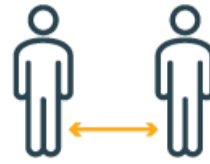


COVID-19

CASES ARE RISING.
ACT NOW!



WEAR A MASK



STAY 6 FEET APART



AVOID CROWDS

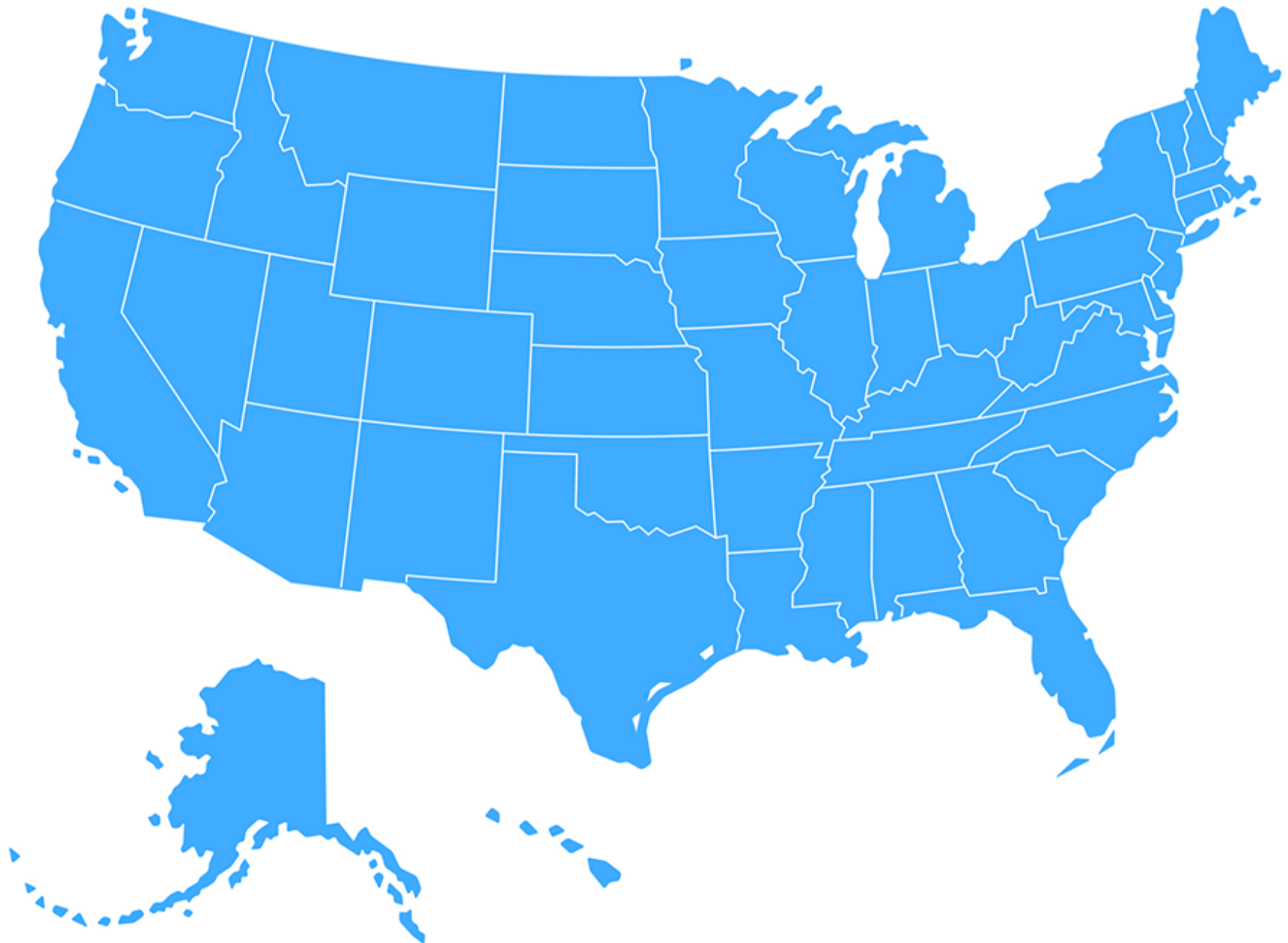
New COVID-19 Variants

Updated Jan. 9, 2021



Information about the characteristics of these variants is rapidly emerging. Scientists are working to learn more about how easily they might spread, whether they could cause more severe illness, and whether currently authorized vaccines will protect people against them. At this time, there is no evidence that these variants cause more severe illness or increased risk of death.

What we know



US COVID-19 Cases Caused by Variants

View a map showing the number of confirmed cases in each state.

Viruses constantly change through mutation, and new variants of a virus are expected to occur over time. Sometimes new variants emerge and disappear. Other times, new variants emerge and persist. Multiple variants of the virus that causes COVID-19 have been documented in the United States and globally during this pandemic.

The virus that causes COVID-19 is a type of coronavirus, a large family of viruses. Coronaviruses are named for the crown-like spikes on their surfaces. Scientists monitor changes in the virus, including changes to the spikes on the surface of the virus. These studies, including genetic analyses of the virus, are helping us understand how changes to the virus might affect how it spreads and what happens to people who are infected with it.

Multiple COVID-19 variants are circulating globally. In the United Kingdom (UK), a new variant has emerged with an unusually large number of mutations. This variant seems to spread more easily and quickly than other variants. Currently, there is no evidence that it causes more severe illness or increased risk of death. This variant was first detected in September 2020 and is now highly prevalent in London and southeast England. It has since been detected in numerous countries around the world, including the United States and Canada.

In South Africa, another variant has emerged independently of the variant detected in the UK. This variant, originally detected in early October, shares some mutations with the variant detected in the UK. There have been cases caused by this variant outside of South Africa. This variant seems to spread more easily and quickly than other variants. Currently, there is no evidence that it causes more severe illness or increased risk of death.

Another variant recently emerged in Nigeria. CDC also is monitoring this strain but, at this time, there is no evidence to indicate this variant is causing more severe illness or increased spread of COVID-19 in Nigeria.

What we do not know

Scientists are working to learn more about these variants, and more studies are needed to understand:

- How widely these new variants have spread
- How the new variants differ
- How the disease caused by these new variants differs from the disease caused by other variants that are currently circulating

What it means

Public health officials are studying these variants quickly to learn more to control their spread. They want to understand whether the variants:

- Spread more easily from person to person
- Cause milder or more severe disease in people
- Are detected by currently available viral tests
- Respond to medicines currently being used to treat people for COVID-19
- Change the effectiveness of COVID-19 vaccines. There is no evidence that this is occurring, and most experts believe this is unlikely to occur because of the nature of the immune response to the virus.

What CDC is doing

CDC, in collaboration with other public health agencies, is monitoring the situation closely. CDC is working to detect and characterize emerging viral variants and expand its ability to look for COVID-19 and new variants. Furthermore, CDC has staff available on-the-ground support to investigate the characteristics of viral variants. CDC is collaborating with EPA to confirm that disinfectants on EPA's [List N: Disinfectants for Coronavirus \(COVID-19\)](#) [inactivate these variant viruses](#). As new information becomes available, CDC will provide updates.

More Information

[Emerging SARS-CoV-2 Variants](#)

Requirement for Proof of Negative COVID-19 Test for All Air Passengers Arriving from the UK to the US

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