



COVID-19

What You Need to Know About Variants

Updated Dec. 1, 2021

Omicron Variant

The Omicron Variant of Concern has been detected in the United States. CDC is following the details of this new variant.

[CDC's Media Statement](#)



Information about Variants: Viruses constantly change through mutation and sometimes these mutations result in a new variant of the virus. Some variants emerge and disappear while others persist. New variants will continue to emerge. CDC and other public health organizations monitor all variants of the virus that causes COVID-19 in the United States and globally.

The [Delta variant causes more infections and spreads faster](#) than the original [SARS-CoV-2](#) strain of the virus that cause COVID-19. Vaccines remain the best way to reduce your risk of severe illness, hospitalization, and death from COVID-19.

Top Things You Need to Know

1. New variants of the virus are expected to occur. Taking measures to reduce the spread of infection, including getting a COVID-19 vaccine, are the best ways to slow the emergence of new variants.
2. Vaccines reduce your risk of severe illness, hospitalization, and death from COVID-19.
3. COVID-19 booster doses are recommended for individuals who are 18 years or older.



Vaccines

- While [vaccines](#) reduce your risk of severe illness, hospitalization, and death from COVID-19, we don't yet know how effective they will be against new variants that may arise, including Omicron.



Symptoms

- All previous variants cause similar COVID-19 [symptoms](#).
- Some variants, such as the Alpha and Delta variants, may cause more severe illness and death.



Masks

- Wearing a mask is an [effective way](#) to reduce the spread of earlier forms of the virus, the Delta variant and other known variants.
- People who are not fully vaccinated should [take steps to protect themselves](#), including wearing a mask indoors in public at all levels of community transmission.
- People who are fully vaccinated should wear a mask indoors in areas of [substantial or high transmission](#).

- People who are not fully vaccinated should [take steps to protect themselves](#), including wearing a mask indoors in public at all levels of community transmission.
- Wearing a mask is very important if you or someone in your household
 - Has a weakened immune system
 - Has an [underlying medical condition](#)
 - Is an [older adult](#)
 - Is not fully vaccinated



Testing

- Tests used to detect COVID-19 may not tell you which variant you have.
- As new variants emerge, scientists will continue to evaluate how well tests work to detect current infection.

Types of Variants

Scientists monitor all variants but may classify certain ones as [variants being monitored](#), [variants of interest](#), [variants of concern](#) and [variants of high consequence](#). Some variants spread more easily and quickly than other variants, which may lead to more cases of COVID-19. An increase in the number of cases will put more strain on healthcare resources, lead to more hospitalizations, and potentially more deaths.

These classifications are based on how easily the variant spreads, how severe the symptoms are, how the variant responds to treatments, and how well vaccines protect against the variant.

Variants of Concern



Omicron - B.1.1.529

First identified: South Africa

Spread: May spread more easily than other variants, including Delta.

Severe illness and death: Due to the small number of cases, the current severity of illness and death associated with this variant is unclear.

Vaccine: Breakthrough infections in people who are fully vaccinated are expected, but vaccines are effective at preventing severe illness, hospitalizations, and death. Early evidence suggests that fully vaccinated people who become infected with the Omicron variant can spread the virus to others. All FDA-approved or authorized vaccines are expected to be effective against severe illness, hospitalizations, and deaths. The recent emergence of the Omicron variant further emphasizes the importance of vaccination and boosters.

Treatments: Some [monoclonal antibody treatments](#) may not be as effective against infection with Omicron.



Delta - B.1.617.2

First identified: India

Spread: Spreads more easily than other variants.

Severe illness and death: May cause more severe cases than the other variants

Vaccine: Breakthrough infections in people who are fully vaccinated are expected, but vaccines are effective at preventing severe illness, hospitalizations, and death. Early evidence suggests that fully vaccinated people who become infected with the Delta variant can spread the virus to others. All FDA-approved or authorized vaccines are effective against severe illness, hospitalization, and death.

Treatments: Nearly all variants circulating in the United States respond to treatment with FDA-authorized [monoclonal antibody treatments](#).

Related Pages

- › [Variant Proportions](#)
- › [SARS-CoV-2 Sequences](#)

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