

Are you wearing gloves or a mask to the shops? You might be doing it wrong

May 12 2020, by Maximilian De Courten, Barbora De Courten and Vasso Apostolopoulos



Credit: AI-generated image ([disclaimer](#))

Many people in the community are wearing face masks and gloves in an attempt to protect themselves against the coronavirus.

They might put on these items to go to the shops, or perhaps when taking

a walk through the neighbourhood.

The evidence on whether these measures will actually protect against [coronavirus](#) is mixed and largely inconclusive.

But you're even less likely to get protection if you don't take care when putting on these items, while you're wearing them, and when you take them off.

Are masks recommended?

In Australia, the [Department of Health](#) states you don't need to wear a mask if you're well.

People self-isolating with symptoms suspected to be COVID-19 are advised to wear a surgical face mask when other members of their household are in the same room.

This is in line with [recommendations from other countries](#) and the [World Health Organisation](#).

Some countries, particularly those with higher rates of COVID-19 than Australia, provide [different advice](#). The Centers for Disease Control (CDC) in the United States recommend the use of [masks](#), or [cloth face coverings](#), more widely.

In [Hong Kong](#), face masks are obligatory for everyone taking public transport.

So do masks protect against COVID-19?

We should first separate the [two distinct functions](#) of a face mask:

protecting others from being infected by a wearer, and protecting the wearer from infection.

SARS-CoV-2, the coronavirus that causes COVID-19, is transmitted via droplets that fly out of our mouths or nose: most commonly when we cough or sneeze, but also when we speak.

Most of these particles range in size [between 0.3-10 micrometers](#). They can be directly inhaled or land on a surface where we pick them up on our hands before touching our face.

The current thinking is face masks worn by an infected person can protect the people around them by filtering at least some of these particles, particularly [larger ones](#). This constitutes the former of the two functions, and is known as "source control."

Regarding the latter—protecting the wearer from infection—there's some research on this, but not for COVID-19 specifically.

Evidence has [shown](#) the use of masks among health-care workers can reduce their infection with various other coronaviruses—so masks are an important element of PPE.

But for people in the community who appear to be healthy, we need more research before we can draw firm conclusions on the benefits of masks.

Are you doing it wrong?

Whatever the state of the science, some people appear to be doing things that could defeat the purpose of wearing a mask. Examples include pulling the mask under their chin for a "breather" or to make a [phone call](#); or touching the mask while wearing it.

Through these actions, you can transfer the virus directly from your hands or your [mobile phone](#) to your face, increasing your risk of being infected.

The WHO has published some [dos and don'ts](#) for wearing [face masks](#), summarized here:

How to get the best protection from a face mask:

- 1 Wash your hands with soap and water before you put on the mask and after removing your mask.



- 2 If your mask has ties, secure the bottom ties first with a bow around the nape of your neck. Then pull the mask by the upper ties over your mouth and chin and secure it around your head.



- 3 When removing: start removing the mask from behind (do not touch the front of the mask)



- 4 Avoid touching your mask when using it and assume there could be virus on both sides of the mask. If you do touch it, wash your hands immediately afterwards.



- 5 Wash your re-usable mask every time you remove it (60°C in the washing machine) or put the mask somewhere isolated until it can be washed.



- 6 Make sure you wear a clean mask each time you need to put one on.

Credit: The Conversation

What about gloves?

Gloves prevent the [transmission of germs](#) if used properly, and are an integral part of PPE for health-care workers.

If you're suspected or confirmed to have COVID-19 and you're isolating at home, [Australian guidelines](#) recommend anyone wanting to clean your room should put on a mask and gloves before entering.

However, gloves have not been recommended as a precautionary measure against COVID-19 for the average citizen. That's largely because of the evidence we have about how the disease is, and isn't, transmitted.

The virus is not absorbed through skin, so you can't contract COVID-19 through touch alone. To acquire coronavirus through touch, you would have to touch a contaminated surface and then touch your face.

Although it is possible, scientists believe a much smaller proportion of infections happen this way, as compared to when an uninfected person inhales virus-carrying droplets emitted directly from an infected person.

In the US where there are much higher rates of COVID-19 than in Australia, the CDC also suggests the use of gloves only in two coronavirus-related scenarios:

- if you're [cleaning and disinfecting](#) your home where a member of

the household is suspected or confirmed to have COVID-19

- if you're a [health-care worker treating someone](#) who is a suspected or confirmed COVID-19 patient.

Wear them right

While there's no evidence to suggest wearing gloves in the community will protect you, if you do choose to wear them, there are some things you should consider.

Importantly, if you still touch your face with your gloved hands—or even touch your mobile phone—this renders the gloves useless.

And if you're not careful, you can also contaminate your hands when you put on or take off gloves.

So follow [these steps](#) when removing [gloves](#) to reduce the risk of contaminating your hands in the process.

This article is republished from [The Conversation](#) under a Creative Commons license. Read the [original article](#).

Provided by The Conversation

Citation: Are you wearing gloves or a mask to the shops? You might be doing it wrong (2020, May 12) retrieved 26 April 2024 from <https://medicalxpress.com/news/2020-05-gloves-mask-wrong.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.