

A Physician's Response to Asymptomatic COVID

Blood tests that check for exposure to the coronavirus are starting to come online, and preliminary findings suggest that many people have been infected without knowing it. Even people who do eventually experience the common symptoms of COVID-19 don't start coughing and spiking fevers the moment they're infected.

[William Petri is a professor of medicine and microbiology at the University of Virginia who specializes in infectious diseases. Here, he runs through what's known and what isn't about asymptomatic cases of COVID-19.](#)

How Common Is It for People to Contract and Fight Off Viruses Without Knowing It?

In general, having an infection without any symptoms is common. Perhaps the most infamous example was [Typhoid Mary](#), who spread typhoid fever to other people without having any symptoms herself in the early 1900s.

My colleagues and I have found that many infections are fought off by the body without the person even knowing it. For example, when we carefully followed children for infection by the parasite *Cryptosporidia*, one of the major causes of diarrhea, [almost half of those with infections showed no symptoms at all.](#)

In the case of the flu, estimates are that [anywhere from 5 percent to 25 percent of infections](#) occur with no symptoms.

For the most part, symptoms are actually a side effect of

fighting off an infection. It takes a little time for the immune system to rally that defense, so some cases are more aptly considered [presymptomatic](#) rather than asymptomatic.

How Can Someone Spread Coronavirus If They Aren't Coughing and Sneezing?

Everyone is on guard against the [droplets that spray out](#) from a coronavirus patient's cough or sneeze. They're a big reason public health officials have suggested everyone should wear masks.

But the virus also spreads through [normal exhalations](#) that can carry tiny droplets containing the virus. A regular breath may spread the virus several feet or more.

[Spread could also come from fomites](#) – surfaces, such as a doorknob or a grocery cart handle, that are contaminated with the coronavirus by an infected person's touch.

What's Known About How Contagious an Asymptomatic Person Might Be?

No matter what, if you've been exposed to someone with COVID-19, you should self-quarantine for the [entire 14-day incubation period](#). Even if you feel fine, you're still at risk of spreading the coronavirus to others.

Most recently it has been shown that high levels of the virus are present in respiratory secretions during the ["presymptomatic" period that can last days to more than a week](#) prior to the fever and cough characteristic of COVID-19. This ability of the virus to be transmitted by people without symptoms is a major reason for the pandemic.

After an Asymptomatic Infection, Would Someone Still Have Antibodies Against SARS-CoV-2 in Their Blood?

Most people are developing antibodies after recovery from COVID-19, likely even those without symptoms. It is a reasonable assumption, from what scientists know about other coronaviruses, that those antibodies will offer some measure of protection from reinfection. [But nothing is known for sure yet.](#)

Recent serosurveys in New York City that check people's blood for antibodies against SARS-CoV-2 indicate that as many as [one in five residents](#) may have been previously infected with COVID-19. Their immune systems had fought off the coronavirus, whether they'd known they were infected or not – and many apparently didn't.

How Widespread Is Asymptomatic COVID-19 Infection?

No one knows for sure, and for the moment lots of the evidence is anecdotal.

For a small example, [consider the nursing home in Washington](#) where many residents became infected. Twenty-three tested positive. Ten of them were already sick. Ten more eventually developed symptoms. But three people who tested positive never came down with the illness.

When doctors tested 397 people staying at a homeless shelter in Boston, [36 percent came up positive for COVID-19](#) – and none of them had complained of any symptoms.

In the case of Japanese citizens evacuated from Wuhan, China and tested for COVID-19, fully [30 percent of those infected](#)

[were asymptomatic.](#)

An Italian pre-print study that has not yet been peer-reviewed found that [43 percent of people who tested positive for COVID-19](#) showed no symptoms. Of concern: The researchers found no difference in how potentially contagious those with and without symptoms were, based on [how much of the virus the test found](#) in individuals' samples.

The antibody serosurveys getting underway [in different parts of the country](#) add further evidence that a good number – possibly anywhere from around 10 percent to 40 percent – of those infected might not experience symptoms.

Asymptomatic SARS-CoV-2 infection appears to be common – and will continue to complicate efforts to get the pandemic under control.

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