Pneumococcal vaccine - Prevenar 20

Newborn use only

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Alert	Infants who previously received 1 or 2 doses of Prevenar 13 should transition to Prevenar 20 at their next					
	schedule point to complete the vaccination schedule.					
	Prevenar 20 can be safely administered concomitantly with other monovalent or combination vaccines including influenza, rotavirus and RSV specific monoclonal antibody.					
Indication	Primary immunisation against pneumococcal diseases such as pneumonia, bacteraemia, meningitis					
maication	and otitis media in children aged 6 weeks or older. ¹⁻³					
Action			ears ^{4,5}			
	2. Catch-up vaccination in children aged 7 months to 5 years. ^{4,5} Modifies the immune response leading to enhanced antibody production and generation of memory B-					
7.00.011	cells, allowing for an anamnestic respon		· · ·			
Drug type	20-valent pneumococcal conjugate vacc					
. 0 - 71 -	polysaccharide serotypes 1, 3, 4, 5, 6A, 6					
	33F. ¹⁻³					
Trade name	Prevenar 20					
Presentation	Suspension in 0.5 ml pre-filled syringe					
Dose	0.5 ml					
	Primary vaccination Schedule ⁴					
		First dose	Subsequent doses	Booster		
	Born at or after 28 weeks	6 to 8 weeks	4 months	12 months		
	gestation					
	Born at less than 28 weeks	6 to 8 weeks	4 and 6 months	12 months		
	gestation					
	Aboriginal and Torres Strait	6 to 8 weeks	4 and 6 months	12 months		
	Islander infants					
	Infants aged <12 months with	6 to 8 weeks	4 and 6 months	12 months		
	risk conditions*					
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	Vaccination should be postponed in individuals suffering from acute severe febrile illness but not minor infection such as cold. 1-3
	Whilst one USA study reported a higher incidence of fever and febrile convulsion when Prevenar 13 was co-administered with inactivated influenza vaccine, another study did not show the same association. Coadministration studies in children for 20vPCV and inactivated influenza vaccine are not currently available. However, 20vPCV clinical trials did not show a difference between 13vPCV and 20vPCV for febrile convulsions. 1-5
Drug interactions	Less immunogenic in people who are immunocompromised secondary to immunosuppressive therapy. Extra doses may be needed as suggested in the immunisation handbook. ³
Adverse reactions	Very common
	Fever, irritability, reduced appetite, drowsiness, vaccine site redness (up to 7cm), induration and tenderness. Common
	Rash, diarrhoea, vomiting, high fever (> 39°C), limitation of limb movement due to pain. Uncommon
	Urticarial rash, vaccine site redness (more t7cm), induration and tenderness.
	Rare
	Vaccine site hypersensitivity Any serious or unexpected adverse event following immunisation should be promptly reported.
	Providers should use clinical judgment in deciding which adverse events to report and parents/carers
	should be encouraged to notify the immunisation service provider or health authorities of any untoward
	medical occurrence that follows immunisation. Each State/Territory has its own contact details for
	notification. Contact telephone number for NSW Public Health Unit is 1300 066 055.
Compatibility	Not applicable.
Incompatibility	Do not mix with any other vaccines in the same syringe.
Stability	Should be used immediately once removed from the refrigerator.
	Stable for 96 hours when stored at temperatures from 8°C to 25°C.
Storage	Store between 2 and 8°C. Pre-filled syringes should be stored in the refrigerator horizontally.
Fueinieute	Do NOT freeze.
Excipients Special comments	Aluminium phosphate, sodium chloride, succinic acid, polysorbate 80, water for injections 1. PCVs are vaccines based on chemical coupling of <i>S. pneumoniae</i> to an immunogenic protein carrier,
Special comments	which enhances antibody response and induces immune memory in young infants.
	PCV vaccines vary in the number of pneumococcal serotypes included and the proteins used for
	conjugation.
	3. Prevenar 20 is funded in the Australian National Immunisation Program since September 2025.
	4. Infants who previously received 1 or 2 doses of Prevenar 13 should transition to Prevenar 20 at any
	point in the schedule to complete the vaccination schedule. ³
Evidence	Efficacy
	There is no efficacy data for 20vPCV. This vaccine has been assessed and approved on the basis of non-
	inferiority to 13vPCV (for which clinical efficacy data is available) based on immunogenicity studies.
	Immunogenicity In one BCT. Province 20 and Province 12 were each administered to 600 infants (n = 1204) have after 26.
	In one RCT, Prevenar 20 and Prevenar 13 were each administered to 600 infants (n = 1204) born after 36 weeks gestation at the postnatal age of 42 -112 days as a 3-dose primary schedule to compare their
	immunogenicity. Immunoglobulin G (Ig G) concentration distributions for the 13 matched serotypes were
	similar between the two vaccines. The IgG responses to the 7 additional serotypes were substantially
	greater with Prevenar 20.6 The non-inferiority of immunoglobulin G geometric mean concentrations
	criteria were met for 16 of the 20 vaccine serotypes one month after two vaccine doses, and 19 of the 20
	serotypes one month after 3 vaccine doses. ⁶ Over 96 % participants had IgG concentrations greater than predefined levels to all serotypes except serotype 3 after completion of the vaccine schedule. Statistical
	non-inferiority criteria for primary objectives were missed for matched serotypes 6A, 6B, 9V and 23F
	after dose 2 and narrowly missed for serotype 6B after dose 3. However, robust opsonophagocytic
	activity, and boosting responses were observed following Prevenar 20 vaccination for all vaccine
	serotypes, including those missing statistical non-inferiority criteria. ⁶ In other randomised control trials, a four- dose schedule of Prevenar 20 was also well tolerated and
	elicited robust serotype-specific immune responses above protective levels in infants and children against pneumococcal disease due to the 20 vaccines serotypes. ^{7,8}
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Pneumococcal vaccine – Prevenar 20

