

Common COVID-19 Myths and Misinformation

Myth: The side effects of the COVID-19 vaccine are dangerous.

Myth: The COVID-19 vaccine can affect women's fertility.

Myth: If I've already had COVID-19, I don't need a vaccine.

Myth: Researchers rushed the development of the COVID-19 vaccine, so its effectiveness and safety cannot be trusted.

Myth: Getting the COVID-19 vaccine gives you COVID-19.

Myth: The COVID-19 vaccine can affect women's fertility.

Myth: The COVID-19 vaccine enters your cells and changes your DNA.



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Information gathered from the following website:

<https://www.hopkinsmedicine.org/health/conditions-and-diseases/coronavirus/covid-19-vaccines-myth-versus-fact>
<https://www.muhealth.org/our-stories/covid-19-vaccine-myths-vs-facts>

If I've already had COVID-19, I don't need a vaccine.

FACT: People who have gotten sick with COVID-19 may still benefit from getting vaccinated. Due to the severe health risks associated with COVID-19 and the fact that re-infection with COVID-19 is possible, people may be advised to get a COVID-19 vaccine even if they have been sick with COVID-19 before.

There is not enough information currently available to say if or for how long people are protected from getting COVID-19 after they have had it (natural immunity). Early evidence suggests natural immunity from COVID-19 may not last very long, but more studies are needed to better understand this. Several subjects in the Pfizer trial who were previously infected got vaccinated without ill effects. Some scientists believe the vaccine offers better protection for coronavirus than natural infection.

You can get
COVID-19 from the
vaccine.

Fact: You cannot
get COVID-19 from
the vaccine
because it doesn't
contain the live
virus.

Once I receive the vaccine, I will test positive for COVID-19.

Fact: Viral tests used to diagnose COVID-19 check samples from the respiratory system for the presence of the virus that causes COVID-19. Since there is no live virus in the vaccines, the vaccines will not affect your test result. It is possible to get infected with the virus before the vaccine has had time to fully protect your body.

The COVID-19 vaccine can affect women's fertility.

FACT: The COVID-19 vaccine will not affect fertility. The truth is that the COVID-19 vaccine encourages the body to create copies of the spike protein found on the coronavirus's surface. This "teaches" the body's immune system to fight the virus that has that specific spike protein on it.

The COVID-19 vaccine was developed with or contains controversial substances.

FACT: The first two COVID-19 vaccines to be authorized by the FDA contain mRNA and other, normal vaccine ingredients, such as fats (which protect the mRNA), salts, as well as a small amount of sugar. These COVID-19 vaccines were not developed using fetal tissue, and they do not contain any material, such as implants, microchips or tracking devices.

Myth: Researchers rushed the development of the COVID-19 vaccine, so its effectiveness and safety cannot be trusted.

FACT: Studies found that the two initial vaccines are both about 95% effective — and reported no serious or life-threatening side effects. There are many reasons why the COVID-19 vaccines could be developed so quickly. Here are just a few:

The COVID-19 vaccines from Pfizer/BioNTech and Moderna were created with a method that has been in development for years, so the companies could start the vaccine development process early in the pandemic.

China isolated and shared genetic information about COVID-19 promptly, so scientists could start working on vaccines.

The vaccine developers didn't skip any testing steps but conducted some of the steps on an overlapping schedule to gather data faster.

Vaccine projects had plenty of resources, as governments invested in research and/or paid for vaccines in advance.

Some types of COVID-19 vaccines were created using messenger RNA (mRNA), which allows a faster approach than the traditional way that vaccines are made.

Social media helped companies find and engage study volunteers, and many were willing to help with COVID-19 vaccine research.

Because COVID-19 is so contagious and widespread, it did not take long to see if the vaccine worked for the study volunteers who were vaccinated.

Companies began making vaccines early in the process — even before FDA authorization — so some supplies were ready when authorization occurred.

Myth: The side effects of the COVID-19 vaccine are dangerous.

FACT: On Apr. 13, the CDC and FDA recommended a pause in using the J&J vaccine. Johns Hopkins Medicine will temporarily stop using the vaccine pending CDC and FDA reviews. [Read full story.](#)

The Pfizer and Moderna COVID-19 vaccines can have side effects, but the vast majority are very short term — not serious or dangerous. The vaccine developers report that some people experience pain where they were injected; body aches; headaches or fever, lasting for a day or two. These are signs that the vaccine is working to stimulate your immune system. If symptoms persist beyond two days, you should call your doctor.

If you have allergies — especially severe ones that require you to carry an EpiPen — discuss the COVID-19 vaccine with your doctor, who can assess your risk and provide more information about if and how you can get vaccinated safely.

Myth: The COVID-19 vaccine enters your cells and changes your DNA.

FACT: The two COVID-19 vaccines available to us are designed to help your body's immune system fight the coronavirus. The messenger RNA from two of the first types of COVID-19 vaccines does enter cells, but not the nucleus of the cells where DNA resides. The mRNA does its job to cause the cell to make protein to stimulate the immune system, and then it quickly breaks down — without affecting your DNA.

Myth: The messenger RNA technology used to make the COVID-19 vaccine is brand new.

FACT: The mRNA technology behind the new coronavirus vaccines has been in development for almost two decades. Vaccine makers created the technology to help them respond quickly to a new pandemic illness, such as COVID-19.

Myth: Getting the COVID-19 vaccine gives you COVID-19.

FACT: The vaccine for COVID-19 cannot and will not give you COVID-19. The two authorized mRNA vaccines instruct your cells to reproduce a protein that is part of the SARS-CoV-2 coronavirus, which helps your body recognize and fight the virus, if it comes along. The COVID-19 vaccine does not contain the SARS-Co-2 virus, so you cannot get COVID-19 from the vaccine. The protein that helps your immune system recognize and fight the virus does not cause infection of any sort.