Protection, freedom, stigma: a critical discourse analysis of face masks in the first wave of the COVID-19 pandemic and implications for medical education

Protection, liberté, stigmatisation : une analyse critique du discours sur le port du masque lors de la première vague de la pandémie de COVID-19 et de ses implications pour l’enseignement médical

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Abstract

Background: The COVID-19 pandemic has spotlighted the face mask as an intricate object constructed through the uptake of varied and sometimes competing discourses. We investigated how the concept of face mask was discursively deployed during the first phase of the COVID-19 pandemic. By examining the different discourses surrounding the use of face masks in public domain texts, we comment on important educational opportunities for medical education.

Method: We applied critical discourse methodology to look for key phrases related to face masks that can be linked to specific socio-economic and educational practices. We created an archive of 171 English and Mandarin texts spanning the period of February to July 2020 to explore how discourses in Canada related to discourses of mask use in China, where the pandemic was first observed. We analyzed how the uptake of discourses related to masks was rationalized during the first phase of the pandemic and identified practices/processes that were made possible.

Results: While the face mask was initially constructed as personal protective equipment, it quickly became a discursive object for rights and freedoms, an icon for personal expression of political views and social identities, and a symbol of stigma that reinforced illness, deviance, anonymity, or fear.

Conclusion: Discourses related to face masks have been observed in public and institutional responses to the pandemic in the first wave. Finding from this research reinforce the need for medical schools to incorporate a broader socio-political appreciation of the role of masks in healthcare when training for pandemic responses.

Résumé

Contexte : La pandémie de la COVID-19 a mis en lumière le masque facial comme sujet complexe, construit par des discours variés et parfois contradictoires. Nous avons étudié la manière dont le concept du masque a été déployé discursivement pendant la première phase de la pandémie, notamment en examinant les différents discours entourant son utilisation dans des textes du domaine public, tout en relevant d’importantes perspectives pédagogiques qui en découlent pour l’éducation médicale.


Résultats : Alors qu’au départ, le masque était destiné à servir d’équipement de protection individuelle, il est rapidement devenu un objet discursif lié aux droits et libertés, un écran du droit de la personne d’exprimer ses opinions politiques et son identité sociale, et un symbole de la stigmatisation qui renforçait la maladie, la déviance, l’anonymat ou la peur.

Conclusion : L’analyse des discours relatifs au port du masque observés dans les réponses publiques et institutionnelles à la première vague de la COVID-19 confirme la nécessité pour les facultés de médecine d’intégrer dans l’enseignement de la gestion pandémique une appréciation sociopolitique plus large du rôle du masque en santé.
Introduction

Throughout history and across the globe, face coverings, including masks, have played various roles in people’s lives: to disguise, to protect, to signal values and membership in groups, as a source of profit, and as a commodity of fashion. In 1910, physician Wu Liande developed masks for healthcare professionals (HCPs) and the public to prevent the spread of disease. This first appearance of face masks in the modern medical sense, has evolved to today’s central role of masking as part of donning personal protection equipment (PPE). The use of masks by the broader public for health reasons can be traced back to the 17th century when it became common in Britain to wear smog masks filed with perfume and aromatics. In efforts to contain contagion, face masks were encouraged by health officials in Manchuria around 1910 and were widely adopted during the SARS epidemic in 2002. California in the US, Alberta in Canada, and New South Wales in Australia had mask wearing policies in 1918. Yet despite their use worldwide, the mandated wearing of face masks has had mixed social and political reactions. The Anti-Mask League of San Francisco, for example, protested against wearing facemasks during the 1918 influenza pandemic, on the two premises. First, they argued that there was a lack of scientific evidence that masking would prevent illness; and second, that forcing people to wear the coverings was unconstitutional. Hong Kong residents was deterred from wearing face masks in 2014 so that they would not be perceived as protesters who often wore mask for anonymity during the Umbrella Movement, to avoid political backlash. Most recently, the COVID-19 pandemic has placed the face mask at the eye of the storm as a complicating object constructed through the uptake of varied and sometimes controversial arguments related to the role of face coverings in the prevention and spread of COVID-19.

