







Catch-up vaccination

Catch-up vaccination aims to provide optimal protection against disease as quickly as possible by completing a person's recommended vaccination schedule in the shortest but most effective time frame.

Take every opportunity to review a person's vaccination history

- Give them appropriate vaccinations as needed by:
 - Planning and documenting the recommended catch up schedule
 - Discuss the schedule with the person to be vaccinated or their parent/carer
- Assess vaccination status based on the National Immunisation Program + NSW Schedule

Expand all / Collapse all

Assessing immunisation status







Principles of catch-up vaccination

Catch-up resources

Using the catch-up worksheet for children aged <10 years 🔷 🗸

Catch-up guidelines for individual vaccines for children aged <10 years

Catch-up schedules for people aged ≥10 years

References



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Assessing immunisation status

Confirming a person's vaccination history

Written documentation of vaccination is important to assess a person's vaccination status. Make every effort to confirm previous vaccination and obtain documentation.

How immunisation service providers manage inadequate records should be based on:

- the age of the person being vaccinated
- whether they received previous vaccines in Australia or overseas
- the vaccines being considered for catch-up







- Personal Health Record e.g Blue Book
- > AIR
- > GP records
- > Overseas vaccination records (translated)
- Public Health Unit (High School Vaccination Program)
- Hospital Staff Health
- > HPV Register all transferred to AIR as of 1/11/2018
- Q Fever Register



Note the Department of Social Services provides a free document translating service for Australian citizens and new migrants settling permanently in Australia. Within the first two years of arriving in Australia, eligible individuals can have key personal documents (including vaccination records) translated into English, free of charge, to assist with settlement into the community. The Free Translating Service is available on the Department of Social Services website.

| Australian Government Department of Social Services | About this service | Start an application | Contact us | Change language English |
|---|--------------------|----------------------|------------|-------------------------|
| https://translating.dss.ge Welcome to the | ov.au/en | | | |
| Free | | | | |
| Translati | ng | | | |
| Service | | | | |
| This service allows holders of certain get key personal documents translate | | | | |
| Start an application | | | | |



Why make "every effort"??

Scenario

- Contacted by a GP in March 2017 to provide a catch up vaccination schedule for an unvaccinated 22m old
- > Mother stated child had never received any vaccinations
- Catch up schedule prepared:

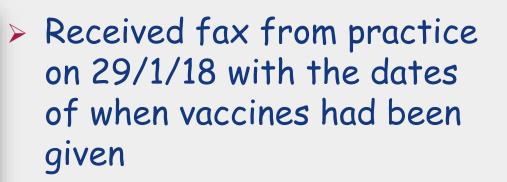


| Catch up visit 1 | | | | | | | | | |
|------------------------|--|--------------------------|----------|--|--|--|--|--|--|
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | | | | | | |
| | Diphtheria, Tetanus, Pertussis, Hib, Polio, Hep B | Infanrix hexa | 1 | | | | | | |
| New | Pneumococcal | Prevenar13 | 1 | | | | | | |
| Now | Measles, Mumps, Rubella | MMR II or Priorix | 1 | | | | | | |
| | Meningococcal C | NeisVac C | 1 | | | | | | |
| Catch up visit 2 | Catch up visit 2 | | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | | | | | | |
| 4 weeks after V1 | Diphtheria, Tetanus, Pertussis, Hib, Polio, Hep B | Infanrix hexa | 2 | | | | | | |
| 4 Weeks alter VI | Measles, Mumps, Rubella, Varicella | Priorix tetra or Proquad | 2 | | | | | | |
| Catch up visit 3 | Catch up visit 3 | | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | | | | | | |
| 3 months after V2 | Diphtheria, Tetanus, Pertussis, Hib, Polio, Hep B | Infanrix hexa | 3 | | | | | | |
| Catch up visit 4 | 4 | | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | | | | | | |
| 6 months after V3 | Diphtheria, Tetanus, Pertussis | Infanrix | 4 | | | | | | |





| Catch up visit 1 | | | | | | | | |
|---------------------|--|--------------------------|----------|----------------------|--|--|--|--|
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | Alternative/Comments | | | | |
| | Diphtheria, Tetanus, Pertussis, Hib, Polio, Hep B | Infanrix hexa | 1 | 24.4.17 | | | | |
| Now | Pneumococcal | Prevenar13 | 1 | 21.8.17 | | | | |
| NOW | Measles, Mumps, Rubella | MMR II or Priorix | 1 | 25.9.17 | | | | |
| | Meningococcal C | NeisVac C | 1 | 5.11.17 | | | | |
| Catch up visit 2 | | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | Alternative/Comments | | | | |
| 4 weeks after V1 | Diphtheria, Tetanus, Pertussis, Hib, Polio, Hep B | Infanrix hexa | 2 | 29.5.17 | | | | |
| 4 weeks alter vi | Measles, Mumps, Rubella, Varicella | Priorix tetra or Proquad | 2 | 29.1.18 | | | | |
| Catch up visit 3 | | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | Alternative/Comments | | | | |
| 3 months after V2 | Diphtheria, Tetanus, Pertussis, Hib, Polio, Hep B | Infanrix hexa | 3 | 3.7.17 | | | | |
| Catch up visit 4 | | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | Alternative/Comments | | | | |
| 6 months after V3 | Diphtheria, Tetanus, Pertussis | Infanrix | 4 | 14.7.17 | | | | |



- On checking AIR to see if this was actually true discovered:
 - Infanrix IPV and PCV13 given 4/2/16
 - Infanrix IPV, PCV13 given 31/3/16



| | Valid Vaccine Doses | | | | | | | |
|---------|---------------------|----------|------------------|--|--|--|--|--|
| Date | Antigen | Dose No. | Provider | | | | | |
| 4/2/16 | DTPa, Polio | 1 | Medical Centre 1 | | | | | |
| 4/2/10 | PCV13 | 1 | Medical Centre 1 | | | | | |
| 31/3/16 | DTPa, Polio | 2 | Medical Centre 1 | | | | | |
| 51/5/10 | PCV13 | 2 | Medical Centre 1 | | | | | |
| | DTPa, Polio | 3 | Medical Centre 2 | | | | | |
| 24/4/17 | НВV | 1 | Medical Centre 2 | | | | | |
| | Hib | 1 | Medical Centre 2 | | | | | |
| 29/5/17 | HBV | 2 | Medical Centre 2 | | | | | |
| 25/5/17 | Hib | 2 | Medical Centre 2 | | | | | |
| 21/8/17 | PCV13 | 3 | Medical Centre 2 | | | | | |
| 25/9/17 | MMR | 1 | Medical Centre 2 | | | | | |
| 5/11/17 | MenC, Hib | 1&3 | Medical Centre 2 | | | | | |
| 29/1/18 | MMRV | 2 | Medical Centre 2 | | | | | |

At time of second contact child was 2 years old

Still required D3
 Hepatitis B and D4
 Infanrix to be UTD

Continue with routine schedule at 4 years



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Lessons learned...

- ALWAYS check AIR or school records even if parent says they haven't been vaccinated
- > NEVER change the intervals to shorter than recommended minimum
- If intervals change due to parental preference, check timing or contact PHU for assistance







Incomplete documentation of previous vaccination

If previous vaccination cannot be confirmed, assume that the person has not received the vaccine(s) they need.

For most vaccines (except Q fever), there are no adverse events associated with additional doses in people who are already immune.

Injection site reactions may increase after frequent additional doses of:

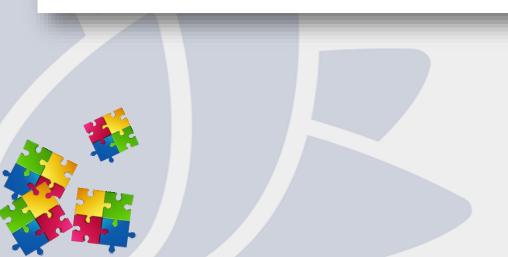
- diphtheria-containing vaccines
- pertussis-containing vaccines
- tetanus-containing vaccines
- pneumococcal polysaccharide vaccines



However, in most cases, the benefits of protection from the vaccine will outweigh the risk of an adverse reaction.

Significant adverse events are rarely associated with additional (potentially repeated) doses of:

- MMR (measles-mumps-rubella) vaccine
- VV (varicella vaccine)
- IPV (inactivated poliovirus) vaccine
- hepatitis B vaccine







What about serology?

Laboratory testing to guide catch-up vaccination



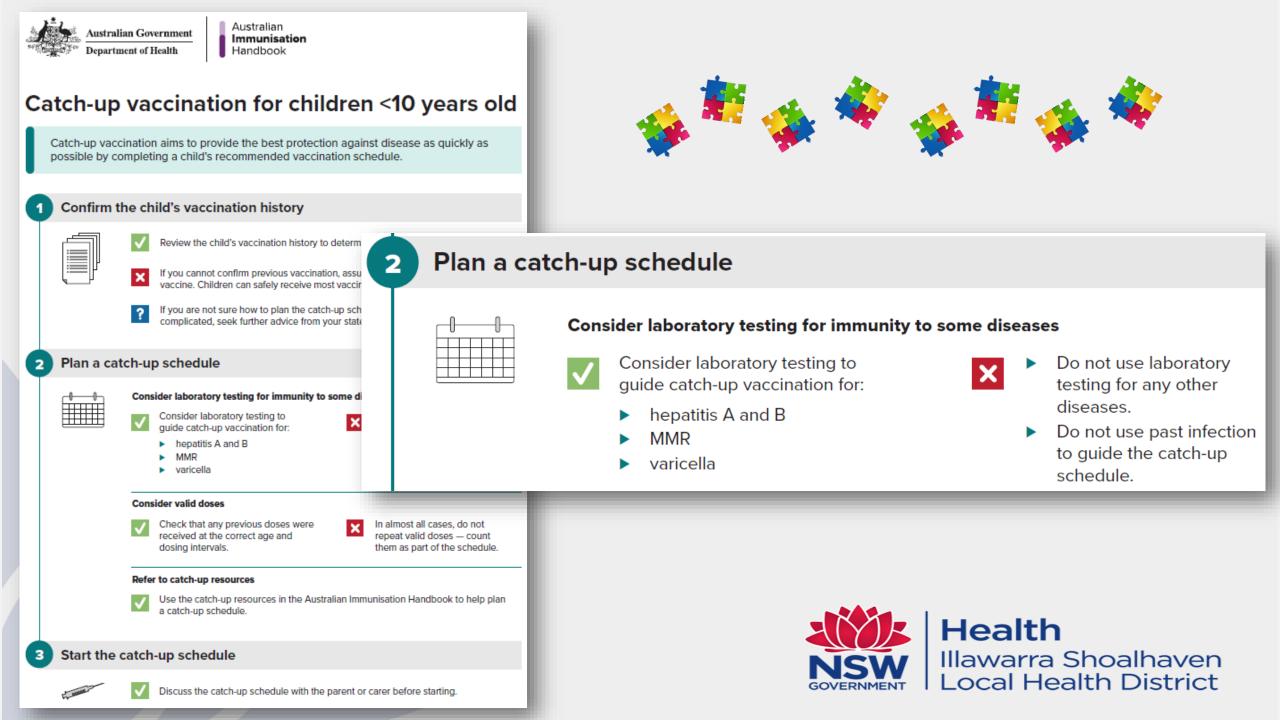
In some cases, laboratory testing can determine whether the person has immunity from previous vaccination or <u>infection</u>, and may be useful to guide the need for catch-up vaccination.



