

Clinical Age limits for vaccine usage (not funding related)

ATAGI (Australian Technical Advisory Group on Immunisation) - Recommended

PI (product information)

**Please refer to Variations from Product information found in each specific vaccine preventable disease.*

Act-HIB and Hiberix	For use from ≥ 6 weeks to < 5 years of age: PI For use from ≥ 6 weeks to < 5 years of age and older people with asplenia people who have received an allogeneic or autologous haematopoietic stem cell transplant (ATAGI)
Adacel	For use in ≥ 10 years of age.
ADT	For use in ≥ 10 years of age (primary or booster): ATAGI
Bexsero	From 6 weeks of age: ATAGI
Boostrix	For use in people ≥ 10 years of age ,except in certain circumstances. ATAGI
Engerix -B (paediatric) H-B-Vax (paediatric)	For use from birth to < 20 years of age. See (adult vaccine) for $11 \leq 15$ years of age.
Engerix B (adult) H-B-VaxII (adult)	For use from $11 \leq 15$ years of age. For use from ≥ 20 years of age.
Gardasil	Recommended for males aged > 26 years in high-risk groups, such as men who have sex with men, and people of any age who are immunocompromised. Females aged 9 to < 46 years and males aged 9 to < 27 years: PI
Havrix Junior	For use in people aged $2 \leq 15$ years of age.
Infanrix	For use from 6 weeks to < 10 years of age.
Infanrix -Hexa	For use from 6 weeks to < 10 years of age.
Infanrix-IPV	For use from 6 week < 10 years of age.
IPOL	For use from ≥ 6 weeks of age.
MMRII / Priorix	For use from ≥ 12 months of age. For use from ≥ 6 months of age ATAGI (if travel to highly endemic areas) 2 further doses are required after 11 months of age: ATAGI
Nimenrix	For use from ≥ 6 weeks.
Prevenar13	For use in children aged ≥ 6 weeks and in adults.
Pneumovax 23	For use in children aged ≥ 2 years and in adults.
Priorix-Tetra / Proquad	For use ≥ 12 months < 14 years of age.
Quadracel	For use from ≥ 6 weeks of age to < 10 years: ATAGI
Rotarix	For use in infants ≥ 6 weeks, dose 1 cut off 14 weeks and 6 days. Dose 2 cut off from 24 weeks and 6 days.
Tripacel	For use from ≥ 6 weeks of age to < 10 years: ATAGI
Vaqa (paed)	For use from ≥ 12 months to < 18 years of age.
Varilrix	For use ≥ 9 months: PI (not valid until ≥ 17 months of age)
Varivax	For use in people aged ≥ 12 months: PI (not valid until ≥ 17 months of age)
Zostavax	For use in people aged ≥ 50 years of age.

Catch-Up Immunisations (children under 10yrs of age)

Antigens

Hepatitis B

- Birth dose to be given only in the first 7 days...no catch up afterwards
- Hep B vaccine is commonly missing from UK as was only introduced in 2017

Background Rules:

- o Funded for those <20yrs
- o Refugees eligible for 3 doses
- o Don't forget low birth weight/prems (<32 weeks +/- or <2000 gr) need Hep B @12 months

Intervals

- Monovalent Hep B (ie. HB Vax II) = 1mth between dose 1 and 2, 4-6mths between dose 1 and 3
- Combination Vaccine (ie. Infanrix Hexa) = 1mth between dose 1 and 2, 2mths between dose 2 & 3, with 4 months between dose 1 and dose 3

DTPa (*for use up until age 10 yrs) & IPV

- You need a minimum of 3 doses as a primary course then a booster at 4 years
- If dose 4 of DTPa is received at >3.5 yrs of age, then dose 5 is not required. However, polio dose 4 may be required at 4 years of age.

Background Rules:

- o Funded for those <20yrs
- o Refugees – See Fact Sheet Immunise Australia website

Intervals

- All primary doses can be given 1mth apart
- There must be 6mths between the 3rd primary dose and the 4th booster dose and all subsequent doses.

Haemophilus influenzae B (Hib)

- **ALWAYS Refer to the Hib table in the Australian Immunisation Handbook**
- The child will require a booster (normally dose 4) at *18mths of age *

Background Rules:

- o Catch-Up doses funded until <5yrs of age

Rotavirus - not part of a Catch-up

- **First dose must be administered 6 to 14weeks of age otherwise the child is NOT eligible to receive any further doses.**
- **Second dose to be administered <25 weeks of age.**
- **Please use the Rotarix-Wheel**

Intervals

- Rotarix can be given at 4wk intervals if needed.