Indeed, since the beginning of the pandemic, there have been numerous publications on the efficacy of face masks from a disease-preventing perspective, and several scholars have explored meaning making related to coverings. However, the face mask as a discursive object, a symbol of broader moral-ethical arguments related to the role of individuals and governments in pandemic responses, has received little attention. This paper documents the emergence of masks as central to COVID-19 discourses during the first phase of the COVID-19 pandemic. Our analysis considers contemporary assumptions, values, and societal norms reproduced in debates surrounding the use of masks. By examining the discourses surrounding propositions for using or not using face masks in public media sources we also relate the concept of masking to broader socio-political dimensions of government responses to the pandemic.

Method

Study design

Critical discourse analysis (CDA) is a useful methodological approach for understanding how “practices systematically form the objects of which they speak” it allows scholars to capture shifts in meaning associated with the embodiment and normalization of different rationales in the governing of people and their conduct. We studied the face mask as a discursive object in the Foucauldian sense and explored the “inter-related sets of texts and practices of their production dissemination and reception” that make possible the idea of using or not using masks in relation the COVID 19 pandemic. We documented how different moral-ethical ideas about face masks were taken up by different actors to be embodied and enacted or resisted. We also explored how the discourses of face masks were reproduced in media coverage of the pandemic and sought to understand how mask wearing factors into public health and healthcare institutions’ policies and practices related to the pandemic.

Data collection

We built an archive of publicly available texts on face masks. The systematic collection of documents analyzed in this study was a continuous and iterative process. We performed an Internet search by combining text words such as face mask, face coverings, masks, etc., on search engines including Google and Baidu. We limited the archive to texts published during phase one of the Canadian pandemic (February 2020 – July 2020). We applied an upper limit of 200 texts which allowed us to track patterns and trends in public domain discourse related to masks. We included English language and Mandarin texts, to explore how discourses in Canada relate to discourses of mask use in China, where the pandemic was initially observed.

We included texts based on their relation to mask use in the COVID-19 pandemic. The first author (RH) reviewed all texts to ascertain if they fell within the limits described above. We included texts that referenced social, cultural, economic, religious, and political practices associated with masks and facial coverings during the first wave of the pandemic in Canada. RH is a native Mandarin and English
speaker, so collected and analyzed both Mandarin and English texts. If a Mandarin text was perceived to fall within the scope of this project or was somewhat related, we translated the Mandarin text using online translation software, and then discussed with the other reviewer (MM) until consensus was reached about their inclusion and meaning. Consistent with tenets of CDA we searched for representative texts and stopped collecting texts reproducing a particular way of speaking about masks once we noted that this discursive narrative was being reproduced with regularity. Based on these inclusion and exclusion criteria, we included 171 texts in our final archive (available upon request). Demographic information on the texts including date of publication, language, and country of publication is summarized in Table 1 and Table 2.

Table 1. The number of publications based on their country, language, and date of publication. In total, 171 texts are included. Most texts are collected April to May 2020.

<table>
<thead>
<tr>
<th>Publication Country (language)</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Total</th>
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<tr>
<td>Canada (English)</td>
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<td>11</td>
<td>29</td>
<td>3</td>
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<td>Other (English)</td>
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<td>4</td>
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<tr>
<td>Total</td>
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<td>29</td>
<td>56</td>
<td>64</td>
<td>8</td>
<td>7</td>
<td>171</td>
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Table 2. The main media sources of the included texts are The New York Times, CBC, Toronto Star, Sina Corporation, and Xinhua News Agency. The included texts are from a wide range of media platforms.

<table>
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<tr>
<th>Source</th>
<th>Number Of Publications</th>
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<td>The New York Times</td>
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<tr>
<td>Canadian Broadcasting Corporation (CBC)</td>
<td>12</td>
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<tr>
<td>Toronto Star</td>
<td>21</td>
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<tr>
<td>Sina Corporation</td>
<td>10</td>
</tr>
<tr>
<td>Xinhua News Agency</td>
<td>9</td>
</tr>
<tr>
<td>Other</td>
<td>91</td>
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<tr>
<td>Total</td>
<td>171</td>
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Data analysis
During the initial phases of analysis, we tracked the perceived role of the face mask reproduced in the text by noting the speaker and any subject positions they represented (patient, health care provider, advocate etc.), the language, and the purpose of referencing masks in the text. We then compared the perceptions of face masks across different texts to see how their uptake is rationalized and what practices or processes this uptake made possible or impossible.