Laboratory testing to determine immunity as a result of previous vaccination or <u>infection</u> is only reliable for certain diseases:

- hepatitis A
- hepatitis B
- measles
- mumps
- rubella
- varicella (but does not always detect vaccine-induced immunity)







Principles of catch-up vaccination



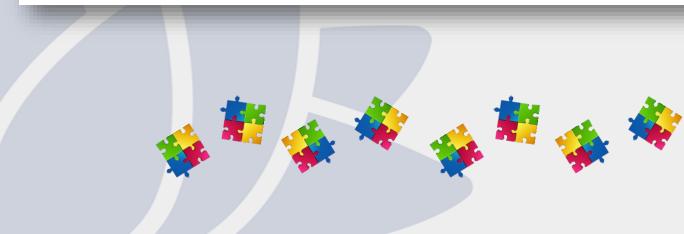
Apply these principles when planning catch-up vaccination:

- The scheduled interval between doses may be shorter or longer than the standard interval, and the number of doses needed may decrease with age at starting vaccination. For example, if starting vaccination against *Haemophilus influenzae* type b at 15 months of age, children need only 1 dose of (any) Hib (*Haemophilus influenzae* type b) vaccine.
- As a child gets older, the recommended number of vaccine doses may change, or the child may not need any doses. This is because they become less vulnerable to specific diseases as they get older.



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- For incomplete or overdue vaccinations, always build a catch-up schedule based on the previous documented doses the person has received. In almost all cases, do not start the schedule again, regardless of the interval since the last dose. Count previous doses as part of the schedule. One exception to this rule is for oral cholera vaccine (see <u>Cholera</u>).
- If more than 1 vaccine is overdue, give 1 dose of each due or overdue vaccine at the first catch-up visit. Do not defer due or overdue vaccines (see <u>Giving multiple vaccine injections</u> <u>at the same visit</u> in <u>Administration of vaccines</u>). Schedule further required doses after the appropriate <u>minimum interval</u> (see <u>Table. Minimum acceptable dose intervals for children</u> <u><10 years of age</u>).





Catch-up resources

- online catch-up calculator ☑
- World Health Organization online list of overseas immunisation schedules
- <u>catch-up worksheet for children <10 years of age</u>
- <u>Table. Minimum acceptable age for the 1st dose of scheduled vaccines in infants in special</u>
 <u>circumstances</u>
- Table. Number of vaccine doses the child should have received by their current age
- Table. Minimum acceptable dose intervals for children <10 years of age
- <u>Table. Catch-up schedule for *Haemophilus influenzae* type b (Hib) vaccination for children
 <5 years of age
 </u>
- <u>Table. Catch-up schedule for 13vPCV for Aboriginal and Torres Strait Islander children living</u> in NT, Qld, SA or WA ONLY, and all children with any medical condition(s) associated with an increased risk of invasive pneumococcal disease, aged <5 years
- <u>Table. Catch-up schedule for 13vPCV for Aboriginal and Torres Strait Islander children living</u> in NSW, Vic, Tas or ACT, and all children who do not have medical condition(s) associated with an increased risk of invasive pneumococcal disease, aged <5 years
- Table. Catch-up schedule for people ≥10 years of age (for vaccines recommended on a population level)









Resource. Catch-up worksheet for children <10 years of age for National Immunisation Program vaccines

| Catch-up works | heet | | | | | |
|---------------------|---|--|------------------------|-------------------------------------|----------|--|
| Name: | | Date of t | his assessment: | | | |
| Date of birth: | | | | | | |
| Age at this asses | sment: | | | | | |
| Vaccine | Last dose given (dose number and date) | Number of doses needed at current age | Dose number due now | Further doses (interval or date) | Comments | |
| DTPa | | | | | | |
| Poliovirus (IPV) | | | | | | |
| Hepatitis A | | | | | | |
| Hepatitis B | | | | | | |



Table. Minimum acceptable age for the 1st dose of scheduled vaccines in infants in special circumstances

| Vaccine | Minimum age for 1st dose in special circumstances | Action if a vaccine dose is inadvertently given before the recommended minimum age ² |
|--|---|---|
| DTPa | 6 weeks | If a child received their 1st dose of DTPa-containing vaccine between >28 days and <42 days (6 weeks) of age, it does not necessarily need to be repeated. Limited data suggest that receiving the vaccine at this age will still be safe and immunogenic. Follow the National Immunisation Program schedule for future doses, with the next dose of DTPa-containing vaccine given at 4 months of age. If a child received their 1st dose of DTPa-containing vaccine at ≤28 days of age, it is recommended that the dose is repeated. This repeat dose should ideally be given at 2 months of age. Follow the National Immunisation Program schedule for future doses, with the next dose of DTPa-containing vaccine at ≤28 days of age, it is recommended that the dose is repeated. This repeat dose should ideally be given at 2 months of age. Follow the National Immunisation Program schedule for future doses, with the next dose of DTPa-containing |
| Hepatitis A (Aboriginal and Torres Strait Islande children in NT, Qld, SA and <u>WA</u> only) | r 12 months | If a child receives their 1st dose of hepatitis A vaccine at <12 months of age, and they need ongoing protection against hepatitis A, repeat the |



Table. Number of vaccine doses the child should have received by their current age

| Vaccine | Child aged 0 to <2 months | Child aged 2 to <4 months | Child aged 4 to <6 months | Child aged 6 to <12 months | Child aged 12– 18 months | Child aged >18 months to <4 years | Child aged 4 years to <10 years |
|--|--|---------------------------------|---------------------------------|----------------------------------|--------------------------------|--|--|
| DTPa | 0 | 1 | 2 | 3 | 3 | 4 | 5 (unless dose 4 received at >3.5 years of age, then dose 5 is not needed) |
| Hepatitis A (Aboriginal and Torres Strait Islander children living in NT, Qld, SA and <u>WA</u> only) | 0 | 0 | 0 | 0 | 1 | 2 (contact state or territory health authorities for advice about catch-up in children >2 years of age) | 2 (contact state or territory health authorities for advice about catch-up in children >2 years of age) |
| Hepatitis B | 0 (birth dose is recommended but no need to catch up if missed) | 1 | 2 | 3 | 3 | 3 | 3 |





Table. Minimum acceptable dose intervals for children <10 years of

age

These are not the routinely recommended intervals between vaccine doses. These minimum intervals are only to be used for catch-up vaccination. Catch-up using a <u>combination vaccine</u> must meet the minimum intervals for all antigens.

| Vaccine | Minimum interval between doses 1 and 2 | Minimum interval between doses 2 and 3 | Minimum interval between doses 3 and 4 | Minimum interval between doses 4 and 5 |
|---|---|---|---|---|
| DTPa | 4 weeks | 4 weeks | 6 months | 6 months (unless dose 4 received at >3.5 years of age, then dose 5 is not needed) |
| Hepatitis A (Aboriginal and Torres Strait Islander children living in NT, Qld, SA and <u>WA</u> only) | 6 months | na | na | na |
| Hepatitis B (excluding birth dose) | 1 month | 2 months | na | na |
| MMR | 4 weeks | na | na | na |



Table. Catch-up schedule for Haemophilus influenzae type b (Hib) vaccination for children <5 years of age

This table assumes that the minimum interval between doses has been met.



| Number | Current | Age at 1st | Age at | Age at | Number | Number of booster |
|------------|---------|------------|----------|----------|------------|-----------------------|
| of Hib | age | dose of | 2nd dose | 3rd dose | of further | doses needed at age |
| doses | | Hib | of Hib | of Hib | primary | ≥ 18 months, or 2 |
| received | | vaccine | vaccine | vaccine | dose(s) | months after the last |
| previously | | | | | needed | dose (whichever is |
| | | | | | | later) |
| None | < 7 | na | na | na | 3 | 1 |
| | months | | | | | |
| | 7– 11 | na | na | na | 2 | 1 |
| | months | | | | | |
| | 12– 17 | na | na | na | 1 | 1 |
| | months | | | | | |
| | 18– 59 | na | na | na | 1 | na |
| | months | | | | | |
| 1 | < 12 | < 7 | na | na | 2 | 1 |
| | months | Months | | | | |
| | < 12 | 7– 11 | na | na | 1 | 1 |
| | months | months | | | | |
| | 12– 17 | < 12 | na | na | 1 | 1 |
| | months | months | | | | |
| | 12- 17 | ≥ 12 | na | na | na | 1 |
| | months | months | | | | |
| | | | | | | |









Table. Catch-up schedule for 13vPCV for Aboriginal and Torres Strait Islander children living in NSW, Vic, Tas or ACT, and all children who do not have medical condition(s) associated with an increased risk of invasive pneumococcal disease, aged <5 years

| | Number of doses received previously | Age at presentation | Age at 1st dose of PCV | Age at 2nd dose of PCV | Age at 3rd dose of PCV | Number of further dose(s) required |
|--|-------------------------------------|------------------------|---------------------------|---------------------------|---------------------------|---------------------------------------|
| | None | <12 months | na | na | na | 3 |
| | | 12–59 months | na | na | na | 1 |
| | 1 | <12 months | <12 months | na | na | 2 |
| | | 12–59 months | <12 months | na | na | 1 |
| | | 12–59 months | ≥12 months | na | na | None |
| | 2 | <12 months | <12 months | <12 months | na | 1 |
| | | 12–59 months | <12 months | <12 months | na | 1 |

