didn't see their family – or worse, was abused because you took their network of friends, family and teachers from them.

This General Assembly allowed the Governor to take almost an entire year of my earnings. The whole “ReUnited CT” program is a joke that not only left me somewhat comparatively out in the cold, but a lot of landlords in municipal foreclosure and utility shut off, actually out in the cold. The arrogant attempt to exact such a heavy economic price in this one aspect of reality alone mocks us. It tells us that we citizens are mere chattel – property of the government to be lorded about. Our rents get to be higher.

The only reason you say “science is settled” is because you would adhere to 694 days of ignoring all public health costs, all human suffering inflicted by it and all data that screams the truth – none of this worked.

Unlike you, I, like most everyone else, live in the real world where our decisions have consequences.

You've ignored the data on vitamin D and how that inexpensive, widely available knowledge could have saved far more lives than any of the arbitrary measures imposed, and what doctors would tell you of it.

You, purposefully, have ignored the existence of the MATH+ treatment protocol that existed since April of 2020.

You ignored the fact that the protocol is a verifiable process that works and has an in-depth explanation to it, as given by physicians using it.

You even ignored that, as of August 2020, even NIH was saying that it was unethical to suppress the MATH+ protocol – yet this body did by adopting the Governor's royal decrees that no viable treatment existed or ever could exist.

You ignored how Japan got the job done without extreme, life destroying measures of the dangerously evil and destructive ilk you've taken as gospel.

You ignored the vaccine trials that didn't even evaluate how life saving they would or could have been.

You ignored the orofecal route of transmission of SARS-CoV-2, and insisted it was masks, vaccines and nothing else – not even hand-washing that could possibly help. You ignored it again when the conclusion bore that out when bathroom surfaces tested the highest for concentration of the virus.

You took a hammer to science, ignoring the fact that, statistically, masks have no real meaningfully statistically significant benefit in preventing the spread of COVID when compared to the costs. You ignored studies going back decades that present the real question of whether masks even work in an operating room to prevent the spread of infection. Even when meatpacking plants complied with your settled edicts, that never got you to change the tune.

You ignored attempts to isolate SARS-CoV-2 in open air that failed. That was still true as of January 2021, almost a year into endless executive rule.

Your settled edicts made testing useless. It ignored that amplifying the number of cycles beyond 25 for the PCR panel resulted in false positives. Even Dr. Fauci said to not do that.

You've [ignored household transmission among healthcare workers](#). You've ignored warnings from doctors that [COVID caution](#) is killing patients. You ignored the fact that COVID was [already here months before your inane, destructive and arrogant attempt to play God in thinking 15 days to flatten the curve would have any effect](#).

The fact is, this Committee enabled the George Floyd Exception – you can defy the edicts of the Governor and literally riot on the streets as those of us to whom it doesn't apply can't earn a living, go to church, see our families and in general live life.

I was a litigant in a federal ballot access case. Secretary Merrill wanted, because this was a virus allegedly so dangerous that absentee ballots should be issued on demand, to put everyone who wasn't Democrat or Republican on the ballot with petition. Your leaders, Martin Looney, Themis Klarides, Matt Ritter, Joe Aresemowicz, Bob Duff, and Len Fasano – they, nonparties to the action, penned a letter to a Federal Court with the express purpose and intent of protecting the establishment. This abuse of process is noted, and it will result in a claim for abuse of process against all of them. That is because their specific abuse of process, when things weren't going their way and in the name of COVID, wanted to run the clock. Of course they did that – neither Party in any way could reasonably expect to keep power unshackling other parties from the burden of having to collect signatures for all congressional districts, all state senate districts and all state assembly districts. That might run the risk of them actually being able to campaign for a change – to challenge Democratic and Republican arrogance. They made a choice to avoid that risk and to inevitably become Defendants.

And Joe Aresemowicz was a nice arrogant sort. He wished those of us protesting the harm of his and Ned Lamont's Stanford Prison Experiment died in a COVID ward. Then you have the Republican sort – the co-conspirators who never did all the necessary to stop that sort of arrogance, up to and including suits (like I have filed), or even reporting what very likely appears to be a scheme to get money out of the Federal Government or otherwise conspire in corrupt fashion for bad faith ends. That's literally the sort of arrogance that led [to a defamation action against the Connecticut Democratic Party and the DNC](#), for [falsely accusing me and my co-Plaintiff of supporting armed insurrection and purposefully spreading COVID](#) because we publicly dissented from the sort of horrors at issue.

These weren't by any means an isolated incident of selective enforcement of COVID emergency powers and restrictions. Every local municipal official loved the money as much as they loved the power. Your enabling of this unprecedented incestuous confluence that encouraged all sorts of abuse has led

to a very real breakdown in the fabric of civil liberties in our State such that there is no deserved trust in government. The only way that any trust in government exists here in Connecticut, at this point, is Stockholm Syndrome.

This Committee enabled that by literally locking not just ordinary litigants, but those in jail pending trial, children in DCF cases and those facing the prospect of involuntary commitment out of court.

Those for the restrictions, at this point – let me assure you that none of you reading this have any right to feel picked on. You deserve to be mocked for wearing a mask for each and every time those of us exempt, myself included, have been the subject of threats and actual incidences of physical violence – violence based on the fear you fueled, you enabled and you outright encouraged because you decided that Muchaussen by Proxy was no longer a mental illness. You, the General Assembly, made that public health policy.

It is equally true that you have no right to feel picked on by parents trying to get their school boards to do the right thing – to reject the federal money and the state money that comes with forcing their kids to be masked, indefinitely. It's one thing for you to enable two years to be taken from me – someone who is 39 years of age. That's more than a lifetime to a teenager. It's an age to a kindergartner for which the arrogant among the General Assembly lack any recollection of fathoming.

There is no right to feel picked on by small businesses – especially hospitality ones – that go absolutely ruined by the confusing, inane and unenforceable “Sector Rules”. The General Assembly went to economic war on all of them when it enabled the Governor to continue his war on all of them.

When it comes to Exhibit A, that's the science end of how mandates just will never, ever work. So, in conjunction with the fact that Emergency Used Authorization under [21 USC §360bbb-3](#), and its attendant need to pretend no possible therapeutics exist, you bet a lot of people who otherwise would have heard about or had their physicians not afraid to talk about Vitamin D or the MATH+ Protocol died. It's an absolute lie that these things are not out there – let alone the lie that no treatments could ever possibly exist. No one has any reason to be surprised that a tenth of the workforce has some sort of moral, religiously grounded, good faith objection to that alone. We haven't even begun to discuss the economic warfare tactics and oppression inflicted disproportionately among healthcare workers and African Americans that this General Assembly has assented to.

I haven't even scratched the surface of the suicides I was affected by, or of the people who were in fact harmed and killed by the vaccines I know and in the

latter case, knew, personally. We haven't even touched the people that these policies will throw on the streets at some point – delay as we may try to, it will only make it more. We didn't even get to the cancer patients we killed and we have yet to kill by purposefully strangling our hospitals with mandates and by purposefully stopping cancer screenings. We're not even covering the negligent manslaughter of purposefully putting COVID patients in nursing homes – the best place to catch COVID.

The evil things I describe that this Committee and the General Assembly has allowed, condoned, enabled and abetted – easily the most widespread series of civil rights violations that even I, the staunchest Libertarian, would never have suspected in my worst nightmares – these things cannot be undone. You can't pay anyone enough money.

If anyone reading this can still vote to continue any of this, in any fashion, you have no soul.

These things have literally turned the State I grew up in into some foreign, alien place none of us recognize.

I sincerely pray this is effective enough to help make the insanity and its attendant public health harms stop, even if a little faster and by one or two votes sooner.

This Committee and the General Assembly has – remorselessly no less - harmed too many innocent people to reckon with. Each six month extension has come at an increasingly disastrous cost.