We developed codes to broadly group social, economic, political, and cultural comments linked to the use of the face masks. Sample codes include medical use/safety, freedom, solidarity, and social norm, etc. We documented codes and analytical memos in Microsoft Excel. RH read and coded all texts without translation, while the second author (MAM) read a subset of the texts and coded these independently. MAM met with RH several times to review the coded results to ensure consensus and discuss discourses related to mask wearing. Throughout the process, both authors collected additional texts. We identified and/or incorporated codes into the existing identified discourses if new documents presented relevant information.

As all texts collected for the archive were publicly available, Research Ethics Board (REB)/ Institutional Review Board (IRB) approval and consent procedures were not needed for this study.

Results
Our analysis showed that mask-wearing during phase one of the pandemic became a polarizing issue, that amplified socio-political divisions historically associated with face-coverings. While initial accounts focused on the mask as an object of personal protective equipment, masks quickly became a symbol for personal expression, much like a patterned band-aid. Mask wearing during the pandemic featured strongly in socio-political demonstrations where protestors wrote messages on their face mask. The act of covering one’s mouth, became a powerful vehicle of expression. The discourse of wearing a face mask evolved along with the changing social norms as fashion, stigma, and political views evolved throughout the COVID-19 pandemic.

We summarize the findings of mask use in three sections (Figure 1): the face mask as PPE, the face mask as a symbol of rights and freedoms, and the face mask as a symbol of stigma. Within the broad category of stigma, the face mask is a discursive object that represents illness, deviance, anonymity of the face, and spreading fear of the pandemic. Each section depicts the mask as a discursive object in the health, political, and social fields. The different discourses that have constructed the conditions of acceptable and unacceptable mask use during the pandemic are co-existent. Thus, there are overlaps in the way these discourses find expression.
Figure 1. Discourses of Mask Wearing during Phase 1 of the COVID-19 Pandemic. The discourses are divided into the health, social, and political arenas.

Figure 2. Lowe’s announcing that large shipments of PPE are donated to the HCP. Large corporations such as Lowe’s, Home Depot, and Target donated PPE to the hospitals and first responders.31

I. The face mask as PPE: face mask as a scarce product. Is not wearing mask a risk to one’s health? (Table 3, Figure 2)

The face mask as PPE is featured as an important discursive object from the onset of the pandemic. Early press accounts documented mask shortages with language that communicated the importance of the production and distribution of face masks in the health economy. The face mask as a commercial product that is highly sought after during the COVID-19 pandemic established symbolic and material conditions for judging public health preparation and governmental success in responding to the health care emergency.

The gap between supply and demand varied largely by country.25,26 China is the world’s largest producer and exporter of face masks.27 In 2019, China produced 5 billion masks, accounting for 50% of the global total volume.27,28 Other countries frantically attempted to secure masks amid fierce competition and fraud.29 When Zambia tried to place an order for N95 masks, brokers tried to sell them for five to ten times more than the usual cost.26 In another example, of all the potential mask suppliers with whom a potential buyer had come into contact, “less than 20 percent were real.”30

In media portrayals, sellers were depicted as continuing business as usual, relating to medical supplies as simply another hot product to flip for a profit. However, the construction of the race to stockpile face masks highlighted several ethical questions and some mask production companies resisted this discourse. In one text 3M Company warned, “there are ‘humanitarian implications for face mask shortages.’”26 For example, Home Depot stated it had “ordered all 2,300 of its stores in North America to stop sales of N95 masks to try to free them up for those on the front lines.”31 On a global level, the discourse of face mask as PPE and the purchasing trends that are linked to this discourse made visible how countries with less purchasing powers were at a disadvantage at the negotiation table compared to much wealthier countries. Most importantly it drew attention to a trend that would only exacerbate existing global health disparities.26

The face mask as PPE featured as a scarce commodity also made visible the health disparity that exists on a local level. The scarcity of masks and PPE was constructed as a danger to unprotected HCPs. The call to duty and other altruistic moral positions did not constitute rationales for minimizing the “rights” of healthcare workers to be “safe” and “protected.”32,33 Indeed, discursively, protected healthcare workers were equated with the better protected public.34,35

Face mask as PPE – and medical risk evaluation
A social hierarchy emerged related to the supply of face masks rationalized on models evaluating risk from COVID infection. A dominant argument emerged calling for HCPs who are in direct contact with COVID-19 patients should be offered the most protection.
The discourse of risk evaluation existed within the HCP community as well. We noted practices such as the allocation of PPE based on the “spectrum of risk” of infection with COVID-19 according to various risk evaluation models. For instance, the Healthcare Worker Personal Protection Decision Framework document by McMaster University stipulated conditions under which masks should be worn. Similar protocols were adopted in other medical institutions. Practices such as rationing the use of masks and using them in high-risk areas emerged.