Challenges / Obstacles

- Parental beliefs/concerns about overloading
- Previous AEFI or sibling/parent AEFI
- Access to services
- > Unwell child or sibling or parent
- Misinformation
- > Apathy





| able 2: GP/Practice Nurse catch-up vac | | | <u>ons</u> : Use this f below, workir | | | ble 1. Complete all s. | | Health |
|---|--|---------------------------------|--|--|--|--|------------------|---|
| ontact Person: | | lf you wo 4221 670 | - | calculations cl | hecked please | e fax this form to: | NSW | Illawarra Shoalhaven |
| n: Fax: | | | | | | | OOVERNMENT | 1 Local Health District |
| ATIENT'S NAME: | | юв: _/_/ | Current | age: (ye | ears) | (months) (weeks) MB | EDICARE NO | : (_ |
| Today's Date: Vaccine Antigens | Date(s) all doses given (complete <u>all</u> relevant dates) | Age when dose was given** | No. <u>VALID</u> ** doses given (circle one) | No. doses required at current age (see Table 1) | No. further doses required (circle one) | Australian NIP vaccine formu catch-up in children <10 yea | | CATCH-UP PLAN Check minimum dose intervals between each dose as per Table |
| Diphtheria Tetanus Pertussis (DT only vaccines are not valid for the purposes of determining catch-up) | | | None One Two Three Four Five | One Two Three Four Five | None One Two Three Four Five | Choose the vaccine with the amount of additional antiger DTPa containing vaccines Infanrix Hexa (DTPa + Po HepB) | ns. | Give all the vaccines that are due now – do not defer. Visit 1 give now: |
| Poliomyelitis (IPV or OPV) Booster dose recommended at 4 years of age. If the 4 th dose was given before 3.5 years of age, it should be repeated. | | | None One Two Three Four Five | One Two Three Four | None One Two Three Four | Infanrix/Tripacel (DTPa o Infanrix IPV (DTPa + Polic Quadracel (DTPa + Polio) <u>NB</u>: Boostrix and Adacel branc registered for use ≤10 yrs of a | o) ds are not | Visit 2 (Minmonths later) giv |
| Hepatitis B Administered overseas?*: yes / no | Birth: | N/A | (exl. birth dose) None One Two Three | One Two Three | None One Two Three | MMR combination vaccines MMRII or Priorix (MMR of Priorix Tetra or Proquad not for dose 1 MMR | | |
| MMR (NOT including measles only vaccine) | | | None One Two | None One Two | None One Two | <u>NB</u> : MMRV brands are not reg use ≥14 yrs of age. | gistered for | Visit 3 (Minmonths later) g |
| Meningococcal C (MenCCV/4vMenCV) <u>Conjugate only</u> . Polysaccharide (4vMenPV) vaccine is not counted as a valid dose. | | | None One Two Three | None One | None One | Meningococcal vaccines Nimenrix* (4cMenCV) Menitorix (MenCCV+Hib) catch-up only if Act-HIB u | | |
| Varicella | | | None One Two | None One | None One | <u>NB</u> : * This is the only funded 4 for catch-up in <10 yrs of age. | 1vMenCV | |
| Haemophilus Influenzae (Hib) (Only required if < 5 years old) | | | None One Two Three Four | See Handbook Table 2.1.8 | None One Two Three | Monovalent vaccines • Engerix-B or H-B-VaxII pa formulations (Hep B only • Varivax or Varilrix (varice | /) | Visit 4 (Minmonths later) gi |
| Pneumococcal (PCV) (Only required if < 5 years old – unless underlying medical risks) | | | None One Two Three Four | See Handbook Table 2.1.9 and 2.1.11 | None One Two Three | IPOL (Polio only) Prevenar 13 (PCV only) Act-HIB (Hib only) | | |

* Monovalent Hep B vaccine at birth, 1-2 months and 6-18 months of age is an acceptable alternative overseas Hep B schedule.

**Ensure minimum intervals have been observed as per Table 1.

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Calculating catch-up vaccination requirements for <10 year olds.

Table 1 sets out the vaccines which are recommended for children under 10 years of age and the doses required for their current age. Use Table 1 in conjunction with *Table 2: GP/Practice Nurse catch-up vaccination plan* to calculate what vaccines are required.

Table 1: Standard Vaccination Catch-up Recommendations for children aged <10 years.

(adapted from The Australian Immunisation Handbook 10th edition [updated online])

| Vaccine | Current age | | | | | | | | | | | |
|---|--|---------|----------|-------------|---------------------------------|---|---------------------------------|---|---|---|---|---|
| | 6 weeks | 4 to <6 | 6 to <12 | 12 to 18 | | ionths years | - | ars to years | | | | |
| | to <4 months | months | months | months | Born before 1 Oct 2014 | Born after ¹ 1 Oct 2014 | Born before 1 Oct 2014 | Born after ¹ 1 Oct 2014 | Minimum dose interval between dose 1 and 2 | Minimum dose interval between dose 2 and 3 | Minimum dose interval between dose 3 and 4 | Minimum dose interval between dose 4 and 5 |
| | | 1 | Do | ses require | d | | | | uose I anu Z | 4050 2 414 5 | | 4050 4 4114 5 |
| DTPa | 1 | 2 | 3 | 3 | 3 | 4 | 4 ² | 5 | 4 weeks | 4 weeks | 6 months | 6 months |
| Poliomyelitis (IPV) | 1 | 2 | 3 | 3 | 3 | 3 | 4 ³ | 4 ³ | 4 weeks | 4 weeks | 4 weeks | Not required |
| Hepatitis B ⁴ (excl. birth dose) | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 1 month⁵ | 2 - 3 months⁵ | Not required | Not required |
| MMR ⁶ | If given at <11 months of age the 1 st dose should be repeated at 12 months of age. | | | 1 | 2 | 2 | 2 | 2 | 4 weeks | Not required | Not required | Not required |
| MenCCV/4vMenCV | If given at <11 months of age a booster dose is required at 12 months of age or 8 weeks after last dose, whichever is later. | | | 1 | 1 | 1 | 1 | 1 | Not required | Not required | Not required | Not required |
| Varicella ⁶ | If given at <12 months of age, the dose shour repeated, preferably at 18 months of age. | | | ld be | 1 | 1 | 1 | 1 | Not required | Not required | Not required | Not required |
| Rotavirus | Age limits apply - see Handbook Table 4.17.1 | | | | | | | | | | | |
| Haemophilus influenza type B (Hib) — No catch-up > 5 years. | See Hallubook Table 2.1.0 for this catch-up schedule | | | | | Recommended interval between primary doses is 4 weeks. Booster doses are given >18 months or 8 weeks after the last dose, whichever is later. | | | | | | |
| Pneumococcal (PCV) - No catch-up > 5 years for healthy kids. | See Handbook Table 2.1.9 & 2.1.11 for PCV catch-up schedule ⁷ | | | | | Recommended interval between doses is 4 weeks if aged <12 months and 8 weeks if ≥12 months. | | | | | | |

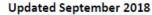
¹ All children born after 1 October 2014 are required to have had an 18 month booster dose of DTPa vaccine.

² Some children may have received 4 doses of DTPa by 18 months of age, especially if arrived from overseas. These children will require a 5th dose of DTPa after 4 years of age.

³ A booster dose of IPV is recommended at 4 years of age. If the 4th dose was given before 3.5 years of age, it should be repeated. If 3rd dose of IPV is given after 4 years of age, a 4th dose is *not required*.

⁴ Acceptable alternate overseas schedule: Monovalent Hep B vaccine at birth, 1-2 months and 6-18 months of age if given overseas.

⁵ MINIMUM interval between dose 1 and 3, is 4 months. MINIMUM interval between dose 2 and 3 is 2 months (however, the optimum schedule is 0, 1 & 6 months). The MINIMUM age for dose 3 is 24 weeks. ⁶ MMRV is not recommended for use as the 1st dose of MMR containing vaccine in children aged <4yrs. ANY live vaccines can be given on the same day, if not there must be a minimum interval of 4 weeks. ⁷ Required doses vary depending on age at presentation and age when vaccine received; therefore tables <u>must</u> be referred to for each new catch-up.



Catch up vaccination schedule for Name and Age



| Immunisation History | | | | | | | |
|-----------------------|--------------------|--------------------|----------|-----------------------|--|--|--|
| | | | | | | | |
| Catch up visit 1 | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | Altern ative/Comments | | | |
| intervaly time in ame | Disease/s to veled | vaccine brand name | bose No. | Alternative/Comments | | | |
| | | | | | | | |
| | | | | | | | |
| - | | | | | | | |
| | | | | | | | |
| Catch up visit 2 | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | Alternative/Comments | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Catch up visit 3 | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | Alternative/Comments | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Catch up visit 4 | | | | | | | |
| Interval/time frame | Disease/s covered | Vaccine brand name | Dose No. | Altern ative/Comments | | | |
| | | | | | | | |
| - | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

This schedule does not take into account any medical risk factor that may require additional vaccines or doses. Please note: Please refer to the current edition of the Australian Immunisation handbook - 'Vaccination for Special Risk Groups'

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Catch-up schedules for people aged ≥10 years

> More common in children however:

- Some adolescents / adults missed doses in childhood
- Unvaccinated by parental choice own choice to be vaccinated
- Requirements for employment
- Travel
- Same principles apply no need to restart courses, build on what has already been given
- Different vaccines
 - DTPa vs dTpa
 - MMRV vs MMR + VZV



 \sim

What vaccines you need depends on your Health, Age, Lifestyle and Occupation ge

Accupation

Some jobs expose you to a greater risk of contact with diseases, for example, working

in a hospital or daycare centre.

This means you can benefit

from immunisation.

At different ages you need protection from

10

different diseases.

iles

Health issues such as

premature birth, asthma,

immunisation.

premarare un manufung, spieen diabetes, heart, jung, spieen

or kidney conditions, will mean you can benefit from

Lifestyle choices like travelling overseas, sexual activity or smoking, will mean you can benefit from immunisation.

Everyone's HALO is different

 \mathbf{m}



Australian Government

Department of Health

National Immunisation Program: Free catch-up vaccines for all individuals aged 10 to 19 years (ongoing)

VACCINATION PROVIDER FACT SHEET

From 1 July 2017 all individuals (including refugees and humanitarian entrants) 10 to 19 years of age are eligible for free catch-up vaccines through the National Immunisation Program (NIP).

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The expansion will enable free access to a nationally consistent catch-up schedule for recommended early childhood vaccines.





FUNDED VACCINES

The following vaccines are funded for the eligible cohort on an ongoing basis under the expanded NIP. This cohort should also be closely evaluated regarding the potential need for other vaccines based on risk factors (e.g. influenza vaccine).