/s/

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# EXHIBIT A

## The Unintended Consequences of COVID-19 Vaccine Policy: Why Mandates, Passports, and Segregated Lockdowns May Cause more Harm than Good

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### Abstract

Vaccination policies have shifted dramatically during COVID-19 with the rapid emergence of population-wide vaccine mandates, domestic vaccine passports, and differential restrictions based on vaccination status. These policies have prompted ethical, scientific, practical, and political controversy; however, there has been limited evaluation of their potential unintended consequences. Here, we outline a comprehensive set of hypotheses for why these policies may be counter-productive and harmful. Our framework considers four domains: 1) behavioral psychology, 2) politics and law, 3) socioeconomics, and 4) the integrity of science and public health. While COVID-19 vaccines have had a profound impact on decreasing global morbidity and mortality burdens, we argue that current population-wide mandatory vaccine policies are scientifically questionable, ethically problematic, and misguided. Such policies may lead to detrimental long-term impacts on uptake of future public health measures, including COVID-19 vaccines themselves as well as routine immunizations. Restricting people's access to work, education, public transport, and social life based on COVID-19 vaccination status impinges on human rights, promotes stigma and social polarization, and adversely affects health and wellbeing. Mandating vaccination is one of the most powerful interventions in public health and should be used sparingly and carefully to uphold ethical norms and trust in scientific institutions. We argue that current COVID-19 vaccine policies should be reevaluated in light of negative consequences that may outweigh benefits. Leveraging empowering strategies based on trust and public consultation represent a more sustainable approach for protecting those at highest risk of COVID-19 morbidity and mortality and the health and wellbeing of the public.

# 1. Introduction

Since 2021, mandatory proof-of-vaccination policies have emerged from political and scientific sectors with the stated aim to combat COVID-19. These policies, initiated across the political spectrum, including in many liberal democracies, have spread globally and have involved: workplace mandates (i.e., a ‘no jab, no job’ US federal mandate); green passes/vaccine passports that limit access to social life or travel (e.g., Israel, Australia, Canada, New Zealand, and most European countries); school-based mandates (e.g., most North American universities); differential lockdowns for the unvaccinated (e.g. Austria and Australia); the use of vaccine metrics in lifting lockdowns and other restrictions (e.g., Australia and New Zealand); differential access to medical insurance and healthcare (e.g., Singapore) or additional health tax (e.g. Quebec, Canada); and mandatory population-wide vaccination with taxes, fines, and imprisonment for the unvaccinated (e.g., The Philippines, Austria, Greece) (see **Table 1**).

**Table 1: The global turn towards mandatory COVID-19 proof-of-vaccination policies\***

Policy / intervention	Countries
“No jab, no job” mandates (e.g. Government employees, key workers, public and private sector)	Australia, Canada, China, Costa Rica, Croatia, Czech Republic, Denmark, Egypt, Fiji, France, Ghana, Hungary, Italy, Kazakhstan, Latvia, Lebanon, New Zealand, Oman, Poland, Philippines, Russia, Saudi Arabia, Tunisia, Turkey, Ukraine, United States.
Healthcare worker mandates	Australia, Britain, Croatia, Czech Republic, England, Finland, France, Germany, Greece, Hungary, Lebanon, New Zealand, Poland, United States (some states)
Internal vaccine passports to attend social events, restaurants, bars, nightclubs, fitness facilities, entertainment venues and for bus/train/airport travel	Australia, Austria, Britain, Bulgaria, Canada, Czech Republic, Denmark, Egypt, France, Germany, Italy, Israel, Kenya, Lebanon, Morocco, Netherlands, Romania, Serbia, Singapore, Switzerland, South Korea, Ukraine, United States (some states)
School-based mandates	Costa Rica, Lithuania and United States (some states)
Full country mandatory vaccination	Austria, Ecuador, Germany, Indonesia, Micronesia, Turkmenistan, Tajikistan.
Full population mandate for the elderly	Czech Republic, Greece, Malaysia, Russia

\*This is not a comprehensive list of policies, which are rapidly changing in early 2022. This list excludes the use of segregated lockdowns of the unvaccinated (e.g. Austria, Germany, Australia), entry requirements for international travel, fines and penalties (including restricted access to social services and medical care, business capacity restrictions and threats of imprisonment) and the use of vaccine metrics to inform other restrictions. There is a significant variation in how countries recognize infection-derived immunity, allow religious, philosophical and/or medical exemptions and incorporate testing as an alternative to vaccination. In addition, some countries have implemented a combination of policies and interventions, so each is not mutually exclusive. Adapted from <https://www.reuters.com/business/healthcare-pharmaceuticals/countries-making-covid-19-vaccines-mandatory-2021-08-16/> (accessed 30 December 2021).



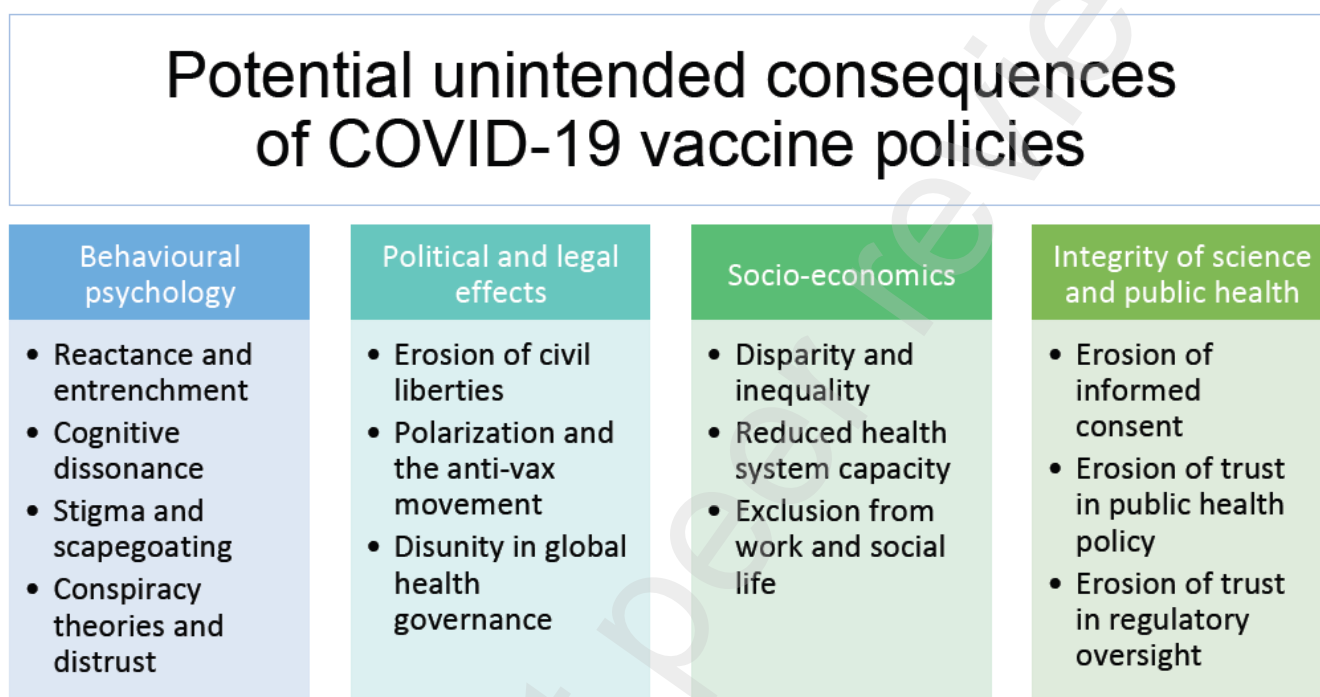
The publicly communicated rationale for implementing such policies has shifted over time. Early messaging around COVID-19 vaccination as a public health response measure focused on protecting the vulnerable. This messaging shifted to reaching vaccination thresholds (of two-doses) to “end the pandemic” and “get back to normal” (DeRoo et al. 2020; Rosenbaum, 2021; Viana et al. 2021), which has in turn pivoted to a universal vaccination recommendation to reduce hospital/ICU burden (to address the so-called “pandemic of the unvaccinated”), which often includes vaccinating young children (5 to 11 year-olds), those with prior infection, and a third adult ‘booster’ dose in a growing number of settings (DW, 2021).

