



## COVID-19 Vaccines are Safe and Effective

The scientific evidence is clear, mRNA vaccines developed to prevent symptoms and severe infection from the COVID-19 virus are effective.

### [New England Journal of Medicine: Effectiveness of mRNA Vaccines](#)

- 30,420 people participated in a 2 month clinical trial to evaluate the safety and effectiveness of the mRNA vaccine.
- Those who received the vaccine had a much lower incidence of COVID-19 than those given a placebo.
- Conclusion: Two doses of a mRNA vaccine were safe and provided 94% effectiveness against getting COVID-19 symptoms in people age 18 and older.

### [The Lancet: Effectiveness of Pfizer-BioNTech Vaccine](#)

- Study sought to evaluate overall and variant-specific effectiveness of the Pfizer–BioNTech vaccine against SARS-CoV-2 infections and COVID-19-related hospital admissions.
- Analyzed electronic health records of more than 3.4 million individuals ( $\geq 12$  years, medium age of 45 years) who were members of the Kaiser Permanente Southern California health plan.
- For fully vaccinated individuals, effectiveness against COVID-19 infections was 73%.
- The effectiveness at preventing COVID-19-related hospital admissions was 90%.
- Vaccine effectiveness against hospital admissions for infections with the Delta variant for all ages was 93) up to 6 months post-vaccination.

### [CDC: Preventing Infections among Adults with Previous Infections](#)

- Study used data from more than 135 million patients and 154 health care organizations in the U.S.
- People with previous SARS-CoV-2 infection have protection against reinfection leading to hospitalization.
- The estimated vaccine effectiveness against reinfection leading to hospitalization during the Omicron-predominant period was approximately 35% after dose 2, and 68% after a booster dose.
- To prevent COVID-19–associated hospitalization, all eligible people should stay up to date with vaccination, including those with previous COVID-19 infections.

### **Other Studies**

- [CDC: Effectiveness of COVID-19 Booster Doses Against COVID-19–Associated ER and Urgent Care visits](#)
- [Center for Infectious Disease Research and Policy: COVID vaccines effective, with limited waning](#)