Table 1. Funded vaccine arrangements under this measure. The following table and footnotes are adapted from the *Australian Immunisation Handbook*, 10th edition, updated 2017 online.

| Vaccine | Doses required* | Minimum interval between dose 1 and 2 | Minimum interval between dose 2 and 3 |
|--------------------------------------|--------------------------------------|--|--|
| Diphtheria, tetanus and pertussis | 3 doses‡ | 4 weeks | 4 weeks |
| Poliomyelitis | 3 doses | 4 weeks | 4 weeks |
| Measles, mumps and rubella | 2 doses | 4 weeks | Not required |
| Hepatitis B - Aged 10–19 years^ | 3 paediatric doses | 1 month | 3 months§ |
| Hepatitis B - Aged 11–15 years only^ | 2 adult doses | 4 month | Not required |
| MenCCV | 1 dose | Not required | Not required |
| Varicella#** | At least 1 dose if aged <14 years | If 2nd dose given, a 4-week interval is required# | Not required |
| | 2 doses if aged ≥14 years | 4 weeks | Not required |
| Human papillomavirus | 3 doses | 4 weeks | 12 weeks |

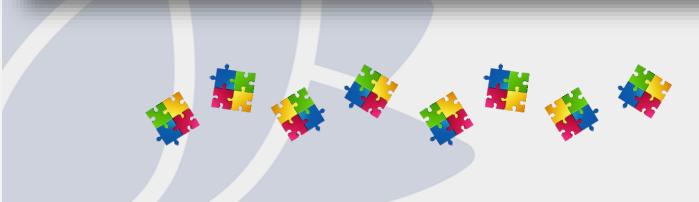
Please take note of the footnotes!!!



National Immunisation Program: Free catch-up vaccines for refugees and other humanitarian entrants aged 20 years and over (ongoing)

VACCINATION PROVIDER FACT SHEET

- From 1 July 2017 refugees and other humanitarian entrants are eligible for free catch-up vaccines on an ongoing basis through the National Immunisation Program (NIP).
- Providing a nationally consistent catch-up schedule enables newly arrived refugees and other humanitarian entrants free access to recommended vaccines.





| Vaccine | Doses required* | Minimum interval between dose 1 and 2 | Minimum interval between dose 2 and 3 |
|--------------------------------------|---------------------------|--|--|
| Diphtheria, tetanus and pertussis | 3 doses [‡] | 4 weeks | 4 weeks |
| Poliomyelitis | 3 doses | 4 weeks | 4 weeks |
| Measles, mumps and rubella | 2 doses | 4 weeks | Not required |
| Hepatitis B - Aged ≥20 years | 3 adult doses | 1 month | 3 months§ |
| Varicella#** | 2 doses if aged ≥14 years | 4 weeks | Not required |

* This column outlines the number of vaccine doses required for a person who has not previously received any vaccine doses for that antigen. To determine how many further doses are required for a person who has received previous vaccine doses, the number of previous doses should generally be deducted from the number in this column.

[‡] If a person ≥10 years of age has not received the number of pertussis vaccine doses recommended prior to 10 years of age, they only require 1 dose to be considered up-to-date (irrespective of the number of previous doses of pertussis-containing vaccine they received prior to 10 years of age). A single booster dose of pertussis-containing vaccine is routinely recommended for all adolescents, optimally delivered between 11 and 13 years of age (refer to 4.12 *Pertussis*). Given that dT is not funded under the NIP, up to 3 doses of dTpa may be used.

^ Note the age groups overlap and this is an either/or, not both.

§ For hepatitis B vaccine, the minimum interval between dose 1 and dose 3 is 4 months (refer to 4.5 Hepatitis B).

Varicella vaccine is recommended for all non-immune persons. Children who have an uncertain clinical history or no documentation of age-appropriate varicella vaccination should be considered susceptible and offered vaccination unless confident clinical diagnosis of prior natural infection is made. All persons aged ≥14 years should receive 2 doses (refer also to 4.22 *Varicella*).

** While MMRV is suitable to provide varicella vaccination in children aged <14 years, this vaccine is not recommended for use in persons ≥14 years of age (refer also to 4.22 Varicella).

Please take note of the footnotes!!!



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Table. Catch-up schedule for people ≥10 years of age (for vaccines recommended on a population level)

| Antigen | Doses needed | Minimum interval between doses | Notes |
|------------------------|--------------|--|---|
| Diphtheria and tetanus | 3 doses | Between doses 1 and 2: 4 weeks Between doses 2 and 3: 4 weeks | People should receive 1 of the doses as 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 or dTpa-IPV for all 3 primary doses. |
| Pertussis | 1 dose | Not required | 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. A booster dose of pertussis-containing vaccine is routinely recommended for all adolescents aged 11–13 years. Take this into account when planning catch-up for pertussis. |

Resources for other scenarios

- Bone marrow transplant
- > Splenectomy
- Preterm infants
- Post immunoglobulin
- Post chemo
 - Travel
- ➤ Occupation



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In this section

Home > Contents

Contents

Table of contents of the Australian Immunisation Handbook.

About the Handbook Fundamentals of immunisation Vaccination procedures Catch-up vaccination Vaccination for special risk groups Vaccine preventable diseases



Vaccination for Aboriginal and Torres Strait Islander people

Vaccination for international travellers



What are the current recommendations?

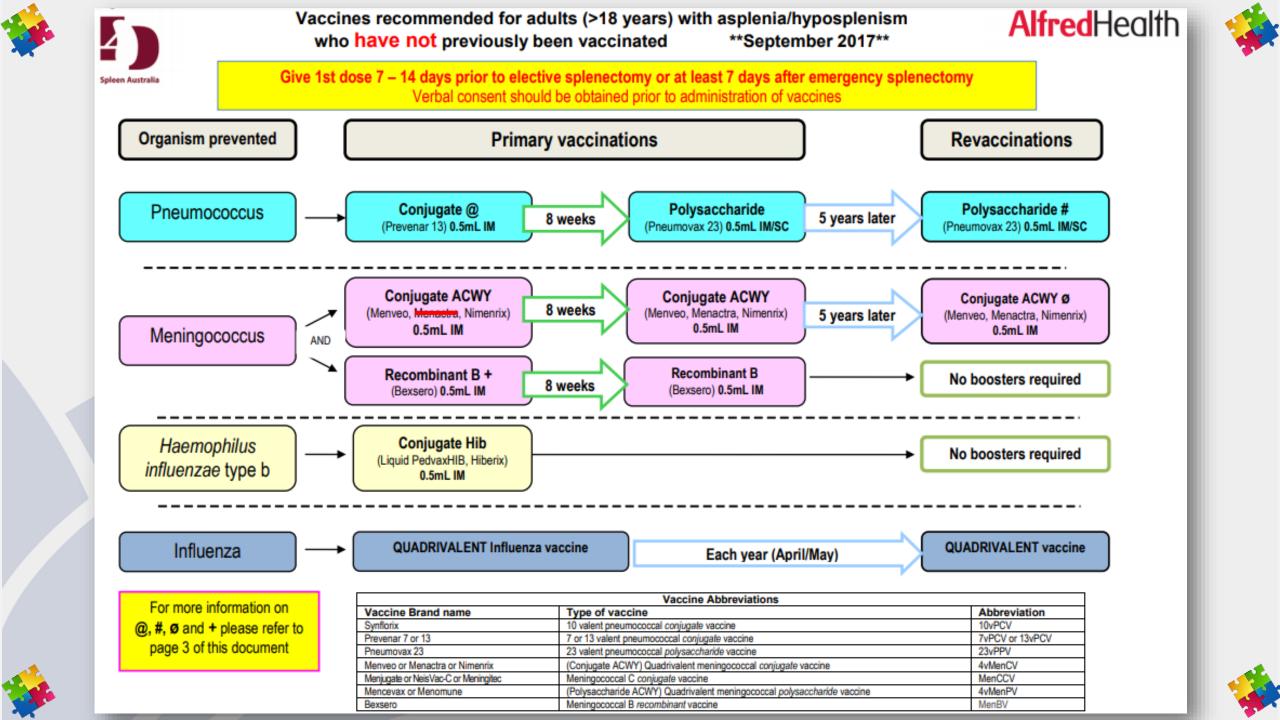
- 1. Education of patient
 - a. to recognise an ensuing bacterial infection and the importance of seeking medical review b. to know what strategies are available to reduce the occurrence of severe infections
- 2. Immunisations against specific bacterial infections
- 3. Antibiotics as directed by your doctor
- See here for medical recommendations for adults

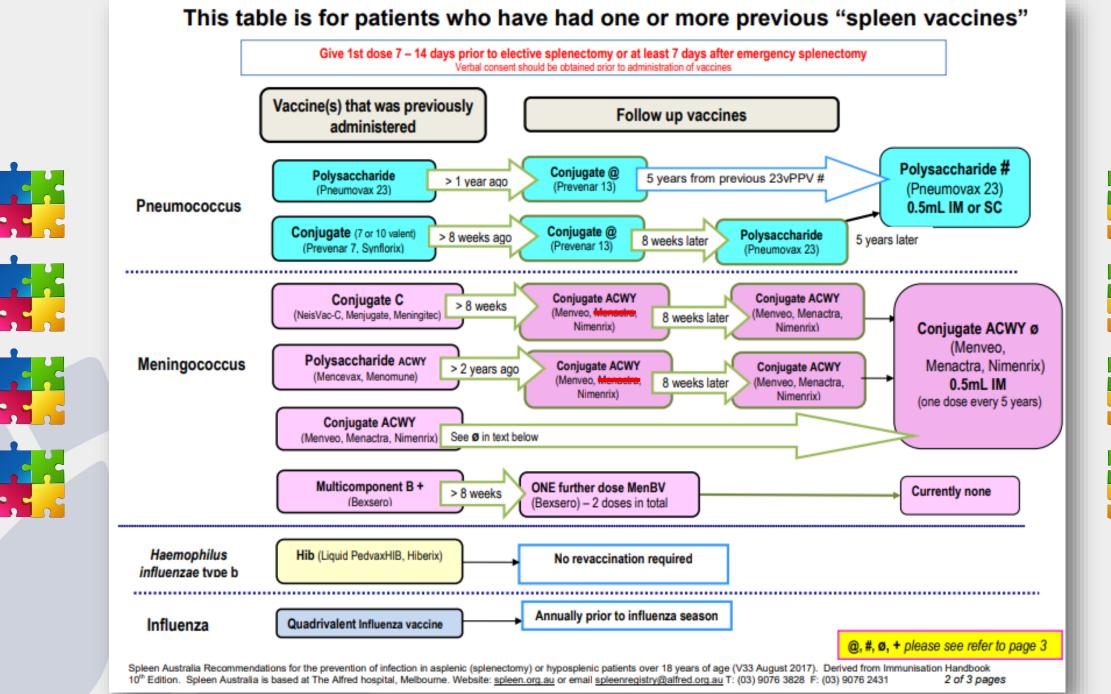


AlfredHealth



spleen.org.au







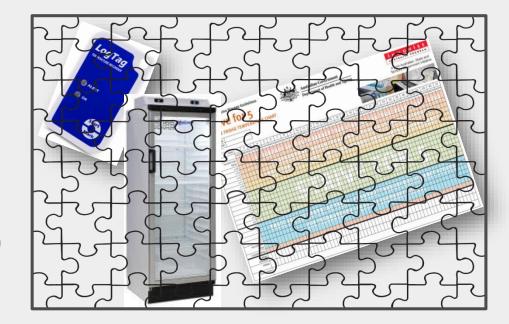








- > What is the cold chain?
- > What you already know...
- > What is a data logger?
- > What does the data look like?
- > When it's not a Cold Chain Breach (CCB)
- > What is a CCB?
- > How do I manage a cold chain breach?
- > Where can I get more information?