Newborn use only

In one RCT, a single booster dose of Prevenar 20 between 12 to 24 months of age after two doses of Prevenar 13 during infancy elicited protective level immune responses against the 7 additional serotypes and provided similar protection against the 13 serotypes matched with Prevenar 13.9 These data suggest that transition from Prevenar 13 to Prevenar 20 after 12 months is effective and safe. There are currently no studies on immunogenicity of Prevenar in children with risk conditions.³ In adults, pneumococcal and influenza antibody responses following co-administration of Prevenar 20 with quadrivalent influenza vaccine was non-inferior to either Prevenar 20 or influenza vaccines administered separately.¹⁰ Modelling studies have postulated that replacing Prevenar 13 with Prevenar 20 is likely to have a substantial health benefit due to higher invasiveness of the additional serotypes covered by Prevenar 20. Primary vaccination with Prevenar 20 is estimated to further reduce pneumococcal disease and associated healthcare system and societal costs compared to Prevenar 13.11,12 Safety Overall, Prevenar 20 is reported to have a similar safety/tolerability profile to Prevenar 13.7,13,14 Some reports suggest fewer local reactions with Prevenar 20.7 A large, randomised control trial involving administration of four doses of Prevenar 20 to 1000 infants and Prevenar 13 to 500 infants noted similar adverse events in both groups. No serious adverse events related to study vaccines were reported. 13 **Practice points** References https://www.ebs.tga.gov.au/ebs/picmi/picmirepository.nsf/pdf?OpenAgent&id=CP-2022-PI-02385-1. Accessed 25/08/2025. https://www.ebs.tga.gov.au/ebs/picmi/picmirepository.nsf/pdf?OpenAgent&id=CP-2023-CMI-01428-1&d=20250825172310101. Accessed 25/08/2025. 3. https://immunisationhandbook.health.gov.au/vaccines/prevenar-20. Accessed 25/08/2025. 4. https://www.health.gov.au/sites/default/files/2025-06/national-immunisation-programschedule.pdf. Accessed 25/08/2025. https://immunisationhandbook.health.gov.au/resources/tables/table-catch-up-schedule-for-pcvsfor-aboriginal-and-torres-strait-islander-children-living-in-nsw-vic-tas-or-act-and-children-from-allstatesterritories-who-do-not-have-risk-conditions-for-pneumococcal-disease-aged. Accessed on 25/08/2025. 6. Korbal P, Wysocki J, Jackowska T, et al. Phase 3 Safety and Immunogenicity Study of a Three-dose Series of Twenty-valent Pneumococcal Conjugate Vaccine in Healthy Infants and Toddlers. Pediatr Infect Dis J. 2024 Jun 1;43(6):587-595. 7. Ishihara Y, Fukazawa M, Enomoto S, et al. A phase 3 randomized study to evaluate safety and immunogenicity of 20-valent pneumococcal conjugate vaccine in healthy Japanese infants. Int J Infect Dis. 2024 Apr; 141:106942. 8. Senders S, Klein NP, Tamimi N, et al. A Phase Three Study of the Safety and Immunogenicity of a Four-dose Series of 20-Valent Pneumococcal Conjugate Vaccine in Healthy Infants. Pediatr Infect Dis J. 2024 Jun 1;43(6):596-603. 9. Martinón-Torres F, Martinez SN, Kline MJ, Drozd J, et al. A phase 3 study of 20-valent pneumococcal conjugate vaccine in healthy toddlers previously vaccinated in infancy with 13-valent pneumococcal conjugate vaccine. Vaccine. 2025 Apr 19; 53:126931. 10. Cannon K, Cardona JF, Yacisin K, et al. Safety and immunogenicity of a 20-valent pneumococcal conjugate vaccine co-administered with quadrivalent influenza vaccine: A phase 3 randomized trial. Vaccine. 2023 Mar 24;41(13):2137-2146. 11. Rozenbaum MH, Huang L, Perdrizet J, et al. Cost-effectiveness of 20-valent pneumococcal conjugate vaccine in US infants. Vaccine. 2024 Jan 25;42(3):573-582 12. Choi YH, Bertran M, Litt DJ, et al Potential impact of replacing the 13-valent pneumococcal conjugate vaccine with 15-valent or 20-valent pneumococcal conjugate vaccine in the 1 + 1 infant schedule in England: a modelling study. Lancet Public Health. 2024 Sep;9(9): e654-e663.

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VERSION/NUMBER	DATE
Original 1.0	4/09/2025

Hajdu G, Hughes T, Ouedraogo GL, et al. Safety of a 4-Dose 20-Valent Pneumococcal Conjugate Vaccine Series in Infants: A Randomized Trial. Pediatrics. 2024 Nov 1;154(5): e2023065218.
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REVIEW

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4/09/2030

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Newborn use only

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