

Coronavirus: Why we should stay 1.5 meters apart from each other

March 19 2020, by Philip Russo



Credit: Shutterstock

The Australian government is [recommending](#) we stay 1.5 meters away from each other, one of several [social distancing](#) moves designed to limit spread of the coronavirus.

Why 1.5 meters? Is this our best, practical estimate? Or is there any solid scientific evidence to back it?

The coronavirus is spread from person to person when someone with the virus coughs or sneezes. So people in close contact are at high risk.

Respiratory droplets can land in your mouth or nose. Alternatively, droplets could land on your face, and the next time you touch your face, and then rub your eye, you could infect yourself.

We know the [influenza virus](#) is spread in a similar way. One study [shows](#) when healthcare workers are within 1.8 meters of patients with [influenza](#), their risk of being infected is increased.

A quick search online will find lots of videos showing droplet expulsion from a sneeze. But there is a lack of good evidence to know for sure how far infectious droplets travel, and what is a "safe" distance.

Research is often [laboratory based](#) and doesn't automatically translate to real-life situations. Then there are the variables about the number of infectious particles; their airborne survival; the humidity; and the speed of expulsion of the "[turbulent buoyant clouds](#)" (tornadoes of germs).

The US Centers for Disease Control and Prevention advises flu can spread up to [6 feet](#) (1.8 meters). The key message is, the closer you are, the bigger the spray.

Similar research is yet to be done on the coronavirus. But the similarity with the way influenza is spread means we can apply what we know about influenza to the [coronavirus](#).

What do others recommend?

The recommendation of 1.5 meters is not only based on our knowledge of influenza, it is also a practical distance that allows us to go about our daily lives.

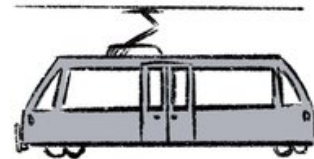
5 tips to keep your social distance

- 1 In a supermarket queue, take a step or two back from the person in front of you.



- 2 Keep chatting to people, but do so from 1.5 metres away.

- 3 On public transport, try to avoid crowds, and keep two seats between you and others.



- 4 In taxis or ride shares, sit in the back seat.

- 5 When jogging, walking or cycling in the park, avoid doing so in large groups and keep distance between you and the others.



Credit: Wes Mountain/The Conversation, CC BY-ND

Obviously it's not a precise measurement, nor is it absolutely guaranteed to prevent spread. But that approximate distance is better than no distance.

The lack of scientific rigour behind these recommendations is borne out

in the varied advice from around the world.

The UK's [National Health Service](#) recommends people with symptoms stay at least 2 meters away from others.

The US [Centers for Disease Control and Prevention](#) recommends everybody should "put distance between yourself and other people".

Finally, the [World Health Organisation](#) advises to keep at least 1 meter between you and anyone coughing and sneezing.

So you get the general idea. Don't get close.

What does this mean in practical terms?

So, how do we keep 1.5 meters apart, short of carrying around a tape measure?

It's about two arms lengths, but don't stress about it. A little bit less is OK, a little bit more is good.

In a nutshell

Right now, avoiding close contact with others is important, and keeping 1.5 meters away from each other is not an exact science. It's about keeping some sensible and practical distance between you and others.

It is just one of the strategies we can easily use to help slow down the spread of this virus. And please, wash your hands, and if you have symptoms, stay at home and seek medical advice.

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

Provided by The Conversation

Citation: Coronavirus: Why we should stay 1.5 meters apart from each other (2020, March 19)
retrieved 21 July 2023 from <https://medicalxpress.com/news/2020-03-coronavirus-meters.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.