What is the 'cold chain'?

- Referring to the ideal temperature range of +2°C and +8°C for vaccines
- Have you completed the module? Vaccine Storage and Cold Chain Management
- This is HIGHLY recommended for ALL staff who deal with vaccines (including those who receive the vaccines from the delivery person!)
 - National Vaccine Storage Guidelines: Strive for 5 2nd ed. (currently in the process of being updated - next ed. will be released next year)



and Edition

Australian Government Department of Health and Ageing

National Vaccine Storage Guidelines

Strive for 5





A joint Australian, State and Territory Government initiative

What you already know...

- Vaccines MUST be stored in a purpose-built refrigerator
- More than one person needs to be aware of cold chain management (but nominate a Vaccine Storage/Cold Chain leader)
- > Temperatures must be checked, recorded and reset twice a day
 - Every day the facility is open
 - This ensures that any breaches are picked up in a timely fashion
- Graph the current, minimum, maximum temperatures on a temperature chart





What you already know...

> Have policies & procedures for vaccine storage

> KNOW YOUR FRIDGE

- Different brands of fridges have different methods of checking and resetting their thermometers
- Some have 2 temperature screens, others have an inbuilt data logger
- Read the fridge manual (most can be downloaded from the internet)

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cal Health District

- Accidental breaches can occur if you push the wrong button!!

What is a data logger?

- Data loggers are small memory cards that measure temperatures at pre-set time intervals and record the results over a specified period of time
- Different shapes and sizes but all must be connected to a computer program to download

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- > Then able to view the data as well as detailed setting capability
 - Once downloaded, can view data and adjust settings
 - Some data can be read over the internet





What is a data logger?

- They should be set to record the temperature of the fridge every 10 minutes
- > Download needs to be performed weekly and data reviewed
- Download if CCB suspected or odd min/max readings, or in the case of any uncertainty – it's OK to download more often and report sooner than wait for the end of the week!

Remember... Set at 5-10 mins intervals then <u>download & save weekly</u>!







What do they look like?











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Stable data

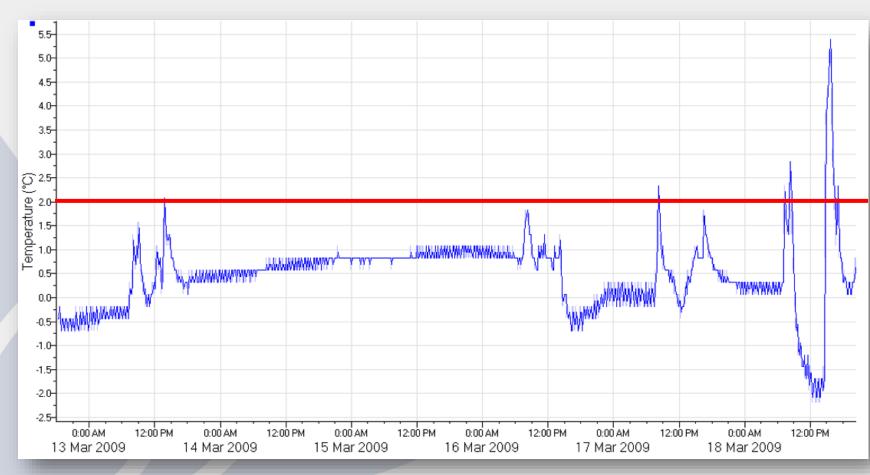
- Example of stable fridge temps \rightarrow \succ
 - Between $+2^{\circ}C$ and $+8^{\circ}C$
- > Data is presented in a graph (below) and line listing (right) which shows the individual readings
- > They have a storage limit (i.e. they cannot record forever without being downloaded and reset)

| Index | Date | Time | Readings °C | Туре |
|-------|------------|------------|-------------|------|
| 46 | 12/12/2016 | 4:44:56 PM | 5.6 | |
| 47 | 12/12/2016 | 4:49:56 PM | 3.7 | |
| 48 | 12/12/2016 | 4:54:56 PM | 5.0 | |
| 49 | 12/12/2016 | 4:59:56 PM | 5.3 | |
| 50 | 12/12/2016 | 5:04:56 PM | 3.7 | |
| 51 | 12/12/2016 | 5:09:56 PM | 5.3 | |
| 52 | 12/12/2016 | 5:14:56 PM | 4.9 | |
| 53 | 12/12/2016 | 5:19:56 PM | 4.0 | |
| 54 | 12/12/2016 | 5:24:56 PM | 5.5 | |
| 55 | 12/12/2016 | 5:29:56 PM | 4.3 | |
| 56 | 12/12/2016 | 5:34:56 PM | 4.2 | |
| 57 | 12/12/2016 | 5:39:56 PM | 5.8 | |
| 58 | 12/12/2016 | 5:44:56 PM | 3.9 | |
| 59 | 12/12/2016 | 5:49:56 PM | 4.5 | |
| 60 | 12/12/2016 | 5:54:56 PM | 5.8 | |
| 61 | 12/12/2016 | 5:59:56 PM | 3.6 | |
| 62 | 12/12/2016 | 6:04:56 PM | 4.9 | |

8.5 6.5 на сталить на служите служите составляется на составляется на составляется на составляется на составляется с с 4.5 45 25 25 0.5 22 Inspection Marks — Download Marks UTC +10:00, davlid



- \succ Example of unstable fridge temps \rightarrow
 - Fluctuating from -0.1°C to +11.3°C
- > ? Fridge malfunction



| Index | Date | Time | Elapsed Time | Readings (°C) |
|-------|------------|-------------|--------------|------------------|
| 81 | 15/11/2016 | 12:44:59 AM | 02:40:00 | 11.3 |
| 82 | 15/11/2016 | 12:46:59 AM | 02:42:00 | 8.7 |
| 83 | 15/11/2016 | 12:48:59 AM | 02:44:00 | 6.7 |
| 84 | 15/11/2016 | 12:50:59 AM | 02:46:00 | 5.2 |
| 85 | 15/11/2016 | 12:52:59 AM | 02:48:00 | 4.0 |
| 86 | 15/11/2016 | 12:54:59 AM | 02:50:00 | 3.1 |
| 87 | 15/11/2016 | 12:56:59 AM | 02:52:00 | 2.5 |
| 88 | 15/11/2016 | 12:58:59 AM | 02:54:00 | 1.9 |
| 89 | 15/11/2016 | 1:00:59 AM | 02:56:00 | 1.5 |
| 90 | 15/11/2016 | 1:02:59 AM | 02:58:00 | 1.2 |
| 91 | 15/11/2016 | 1:04:59 AM | 03:00:00 | 0.9 |
| 92 | 15/11/2016 | 1:06:59 AM | 03:02:00 | 0.7 |
| 93 | 15/11/2016 | 1:08:59 AM | 03:04:00 | 0.8 |
| 94 | 15/11/2016 | 1:10:59 AM | 03:06:00 | 0.9 |
| 95 | 15/11/2016 | 1:12:59 AM | 03:08:00 | 0.8 |
| 96 | 15/11/2016 | 1:14:59 AM | 03:10:00 | 0.7 |
| 97 | 15/11/2016 | 1:16:59 AM | 03:12:00 | 0.7 |
| 98 | 15/11/2016 | 1:18:59 AM | 03:14:00 | 0.6 |
| 99 | 15/11/2016 | 1:20:59 AM | 03:16:00 | 0.6 |
| 100 | 15/11/2016 | 1:22:59 AM | 03:18:00 | 0.5 |
| 101 | 15/11/2016 | 1:24:59 AM | 03:20:00 | 0.4 |
| 102 | 15/11/2018 | 1:26:59 AM | 03:22:00 | 0.4 |
| 103 | 15/11/2016 | 1:28:59 AM | 03:24:00 | 0.3 |
| 104 | 15/11/2016 | 1:30:59 AM | 03:26:00 | 0.3 |
| 105 | 15/11/2016 | 1:32:59 AM | 03:28:00 | 0.2 |
| 106 | 15/11/2016 | 1:34:59 AM | 03:30:00 | 0.2 |
| 107 | 15/11/2016 | 1:36:59 AM | 03:32:00 | 0.2 |
| 108 | 15/11/2016 | 1:38:59 AM | 03:34:00 | 0.2 |
| 109 | 15/11/2016 | 1:40:59 AM | 03:36:00 | 0.1 |
| 110 | 15/11/2016 | 1:42:59 AM | 03:38:00 | 0.1 |
| 111 | 15/11/2016 | 1:44:59 AM | 03:40:00 | 0.1 |
| 112 | 15/11/2016 | 1:46:59 AM | 03:42:00 | 0.1 |
| 113 | 15/11/2016 | 1:48:59 AM | 03:44:00 | 0.0 |
| 114 | 15/11/2016 | 1:50:59 AM | 03:46:00 | 0.0 |
| 115 | 15/11/2016 | 1:52:59 AM | 03:48:00 | 0.0 |
| 116 | 15/11/2016 | 1:54:59 AM | 03:50:00 | 0.0 |
| 117 | 15/11/2016 | 1:56:59 AM | 03:52:00 | -0.1 |
| 118 | 15/11/2016 | 1:58:59 AM | 03:54:00 | -0.1 |
| 119 | 15/11/2016 | 2:00:59 AM | 03:56:00 | -0.1 |
| 120 | 15/11/2016 | 2:02:59 AM | 03:58:00 | -0.1 |

When it's NOT a Cold Chain Breach (CCB)

- Fluctuations up to +12°C for <15 mins (such as when restocking) are acceptable and do not affect vaccines
- Data loggers can help save vaccines by providing the frequent temperatures than can exclude a CCB (and therefore does not need reporting!)
- Vaccines can be very expensive

Remember...