However, conflicts arose in contexts where different views on what constituted “risk” were present. Initially, Canada’s Chief Public Health Officer, Dr. Teresa Tam, stated that “putting a mask on an asymptomatic person is not beneficial,” but then one week later, the recommendation reversed to “wearing a non-medical mask, even if you have no symptoms, is an additional measure that you can take to protect others around you.” In a time of crisis, the public’s faith in their government’s capacity to manage the crisis is fundamental for the government to institute effective policies. When institutions publicly acknowledge their concern that recommending masks for general use would deplete the supply, the public may perceive that their safety is no longer the priority. Not surprisingly, the contradicting policies on face mask use led to confusion and lowered credibility of public institutions. “Governments should not have downplayed the importance of face masks as a protective measure for the public, because it will make them seem very foolish when they change their stance,” stated Leiyu Shi, a researcher on comparative health systems and health policy at Johns Hopkins University.

A direct implication of the discursive relations supporting the application of risk to the use of masks included sending health care students home. To provide safer and thus better patient care during the pandemic, medical education in the clinical setting took a back seat. The pause in clerkship programs across North America was partially due to efforts to conserve PPE for practicing physicians. The Association of American Medical Colleges’ statement on new guidelines for medical schools during the COVID-19 outbreak states that the pause “will help with current concerns about the availability of personal protective equipment.” As Isaac J. Kirstein, Dean at the medical school’s Cleveland campus states, “It amazes me how much of our education was predicated by PPE availability. It continues to be a primary driver of what we are able to do.”

II. The political mask: the face mask as a symbol of rights and freedoms. Is it a risk to one’s freedom? (Table 3, Figure 3)

The discourse of mask as a symbol of rights and freedoms was constructed in opposition to the idea perpetuated with the circulation of the discourse of mask as PPE. The later discourse was deployed in efforts to limit the virus’ spread by appealing to the individual decisions of millions to comply with public health directives to wear masks in public. As bioethicist Nancy Kass, deputy director for public health of Johns Hopkins University’s Berman Institute stated, “masks can be a form of virtue-signaling. By wearing a mask, people show their concern for keeping other people safe.” Habitual mask wearing is constructed as a civic duty in the discourse of face mask, both to protect others and to take responsibility for oneself, especially seen in Eastern Asia cultures, such as China and Japan. An article by the South China Morning Post acknowledged that “wearing face masks is often seen as a collective responsibility to reduce disease transmission and can symbolise solidarity.”

The biggest argument used against the rationale for wearing a mask as a form of social responsibility is the idea that mandating mask wearing curtailed the fundamental rights and freedoms of individuals. Texts that reproduced this discourse referred to the mask as a visual presentation of the political debate between those willing to follow government’s recommendations versus those who did not because it violated their personal freedom. The unmasked face was represented as an identity
The act of not wearing a mask became a rebellion against what was regarded as an opportunistic attempt to curtail hard won personal rights and freedoms. The discourse of masks as a political object was particularly prominent in the United States, where protection of personal liberties from government incursion has a long history. These historical values were used to rationalize arguments against public health limitations of people's movement, business operations and travel. The face mask was equated with airport security, “Nobody is forcing anyone to fly on a plane but for those who want to fly, they must go through security.” Wearing masks in public spaces, were interpreted as optional since “wearing a face mask should be a personal choice.” When a customer was asked to put on mask, she refused because “we are in America here, land of the free”. Although less prominent, similar discourses on individual freedom are found in the Canadian context. “I’m all about choice”, a Canadian told CBC News. Alberta Premier Jason Kenney states that “[the government wants] to trust people to exercise personal responsibility rather than policing everybody in a heavy-handed way.”

III. Masking and stigma: is mask-wearing a risk to social identity? (Table 3, Figure 4-6)

The face mask is associated with various types of social uses around the world some of which carry considerable stigma. Below we contrast different ways we identified that mask wearing was linked to social identities drawing out both positive and negative implications for the wearer.