The scientific rationale for current blanket vaccine policies, as well as their ethical and legal justification based on the principle of proportionality (King et al. 2022), is increasingly questionable given recent data (McIntyre et al. 2022). COVID-19 vaccines have been a life-saving intervention for millions of people and continue to provide excellent protection against severe disease (Bajema et. al. 2022; Leon et al. 2022; UKHSA, 2022; ONS 2021b). A growing body of evidence, however, shows significant waning effectiveness against infection (and transmission) at 12 to 16 weeks, with both Delta and Omicron variants (Chemaitelly, et. al., 2021; Eyre et al. 2022; Franco-Paredes, 2022; Goldberg, et. al, 2021; Kissler, et. al., 2021; Levin, et. al., 2021; Singanayagam et al. 2022) – waning that may even reach 0% effectiveness with the Oxford-AstraZeneca vaccine after this time (Nordström et. al., 2021; ONS, 2021a). Vaccine effectiveness may also be lower in younger age groups, who are targets of most vaccine passport or mandate policies (Powell, 2021) and there seems to be little quantitative evidence of the threat the unvaccinated pose to high-risk individuals (Prosser et al. 2021b), especially in settings that have already obtained high levels of vaccine uptake and prior infection (Kojima and Klausner, 2022). While higher rates of hospitalization and COVID-19 associated morbidity and mortality can indeed be observed among the unvaccinated across all age groups (Bajema et. al. 2021; Leon et al. 2022, UKHSA, 2022; ONS 2021b), broad-stroke passport and mandate policies do not seem to recognize the extreme risk differential across populations and, in many countries, ignore the protective role of prior infection (Block, 2021; Kojima and Klausner, 2022; McIntyre et al. 2022).

COVID-19 vaccination policies have been met with increasing degrees of public, community, and political resistance, including energetic mass street protests and popular movements around the world (Paterlini 2021; Ward et. al., 2022). Most media and civil debate in liberal democracies has framed this reaction as a consequence of “anti-science” and “right-wing” forces, emphasizing the need to fight online misinformation spread by the anti-vaccination movement (Hotez, 2021). While many commentators have pointed out that vaccine mandates for other diseases exist in some settings (e.g. schools and, in some instances, for healthcare workers) (Omer et al. 2019), this stance often ignores the unique context of the current pandemic: *what* – the unique policy milieu (previous lockdowns, restrictions, fear, distrust, risk



perceptions, protection from prior infection); *who* – characterization of groups that can most benefit from vaccines (socio-demographic characteristics); and *why* – including socio-economic, cultural, historic, governance and political structural dynamics that shape medical mistrust and vaccine refusal. While vaccine policies have largely been framed as offering ‘benefits’ with freedoms for those who take up a full COVID-19 vaccination series (NSW Government 2021; Guardian 2021), they include elements that are punitive, discriminatory and coercive, including conditioning access to health, work, travel and social life on vaccination status in many settings.



**Figure 1: Conceptual framework.** We consider a broad conceptual framework spanning core aspects of behavioral psychology, politics and the law, the socio-demographic drivers of health inequality, and the integrity of science and public health.

In this paper, we reflect on current COVID-19 vaccine policies and outline a comprehensive set of hypotheses for why they may have far-reaching unintended consequences that may prove to be both counterproductive and damaging to public health, especially within some socio-demographic groups. Our framework considers four domains: 1) behavioral psychology, 2) politics and law, 3) socioeconomic, and 4) the integrity of science and public health (see **Figure 1**). We argue for the need to reframe the boundaries of the problem by considering the unintended consequences of these policies on public perceptions, resistance, vaccine confidence, and social wellbeing, as well as more clearly stating the scientific rationale and justification, as well as their intended public health benefit. We believe mandatory policies centering on COVID-19 vaccination status should be urgently reconsidered, taking into account non-discriminatory, trust-based public health policy rooted in equity, social justice and bioethics.

## 2. What can we learn from the behavioral sciences?

### 2.1. *Reactance, entrenchment and vaccine uptake*

Many COVID-19 vaccination-status policies are intended to drive vaccine uptake, either through framing vaccination as something that will bring about benefits (international travel, domestic travel, access to social events) or by making life sufficiently difficult for the unvaccinated.

Apart from mandatory vaccination of the elderly (currently planned in Czech Republic, Greece, Malaysia, and Russia), most policies do not specify individuals at higher-risk of severe COVID-19 outcomes (Biswas et. al, 2021; Palaidimos et. al., 2020) – among whom COVID-19 vaccine uptake rates, and vaccine confidence more generally, is very high (de Figueiredo et. al., 2021b; Ritchie et. al. 2020).

Although recent studies have suggested that current vaccine policies are likely to increase population-level vaccination rates to some degree (Albarracin et. al., 2021a; Karaivanov et al., 2021; Mills and Ruttenauer, 2022; Prosser and Streiner, 2021a), gains were largest in people under 30 years old (a very low-risk group) and in countries where uptake was below average (Mills and Ruttenauer, 2022). Moreover, insights from behavioral psychology suggest that these policies are likely to entrench distrust and provoke *reactance* - a motivation to counter an unreasonable threat to one's freedom. Literature reviewed by Drury et al. (2021), including a specific survey study by Porat et al. (2021) in the UK and Israel, found that COVID-19 compulsory vaccination would likely increase levels of anger, especially in those who are already mistrustful of authorities, and do little to persuade the already reluctant. Two experiments in Germany and the USA found that a new COVID-19 vaccine mandate would likely energize anti-vaccination activism, reduce compliance with other public health measures, and decrease acceptance to future voluntary influenza or varicella (chickenpox) vaccines (Sprengholz et al. 2021a, 2021b). A third experiment found that selective mandates increased reactance when herd immunity targets were not clearly explained (Sprengholz and Betsch, 2020) – which most governments have failed to communicate. de Figueiredo et. al. (2021b) found that vaccine passports in the UK would induce a net *decrease* in inclination to vaccinate among those who had not received a full vaccination dose, while Bell et. al. (2021) found that UK healthcare workers who felt pressured to vaccinate were more likely to have declined the COVID-19 vaccine. Finally, Jorgensen et al. (2021) found that the reintroduction of vaccine passports in late 2021 in Denmark increased distrust among the unvaccinated, while recent evidence from France suggests that while the *passe sanitaire* increased levels of vaccination, it did so to a lower extent among the most vulnerable, may have contributed to increased nocebo effects, and did not reduce vaccine hesitancy itself: the authors concluded that “Mandatory vaccination for COVID-19 runs the risk of politicizing vaccination further and reinforcing distrust of vaccines” (Ward et. al., 2022).

## 2.2. Cognitive dissonance

The public interpretation of COVID-19 vaccination status policies has occurred within the context of the rapidly changing pandemic. Oversimplified public announcements, downplaying uncertainties and potential adverse events, and misleading information communicated from health authorities regarding vaccine efficacy and disease risk, have helped facilitate various layers of *cognitive dissonance* (a psychological stress precipitated by the perception of contradictory information) (see **Table 2**). Mandates, passports, and segregated restrictions create an environment where reactance effects are exaggerated because people with low vaccine confidence see the contradictory information as validating their suspicions and concerns. Citing the potential for backlash and resistance, in December 2020, the director of the World Health Organization's (WHO) immunization department stated: "I don't think we envision any countries creating a mandate for [COVID-19] vaccination" (Reuters, 2020). Many governments originally followed with similar public statements, only to shift positions in mid-2021.