Up to +12°C for 15mins is OK More than that, or *less than* +2°C... call PHU straight-away!





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What IS a CCB?

- <+2°C can "freeze" the vaccines (they may not look frozen) and temperatures over +8°C for >15 mins can be just as damaging
- Action <u>MUST</u> be taken immediately if you suspect or discover that the temperatures have been out of range in order to avoid patients being given an ineffective vaccine
- New thermostability data available since 2017 used by PHU
- Report temperature breaches to the Public Health Unit and wait for advice before discarding vaccines







Reasons for Cold Chain Failures

- Refrigerator malfunction ensure your fridge is serviced annually
- Power outage (planned or unplanned)
- > Human error
 - Fridge door left ajar chock front feet up to ensure door falls and stays closed
 - Fridge door held open too long label baskets clearly or have a 'vaccine placement map' on the door
 - Pushing the wrong button and turning off the fridge by accident
 - Leaving vaccines out on delivery
 - Not closing door frequently during stock rotation to keep fridge temp stable
- Unknown







Breach or no breach???

<u>Scenario 1</u>

- Fridge accidentally turned off
- > Max temp on data logger +15°C for 12mins
- > BREACH!! Report to PHU...
- <u>Scenario 2</u>
- Power failure for 40 mins
- Vaccines moved from fridge to monitored portable fridge
- Data logger showed +9°C for 10mins
- No breach





Breach or no breach???

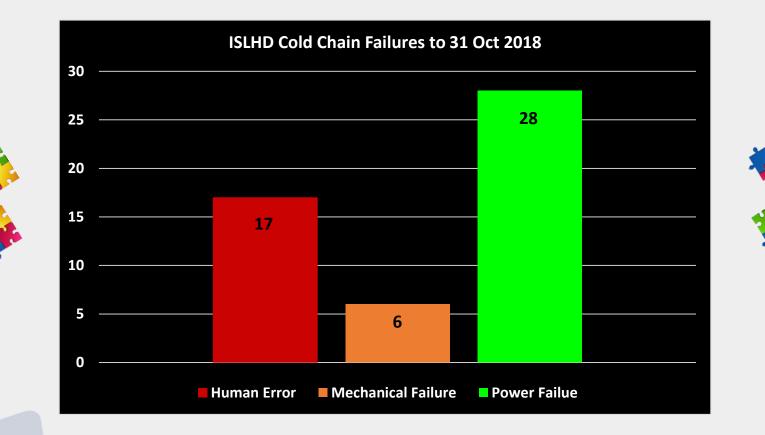
Scenario 3

- > Mechanical issue
- > Max temp on data logger +9.5°C for 10mins on 3 separate occasions
- No breach

<u>Scenario 4</u>

- Fridge door left ajar overnight
- Top temp on data logger +11°C for 8 hours
- > BREACH!! Report to PHU...





> Human errors - avoidable

- Fridge turned off accidentally x 2
- Door left ajar x 9
- Vaccines placed in unmonitored fridge x 2
- Vaccines left out overnight after delivery x 1

- > Total cost to June '18 = \$74,760
 - Human errors = \$9724



What to do if you suspect a CCB?

- Deal with the vaccines first
 - Isolate in fridge if temperature has stabilised i.e. power restored
 - Move to a monitored esky
- > Place a sign on the fridge 'Do not use'
- Download the data from your data-logger (if using) and print or save it for the period of the breach
- > Identify suspected or confirmed reason for the breach





What to do if you suspect a CCB?

- Contact PHU on 4221 6700 or 1300 066 055 as soon as possible (in business hours)
- The PHU will provide advice on what to do with the vaccines <u>DO NOT</u> discard any vaccines until you have been advised to

Contact the vaccine manufacturer for advice about private vaccines



IMMUNISATION PROVIDER COLD CHAIN BREACH REPORTING FORM



Fields marked with an * are mandatory

| *Vaccine Account Number | | |
|-------------------------|--|--|
| | | |
| ting the breach | | |
| | | |

SECTION 2: DETAILS OF COLD CHAIN BREACH (CCB)

| 4 +Turne of references | Vaccine Specific refrigerator | | |
|--|---|--|--|
| 1. *Type of refrigerator | Domestic refrigerator | | |
| 2. *Date of Breach | | | |
| 3. *Date CCB identified | | | |
| 4. *Select the reason for the CCB | Refrigerator malfunction + (Section 3.1 must also be | | |
| I Plance iump to Section 4 offer | completed and a current fridge service report provided) | | |
| I Please jump to Section 4 after completing questions 5-10 below. | Power outage (planned/unplanned) + | | |
| completing questions 3-10 below. | Human error + | | |
| | Unknown (Section 3 MUST be completed) | | |
| 5. *Additional information about the CCB | | | |
| 6. *Data logger temperature | Min Max | | |
| *Duration outside 2° C to 8° C (minutes) | | | |
| 8. *Is this the first CCB for these | | | |
| vaccines? | □ No, what is the date of the previous CCB? | | |

Section 1 – practice details

- Complete missing fields on fax or electronic copy
- Section 2 event details
 - Practice to complete



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| SECTION 3: FRIDGE AND COLD CHAIN MONITORING DETAILS | | | | | | |
|---|-----------------------------------|--|--|--|--|--|
| 3.1 Refrigerator details | | | | | | |
| *Date of refrigerator purchase | Date of refrigerator purchase | | | | | |
| *Date of last refrigerator service | | | | | | |
| 3.2 Data logger details | | | | | | |
| *Type of data logger | Inbuilt Portable | | | | | |
| *Date of purchase | | | | | | |
| *Date of last service | | | | | | |
| *Date of last calibration | | | | | | |
| 3.3 Minimum/maximum thermometer | r details | | | | | |
| *Type of min/max thermometer | Type of min/max thermometer | | | | | |
| *Date of purchase | | | | | | |
| *Date of last battery change | | | | | | |
| *Date of last accuracy check i.e. | | | | | | |
| ice slurry | | | | | | |
| 3.4 *Alternative vaccine storage deta | ails | | | | | |
| *Is there an alternative fridge for | | | | | | |
| vaccine storage? | □ No | | | | | |
| *Type of alternative fridge used for | r 🗆 Vaccine specific refrigerator | | | | | |
| back up vaccine storage | Domestic refrigerator | | | | | |

The PHU may disable your ability to order vaccines until a stable cold chain is able to be demonstrated

Section 3



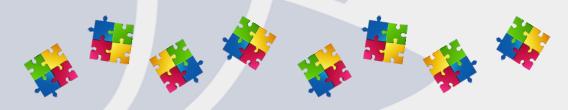
- Fridge malfunction, or
- Unknown
- Perform audits on the vaccine fridge annually (or more frequently if indicated)



What else do we need?

Section 4

- \succ Count of the vaccines in stock \rightarrow \rightarrow \rightarrow
 - How many doses of govt provided only
- > Data logging
 - Graph and line listing of temps required
- > Min/max temperature chart/s
- Last fridge service report
 - If available and only if there has been a fridge malfunction



SECTION 4: VACCINE DETAILS

| Vaccines exposed to a second breach should be recorded as follows: | | | | | | |
|--|--------|------------|----------|--------|----------------|--|
| Total count (# doses exposed to second breach), example: | | | | | | |
| Vaccine | *Count | PHU advice | Vaccine | *Count | PHU advice | |
| MMRII | 10 (5) | Discard 5 | Infanrix | 15 (2) | Retain & label | |

| Vaccine | *Count | PHU advice | Vaccine | *Count | PHU advice |
|----------------------|----------|------------|-----------------|----------|------------|
| Adacel | | | IPOL | | |
| Adacel polio | | | Menactra | | |
| Afluria Quad | | | Menitorix | | |
| Boostrix | | | MMR II | | |
| Boostrix IPV | | | Neis-Vac C | | |
| Energix (adult) | | | Nimenrix | | |
| Energix (paed) | | | Pneumovax 23 | | |
| Infanrix - Hexa | | | Varivax | | |
| Infanrix IPV | | | Zostavax | | |
| Additional advice | | | | | |
| Vaccine | *Batch # | *Expiry | *Count | HPNSW/PH | U only |
| Act-HIB | | | | | |
| Quadracel | | | | | |
| Tripacel | | | | | |



Where I can I get more information?



- National Vaccine Storage Guidelines: Strive for 5
- > Illawarra Shoalhaven PHU Immunisation Team
- NSW Health Website:
 - Immunisation Programs / Immunisation Providers / More Information / Cold Chain
- Cold chain training module for all providers





Home > Immunisation Programs

Immunisation programs

Alerts

- <u>NEW Vaccination by</u> pharmacists
- <u>NSW Immunisation Schedule (1</u> July 2018)
- 2018 Influenza Vaccination, including for children under 5
- <u>Childcare vaccination</u> requirements from 1 January 2018
- Meningococcal W Vaccination Program

| Î | Immunisation |
|--------------|--------------|
| | providers |

- More information
- Public Health Units 1300 066 055
- Adverse events following immunisation
- Shortage of adult hepatitis B vaccine
- Vaccine ordering link
- Cold chain training module for all providers

 \mathbf{Z}

Additional Commonwealth and NSW funded free vaccines



- Save the Date to Vaccinate campaign and phone app
 Reserve Corder Form
 Instant Area and Posters
 - A the facts Immunisation Saves Lives (Commonwealth)

 \mathbf{Z}



- Aboriginal Immunisation Health Care Worker Program
- MJA article Closing the vaccination coverage gap

27

- Stage 2 Evaluation Report
- Stage 1 Evaluation Report
- Annualised coverage rates
- Whatchya Gunna Do? video



More puzzle pieces...









