Diarrhea, stomach ache and nausea: The many ways COVID-19 can affect your gut

2 September 2020, by Vincent Ho

What type of gut symptoms are we talking about?

A review of more than 25,000 COVID-19 patients found about 18% had gastrointestinal symptoms. The most common was diarrhea followed by nausea and vomiting. Abdominal pain was considered rare. In another study only about 2% of COVID-19 patients had abdominal pain.

Some people believe COVID-19 causes abdominal pain through inflammation of the nerves of the gut. This is a similar way to how gastroenteritis (gastro) causes abdominal pain.

Another explanation for the pain is that COVID-19 can lead to a sudden loss of blood supply to abdominal organs, such as the kidneys, resulting in tissue death (infarction).

Are gut symptoms recognized?

The US Centers for Disease Control has added diarrhea, nausea and vomiting to its list of recognized COVID-19 symptoms.

However, the World Health Organization still only lists diarrhea as a gastrointestinal COVID-19 symptom.

In Australia, nausea, diarrhea and vomiting are listed as other COVID-19 symptoms, alongside the classic ones (which include fever, cough, sore throat and shortness of breath). But abdominal pain is not listed.

Advice of symptoms that warrant testing may vary across different states and territories.

How likely is it?

Doctors often use the concept of pre-test probability when working out if someone has a particular disease. This is the chance a person has the
What makes it difficult to determine the pre-test probability for COVID-19 is we don't know how many people in the community truly have the disease.

We do know, however, COVID-19 in Australia is much less common than in many other countries. This affects the way we view symptoms that aren't typically associated with COVID-19.

It's far more common for people's abdominal pain to be caused by something other than COVID-19. For example, about a quarter of people at some point in their lives are known to suffer from dyspepsia (discomfort or pain in the upper abdomen). But the vast majority of people with dyspepsia do not have COVID-19.

Similarly, irritable bowel syndrome affects about 9% of Australians, and causes diarrhea. Again, the vast majority of people with irritable bowel syndrome do not have COVID-19.

So how about this latest case?

In the Queensland case, we know the nurse was worried he could have had COVID-19 because he was in close contact with COVID-19 patients.

As he seemed otherwise healthy before developing new abdominal symptoms, and considering he worked on a COVID ward, his pre-test probability was high. Doctors call this a "high index of suspicion" when there is a strong possibility someone may have symptoms due to a disease such as COVID-19.

What does this mean for me?

If you have new gastrointestinal symptoms and you've potentially been in contact with someone with COVID-19 or if you also have other classic COVID-19 symptoms (fever, cough, shortness of breath and sore throat) you should definitely get tested.

If you have just gastrointestinal symptoms, you may need to get tested if you're in a "hotspot" area, or work in a high-risk occupation or industry.

If you have gastrointestinal symptoms alone, without any of these additional risk factors, there is no strong evidence to support testing.

However, if COVID-19 becomes even more common in the community, these symptoms now regarded as uncommon for COVID-19 will become more common.

If you have concerns about any gastrointestinal symptoms, seeing your GP would be sensible. Your GP will provide a balanced assessment based on your medical history and risk profile.

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