



How CDC Monitors Vaccine Effectiveness

Updated June 23, 2022

To understand how well COVID-19 vaccines are working in real-world conditions over time, CDC uses a multi-layered approach, which includes ongoing **analyses of surveillance data** and **studies of vaccine effectiveness**.

Surveillance data allow us to monitor rates of COVID-19 cases, hospitalizations, and deaths by vaccination status.



Analyses of surveillance data can provide **signals of potential changes** in vaccine effectiveness.

These signals can then be further studied through **more robust, controlled vaccine effectiveness studies** conducted by CDC and partners.

The vaccine effectiveness studies help us better understand how well COVID-19 vaccines are working in different groups of people, against different health outcomes, and against different variants. Vaccine effectiveness is a measure of how well vaccination protects people against infection, symptomatic illness, hospitalization, and death.

Monitoring Data Based on Vaccination Status

Learn about how CDC monitors COVID-19 cases, hospitalizations, and deaths by vaccination status

How to Study Vaccine Effectiveness

Learn about how CDC studies COVID-19 vaccine effectiveness

Last Updated June 23, 2022