1. Masking as a symbol of illness (Figure 4)

The U.S. Centers for Disease Control and Prevention has almost never advised healthy people to wear masks in public to prevent respiratory diseases. As such, people tend to only wear masks when they are sick, so the mask has become a discursive object closely linked to disease. In contrast, in China and East Asia, wearing a mask is associated with positive messages. East Asia has experienced contagion before. Mask wearing is seen as safer and more considerate to those who are vulnerable. From air pollution to the SARS pandemic in 2003, the respirator never really faded from significance in China. Rather than associate mask with sickness, wearing a face mask was seen as socially responsible behaviour and a representation of health in these regions of the world. The face mask as a symbol of illness in the North American context provoked and intensified xenophobia during the pandemic.

China was the first country to experience the massive outbreak of COVID-19 and started mandatory mask wearing. Mask wearing, perceived as a behavior consistent with the Chinese culture and political reality, caused a backlash of rejection from Western countries and peoples. The ideology clash transmitted from policy level down to the community, leading to stigma associated with wearing or not wearing a mask. Globe and Mail interviewed a British Columbia resident Jong Yun Park, who stated that “if you wear a mask [in Canada], people will [consider] you as another patient, I just tried to adapt to Canadian culture more when I am here. But back at home [in Korea]...if you don’t wear it, then people would be like ‘what a freak.’”

2. Masking as a symbol of deviance

In our archive, we noted accounts of people of color experiencing exacerbated racism associated with mask wearing. Some have expressed fear of covering their faces with a mask, lest this be associated with violence and criminality. Others attributed the exacerbation of racialization to scapegoating. “If racial profiling occurs during times of normalcy, one can only hypothesize that wearing a mask while black during this most trying of times can occur,” stated Chad Dion Lassiter, executive director of the Pennsylvania Human Relations Commission.
3. Masking to be hidden or to be visible (Figure 5)

The face and by extension face coverings, have always been constructed with both denotative and connotative meanings related to social communication. In North America for example, masks were constructed as barriers to communication during the pandemic because they jeopardized people’s ability to judge facial expressions. In contrast, the anonymity offered by face masks was presented as helping people to keep desired social distances in East Asian cultures, where it is perceived as polite and modest not to show obvious emotions. Face masks were used to send messages and carry messages throughout the pandemic. A dichotomy of being hidden versus being visible grew out of the face mask as stigma discourse. The common place use of masks in some parts of the world turned it quickly into a popular culture item. For example, Korean and Chinese celebrities often lead public fashion discussions on the face masks they wear. Amidst the pandemic and with the broad adoption of masking around the world, face masks emerged as a new genre of fashion accessory, and an expression of personal style, and were sold by all clothing companies. The U.S.-based online marketplace Etsy says its total sales doubled in April 2020, mostly from face mask sales. Masks were also turned into an object for political communication as protestors printed messages on their masks to march in response to George Floyd’s death.

4. Masking as a source of fear (Figure 6)

Wearing or not wearing a mask was complicated by accounts that linked mask-wearing to fear. Fear was perceived to have dual function. On one hand, fear could be a lever in public health initiatives used to urge people to wear face masks for self-protection. People were urged to wear masks so to prevent contagion, to alleviate fears of contracting the virus, especially in environments carrying a higher risk of exposure such as crowded elevators. The president of the Association for Canadian Studies, Jack Jedwab, stated that the poll “indicated that fear and anxiety are what’s prompting more people in Canada to wear masks.” On the other hand, not wearing a mask was also linked to fear. Jason Seidel, the director of the Colorado Center for Clinical Excellence and a practicing psychologist, suggested that people may not wear a mask because of fear, “in wearing a mask they would have to fully acknowledge the pandemic.” The act of putting on a mask or not putting on a mask can thus both prime feelings of fear.

Discussion

Implications for medical education

The three main areas of focus synthesized based on the study results are tightly linked to medical education. As face masks continue to serve as a PPE, it is a natural discursive object in the medical field and a necessary part of health professional education. In addition to the appropriate donning and doffing of masks as PPE, and protocols for different mask uses across the hospital or in the clinic, the political and ethical dimensions of deciding who should wear a mask and in what context must also be
discussed in medical schools. The pandemic brought to the fore additional health professional education concerns that emerged through the promotion of mask wearing as an epistemic debate. Despite the controversial scientific research on the effectiveness of face mask in disease prevention, some have argued that based on the precautionary principle, we do not need to prevent every transmission of every droplet or every viral particle.\textsuperscript{75} In addition, the face mask can serve as an important component of wider community resilience strategies.\textsuperscript{76} Those who reported wearing masks in public places were also more likely to report more hand-washing and social distancing.\textsuperscript{77,78}