Catch-Up Immunisations (children under 10yrs of age) cont.

Pneumococcal

- Always use the pneumococcal table in the Australian Immunisation Handbook. (Please note 2 different tables so check correct table usage carefully)

Background Rules:

- o Catch-Up until 59mths of age
- o A child previously vaccinated with any vaccine other than Prevenar 13 (e.g. Prev 7 or 10) will not require a booster of the Prevenar 13.
- o Don't forget Aboriginal and Torres Strait islanders, medically at risk, and born at <28weeks require dose 3 of Prevenar 13 at 6 months of age, and Pneumovax 23 at 4 and 5 years later.

Intervals

- If under 12 months of age, min intervals between doses is 1 month,
- If over 12 months of age, 2 months min interval between doses is required and dose 3

Meningococcal B

- Free only for Aboriginal and Torres Strait Islander children under 2 years of age, and those with specific medical conditions (refer to handbook for same).
- ATSI with medical risk factors for IMD require an extra dose @ 6 months of age.
- Recommended for all children
- Prophylactic Paracetamol recommended for those under 2 years of age.

Background Rules:

- o Aboriginal and Torres Strait Islander children who missed a routine Meningococcal B vaccine can get a free catch up to the age of 2 until 30/06/2023

Intervals

- If commenced under 12 months: 2 vaccines at a minimum of 2 month interval with a booster 2nd year of life (from 12 months of age)
- If commenced 12 months or older: 2 vaccines min 2 months apart

Measles, Mumps, Rubella

- 2 doses required
- Ensure dose 1 in children less than 4 yrs is ALWAYS Priorix/MMRII (MMR)
- not PriorixTetra/ProQuad (MMRV)
- If a child was given any of these antigens as a monovalent vaccine (e.g. measles only) it will need to be readministered with a combination vaccine ie. Priorix/MMRII.

Background Rules:

- o Minimum age accepted is 11mths.
- o If a child was given MMR <10mths AIR will accept the record, but child still needs to have 2 further MMR doses age 11mths and over.
- o Qld Health fund the vaccine for those persons born during or since 1966 who have not received 2 doses.
- o Priorix Tetra and Proquad vaccine are only to be used in those under 14 years of age
- o 4wks minimum interval between doses 1 and dose 2

Catch-Up Immunisations (children under 10yrs of age) cont.

Meningococcal ACWY

- 1 dose is required at 12mths

Background Rules:

- o Minimum age acceptance is 11mths of age and at least 2mths after the last primary dose of Men ACWY if purchased privately.
- o If from overseas on a reduced schedule (eg a 2, 4, and 6 month schedule), a Meningococcal vaccine will be required if given under 12 months of age, irrelevant to the number of prior doses)

Varicella

- 1 dose is required for those under 14 years old

Background Rules:

- o Minimum age accepted is 12 months
- o When using MMRV the child **MUST** have previously received the MMR vaccine if < 4 yrs old.
- o This vaccine is not required if the child has a significant dose of the wild virus, please ensure that a medical exemption form is completed, or a note made on the consent form to do so.

Hepatitis A

- 2 doses required 6 months apart

Background Rules:

- o Only Aboriginal and Torres Strait Islander children eligible to receive for free
- o Funding is until 10yrs of age
- o 1st dose now recommended at 18mths of age
- o 2nd dose @4 years

Influenza

- 2 doses are required for a child 6mths to less than 9yrs in the first year if they have never received an influenza vaccine before
- Yearly vaccine encouraged

Low Birth Weight and Prem Babies

Pneumococcal

- **All preterm infants born at <28wks gestation** should receive 4 doses of Prevenar 13. The at 2,4,6 and 12 months
- A **single booster** dose of **Pnuemovax 23** is also required at **4-5yrs of age**, a further dose may be required 5 years later.

Hepatitis B

- Low birth weight babies **<2000g** and / or infants born **<32wks gestation** (irrespective of weight) should receive an **additional dose of Hep B at 12mths of age.**

Catch-Up Immunisations (children under 10yrs of age) cont.