**Table 2: Incomplete or misleading information by health authorities and the media**

Vaccine efficacy	Communications have sometimes over-emphasized the efficacy of COVID-19 vaccines, both for preventing infection and transmission, and in preventing severe disease (e.g., Christie, 2022; Guardian 2021c; New York Times, 2021; Nordstrom et. al, 2021; ONS 2021a; VCP 2021a, b; Wong, 2021).
Vaccine incentives	Communications from official sources have often associated vaccination with freedom from restrictions and lockdowns (e.g., NSW Government 2021; Guardian 2021).
Risk	The media have often downplayed the age- and comorbidity-based risk of COVID-19 while promoting population-wide vaccination across all age-groups (National Public Radio, 2021; Guardian, 2021b; Wexler Medical Center; 2021). As vaccination programs have moved down the age spectrum, the media has followed suit by over-emphasizing the risks of COVID-19 for young adults and then children in turn (Broadfoot, 2022; Bekiempis, 2022, Project Halo 2021a).
Vaccine safety	Limited pharmacovigilance and data sharing in some settings, including the original clinical trials (Doshi et al. 2022; Tanveer et al., 2021). Early evidence of blood clotting complications were reported as "one in a million" events (BBC News 2021b; The Daily Mail 2021), but ultimately proved much higher (Hippisley-Cox et. al., 2021). More recent safety signals associated with myocarditis in young men (Mevorach et. al, 2021) and with the Moderna vaccine in particular (Patrone, et. al., 2021) have been downplayed and risks may not have been fully considered in the context of protection afforded by prior infection. Reports often state that the risk of myocarditis is greater from infection than vaccination, without fully disclosing age- or sex-stratified risk in a detailed fashion (Patone et. al., 2021; Pyle & Huang, 2022).
Vaccine coverage	Vaccination coverage is regularly reported on without breaking down coverage by age or risk group. By including children, and other low-risk groups, coverage for those at most risk is deflated (Bradley et al, 2021). The addition of boosters to vaccination programs leads to moving goalposts, whereby coverage rates can be regularly revised down.

Acquired immunity	The media and several governments have downplayed the importance of acquired immunity. Often the media has framed vaccination as the safest and only route to protection (see, e.g., ZOE, 2021a; NBC News, 2021; Forbes, 2021; New York Times, 2021b), but this lacks context for those with prior infection, who may have a higher risk of vaccine side effect (Gavi, 2021; ZOE, 2021b; Krammer et. al, 2021) and vaccine-specific risks in particular demographics (Patrone, et. al., 2021), as well as a lack of detailed age- and sex-stratified risk-benefit communication in light of the reduced severity of the Omicron variant.
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Cognitive dissonance may have been compounded by the changing rationale provided for vaccine policies and public perceptions that certain information is being actively censored or selectively presented (Coombes and Davies, 2022; New York Times, 2021a). In many countries, “green-passes” have been implemented without clear communication, justification, and transparency, and with ambiguities and public concerns (Luster et al. 2021). Initial communication that COVID-19 vaccines would prevent transmission to vaccinated people contributed to skepticism and confusion once onerous non-pharmaceutical interventions (NPIs) were reintroduced in countries with vaccine mandates or passports in late 2021 (BBC News, 2021a; Wong, 2021).

Significant public concerns about safety signals and pharmacovigilance have been furthered by the lack of full transparency in COVID-19 clinical trial data (Doshi et al. 2022; Tanveer et al., 2021) as well as shifting data on adverse effects, such as blood-clotting events (UK Government, 2021), myocarditis in young men (Munro, 2021), and menstrual periods (Male, 2021). These shifts have been associated with changes to vaccination guidelines in terms of eligibility for different vaccines. Most employer-based vaccine mandates and passports in North America have disregarded the evidence that infection-derived immunity also provides significant protection from severe disease (Kojima and Klausner, 2022), and that vaccination itself does not stop transmission in a significant number of people, leading to thousands of protected individuals being fired from their jobs (or choosing to leave) while transmission has continued among vaccinated individuals in the workplace.

### ***2.3. Stigma as a public health strategy***

Public and political discourse quickly normalized stigma against people who remain unvaccinated, often woven into the tone and framing of media articles: for example, a popular news outlet compiled a list of “notable anti-vaxxers who have died from COVID-19” (Savulescu and Giubilini, 2021). Political leaders have singled out the unvaccinated, blaming them for: the continuation of the pandemic; stress on hospital capacity; the emergence of new variants; driving transmission to vaccinated individuals; and the necessity of ongoing lockdowns, masks, school closures and other restrictive measures (see **Table 3**). Political rhetoric has descended into moralizing, scapegoating, blaming, and condescending language

using pejorative terms and actively promoting stigma and discrimination as tools to increase vaccination. This has become socially acceptable among many vaccinated individuals and pro-vaccine groups as well as the public at large. The effect is to further polarize society – physically and psychologically – with limited discussion as to the reasons why people may remain unvaccinated and specific strategies to increase uptake especially in communities where there would be disproportionately larger individual and societal benefits (e.g., reducing ICU admissions). Importantly, there is rarely a discussion of *who* and *why* people remain unvaccinated as compared to just presenting a proportion. Characterizing determinants of uptake may provide insight into the relative impact of disinformation vs historical disenfranchisement and structural racism. Increasingly, vaccine policy appears to have driven social attitudes towards an in/out group dynamic rather than adaptive strategies for different communities and risk groups.

**Table 3: Political rhetoric regarding the unvaccinated**

Country leader	Statement
Emmanuel Macron, PM of France	<p>“[It is] only a very small minority who are resisting. How do we reduce that minority? We reduce it by pissing them off even more...When my freedoms threaten those of others, I become someone irresponsible. Someone irresponsible is not a citizen.”</p> <p><a href="https://www.theguardian.com/world/2022/jan/04/macron-declares-his-covid-strategy-is-to-piss-off-the-unvaccinated">https://www.theguardian.com/world/2022/jan/04/macron-declares-his-covid-strategy-is-to-piss-off-the-unvaccinated</a></p>
Justin Trudeau, PM of Canada	<p>“When people are seeing cancer treatments and elective surgeries put off because beds are filled with people who chose not to get vaccinated, they’re frustrated...When people see that we are in lockdowns or serious public health restrictions right now because of the risk posed to all of us by unvaccinated people, people get angry.”</p> <p>“They are extremists who don’t believe in science, they’re often misogynists, also often racists...It’s a small group that muscles in, and we have to make a choice, as a leader and as a country: Do we tolerate these people?”</p> <p><a href="https://torontosun.com/opinion/columnists/warmington-opposition-shockingly-silent-on-pms-hatred-of-unvaccinated-canadians">https://torontosun.com/opinion/columnists/warmington-opposition-shockingly-silent-on-pms-hatred-of-unvaccinated-canadians</a></p>
Joe Biden, President of the United States of America	<p>“This is a pandemic of the unvaccinated. And it’s caused by the fact that despite America having an unprecedented and successful vaccination program, despite the fact that for almost five months free vaccines have been available in 80,000 different locations, we still have nearly 80 million Americans who have failed to get the shot.”</p> <p><a href="https://www.whitehouse.gov/briefing-room/speeches-remarks/2021/09/09/remarks-by-president-biden-on-fighting-the-covid-19-pandemic-3/">https://www.whitehouse.gov/briefing-room/speeches-remarks/2021/09/09/remarks-by-president-biden-on-fighting-the-covid-19-pandemic-3/</a></p> <p>"For the unvaccinated, you're looking at a winter of severe illness and death for yourselves, your families, and the hospitals you may soon overwhelm."</p> <p><a href="https://www.whitehouse.gov/briefing-room/press-briefings/2021/12/17/press-briefing-by-white-house-covid-19-response-team-and-public-health-officials-74/">https://www.whitehouse.gov/briefing-room/press-briefings/2021/12/17/press-briefing-by-white-house-covid-19-response-team-and-public-health-officials-74/</a></p>