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<tr>
<th>Table 3. Quotes and associated figures reflecting face mask as a discursive object for rights and freedoms, an icon for personal expression of political views and social identities, and a symbol of stigma that reinforced illness, deviance, anonymity, or fear.</th>
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<tr>
<td><strong>The face mask as PPE: face mask as a scarce product, and the ethical considerations in its distribution</strong></td>
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<td><strong>Scarcity</strong></td>
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<td><strong>Masking and Stigma: Is mask-wearing a risk to social identity?</strong></td>
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<td><strong>1. Masking as a Symbol of Illness</strong></td>
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<td><strong>3. Masking to be hidden or to be visible</strong></td>
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<td><strong>4. Masking as a Source of Fear</strong></td>
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It was clear from the start of the pandemic that power dynamics within the healthcare field created new ethical and moral dilemmas for healthcare providers. The Ontario Nurses’ Association filed a court order, alleging four Ontario long-term care homes of restricting or denying the use of PPE in their facilities.\textsuperscript{79} The discourse of the distribution and restriction on face mask use is a reminder of the power struggles within healthcare. These important topics must be integrated in health professional education curricula to prepare trainees to function in the current reality. In addition, the decision to send home health professional trainees needs to be considered in future training models. Knowing that they were sent away from the clinical environment partially for cost-benefit reasons, medical students needed to reconcile the potentially new awareness of their place in the medical community. Students must learn how to balance the status of being a learner versus a future HCP who can valuably contribute to the health crisis and during subsequent phases of the COVID pandemic.

The discourse of face mask usage enforcement has brought the centuries-long political debate of the individual versus the state to the forefront. Arguments appeared urging the public to sacrifice personal freedoms to enjoy the benefits afforded by the collective protection from the contagion. Wearing a mask was equated with security checks when flying, vaccine requirements for children in schools, the mandated wearing of seatbelts, and prohibitions on drunk driving.\textsuperscript{80} The temporary limitation of freedom was presented as necessary and leading to more prolonged freedom later. The concept of individual freedom is often referenced as a distinguishing characteristic of Western societies, setting them apart from societies that are identified as having collectivist socio-cultural and political make-up. Such East/West comparisons are indicative of Orientalism,\textsuperscript{82} and can lead to oversimplifications and negative stereotyping of Eastern civilizations. As an example, Frédéric Keck, a French anthropologist specializing in pandemics, notes “mask-wearing was seen through an individual’s perspective [in the west], i.e. to protect oneself from the virus. However, in collectivist Asian societies, one wears a mask because if all individuals wear masks, the society will be protected.”\textsuperscript{81} The west-east dichotomy of individualism versus collectivism warrants more nuanced and extensive discussion\textsuperscript{8} than this paper allows. Various factors such as consistent guidance from health officials on masking,\textsuperscript{82} and less stigma associated with anonymity have also contributed to different mask practices in Asia compared to North America. These reasons do not stem from collectivist meaning making alone.\textsuperscript{6} Conversely, there were instances, as we have argued, where protection of the public has reinforced public mask wearing in North America. A study by Courtney et al.\textsuperscript{83} at the Unites States showed that collectivist mindset, versus individualistic, would facilitate health behaviours during COVID pandemic when the awareness of mortality is activated in the general population. However, as we have described above, both wearing and not wearing a mask has been associated with generalized fear and anxiety. In addition, we have not distinguished a particular directionality of the discourses related to mask wearing, perhaps because of how quickly the spread of COVID-19 was designated a pandemic. During the writing of this paper, we observed the role of the mask in supporting pandemic responses continuously evolving. As a daily object, the face mask plays a role in “maintaining an overall feeling of being reassured in Japanese society,” stated Yukiko Iida, an expert on masks at the Environmental Control Center in Tokyo.\textsuperscript{84} Jean-François Mattéï, a former health minister and the current president of France’s National Academy of Medicine, believes that mask is likely to “become the norm in Western countries after the end of the pandemic.”\textsuperscript{85} It is important to appreciate how different societies might respond differently to global instructions during a pandemic. We observed this divergence and fluidity with the discourse of face mask wearing, which might help guide future public health crisis response.

