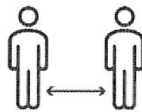




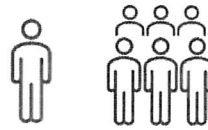
COVID-19



WEAR A MASK



STAY 6 FEET APART



AVOID CROWDS



GET A VACCINE

Information about the Pfizer-BioNTech COVID-19 Vaccine

Updated Mar. 4, 2021

[Print](#)

General information

Name: BNT162b2

Manufacturer: Pfizer, Inc., and BioNTech

Type of vaccine: mRNA

Learn more about how COVID-19 vaccines work and get a better understanding of COVID-19 mRNA vaccines.

Number of shots: 2 shots, 21 days apart

How given: Shot in the muscle of the upper arm

Does not contain:

- Eggs
- Preservatives
- Latex

For a full list of ingredients, see Pfizer's COVID-19 Vaccine Fact Sheet for Recipients and Caregivers [200 KB, 6 pages] [↗](#)

Who should get vaccinated

- The Pfizer-BioNTech vaccine is recommended for people aged 16 years and older. Learn more about how CDC is making COVID-19 vaccine recommendations and CDC's vaccine rollout recommendations.

Who should not get vaccinated

- If you have had a severe allergic reaction (anaphylaxis) or an immediate allergic reaction—even if it was not severe—to any ingredient in an mRNA COVID-19 vaccine (such as polyethylene glycol), you should not get an mRNA COVID-19 vaccine.*
- If you have had a severe allergic reaction (anaphylaxis) or an immediate allergic reaction—even if it was not severe—after getting the first dose of the vaccine, you should not get a second dose of either of the mRNA COVID-19

vaccines.*

- An allergic reaction is considered severe when a person needs to be treated with epinephrine or EpiPen® or if they must go to the hospital. Learn about common side effects of COVID-19 vaccines and when to call a doctor.
- An immediate allergic reaction means a reaction within 4 hours of getting vaccinated, including symptoms such as hives, swelling, or wheezing (respiratory distress).

If you aren't able to get an mRNA COVID-19 vaccine, you may still be able to get a different type of COVID-19 vaccine. Learn more information for people with allergies.

Side effects

Common side effects

In the arm where you got the shot:

- Pain
- Redness
- Swelling

Throughout the rest of your body:

- Tiredness
- Headache
- Muscle pain
- Chills
- Fever
- Nausea

These side effects usually start within a day or two of getting the vaccine. Side effects might affect your ability to do daily activities, but they should go away in a few days. Get tips on what to expect after getting vaccinated.

Summary of safety data

- In clinical trials, reactogenicity symptoms (side effects that happen within 7 days of getting vaccinated) were common but were mostly mild to moderate.
- Side effects (such as fever, chills, tiredness, and headache) throughout the body were more common after the second dose of the vaccine.
- Most side effects were mild to moderate. However, a small number of people had severe side effects—defined as side effects affecting a person's ability to do daily activities.
- Although few people in the clinical trials went to the hospital or died, data suggest that people who got the Pfizer-BioNTech vaccine were less likely to have these more serious outcomes compared to people who got the saline placebo.
- CDC will continue to provide updates as we learn more about the safety of the Pfizer-BioNTech vaccine in real-world conditions. Learn more about vaccine safety monitoring after a vaccine is authorized or approved for use.

Learn more about safety and reactogenicity data from the clinical trials.

Information on how well the vaccine works

- Based on evidence from clinical trials, the Pfizer-BioNTech vaccine was 95% effective at preventing laboratory-confirmed COVID-19 illness in people without evidence of previous infection.
- CDC will continue to provide updates as we learn more about how well the Pfizer-BioNTech vaccine works in real-world conditions.

Demographic information from clinical trials

Phase 2 and 3 clinical trials for the Pfizer-BioNTech vaccine included people from the following racial and ethnic categories:

- 81.9% White
- 26.2% Hispanic/Latino
- 9.8% African American
- 4.4% Asian
- <3% other races/ethnicities

Age and sex breakdown:

- 50.6% male
- 49.4% female
- 21.4% 65 years and older

The most frequent underlying medical conditions were obesity (35.1%), diabetes (8.4%), and pulmonary disease (7.8%).

Learn more about demographic information for people who participated in the trials. [1.13 MB, 53 pages] [↗](#)



For Healthcare Workers

Pfizer-BioNTech COVID-19 Vaccine: General information, schedule and administration overview.

More Information

What to Expect After Getting a COVID-19 Vaccine

Learn more about how federal partners are ensuring the safety of COVID-19 vaccines

Learn more about the benefits of getting a COVID-19 vaccine

MMWR: Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Pfizer-BioNTech COVID-19 Vaccine — United States, December 14–23, 2020

Last Updated Mar. 4, 2021