Naftali Bennett, PM of Israel	<p>“Dear citizens, those who refuse vaccines are endangering their health, those around them and the freedom of every Israeli citizen. They are endangering our freedom to work, the freedom of our children to learn and the freedom to hold celebrations with the family. Those who refuse vaccines hurt us all because if all of us were vaccinated, we would all be able to maintain daily life. But if one million Israelis continue to not get vaccinated, this will oblige the eight million others to shut themselves in their homes.” <a href="https://www.gov.il/en/departments/news/event_statement220721">https://www.gov.il/en/departments/news/event_statement220721</a></p>
Michael Gunner, Northern Territories Chief Minister, Australia	<p>"If you are anti-mandate, you are absolutely anti-vax, I don't care what your personal vaccination status is. If you support, champion, give a green light, give comfort to [or] support anybody who argues against the vaccine, you are an anti-vaxxer, absolutely. Your personal vaccination status is not relevant. If you campaign against the mandate...If you say 'pro-persuasion', stuff it, shove it. You are anti-vax.” <a href="https://www.abc.net.au/news/2021-11-22/nt-covid-vaccine-mandate-opponents-anti-vaxxers-michael-gunner/100640656">https://www.abc.net.au/news/2021-11-22/nt-covid-vaccine-mandate-opponents-anti-vaxxers-michael-gunner/100640656</a></p>
Jacinda Ardern, PM of New Zealand,	<p>"If you are still unvaccinated, not only will you be more at risk of catching COVID-19, but many of the freedoms others enjoy will be out of reach....we have managed very high vaccination rates, generally, without the use of certificates but what has become clear to me is that they are not only a tool to drive up vaccines; they are a tool for confidence. People who are vaccinated will want to know that they are around other vaccinated people...it is a tool for business"</p> <p><a href="https://www.spectator.co.uk/article/saint-jacinda-backs-a-two-tier-society">https://www.spectator.co.uk/article/saint-jacinda-backs-a-two-tier-society</a></p>
Tony Blair, former UK Prime Minister	<p>“We need to target the unvaccinated. Frankly if you are unvaccinated at the moment and you’re eligible and have no health reason for being unvaccinated, you’re not only irresponsible but you’re an idiot. I am sorry but truthfully you are. With this Omicron variant...you will get it and this will put a lot of strain on the health service.”</p> <p><a href="https://www.thetimes.co.uk/article/tony-blair-if-youre-eligible-and-refuse-the-covid-vaccine-youre-an-idiot-sz97xhkdg">https://www.thetimes.co.uk/article/tony-blair-if-youre-eligible-and-refuse-the-covid-vaccine-youre-an-idiot-sz97xhkdg</a></p>
Rodrigo Duterte, President of The Philippines	<p>“I’m now giving orders to village leaders to look for those persons who are not vaccinated and request them to stay put [in their house]...If they refuse to vaccinate, or continue to leave their home, the village leaders are empowered to arrest them...."</p> <p><a href="https://healthpolicy-watch.news/philippine-president-arrest-unvaccinated/">https://healthpolicy-watch.news/philippine-president-arrest-unvaccinated/</a></p>

Leveraging stigma as a public health strategy, regardless of whether or not individuals are opposed to vaccines, is likely to be practically ineffective at promoting vaccine uptake (Kampf, 2021). Unvaccinated or partially vaccinated individuals often have concerns that are based in some form of evidence (e.g. prior COVID-19 infection, data on age-based risk, historic/current trust issues with public health and governments, including structural racism), personal experiences (e.g. direct or indirect experience of adverse drug reactions or iatrogenic injuries, unrelated trauma, issues with access to care to address adverse events, etc.) and concerns about the democratic process (e.g., belief that governments have

abused their power by invoking a constant state of emergency, ignoring processes of public consultation, and over-relying on pharmaceutical company-produced data in their decision-making) that may prevent or delay them from choosing to vaccinate. Current inflammatory rhetoric runs against the pre-pandemic societal consensus that health behaviors (including those linked to known risk factors for severe COVID-19, e.g., smoking and obesity (Palaiodimos et. al., 2020)) should not impact the way medical, cultural, or legal institutions treat an individual seeking care. Certain governments are now imposing medical insurance fines or premiums on the unvaccinated, while medical staff and hospital administrators are considering using vaccination status as a triage protocol criterion. The American Medical Association released a statement decrying the refusal to treat unvaccinated patients (American Medical Association, 2021) but this has not prevented the ongoing narrative of shaming and scapegoating people who have chosen not to vaccinate.

#### ***2.4. Conspiracy theories and distrust***

Trust is one of the most important predictors of vaccine acceptance globally (Larson et. al., 2018) including confidence in COVID-19 vaccines (Lazarus, 2021; de Figueiredo et. al, 2021b; Cook et. al, 2022). Data show the importance of being transparent about negative vaccine information to increase trust; for example, Petersen et al. (2021) recently found that when health authorities are not transparent, it can increase receptivity to alternate explanations.

COVID-19 vaccines have grafted onto multiple social perceptions, logics and anxieties about science, technology and corporate and government power, and “conspiracy theories” have become widely circulated, especially among unvaccinated people (Hotez et al. 2021). Forcefully implemented vaccine policies may entrench existing beliefs of distrust by creating a strong confirmation bias that governments and corporate powers are acting in an authoritarian manner. Some of the major concerns include adoption of implantable tracking devices (including micro-chips), digital IDs, the rise of social credit systems, and the establishment of authoritarian biosurveillance governments. Paradoxically, the COVID-19 pandemic happens to coincide with far-reaching technological advances that do provide the capability for new and future forms of mass state surveillance (UK Parliament 2021; Ram and Gray, 2020). For example, biocompatible intradermal devices have recently been created that can be used to hold vaccine records, while multifunction implantable microchips (that can regulate building access and financial payments, much like cell-phones) are now available on the market (McHugh et al. 2019; Teh, 2021). Aspects of vaccine passport policies combined with these innovations – as well as censorship by social media companies of vaccine trial issues from reputable sources like the BMJ (Coombes and Davies, 2022) – may reinforce and exacerbate suspicion and distrust (The Royal Society, 2022).



### 3. The political and legal effects of vaccine mandates, passports, and differential restrictions

#### 3.1. *The erosion of civil liberties*

COVID-19 vaccine policies represent a broad interference with the rights of unvaccinated people. While some governments have recently passed mandates and passports through the democratic process (e.g., Switzerland, Austria, France), many current policies are *regulations* or *decrees*, created under states of emergency that have suspended normal democratic governance (National Academic for State Health Policy, 2021). Many current policies have been implemented in ways that allow ad hoc juridical decisions and irregular and over-permissive private-sector rules, with limited accountability or legal recourse to address rights violations (Luster et al. 2021).

Vaccine passports risk enshrining discrimination based on *perceived* health status into law, undermining many rights of healthy individuals: indeed, unvaccinated but previously infected people will generally be at substantially *less* risk of infection (and severe outcomes) than doubly vaccinated but infection-naïve individuals (Gazit et. al. 2021). A weekly negative PCR test is often seen as a compromise made to the unvaccinated in lieu of full vaccination status, but this places additional burdens (including financial) on the unvaccinated. Employer-imposed mandates that require people to be vaccinated following prior infection, especially where employees can work remotely, appears to lack the basic elements of a Bona Fide Occupational Requirement (BFOR), broadly recognized in employment discrimination law: it constitutes a disproportionate imposition of a health intervention without workplace-related justification. Many countries have also tightened the ability to seek religious, medical, or philosophical exemptions, open to unclear decision-making and political interference (e.g., Reuters, 2021). Perhaps the most high-profile case to date involves the deportation of the top-ranked men's tennis player, Novak Djokovic, at the Australian Open 2022, despite having been granted a medical exemption for the tournament. The explicit characterization of Mr. Djokovic as a threat to Australian "civil order and public health" (Le Grand, 2022) underlines concerns of vaccine mandates and passports as a tool for authoritarian behavior.

