



Australian Government



Information on COVID-19 Comirnaty (Pfizer) vaccine

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About the vaccine

Comirnaty (Pfizer) is a vaccine that can prevent people from becoming ill from COVID-19. Two doses are required, usually given 3-6 weeks apart (in special circumstances the interval may be longer). The Pfizer COVID-19 vaccine does not contain any live virus, and it cannot give you COVID-19. It contains the genetic code for an important part of the SARS-CoV-2 virus called the spike protein. After getting the vaccine, your body makes copies of the spike protein. Your immune system will then learn to recognise and fight against the SARS-CoV-2 virus, which causes COVID-19. The body breaks down the genetic code quickly.

Vaccination is voluntary and free. You can discuss any concerns or questions you have about COVID-19 vaccination with your immunisation provider or your GP before you receive the vaccine.

Benefits of the vaccine

A very large clinical trial showed that Pfizer is effective in preventing COVID-19 in people aged 12 years and older. People who had two doses of Pfizer were about 95 per cent less likely to get symptomatic COVID-19 than people who did not get the vaccine. It was equally effective in people over the age of 65 years, as well as people with some stable pre-existing medical conditions.

Protection against COVID-19 starts from about 2–3 weeks after the first dose. While one dose may give some protection, it may only last for the short-term. Two doses will give optimal protection. No vaccine is 100 per cent effective, so it is possible that you can still get sick from COVID-19 after vaccination. We do not know how long the protection from Pfizer will last. We will learn more about this over time.

We currently do not know how effective COVID-19 vaccines are at preventing spread of the virus. This means that SARS-CoV-2 could potentially still infect a vaccinated person. Even if they have no symptoms or only mild symptoms, they could still pass it on to others.

This is why after vaccination it is important to continue other preventative measures like:

- physical distancing
- hand washing
- wearing a face mask
- COVID-19 testing and quarantine/isolation as required by your state/territory.

If you have been vaccinated with two doses of Pfizer, you should still get a COVID-19 test if you have symptoms that meet testing criteria according to your local health authority (e.g. fever, cough, sore throat).

Who can receive this vaccine

People aged ≥ 12 years and older can receive Pfizer vaccine.

Who should not receive this vaccine

You should not receive this vaccine if you have had:

- **anaphylaxis** (a type of severe allergic reaction) to a previous dose of an mRNA COVID-19 vaccine (i.e., Pfizer or Spikevax (Moderna))
- **anaphylaxis after exposure to any component of the vaccine**, including polyethylene glycol (PEG)
- **myocarditis and/or** pericarditis attributed to a previous dose of an mRNA COVID-19 vaccine (i.e., Pfizer or Moderna)
- **any other serious adverse event**, that following review by an experienced immunisation provider or medical specialist was attributed to a previous dose of an mRNA COVID-19 vaccine (i.e., Pfizer or Moderna) and without another cause identified

Precautions for vaccination

People with certain conditions may need additional precautions such as staying for 30 minutes of observation after having their vaccine or consulting an allergy specialist. Tell your immunisation provider if you have had:

- an **allergic reaction to a previous dose** or to an ingredient of an mRNA COVID-19 vaccine (i.e Pfizer or Moderna)
- **anaphylaxis to other vaccines or to other medicines**. Your provider can check to ensure there are no common ingredients with the COVID-19 vaccine you are receiving
- confirmed mastocytosis with recurrent anaphylaxis that requires treatment.

If you have a **bleeding disorder** or you are **taking a blood-thinning medication** (anticoagulant), tell your immunisation provider. Your immunisation provider can help determine whether it is safe for you to have an intramuscular injection, and help decide the best timing for injection.

Special circumstances to discuss before vaccination

People with precautionary conditions for Pfizer

People with a history of any of the following conditions can receive Pfizer but advice should be sought from a GP, immunisation specialist or cardiologist about the best timing of vaccination and whether any additional precautions are recommended:

- Recent (i.e. within the past 6 months) or current inflammatory cardiac illness e.g., myocarditis, pericarditis, endocarditis
- Acute rheumatic fever (i.e., with active myocardial inflammation) or acute rheumatic heart disease
- Dilated cardiomyopathy (for people under 30 years of age)
- Congenital heart disease
- Severe heart failure
- Heart transplant recipients

People with weakened immune systems (immunocompromise)

People with immunocompromise includes those who have a medical condition that weakens their immune system. It also includes those who may be taking medications that suppress their immune system.

The Australian Government strongly recommends people with immunocompromise receive COVID-19 vaccination. Pfizer is not a live vaccine. It is safe in people with immunocompromise.

People with immunocompromise, including those living with HIV, have a higher risk of severe illness from COVID-19, including a higher risk of death.

Clinical trials for Pfizer did not include people with immunocompromise, except for a small group of people with stable HIV. We do not know if Pfizer is as effective in people with immunocompromise compared to the rest of the population. It is possible that Pfizer might not be as effective in people with immunocompromise as it is in the general population. It is important to continue other preventative measures such as physical distancing after vaccination.

Women who are pregnant or breastfeeding

Pregnant women and adolescents should be routinely offered Pfizer or Moderna at any stage of pregnancy. If you are trying to become pregnant you do not need to delay vaccination or avoid becoming pregnant after vaccination.

Pregnant women with COVID-19 have an increased risk of severe illness and adverse pregnancy outcomes. Real-world evidence has shown that Pfizer is safe for pregnant women and breastfeeding women.

If you are breastfeeding, you can have Pfizer. You do not need to stop breastfeeding after vaccination.

People with a history of COVID-19

If you have had COVID-19 in the past, tell your immunisation provider. You may be advised to wait for up to six months after recovery before having a COVID-19 vaccine. If you have ongoing illness from COVID-19, discuss the best timing of vaccination with your treating doctor.

Pfizer and children

Pfizer has been provisionally approved for use in people aged 12 years or older, and cannot be given to younger people.

Ensuring the safety of Pfizer

Pfizer and other COVID-19 vaccines have been developed quickly due to increased funding for vaccine research, and access to very large numbers of volunteers for research studies. A large clinical trial involving around 44,000 people confirmed Pfizer to be safe and effective.

The Therapeutic Goods Administration assesses all vaccines in Australia. This ensures that, in order for a vaccine to be approved, it is safe, effective and manufactured to a very high quality standard. A description of the process for approval of COVID-19 vaccines is available on the [TGA website](#).

The safety of COVID-19 vaccines will be monitored continuously throughout the COVID-19 vaccination program.

There are reports of a very rare side effect involving blood clotting with low blood platelet count after receiving the COVID-19 Vaccine AstraZeneca. The COVID-19 Vaccine AstraZeneca vaccine is made in a different way. There is no evidence of this condition being linked to the Pfizer COVID-19 vaccine.

You can report suspected side effects to your vaccination provider or other healthcare professional. They will then make a formal report on your behalf to your state or territory health department or directly to the TGA.

If you would prefer to report it yourself, please visit the [TGA website](#) for information on how to report suspected side effects associated with COVID-19 vaccines.