

Psychology of wearing face masks to prevent transition of COVID-19

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During global pandemic outbreak of COVID-19, wearing face masks has become a focus of debate.¹ In this paper, we addressed the cunning nature of COVID-19 and called for the global usage of face masks, especially for people living in low-income and middle-income countries/regions with high population density as well as high-income countries/regions with no culture of wearing face masks.

CUNNING NATURE OF COVID-19

Are face masks useful for preventing COVID-19? Recent research has shown that droplets from coughs and sneezes could be projected to 6–8 meters away,² even further than the range of ‘social distance’.³ Preponderance of evidence has indicated that mask wearing reduced the transmission of infected droplets in both laboratory and clinical contexts, and public mask wearing played the most effective role in stopping the spread of the virus.^{4,5} Thus, more countries such as the USA and the UK are reassessing their public health recommendations on wearing face masks.

COVID-19 is a ‘cunning disease’.⁶ First, due to its high level of contagiousness, many virus carriers are spreading the virus for several days before showing any observable symptoms.⁷ It is hard to identify those patients who look healthy but are actually highly contagious.

Second, COVID-19 is hidden and difficult to detect. Recent research pinpointed the most contagious period of time is the first 5 days when very mild symptoms are shown,⁸ which is different from patients with severe acute respiratory syndrome who reach peak RNA levels in 7–10 days after they indicate symptoms.

Lastly, it is also dangerous and lethal. About 20% of the identified cases will develop into severe cases, and the mortality may vary between 3% and 4%, depending on the healthcare system and location.⁹

In sum, COVID-19 is a more complicated virus due to its nature of presymptomatic infection, mild symptoms, long incubation

period, and high mortality.¹⁰ As a result, it is extremely important to wear face masks in fighting this cunning virus.¹¹ The earlier the prevention, the better the results, as the more hidden the symptoms or there are no symptoms, the more dangerous it could become.

FACE MASKS IN LOW-ECONOMY COUNTRIES

In some countries or regions like India and African countries based on the informal economy, people live in low-income or middle-income neighbourhoods. The prevalence of poor housing conditions with high density is distributed disproportionately in the world, according to the WHO Housing and Health Guidelines.¹² Social distancing is considered as a luxurious concept due to the high level of gathering in the community. The WHO provided detailed guidelines regarding the importance of wearing masks in situations/settings with high population density, limited facilities for quarantine, no capacity to trace contacts or perform appropriate testing and care for suspected cases.¹³ Therefore, an effective way to prevent oneself from catching the virus is to wear masks.

Even home-made cloth masks can be effective to some extent. Home-made cloth masks have at least minor protection against large respiratory droplets. Wearing home-made cloth masks is critical for a community due to the risk of contacting with a symptomatic COVID-19 cases.¹⁴ Therefore, the WHO’s guidance recommend that healthy people use home-made masks to protect the community,¹⁵ and the guidelines issued by the Centers for Disease Control and Prevention also regarded home-made masks as a ‘last resort’.¹⁶ Data from both observational studies⁴ and randomized controlled trials¹⁷ similarly demonstrated the effectiveness of wearing facial masks in community settings, including low-income and middle-income countries.¹⁸

FACE MASKS, CULTURAL BIAS AND STIGMA

In the epidemic society, it is important to respect each other. Previous cultural bias

towards those who are wearing face masks (eg, Asian people) should not happen.¹⁹ The COVID-19 is the common enemy to human beings. People wearing face masks should not be discriminated but rather should be considered as having responsible behaviour to protect themselves as well as others.

Wearing face masks has been associated with the stigma of being sick,²⁰ and normally healthy people do not need to wear face masks to prevent diseases. This stigma might need to be changed due to the threat of COVID-19. Recent data showed a high prevalence of mass masking was feasible during the aggressive outbreak of COVID-19 in those countries without pre-existing culture of mask wearing.¹⁸ Mental health professionals should also play an important role in dealing with stigma.²¹

KNOWLEDGE SHARING AND EFFECTIVE PROTECTION

Researchers recommended a rational face masks usage across countries at different risk levels.²² The WHO is already issuing guidance on face masks, which have guided many countries to take effective measures to encourage people to wear masks in fighting against COVID-19.¹¹ For example, together with a few European countries, Austria started to make wearing face masks compulsory.²³ The Japanese government posted free face masks to households. Wearing masks will work with other social distancing measures to curb the global epidemic of COVID-19. This strategy is especially important for the millions of people living in communities with poor sanitation and lack of access to clean water. Our overall success towards COVID-19 depends on the conditions of the communities with the least effective epidemic prevention.

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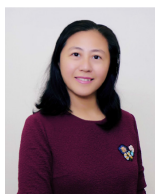
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