There are also significant privacy issues with passports, which involve sharing medical information with strangers. Having set these population-wide passport precedents, it is conceivable that they could be expanded in the near future to include other personal health data including genetic tests and mental health records, which would create additional rights violations and discrimination based on biological status for employers, law enforcement, insurance companies, governments, and tech companies. Technology companies interested in biosurveillance using artificial intelligence and facial recognition technology have obtained large contracts to implement vaccine passports and now have a financial interest in maintaining and expanding them (Levine, 2022)

### **3.2. Political polarization**

COVID-19 vaccine policies have generated intense political debate, mass street protests, and energized new populist coalition movements, with varied political views (Juen et al. 2021; Waszkiewicz et al. 2021). Opinion polls show that while many support these policies, others view them as inherently coercive, discriminatory, and counter to liberal values of bodily autonomy, freedom of choice and informed consent (de Figueiredo, 2021b; Shao and Hao, 2020). It is clear that current policies are divisive and unpopular with many people, even many vaccinated people (de Figueiredo, 2021b), and that they have become a source for collective rage and anger, notably for those who have been fired from their jobs or isolated and barred from social life.

COVID-19 vaccine policies may influence upcoming elections (van Dongen and Leidig, 2021). For instance, far-right and populist parties in Germany (the Alternative for Germany, AfD) and Austria (Freedom Party) have come out strongly against medical segregation (France 24, 2021). In 2022, the US Supreme Court struck down the Biden administration's federal vaccine mandate as unconstitutional, just as it came into effect for 80 million workers (albeit upholding the mandate for HCWs); republicans had long criticized the mandates (Rainey 2021, Wise 2021). In Martinique and Guadelupe, vaccine passports have led to months of political unrest and violent protests that threaten the political stability of the French government. Pottinger (2021) argued that mandates and passports could trigger insurrection and civil war in South Africa.

Just as the smallpox vaccination mandates in 1850s Britain created the first "anti-vax" movement (Durbach, 2005; Fitzpatrick, 2005), the backlash against COVID-19 policies is energizing a global network connected by modern communication technology against these measures. These backlashes may contribute to increased distrust of other vaccines and foster new forms of radicalization and protest. While mainstream news outlets have voiced concern about the rising "anti-vaccination fervor" among the far-right, and potential for violence (Orr, 2022), center-left politicians have also used this rhetoric for their own agenda. In Canada, Prime Minister Trudeau used majority support for mandatory vaccination and passports to divide the conservative opposition in a recent federal election. In the USA, California, and New York (Democrat-controlled states) have implemented COVID-19 vaccine passports for children, while Florida and Texas (Republican-controlled) are introducing legislation to remove childhood school vaccine mandates in general. Some medical freedom and anti-vaccination groups have made increasingly alarming, false and inflammatory claims - e.g. calling vaccinators "needle Nazis" - which have been widely circulated on social media (Hotez, 2021a,b). In turn, pro-vaccine advocates have equated "anti-vaxxers" with domestic terrorists, calling for government agencies and social media companies to strengthen censorship laws. Political polarization and radicalization may increase if punitive and non-targeted vaccine policies continue.

### ***3.3. Disunity in global health governance***

Current vaccine policies risk furthering disunity in global health governance. Despite the World Health Organization stating that boosters will prolong the pandemic by contributing to vaccine hoarding and low supply (Miao, 2021), universities (including global health departments) in wealthy countries have mandated boosters for low-risk healthy students and faculty, when vaccination rates remain extremely low in many low- and middle-income countries (LMICs) (Ritchie et. al., 2020). Efforts to pressure pharmaceutical companies (who developed vaccines with the support of publicly funded research money) to remove patent protections have proved unsuccessful (Loftus, 2021; Rizvi, 2021). Pharmaceutical companies have ensured that the costs of adverse effects are borne by governments (Allen, 2021); in turn, the world's tens of millions of migrants and asylum-seekers may be denied COVID-19 vaccines because of legal liability issues (Guarascio and Wongcha-um, 2021). Simultaneously, some scientists are calling the unvaccinated (as a homogenous group) the source for future variants ("variant factories") fueling inflammatory rhetoric (Goldman, 2021) that likely contributed to the heavily criticized reaction to close international borders to southern Africa during the spread of Omicron in late 2021.

The rollout of vaccine passports and mandates is financially costly and diverts resources and focus away from other interventions. In Canada, one billion dollars was pledged by the Trudeau government for vaccine passports (Tasker, 2021) and in New York State, the Excelsior Pass App-system developed by IBM will cost more than \$27 million (Levine, 2022). Importantly, the focus on "the unvaccinated" as the cause of health system collapse diverts public attention away from failures and deep structural challenges facing public health capacity in many countries and global equity failures. It absolves governments of attending to other strategies for opening schools and keeping public spaces safe. Perhaps more significantly, the indiscriminate influence of global agencies, pharmaceutical companies, and competition between the two global superpowers (China and the U.S.) may skew national health priorities in LMICs, taking budgets away from other important health priorities, especially if vaccination metrics are tied to international loans and financial agreements – a new form of vaccine colonialism.

## **4. Socio-economic impacts**

### ***4.1. Increasing disparity and inequality***

The vaccine social science literature clearly shows that historically marginalized groups – those facing economic challenges and racial and minority groups – tend to have less confidence in vaccination programs and are more likely to be distrustful (Cook et. al. 2022; de Figueiredo et. al., 2021a; de Figueiredo et. al, 2020; Razai, et. al., 2021a). This raises the possibility that punitive COVID-19 vaccine policies may fuel existing inequity (Arguedes-Ramirez, 2021). A rapid policy briefing by the Nuffield Council on Bioethics (2020) emphasized that immunity passports could "create coercive and stigmatizing

work environments” and are “more likely to compound than redress...structural disadvantages and...social stigmatization.” It is highly likely that mandates and vaccine passports will be implemented in ways that discriminate against disadvantaged groups including immigrants, the homeless, isolated elderly people, those with mental illness, specific cultural and religious groups, those in precarious living circumstances, and people with certain political views and values (e.g., libertarians). Moreover, communities who have historically been subject to state surveillance, segregation, structural racism, trauma or violence may be more likely to resist medical mandates, viewing them as authoritarian. In Israel, reports suggest that Bedouin and Palestinian communities in the Occupied Palestinian Territory have faced major barriers to vaccine access, with more distrust of vaccination and bureaucratic barriers to accessing and using green-passes even when vaccinated (Luster et al. 2021). Similar challenges have been raised among Europe’s Roma and in black communities in the UK and United States (de Figueiredo et. al., 2021a; Kamal, et. al., 2021; Milanović, 2021). Altogether, rather than enhancing human agency and strengthening communities and social cohesion, many current vaccine policies – including monthly fines for non-compliance (e.g. Greece and Austria) – may work to disempower individuals and contribute to long-term psychosocial stress and disharmony.

#### ***4.2. Reduced health system capacity***

The pandemic has created immense strain on health systems, contributing to disruptions in global immunization programs (Causey et al. 2021), burnout of healthcare workers and mental health issues, which risk worsening clinical outcomes for all patients. These trends may be exaggerated by the current policy push towards mandatory COVID-19 vaccination of healthcare workers and firing of unvaccinated staff (Gur-Arie et al. 2021). Mandates and expulsions for healthcare workers are particularly unjustifiable for staff with post-infection immunity, which appears to be at least as strong as vaccine-induced (Gazit et. al., 2021; Hall et. al., 2021; Kojima and Klausner, 2022). Recent data on transmission (Wilder-Smith, 2022) further complicates the ethical claim that healthcare workers should be vaccinated to prevent staff-to-patient transmission.

