

# Myth busting: Setting the record straight on ibuprofen and COVID-19

March 24 2020, by Kerry Blackadar

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Ibuprofen. Credit: Unsplash

In the midst of the COVID-19 outbreak, there has been a wave of fear

and misinformation related to the use of anti-inflammatory drugs, like ibuprofen (Advil and Motrin)

Over the past week, rumours claiming that [ibuprofen](#) can kickstart the virus into pneumonia, or make the virus 10 times worse, have been quick to spread on social media and messaging services, like WhatsApp.

UBC's Mahyar Etminan, an epidemiologist, [drug](#) safety expert and professor in the faculty of medicine, explains how the controversy began. He sets the record straight explaining the drug safety evidence of ibuprofen.

## **Why is there controversy surrounding ibuprofen right now?**

The controversy started when a French physician tweeted that ibuprofen should be avoided in COVID-19 patients. The controversy has been further fueled by the fact that some of the most prestigious regulatory bodies, such as the World Health Organization, at first endorsed this claim but later walked it back, creating more confusion.

## **Is ibuprofen safe to take if you have or believe you may have COVID-19?**

Until there is more scientific evidence on this issue, patients with mild to moderate fevers should use acetaminophen (Tylenol, Tempra), which has been regarded as the safest drug for pain and fever for decades.

It's important to remember that over-the-counter drugs like Advil and Tylenol do not shorten the duration of the illness itself, but offer relief from fever and pain resulting from COVID-19.

Low-grade fevers are generally harmless and a sign of the body's immune system fighting an infection.

When a [high fever](#) cannot be controlled with acetaminophen (Tylenol) alone, ibuprofen (Advil) can be used along with acetaminophen and then discontinued as soon as a patient's temperature returns to normal.

People should talk to their [health care provider](#) if they have questions or concerns about what to take.

## **What is the current drug safety evidence for ibuprofen?**

There are contradictory viewpoints on ibuprofen because we currently lack high-quality evidence. The only information currently available that links the use of ibuprofen to negative outcomes in COVID-19 is from scientists in China who believe that ibuprofen may increase production of an enzyme that allows COVID-19 to better bind to cells. This is purely theoretical and no [clinical study](#) has actually tested this hypothesis in COVID-19 patients who use ibuprofen.

There have also been a few anecdotal cases from French physicians. These cases are not published yet, and even if or when they are, they cannot prove a [causal link](#) as they only describe experiences of a few patients without an active comparison group to control for other variables.

Until robust studies that compare ibuprofen to acetaminophen are available, the strength of the current evidence is not strong enough to avoid ibuprofen in patients who might benefit from it.

## **Are there any special considerations when it comes to**

## children and ibuprofen?

It is important to lower high fevers, especially in children (38.3 C or more) as there is a two to five percent chance of seizures in children with high fevers.

Children with viral infections including COVID-19 who have a sustained fever (38.3 C or more) might benefit from the addition of ibuprofen to acetaminophen. These patients should not be discouraged from using ibuprofen based on the current evidence. Aspirin should not be given to children for [fever](#) control due to the risk of Reye's syndrome, a rare, but serious condition that causes swelling in the liver and brain.

Provided by University of British Columbia

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