Immunisation programs



- NEW Vaccination by pharmacists
- NSW Immunisation Schedule (1 July 2018)
- 2018 Influenza Vaccination, including for children under 5
- <u>Childcare vaccination</u> requirements from 1 January 2018
- Meningococcal W Vaccination Program



- More information
- Public Health Units 1300 066 055
- Adverse events following immunisation
- <u>Shortage of adult hepatitis B</u> vaccine
- Vaccine ordering link
- <u>Cold chain training module for all</u> providers
- <u>Additional Commonwealth and</u> <u>NSW funded free vaccines</u>

- Immunisation Campaigns
- Save the Date to Vaccinate campaign and phone app

2

- Resource Order Form
- Brochures and Posters
- Saves Lives (Commonwealth) ☑



- <u>Aboriginal Immunisation Health</u>
 <u>Care Worker Program</u>
- ► MJA article Closing the vaccination coverage gap
- Stage 2 Evaluation Report
- Stage 1 Evaluation Report
- Annualised coverage rates
- > Whatchya Gunna Do? video

Childhood vaccination

- Why vaccinate?
- NSW Immunisation Schedule
- Child care enrolment
- Primary & secondary school vaccination requirements from 1 April 2018
- Vaccination coverage
- Protecting Your Family (Bengali video by Sydney)
- Local Health District)
- Myths & Realities
- Factsheets and resources

- Adolescent vaccination (school based)
- NEW HPV vaccination changes
- Which vaccines are offered?
- Withdrawal of consent
- <u>Consent materials, including</u> <u>translations</u>
- Managing school vaccine reactions
- Vaccination coverage
- Background to the NSW School Vaccination Program
- Secondary school enrolment

Adult vaccination

- Measles, Mumps & Rubella
- Whooping cough (pertussis)
- Pneumococcal disease
- Influenza
- Yellow fever
- Q fever
- Shingles
- Vaccine Administration Record Card for Adults



Health care worker vaccination

- Revised Policy Directive
- Frequently Asked Questions (FAQ)
- <u>Key points about the policy</u> (Powerpoint presentation)
- <u>Countries with a high incidence of</u> <u>TB</u>



www.health.nsw.gov.au/immunisation/Pages/default.aspx

Ination

2

2

2









HOME NEWS

Support community

between PHNs and other key stakeholders.

We aim to create a community of practice by providing the

FORUM

RESOURCE & EDUCATION LIBRARY

EVENTS DIRECTORY

About

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Log out

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FAQ



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LINKS

Latest news

> About the program

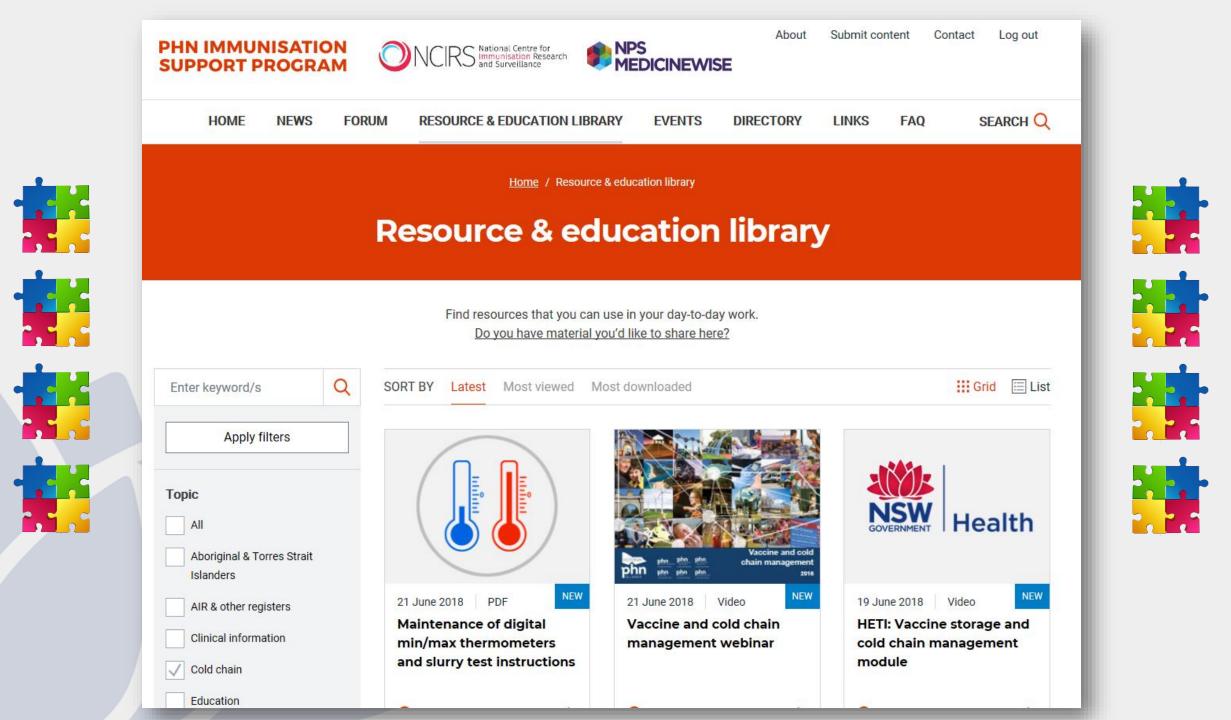
- Best Practice Software advice regarding > immunisation schedule changes 1 July 2018
- Updated NCIRS fact sheets and immunisation > schedule tables
- ZedMed practice software upgrade > incorporating changes to the immunisation schedule - July 2018

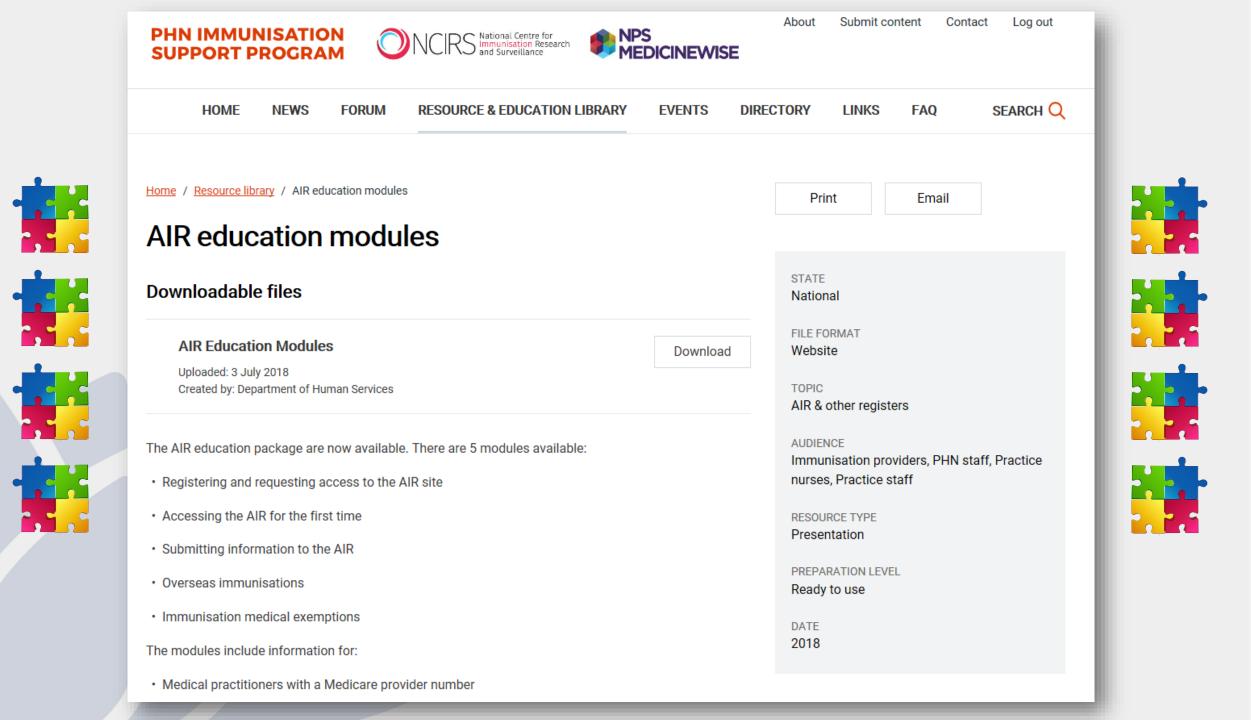
Latest resources

- > Northern Territory catch up vaccines for all ages and additional vaccines due to increased medical risk (additional notes) - July 2018
- > Northern Territory pneumococcal vaccination and revaccination schedule - July 2018
- > Northern Territory adult and special groups vaccination schedule - July 2018

DIRECTORY

- > PHN contacts
- Key stakeholders
- > Program team





3. REGISTER NOW: NCIRS Seminar/Webinar: 21 November 2018 – Australian Immunisation Register & Handbook Update



The next NCIRS seminar/webinar will provide an update on the Australian Immunisation Register (AIR) and The Australian Immunisation Handbook.

Time: Wednesday 21 November 2018, 1.00 pm – 2.00 pm Location: Kids Research Seminar Room, 178 Hawkesbury Road, Westmead, NSW The session will also available via Zoom webinar. Webinar registrations are limited to 500 places. Hurry places filling fast.

More information & register here...

Webinar registrations are limited to 500 places - will fill fast!!!











SKAI – Sharing Knowledge About Immunisation: Resources for parents

A series of five Q&A fact sheets addressing the five concerns most commonly expressed by Australian parents are available from the Immunise Australia website.

- How are vaccines shown to be safe?
- How do vaccines affect immunity?
- Why is the schedule the way it is?
- What about autism?
- What is in vaccines?

www.ncirs.edu.au



Health Illawarra Shoalhaven Local Health District

Why is the schedule the way it is?

Vaccines are timed to protect children

What about autism?

How do we know?

A number of high quality large numbers of vaccir

many years. The largest Denmark and found that

to develop autism as va

this study were combin

include medical inform living all around the w

vaccination could nor

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idea that va

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Many large studies have found vaccines do not cause autism

Adjuvants

I the health of

What is in vaccines?

Why do children receive so many vaccines in the first two years?

The timing of each dose of every vaccine given to babies and children is carefully chosen. It takes many years of careful research to work out the right time to give each vaccine. Independent experts gather information to help them make their recommendations. They consider which diseases Australian children are likely to be exposed to; how serious the diseases can be for children at different ages; which vaccines are safest and most effective; how many doses are needed to provide full protection; and the age at which the vaccines will give the best protection.

What happens if I delay or leave out certain vaccines?

Delaying vaccination is not recommended. When vaccination is delayed or spaced out, children are unprotected for longer than they need to be and often at an age when disease is most common or most serious. Spacing out vaccines means that a child will need to have more vaccination appointments. Researchers have found that visiting the doctor for one needle is just as stressful for children as visiting the doctor for two needle at once.1



How do vaccines Affect immunity?

How do vaccines work?

shown to be safe?

How are vaccines tested?

Safety research and testing is an essen

(25-50) of health

then a

CKAI

TGAL

How are vaccines

Vaccines strengthen natural immunity

Vaccines train a baby's immune system to quickly recognise and clear out germs (bacteria and viruses) that can cause senous

stem?

tes overwhelm my baby's

ats at any time.