Despite these considerations, many countries may lose frontline staff due to mandates. As of 31 December 2021, despite the forthcoming imposition of a vaccine mandate for patient-facing NHS workers, 8% of medical practitioners in the UK (73,000 people) remained unvaccinated (Faragher, 2021). In late 2021, Quebec (Canada) dropped its proposed mandate for healthcare workers, citing the devastating labor shortage it would cause on hospital systems (3% of staff, or 14,000, were unvaccinated) (Maratta, 2021).

### ***4.3. Exclusion from work and social life***

COVID-19 vaccination policies that disproportionately restrict people's access to work, education, public transport, and social life can be considered a violation of human rights, including the right to work (UN ICESCR art. 5, 1966). The economic effects of restricting access to work may also have indirect implications for dependents of the unvaccinated. A survey in October 2021 in the United States found that 37% of unvaccinated participants (5% of participants overall) would leave their job if their employer required them to get a vaccine or get tested weekly; this rose to 70% of unvaccinated participants (9% of all participants) if weekly testing was not an option (Hamel et al. 2021). Economic deprivation and parental stress resulting from restricted access to work and exclusion from social life may have long-term psychological and livelihood consequences on individuals, families and especially children. Commentators have also highlighted the potential impact of mandates in creating supply chain bottlenecks in certain commodities and with cross-border trade, and argued that changing vaccine rules and regulations threaten to negatively impact overall economic recovery in some sectors of the economy including tourism (Sampson, 2021).

## **5. The integrity of science and public health**

### ***5.1. Eroding of informed consent***

Informed consent in standard healthcare settings requires that a person's decision to undertake a health treatment be voluntary, and that the person receive adequate information about the comparative risks and benefits and can weigh these with their individual circumstances. Voluntariness is considered undermined by undue influence, duress, threats of harm, and coercion (Lemmens 2015). The term 'structural coercion' has been introduced in the context of medical research to emphasize how social and economic contexts may seriously undermine autonomous decision making (Fisher 2013). As some of those supporting COVID-19 vaccine mandates recognize (Gostin 2021), and contrary to the media portrayal that "the unvaccinated are entirely free to decline", many policies clearly limit choice and the normal operation of informed consent. To many, these policies will function as coercion, and will not be viewed as "incentives" (ECDC, 2021; Nuki, 2021; Wilf-Miron et al. 2021). Some attach very serious consequences to refusal, such as loss of employment and livelihoods, potentially resulting in poverty and inability to care for family. Others are at first glance less restrictive (e.g., restricting access to bars, concerts, sports events, international travel, some healthcare settings), but can still lead to a significant exclusion from social life, thus creating pressure towards compliance.

The legal and ethical justification for such policies (and the reduced voluntariness of consent to vaccination) depends therefore on the public health-based rationale, i.e. particularly the ability to prevent significant harm to others, where less rights-restricting policies have failed or appear unlikely to achieve

an acceptable result. Yet, it has become clear that many current vaccine policies are not primarily aimed at reducing viral transmission but are rather focused on preventing individual morbidity and mortality. Governments have admitted that such policies are inherently designed to be coercive; in the words of French President Emmanuel Macron, the aim is to “piss off [the unvaccinated]...to the end. This is the strategy” (Henley, 2022). If these are the real goals, one can conclude that they not only limit, but largely disregard, the ethics of informed consent. Even when the rules of informed consent are constrained due to strong public health justifications, providing accurate information about risks and potential benefits to those who accept to be vaccinated remains a minimal requirement; it is unclear how current vaccine policies may compromise the integrity of this process. The net effect is that some individuals are likely being pushed or coerced into getting vaccinated while others are being systematically alienated from society. This includes individuals who have suffered due to past corporate malfeasance by pharmaceutical companies including Pfizer, who has a history of criminal and civil settlements in the billions of dollars, in part resulting from marketing practices and misrepresentation (Doshi et al. 2022). We should pause to consider the extent to which current policies, and how they are implemented in clinical settings, sets a precedent for the erosion of informed consent and abuse of public health powers into the future.

## ***5.2. Erosion of trust in public health policy***

The principle of proportionality requires that the benefits of a public health intervention outweigh the harms; and that no other less invasive measures are available. This principle is also a key condition in justifying mandates from a constitutional and human rights perspective (King et al. 2022; Lex-Atlas COVID-19, 2022). There are two proposed benefits of current vaccine policies: i) protection of others through reduced transmission and ii) reduced burden on healthcare systems (which also protects others where capacity is limited). Evidence strongly suggests that current vaccines have a weak and rapidly waning effect on preventing transmission for Delta and (increasingly so) for Omicron (Chemaitelly, et. al., 2021; Eyre et al. 2022; Franco-Paredes, 2022; Goldberg, et. al, 2021; Kissler, et. al., 2021; Levin, et. al., 2021; Singanayagam et al. 2022). It must also be acknowledged that the original clinical trials on which these vaccines were approved did not include the reduction of transmission as end-points (Doshi et al. 2022). Prosser et al. (2021b) attempted to model the effectiveness of excluding unvaccinated people from social gatherings, work/study places, healthcare, and travel, finding that it was unlikely to have any significant impact on COVID-19 transmission, even using outdated vaccine trial efficacy data, which is likely to reduce their estimates further. Given the emergence of Omicron (Murray, 2022), existing seroprevalence studies showing moderate to high prior SARS-CoV-2 infection in many countries (McIntyre et al. 2022), and the increasing number of severe COVID-19 cases among the vaccinated (Alderwick, 2022), the rationale for current vaccine policies to prevent health systems from collapsing appears to be very questionable, despite data supporting that current vaccines continue to prevent against severe disease (Leon et al. 2022, UKHSA, 2022; ONS 2021b, Bajema et. al. 2021).

High existing rates of both voluntary vaccination and prior infection in most countries (McIntyre et al. 2022) suggest that the benefit of mandates, passports and segregated restrictions based on vaccine status will be small, and will decrease over time as more people have been infected at least once. Meanwhile, the direct harms (excluding people from education, work, and other key social goods) are significant, and indirect harms (as we note in other sections) may increase still further in the future.

These considerations suggest that many current COVID-19 vaccine policies have become increasingly disproportionate over time. Such policies may now be perceived, by many people, to be primarily aimed at “punishing” the unvaccinated as well as the need for a consistent, but overly simplistic, public health message. However, this may further erode trust in science, medicine and public health, especially if people perceive it to be unjustified. Mandating a 3rd booster dose for young boys to attend college or university in America, despite the lack of clinical data showing benefit, and some evidence that the risk of myocarditis adverse effects may outweigh the benefits in this group, and compound with each dose, has been widely discussed in the US media (Makary, 2021; Munro, 2021; Shaheen, 2022; Oster et al. 2022). Scandinavian countries have taken a precautionary and voluntary approach in their recommendations to the vaccination of children, with Sweden authorities stating that “[because of] a low risk for serious disease for kids, we don’t see any clear benefit with vaccinating them.” (Shaheen, 2022). This furthers the perception that current COVID-19 school vaccine mandates (e.g. in California) are disproportionate, especially as safety studies in young children remain relatively sparse (Rudan et al. 2021).

Finally, there is now a strong political incentive to generate data and evidence that shows such passport and mandate policies – which have effectively created two-tier societies and pressured people to be vaccinated – increased vaccination rates and “saved lives.” Will political forces influence the generation of such data and its dissemination in the media?