Using Catch-Up Sheets

- Record client's details: name, DOB etc noting current age, and circle any relevant headings e.g. medical condition on the top of the catch up worksheet.
- Please record dates of previous vaccination on the left side of the form, corresponding to each dose number. These dates can be used for updating the child's records in AIR, and checking if doses are valid.
- If an invalid vaccine is given, the antigen cannot be repeated until the min interval is reached between the invalid (last) dose and the due antigen.
- Complete the following column (Total vaccines required at current age box). This information can be found in the catch-up resources table "Minimum acceptable dose intervals for children <10 years of age": <https://immunisationhandbook.health.gov.au/resources/tables/table-minimum-acceptable-dose-intervals-for-children>
- For Prevenar and HIB refer to specific tables:
 - "Catch-up schedule for haemophilus influenzae type b hib vaccination for children <5 years of age": <https://immunisationhandbook.health.gov.au/resources/tables/table-catch-up-schedule-for-haemophilus-influenzae-type-b-hib-vaccination-for-children>
 - "Catch-up schedule for 13vpcv for Aboriginal and Torres Strait Islander children living in NT, QLD, SA or WA only and children from all states/territories with any medical conditions for pneumococcal disease aged <5": <https://immunisationhandbook.health.gov.au/resources/tables/table-catch-up-schedule-for-13vpcv-for-aboriginal-and-torres-strait-islander-children-living-in-nt-ql-d-sa-or-wa-only-and-children-from-all-state-territories-with-any-medical-conditions-for-pneumococcal-disease-aged>
 - "Catch-up schedule for 13vpcv for Aboriginal and Torres Strait Islander children living in NSW, VIC, TAS or ACT and children from all states/territories who do not have risk conditions for pneumococcal disease aged <5 years": <https://immunisationhandbook.health.gov.au/resources/tables/table-catch-up-schedule-for-13vpcv-for-aboriginal-and-torres-strait-islander-children-living-in-nsw-vic-tas-or-act-and-children-from-all-state-territories-who-do-not-have-risk-conditions-for-pneumococcal-disease-aged>
- Subtract the number of a particular antigen given (history) from the number of the vaccine due at current age to complete the next column (number of doses now for this catch up). When working out required vaccines, this section should be calculated to catch the child up to the age they present, ie. *If a child is 7mths with no previous vaccination history, the schedule requires 4 doses of DTPa-IPV but only 3 doses are required by 7mths.*
- Map out scheduled visits indicating the intervals at the top e.g. today, 2 months, 1 month (timeframe from previous visit) the record vaccines to be done at each visit. Adhering to timeframes.
"Minimum acceptable dose intervals for children <10": <https://immunisationhandbook.health.gov.au/resources/tables/table-minimum-acceptable-dose-intervals-for-children>
- Record on the form date vaccines were administered. Ensure record of vaccines provided and advised of the return date.
- In certain circumstances it might be an idea to bring the child back later for vaccines to reduce the number of visits.
For example; bringing them back later for the DTPa-IPV (which can be given 1mth apart) so that you can combine it with the Hep B or Hib which may need to be 2mths apart.

Catch-Up Immunisations (children over 10yrs of age)

Antigens

Hepatitis B

- 11≤15 years of age: 2 adult Hep B required 6 months apart (Engerix- B)
4 months apart for (H-B-Vax II)
- 10<11 years of age: 3 paediatric Hep B required, 1 month min interval dose 1 to dose 2,
4 to 6 months between dose 1 and dose 3.
- 16< 20 years of age: 3 paediatric Hep B required, 1 month min interval dose 1 to dose 2,
4 to 6 months between dose 1 and dose 3.
- 20 years of age +: 3 Adult Hep B required, 1 month min interval dose 1 to dose 2,
4 to 6 months between dose 1 and dose 3.

Background Rules:

- o Funded for those <20yrs of age.
- o Free for refugees and other humanitarians aged 20 and over.
- o Rapid course available if required refer to handbook for same. o Funded for household and sexual and injecting drug use contacts of people with acute or chronic hepatitis (QLD Health).

Diphtheria, Tetanus, Pertussis

- 3 doses as a primary course at a min of 1month intervals.
- People should receive 1 of the doses as a dTpa-containing vaccine and complete the course with dT. This dose would also provide the catch-up dose for pertussis. If dT is not available, use dTpa for all 3 primary doses.
- People ≥10 years of age who did not receive all the pertussis vaccine doses recommended before the age of 10 years only need 1 dose to be considered up to date. This is regardless of the number of previous doses they received before the age of 10 years.
- Offered in Year 7, if missed free to catch up until 20 years of age.
- Pertussis vaccine free for women during every pregnancy (ideally 20-32 weeks).

Background Rules:

- o Funded for those <20yrs of age.
- o Free for refugees and other humanitarians aged 20 and over.

Polio

- 3 doses as a primary course min of 1month intervals

Background Rules:

- o Funded for those <20yrs
- o Free for refugees and other humanitarians aged 20 and over

Catch-Up Immunisations (children over 10yrs of age) cont.

