COVID-19 Vaccines for Primary School Kids







How does COVID-19 affect kids in primary school?

All children are at risk of getting COVID-19, but the good news is their symptoms are generally mild.



Many children experience a cough, fever, and a runny nose, and only require rest at home, recovering quickly.¹ A very small percentage of children experience a barking cough, prolonged fever, breathing difficulties and abdominal pain, and these children are advised to see their doctor.

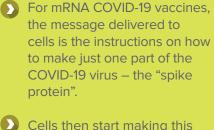


Children with underlying health conditions are at higher risk of experiencing severe COVID-19 symptoms. Conditions include asthma, obesity, prematurity, and compromised immune systems.²⁻⁵

How do COVID-19 vaccines work?

In Australia, children receive mRNA COVID-19 vaccines.

An mRNA vaccine is a way to deliver a message to cells in the body.



- Cells then start making this spike protein. Because the message in the mRNA vaccine tells the body to make only the spike protein, and not the entire COVID-19 virus, it can't make a person sick from COVID-19.
- The immune system recognises the generated spike proteins on the cells as being foreign to the body and starts training itself to fight off the virus.

 If a vaccinated person is exposed to COVID-19, the immune system immediately recognises the COVID-19 spike protein and generates a strong and rapid immune response to try and limit the infection.

Why do children need a COVID-19 vaccine if they're not getting very sick?

While severe disease and hospitalisation is uncommon in children, it can occur in some cases and vaccinating children helps to protect against this.⁶ Vaccination also benefits the entire family, as well as the community around your child, as it may help to slow the virus spreading to vulnerable people such as elderly grandparents and younger kids who aren't yet able to be vaccinated. It is important that we let children keep on doing what children do. We have seen the disruption that COVID-19 can have on young lives from a schooling perspective and also on the social and emotional aspects of their lives.⁷⁸









Is vaccinating children safe?



The COVID-19 vaccine has undergone rigorous testing and monitoring and has been shown to be **safe and effective** for primary school children.⁹

More primary-school aged children in America have now received a COVID-19 vaccine than the entire population of children this age in Australia, and this has shown us that is is **safe for children**.¹⁰

Research demonstrates that the **benefit of having the vaccine far outweighs the risks.** It provides vital protection against severe complications and hospitalisation from the virus and significant vaccine-associated side effects are very rare.¹¹

Some parents have raised concerns about COVID-19 vaccines and fertility. Studies show that there's **no difference in fertility levels** in women or men before and after COVID-19 vaccination.¹²⁻¹⁵

How many doses do kids need? Will they be required to have booster shots?



Kids receive two doses of the COVID-19 vaccine, given eight weeks apart. The interval can be shortened in special circumstances to a minimum of 3 weeks, for higher risk groups (such as those with medical risk factors for severe illness) in the context of ongoing community transmission.

For children aged five to 11 years, each dose is one third of an adult sized dose of the vaccine. This dosage is based on age, not weight.¹⁶



Children have incredibly robust immune systems that have a fantastic response to the vaccine and, at this stage, it is not recommended that children receive boosters. However, it is now recommended that severely immunocompromised children aged five or older should receive three initial COVID-19 vaccines, with the third dose given two to four months after the second dose.¹⁷

How effective is the COVID-19 vaccine in this age group?

Research has shown that the *Pfizer vaccine* given to this age group can prevent more than 90% of COVID-19 infections seven days after receiving the second dose.¹¹



These vaccines are highly effective against preventing infection and severe complications that require hospitalisation.¹¹







What should I do if my child experiences any side effects from the vaccination?

Many children only experience mild side effects after receiving their COVID-19 vaccine such as pain and swelling in the arm, feeling tired, a mild fever, headache and sore muscles and joints.9

There have been rare reports of more serious side effects such as heart inflammation (myocarditis and pericarditis) in children and adults. 18,19

This condition is more likely to occur from a COVID-19 infection rather than from the vaccine.²⁰

However, if your child complains of a sore chest, shortness of breath or a fast heartbeat within 5 days of their vaccine, please seek medical care.

Where can my child get vaccinated?



In WA, children can be vaccinated at:

- GP clinics,
- state-run clinics.
- some pharmacies and
- Aboriginal Medical Services.

Visit **Roll Up WA** for more information and to make a booking.



For more information on COVID-19 in kids visit tacklingcovid19.org.au



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This resource was developed by Dr Samantha Carlson and Professor Christopher Blyth. It was guided by findings in the 'Coronavax' project²¹, as well as input from the Telethon Kids Institute National Consumer Advisory Group for COVID-19 Research. Information was also reviewed by Associate Professor Asha Bowen, Dr Tim Ford and Dr Daniel Yeoh.

This document is correct as of 11 February 2022. Please continue to check online for the most recent version/information.