### ***5.3. Erosion of trust in regulatory oversight***

COVID-19 vaccines were developed in record time to meet an urgent public health need and have been accepted by billions of people; they have been estimated to have prevented millions of deaths, severe hospitalizations and long-term sequelae from SARS-CoV-2 (Meslé et al., 2021). COVID\_19 vaccines have also generated an estimated \$100 billion of profit for pharmaceutical companies, especially Pfizer (Dransfield et al., 2021). Has the acceptance of mandates and passports – and the rhetoric around “anti-vaxxers” – contributed to a cultural shift in norms of transparency and accountability?

Governments have refused to disclose the details of contracts with manufacturers, including for additional booster doses or ‘next-generation’ vaccines (Rizvi, 2021; Transparency International, 2021). Vaccines are



typically not approved until two years of follow-up data is gathered (Rosenbaum, 2021), but given the circumstances of the COVID-19 pandemic, including international harmonization using new agile regulations, the novel mRNA COVID-19 vaccines were placed into emergency use in Europe and North America in late 2020 (Edmonds et al. 2020; Vural et al. 2021). There is concern that, in the fog of crisis, vaccine policy is being driven by vaccine manufacturers, rather than independent scientists (“the science”). For example, in April 2021, Moderna informed their investors that they were expecting a robust “variant booster market” as a source of profits. Similarly, Pfizer CEO Albert Bourla suggested that a fourth dose of vaccine would be necessary, without any clinical trial data or independent evaluation that the benefits of subsequent doses outweigh any risks, nor consideration of the changing clinical dynamics with the Omicron variant (Christensen et. al., 2022; Jassat et. al., 2021). This potentially only adds to distrust over decision-making around vaccine use and ensuing mandates.

The nature of mandates, passports, and segregated restrictions has increased public demands for scientific accountability and transparency – shown to be fundamental to building long-term confidence in vaccination (Goldenberg, 2021; Peterson et al. 2021). This has increased the need to diligently track all safety signals for adverse effects in specific demographics and explore trends in overall population mortality and potential non-specific effects (Benn et al 2020; Aaby et al. 2021). However, a few specific issues have emerged that have created public controversy. The original clinical trial data remain unavailable for independent scientific scrutiny (Doshi et al. 2022); a whistleblower raised important concerns about data integrity and regulatory oversight practices at a contract company helping with Pfizer’s clinical trials in the USA (Thacker, 2021). After a FOIA request by a civil society group (see: <https://phmpt.org>), the US Food and Drug Administration (FDA) requested (but was ultimately denied by a federal judge), 75 years to fully release internal documents and communications related to the regulatory process between FDA and Pfizer. Such efforts have only increased the perception among medical freedom groups, and the general public, that regulatory agencies are “captured” by industry, and would conveniently ignore a higher than usual adverse effect ratio to end the pandemic. Concerns have been raised about the lack of due process in vaccine injury compensation claims for the COVID-19 vaccines (Allen, 2021), which are to be borne by governments and not the pharmaceutical companies. A video of a US congressional roundtable on COVID-19 vaccine adverse events with medically confirmed vaccine injured individuals from the original clinical trials, a US military clinician, and Peter Doshi (senior editor of the BMJ) was permanently removed by YouTube (Stieber, 2021). These practices do not reinforce confidence that authorities are being transparent or applying optimal standards for regulatory safety, efficacy and quality for these novel vaccines – standards which should arguably be more stringent given the legal precedent for mandates and passports.

## 6. Discussion

The adoption of new vaccination status policies has provoked a multilayered global and local backlash, resistance and polarization that threaten to escalate if current policies continue. It is important to emphasize that these policies are not viewed as “incentives” or “nudges” by substantial proportions of populations (de Figueiredo et al. 2021a; Porat 2021), especially in marginalized, underserved, or low COVID-19-risk groups. Denying individuals education, livelihoods, medical care, or social life unless they get vaccinated does not appear to coincide with constitutional and bioethical principles, especially in liberal democracies. While public support appears to have consolidated behind these policies in many countries, we should acknowledge that human rights frameworks were designed to ensure that rights are respected and promoted even during public health emergencies.

While we recognize that vaccination policies can be reconciled with, and are an important tool in, the promotion of the right to health, they need to be proportionate and designed such that they achieve a clearly defined public health goal. Those supporting current restrictions based on vaccination status (Gostin et al. 2021; King et al. 2021) seem to presume that these measures are indeed proportionate; that they are not more restrictive than strictly required; that they are effective in preventing transmission and protecting the health care system from collapse; and that there are no options available other than punitive mandates, passports and segregated restrictions based on vaccine status. As we have shown, we believe that current vaccine policies have failed on these fronts and are no longer fit-for-purpose.

We encourage social and behavioral scientists, bioethicists, epidemiologists, legal scholars, and others to urgently empirically assess the benefits and harms of COVID-19 vaccination policies. Empiric assessments may or may not validate the concerns presented in this paper—but their generation is critical in engagement with politicians, scientists, and organizations to reconsider current COVID-19 policies affecting those who remain unvaccinated. COVID-19 will not be the last public health emergency of international concern and it remains critical that we understand the policy mechanisms and governance inclinations that have so quickly adopted these approaches and provide robust evidence to improve future policy-making in times of crises (Bardosh et al. 2020). If not, the proclivity for mandates, passports, segregated lockdowns, fines, and punishments are likely to become a normative de facto feature for the next public health emergency, especially if they are institutionalized in the International Health Regulations (IHRs).

Are we now experiencing a paradigm-shift into a permanent annual cycle of mandatory COVID-19 vaccines, with ever-changing criteria depending on the latest booster? Will unvaccinated people face exclusions in society for years to come? Will we return to new mandates, and street battles between protesters and police, each time a new variant emerges? Will influenza vaccines and other vaccines now

become mandatory, including for low-risk groups? If unvaccinated people continue to refuse to be vaccinated in countries with strict punishments, what happens next? What is the end-goal and where is the policy off-ramp? Most importantly, what will this do for trust in global immunization programs and other public health measures?

Public health associated bureaucracies and society now risk having to increase coercion to address current and future resistance and, in the process, come to leverage strategies more consistent with policing than public health. Political forces may double-down and use people who have chosen not to vaccinate for myriad reasons as a scapegoating class while continuing to neglect much needed health and social system strengthening. Without appropriate empirical and ethical justification, current COVID-19 vaccine policies are a fundamental reflection of the failure of trust in public health strategy, something that is certainly rooted in decades of neoliberalism, austerity social policies and the growth of social media (Attwell et al. 2021). Future investments in public health capacity, especially health workers who can work in communities to build a relationship of trust, will be essential to engage in positive reform if mandates are not to become the new global strategy for addressing all future epidemics and pandemics. Data transparency, media independence and public debate and scrutiny about COVID-19 vaccine policies will be essential to maintain population trust, help people better understand the risks and benefits of the continued use of current vaccines and to inform research on improvements and future policies.

It is time for policy to regain a focus on non-coercive public health measures, including pro-social language and community leadership for vaccination, especially to protect high-risk groups (McIntyre et al. 2022). There are other options to address the pandemic and it is not too late to return to empowering, transparent, and community-informed policies based on equity and non-discrimination that many public health practitioners have been calling for since the outset. As we have argued above, the scientific case for punitive COVID-19 vaccine policies, given the proprietary nature of our current vaccines, no longer fits with pre-pandemic bioethical norms and public health ethics. Rather, it appears to be fulfilling a collective, psychological and political need for scapegoating and to reinforce a false notion of safety among vaccinated people as they attempt to resume social and economic life (Gostin et al. 2021). Policy makers should reflect on the necessity of enforcing what is essentially a new two-tier, segregated social system and how this will affect different social groups now and into the future – behaviourally, politically and socio-economically – as well as the impact of such policies on the integrity of science and public health itself. As we have attempted to show, it may very well be that the risks and harms of punitive public health strategies far outweigh the benefits.

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