Despite the prevalence of discourse that related mask-wearing to debates of rights and freedoms, very few people would equate wearing a surgical mask inside the operating room as an infringement on the physician’s freedom. The discourse of rights and freedoms related to mask-wearing has not extended to the HCPs. On the contrary, the media has been reporting on chronic shortage of face masks for HCPs as a dire, non-resolving problem from the beginning of the pandemic,\textsuperscript{34,33,35} to months after the initial wave.\textsuperscript{84,85} To the public, these discourses seem to suggest that the risk to individual rights and freedom is subordinate to the risk to life. Initiatives to raise PPE for HCPs have been started by medical students across Canada.\textsuperscript{86,87,88}

This universal value of life over freedom has permeated into medical education. During the donning and doffing sessions for medical students,\textsuperscript{89} the emphasis is exclusively on personal safety. From the medical educators’ point of view, it seems that the risk to the students’ health and wellbeing, like that of the HCP, is seen as the priority rather than protecting their right to choose and freedom to refuse
to wear a mask. This is a curious value elucidated by the contrasting discourse surrounding face masks in the public where mask wearing in North America was initially met with resistance. Its exploration should be a standing topic in health professions education as it holds longstanding implications for health behaviours and practices.

The face mask has appeared in several texts as a form of personal expression, as social deviance or a source of stigma in the public and in the medical education arena. The Royal College of Physicians and Surgeons of Canada states “respect for diversity” as a key value in section 1.1 of their CanMed framework for professionals. Yet there are reported stories of medical students barred from the operating room because of wearing head and face coverings. Mask wearing opens a window for closer examination of the existing stigma in medical education and their impact on the broader healthcare field. The discussion of stigma permeates the discourse of face mask, from the differing risk evaluation causing power struggles, to the diverging political views and cultural norms. Other research has also affirmed that the face mask took on political significance during COVID pandemic as witnessed by interactions on different social media platforms such as Twitter and YouTube. While our current archive did not permit us to go into further depth, the topic of stigma deserves deep discussions and future research. Our research identified both protective discourses associated with masking wearing (i.e., masking decreases health risks) and non-protective discourses (i.e. masking displays deviance). We also identified ways in which popular culture interfered or reinforced mask wearing during the pandemic, an area that also deserves additional attention.

Given the shifts association with mask wearing in the public, the implications of wearing masks in the therapeutic relationships warrants further exploration and research. Facial communication has been regarded as helpful in the patient-doctor relationship. Many medical schools have posted information on how to wear a face mask correctly, and there has been research on the effectiveness of PPE teaching; however, we were not able to identify any discussion on the implications of wearing a face mask in clinical environments. Greater efforts in medical education are necessary to improve perception and interpretation of patients’ nonverbal communication.

Conclusions

COVID-19 has ignited public discussion of illness, health, and has drawn renewed attention to face masks. Its various roles and symbolism in healthcare settings and the public domain shape our personal and professional lives. While the face mask as a discourse appears as an object of PPE at the outset of the COVID 19 pandemic, it quickly became a symbol for personal expression of political views, and a symbol of stigma. As the COVID-19 pandemic progressed and official recommendations on masks have become more consistent, wearing a mask evolved into a social habit. Discursively, as the threat of lingering virus and an exacerbated second wave set in, routine mask wearing in a reopening society was presented as a way to ease anxiety.

This paper has overviewed several discourses related to face masks that arose during the COVID-19 pandemic. As we have argued, none of these discourses independently provides an overarching narrative with which to bridge the divisions and gaps we see in society related to mask wearing. Contrasting the differences and similarities across the three dominant discourses provides an entry point to the political values, cultural norms, economic gains, and moral dilemmas at play during the pandemic. Medical education will be well served to incorporate an appreciation of how mask wearing discourses are contributing to positive or negative health behaviours. In addition, medical education plays can play a crucial role in reinforcing the importance of an equity seeking approach to pandemic responses. The mask wearing behaviors of vulnerable populations illustrates the intersection between social determinants of health, stigma, and health consequences for individuals and communities. For the visible minority, CNN has reported that people of color may be reluctant to wear masks because they “have expressed fears that homemade masks could exacerbate racial profiling.” The discourse surrounding the practice of wearing face masks can serve as an excellent starting point in medical education on the effect of social determinants of health on healthcare access and health outcomes.

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