CDC Centers for Disease Control and Prevention

COVID-19 Vaccines are Effective

Updated June 29, 2022

CDC is reviewing this page to align with updated guidance.

- COVID-19 vaccines are **safe and effective**.
- COVID-19 vaccination helps protect adults and children ages 6 months and older from getting severely ill with COVID-19 and helps protect those around them.
- Some people who are vaccinated against COVID-19 will still get sick and have a vaccine breakthrough infection because no vaccine is 100% effective.

COVID-19 Vaccines Work

How and Why CDC Monitors Vaccine Effectiveness

Vaccine Effectiveness

Vaccine effectiveness is a measure of how well vaccination protects people against outcomes such as infection, symptomatic illness, hospitalization, and death. Vaccine effectiveness is typically measured through observational studies specifically designed to estimate individual protection from vaccination under "real-world" conditions.

Data on Vaccine Effectiveness and Vaccine Breakthrough Infections

As part of CDC's ongoing efforts to understand how well COVID-19 vaccines are working, CDC is monitoring vaccine effectiveness and rates of breakthrough infections, hospitalizations, and deaths.

- COVID-19 Vaccine Effectiveness
- Rates of COVID-19 Cases and Deaths by Vaccination Status
- Hospitalizations by Vaccination Status – COVID-NET
- The Possibility of Getting COVID-19 after Vaccination: Breakthrough Infections

MMWR Read all *MMWR* COVID-19 vaccine effectiveness and safety reports.

About Vaccine Effectiveness

COVID-19 Vaccines Work >

How CDC Measures COVID-19 Vaccine Effectiveness >

Possibility of COVID-19 Illness After Vaccination >

For Healthcare Professionals and Health Departments

COVID-19 Clinical and Professional Resources

Reporting Breakthrough Infections

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