Human Papilloma Virus (HPV)

- One single dose of HPV for those 25 and under
- 3 doses for those over 26 years of age (2 month interval dose 1-2, 4 months interval dose 2-3)
- Immunocompromised: 3 dose schedule, regardless of age(excludes asplenia – 1 dose only).
- Recommended for all age for men that have sex with men

Measles, Mumps, Rubella

- 2 doses required,
- If a client was given any of these antigens as a monovalent vaccine eg measles only, it will need to be readministered with a combination vaccine ie. Priorix/MMRII.
- Qld Health fund the vaccine for those persons born during or since 1966 who have not received 2 doses.
- 4 weeks minimum interval dose 1 and dose 2
- Ensure women are not pregnant when having the vaccine and avoid same for at least 4 weeks after the vaccine.
- Given on same day as other live vaccines or a minimum interval of 1 month between live vaccines.
- Not to be given if immunocompromised (for discussion with DR)

Background Rules:

- o Minimum age accepted is 11mths of age.
- o If a child was given MMR <11mths AIR will accept the record, but child still needs to have 2 further MMR doses age >11mths and over.
- o Priorix Tetra and Proquad vaccine are only to be used in those <14 years of age. o ≥14 years give separate MMR and Varicella vaccines (can be given on the same day).
- o 4wks minimum interval between doses 1 and 2
- o Free for refugees and other humanitarians aged 20 and over.
- o Qld Health fund the vaccine for those persons born during or since 1966 who have not received 2 doses.

Meningococcal

- 1 vaccine required of Men ACWY
- Men B indicated for those with an increased risk of meningococcal disease (refer to handbook)

Background Rules:

- o Men ACWY to be given ≥ 14 of age to be accepted as adolescent dose.
- o Catch up funded of Men ACWY until 20 years of age.
- o Men B free for some medical conditions but recommended at a cost for others (refer to handbook)

Pneumococcal

- Aboriginal and Torres Strait Islander adults aged 50 and over should receive 1 dose of Prevenar 13 followed by pneumovax 23, 1 year later.
- Non-Indigenous adults aged 70 and over require a single dose of Prevenar 13.
- Recommended for those with a diagnosed medical risk factor for invasive pneumococcal disease (refer to handbook).

Background Rules:

- o Pneumovax 23 interval is 2 - 12 months after Prevenar 13.
- o Second dose of Pneumovax 23 at least 5 years after previous dose (max of 2 doses).

Catch-Up Immunisations (children over 10yrs of age) cont.

Varicella

- 1 dose is required <14 of age.
- 2 doses if commenced ≥14 years of age.
- MMRV is not recommended for use in people ≥14 years of age. Children 14 and over cannot receive the MMRV vaccine only MMR and Varicella separately.
- Give on same day as other live vaccines or a minimum interval of 1 month between live vaccines
- Live vaccine, therefore not to be used in pregnancy or not to become pregnant for a minimum of 1 month post vaccine.
- Not to be given if immunocompromised (for discussion with DR).

Background Rules:

o Minimum age accepted is 17mths of age.

o Catch up funded until 20 years of age.

o Free for refugees and other humanitarians aged 20 and over.

o The vaccine is not required if the client has had a significant dose of wild virus diagnosed, please ensure a medical exemption form is completed on AIR.

Zoster

- Zostavax will continue to be free for those aged 70 to 79 until 31 October 2023
- People should be assessed by the live Zostavax screening for Contradiction's tool (link in the handbook)

Background Rules:

o Shingrix: 2 doses if aged ≥50 years 2 -6 months apart (privately)

- Shingrix is the preferred vaccine for people aged over 50 years

- Shingrix is the only approved vaccine for immunocompromised people aged 18-49 years

o Zostavax 1 dose if aged ≥50 years (privately)

Catch-up resources ≥ 10 years of age

- <https://immunisationhandbook.health.gov.au/resources/tables/table-catch-up-schedule-for-people-10-years-of-age-for-vaccines-recommended-on-a-population-level>
- <https://immunisationhandbook.health.gov.au/resources/tables/list-specified-medical-conditions-associated-with-increased-risk-of-invasive-meningococcal-disease>
- <https://immunisationhandbook.health.gov.au/resources/tables/table-recommendations-for-menb-vaccine-for-people-with-a-specified-medical-condition-that-increases-their-risk-of-invasive-meningococcal-disease>
- <https://immunisationhandbook.health.gov.au/resources/publications/catch-up-vaccination-for-adolescents-and-adults>