References

- Molteni E, Sudre CH, Canas LS, et al. Illness duration and symptom profile in symptomatic UK school-aged children tested for SARS-CoV-2. The Lancet Child & Adolescent Health. 2021;5(10):708-718Williams P, Koirala A, Saravanos G, et al. COVID-19 in children in NSW, Australia, during the 2021 Delta outbreak: severity and disease spectrum. medRxiv. 2022.
- 2. Williams P, Koirala A, Saravanos G, et al. COVID-19 in children in NSW, Australia, during the 2021 Delta outbreak: severity and disease spectrum. medRxiv. 2022
- 3. Hobbs CV, Woodworth K, Young CC, et al. Frequency, characteristics and complications of COVID-19 in hospitalized Infants. The Pediatric Infectious Disease Journal. 2021.
- 4. Mukkada S, Bhakta N, Chantada GL, et al. Global characteristics and outcomes of SARS-CoV-2 infection in children and adolescents with cancer (GRCCC): a cohort study. The Lancet Oncology. 2021;22(10):1416-1426.
- 5. Haeusler GM, Ammann RA, Carlesse F, et al. SARS-CoV-2 in children with cancer or after haematopoietic stem cell transplant: An analysis of 131 patients. European Journal of Cancer. 2021;159:78-86
- NSW Health. COVID-19 monitor: COVID-19 cases, variants, vaccines, hospitalisations and deaths 2022 [cited 2022 Jan].
 Available from: https://aci.health.nsw.gov.au/__data/assets/pdf_file/0006/698388/20220104-COVID-19-Monitor.pdf?fbclid=lwAR 0MP3YtaypZy3QNYyQHMEPgC-p02Bkz69byB3PMk-t5NtcUKsoi2W1zX_4
- WA Department of Education, WA Department of Health, Telethon Kids Institute. DETECT schools study: understanding the impact of COVID-19 in Western Australian schools 2021 [cited 2022 Jan]. Available from: https://www.telethonkids.org.au/ globalassets/media/documents/projects/detect-schools-study-final-report-and-appendices.pdf
- 8. Racine N, McArthur BA, Cooke JE, et al. Global Prevalence of Depressive and Anxiety Symptoms in Children and Adolescents During COVID-19: A Meta-analysis. JAMA Pediatrics. 2021;175(11):1142-1150.
- AusVaxSafety. COVID-19 vaccines 2021 [cited 2022 Feb]. Available from: https://ausvaxsafety.org.au/safety-data/covid-19-vaccines
- 10. Hause A, Baggs J, Marquez P, et al. COVID-19 Vaccine Safety in Children Aged 5–11 Years—United States, November 3–December 19, 2021. MMWR Morbidity and mortality weekly report. 2021;70:1755-1760.
- 11. Walter EB, Talaat KR, Sabharwal C, et al. Evaluation of the BNT162b2 Covid-19 vaccine in children 5 to 11 years of age. New England Journal of Medicine. 2021;386:35-46
- 12. Bentov Y, Beharier O, Moav-Zafrir A, et al. Ovarian follicular function is not altered by SARS—CoV-2 infection or BNT162b2 mRNA COVID-19 vaccination. Human Reproduction. 2021;36(9):2506-2513
- 13. Orvieto R, Noach-Hirsh M, Segev-Zahav A, et al. Does mRNA SARS-CoV-2 vaccine influence patients' performance during IVF-ET cycle? Reproductive Biology and Endocrinology. 2021;19(1):69
- 14. Morris RS. SARS-CoV-2 spike protein seropositivity from vaccination or infection does not cause sterility. F&s Reports. 2021
- 15. Gonzalez DC, Nassau DE, Khodamoradi K, et al. Sperm Parameters Before and After COVID-19 mRNA Vaccination. JAMA. 2021;326(3):273-274
- 16. Australian Technical Advisory Group on Immunisation (ATAGI). ATAGI recommendations on the use of the paediatric Pfizer COVID-19 vaccine in children aged 5 to 11 years in Australia: Australian Government; 2021 [cited 2022 Jan]. Available from: https://www.health.gov.au/sites/default/files/documents/2021/12/atagi-recommendations-on-pfizer-covid-19-vaccine-use-in-children-aged-5-to-11-years_0.pdf
- 17. Australian Technical Advisory Group on Immunisation (ATAGI). ATAGI recommendations on the use of a third primary dose of COVID-19 vaccine in individuals who are severely immunocompromised: Australian Government; 2022 [cited 2022 Jan]. Available from: https://www.health.gov.au/resources/publications/atagi-recommendations-on-the-use-of-a-third-primary-dose-of-covid-19-vaccine-in-individuals-who-are-severely-immunocompromised
- 18. Therapeutic Goods Administration. COVID-19 vaccine weekly safety report 06-01-2022: Australian Government; 2022 [cited 2022 Jan]. Available from: https://www.tga.gov.au/periodic/covid-19-vaccine-weekly-safety-report-06-01-2022
- 19. Australian Technical Advisory Group on Immunisation (ATAGI), Cardiac Society of Australia and New Zealand (CSANZ), Royal Australian College of General Practitioners (RACGP), et al. Guidance on myocarditis and pericarditis after mRNA COVID-19 vaccines: Australian Government; 2021 [cited 2022 Jan]. Available from: https://www.health.gov.au/sites/default/files/documents/2021/11/covid-19-vaccination-guidance-on-myocarditis-and-pericarditis-after-mrna-covid-19-vaccines_1.pdf
- 20. Singer ME, Taub IB, Kaelber DC. Risk of Myocarditis from COVID-19 Infection in People Under Age 20: A Population-Based Analysis. medRxiv. 2021
- 21. Attwell K, Carlson SJ, Tchilingirian J, Harper T, McKenzie L, Roberts L, Rizzi M, Westphal D, Effler P, Hughes C, Swift V, Blyth CC. Coronavax: Preparing Community and Government for COVID-19 Vaccination: a Research Protocol for a mixed-methods social research project. BMJ Open. 2021;11(6):e049356