Immune Autralia Inform

Immuno on 1800

SKAI nunise Australia Information Line 800 671 811

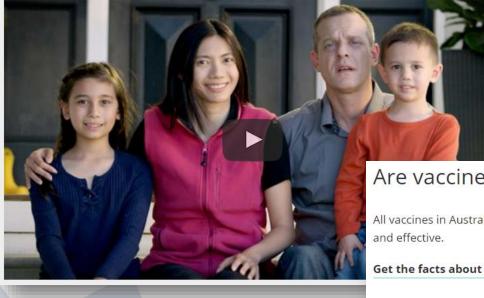


campaigns.health.gov.au/immunisationfacts





Get the facts - help protect your community



By getting your child vaccinated, you're not only protecting them, you're also protecting other children too. Make sure you vaccinate your child on time.

Are vaccines safe?

All vaccines in Australia are strictly tested to make sure they are both safe

Get the facts about vaccine safety >





How do I know if my child's immunisations are up to date?

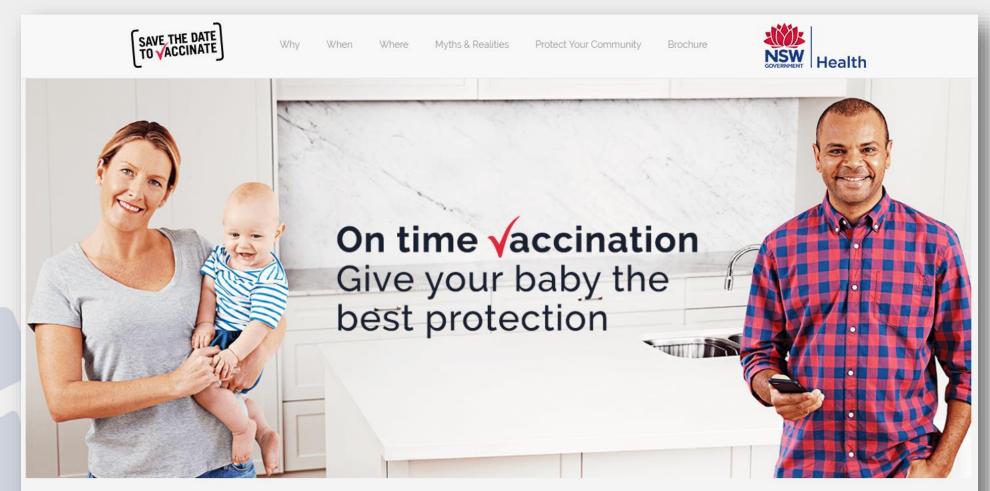
Check what your child needs >



Health Illawarra Shoalhaven Local Health District



www.immunisation.health.gov.au



Immunisation protects the community against vaccine-preventable diseases.

Each vaccine plays an important role, so timely vaccination is the best way to protect your child. This website offers parents access to

DOWNLOAD THE APP











NSW Immunisation Resource Order Form

Please complete this order form and send it to the Better Health Centre: Email. bhc@nsccahs.health.nsw.gov.au Fax. 02 9887 5879

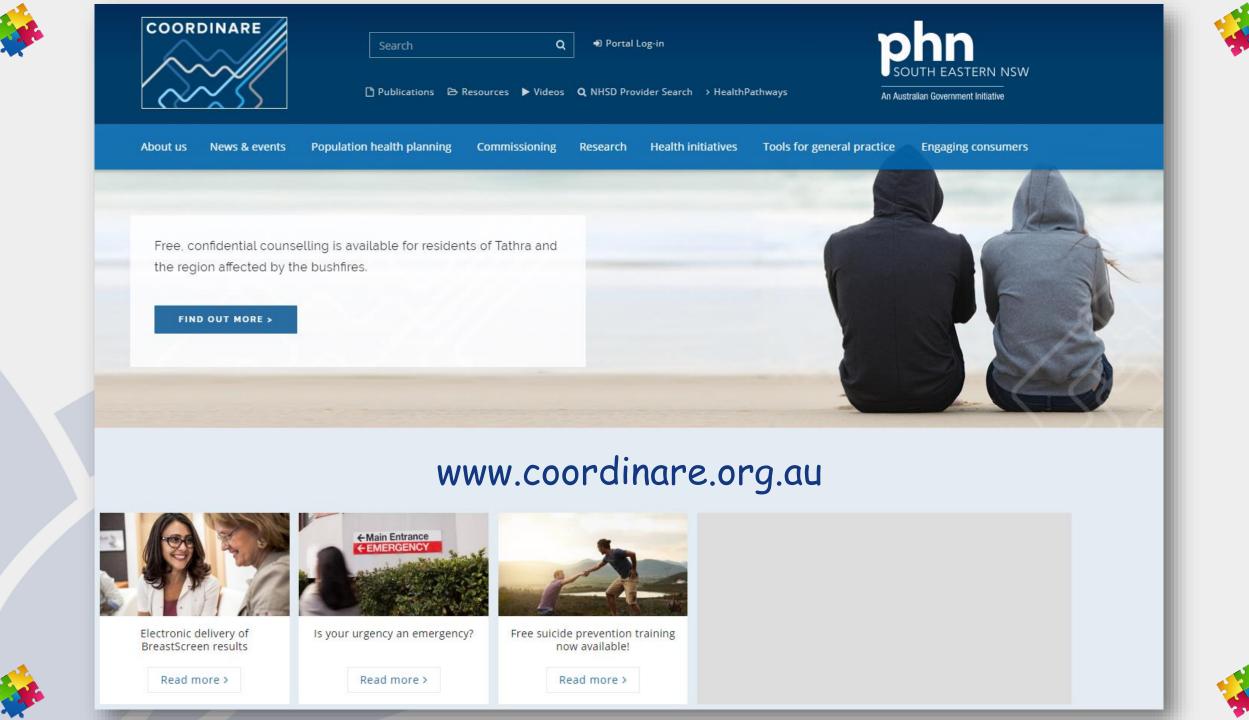
NB: There are no costs related to these resources.

| Item | Layout | Collateral title | SHPN | Quantity | | |
|--|---|--|--------------|----------|--|--|
| Pertussis (whooping cough) resources (more information at www.health.nsw.gov.au/protectnewborns) | | | | | | |
| Poster (Generic) | A3 | Whooping cough is about (CHP) 15 | | | | |
| Brochure (Generic) | DL | Protection and vaccination from preconception to birth | (CHP)150131 | | | |
| A5 Pad | A5 | Did you know? (patient information sheet) | (CHP) 150135 | | | |
| Fridgesticker | 130mm | Pertussis vaccination in pregnancy | (CHP)150134 | | | |
| Poster (Aboriginal) | A3 | Whooping cough is about (Aboriginal) | (CHP)150138 | | | |
| Brochure (Aboriginal) | DL | Important vaccines for pregnancy (Aboriginal) | (CHP) 150139 | | | |
| Poster (Whooping Cough) | A3 | Whooping cough: identify, protect, prevent poster | (CHP) 150328 | | | |
| Brochure (Whooping Cough) | DL | Whooping cough: identify, protect, prevent brochure | (CHP) 150329 | | | |
| Influenza Vaccination i | in Pregnan | cy (English) | | | | |
| Brochure | 6pp DL | Influenza Vaccination in Pregnancy - Protect you and your baby from influenza (flu) | (CHP) 140189 | | | |
| Influenza Vaccination in Pregnancy (Translated) | | | | | | |
| Brochure(Arabic) | 6pp DL | Influenza Vaccination in Pregnancy - Protect you and your baby from influenza (flu) - Arabic | (CHP) 140191 | | | |
| Brochure (Chinese) | 6pp DL | Influenza Vaccination in Pregnancy - Protect you and your baby from influenza (flu) - Chinese | (CHP) 140195 | | | |
| Brochure(Dari) | 6pp DL | Influenza Vaccination in Pregnancy - Protect you and your baby from influenza (flu) Dari | (CHP) 140197 | | | |
| Brochure(Korean) | 6pp DL | Influenza Vaccination in Pregnancy - Protect you and your baby from influenza (flu) - Korean | (CHP) 140194 | | | |
| Brochure (Tamil) | 6pp DL | Influenza Vaccination in Pregnancy - Protect you and your baby from influenza (flu) -Tamil | (CHP) 140196 | | | |
| Brochure (Turkish) | 6pp DL | Influenza Vaccination in Pregnancy - Protect you and your baby from influenza (flu) -Turkish | (CHP) 140192 | | | |
| Brochure (Vietnamese) | 6pp DL | Influenza Vaccination in Pregnancy - Protect you and your baby from influenza (flu) -Vietnamese | (CHP) 140193 | | | |
| | Neonatal Hepatitis B and Vaccination Brochure (translated brochures are available at www.health.nsw.gov.au/immunisation) | | | | | |
| Brochure | 6pp DL | Hepatitis B Vaccination - For Your New Baby | (CHP) 130455 | | | |

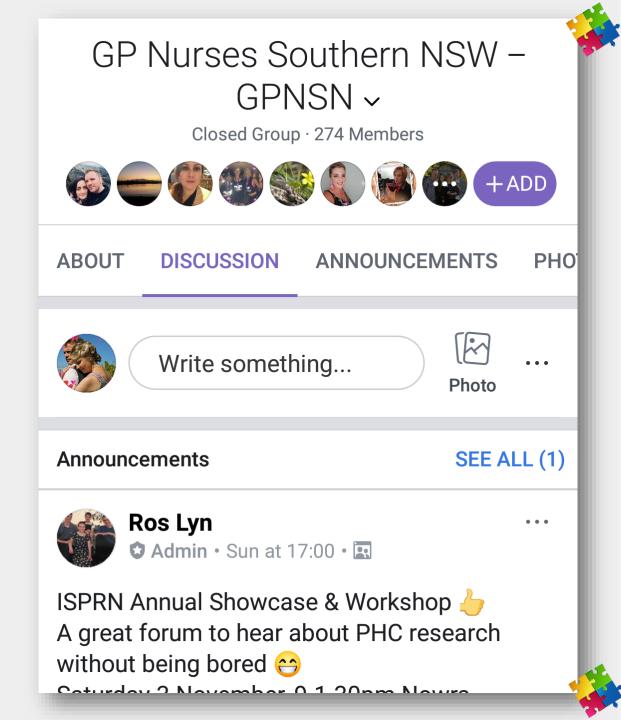
www.health.nsw.gov.au/immunisation/Documents /immunisation-order-form.pdf

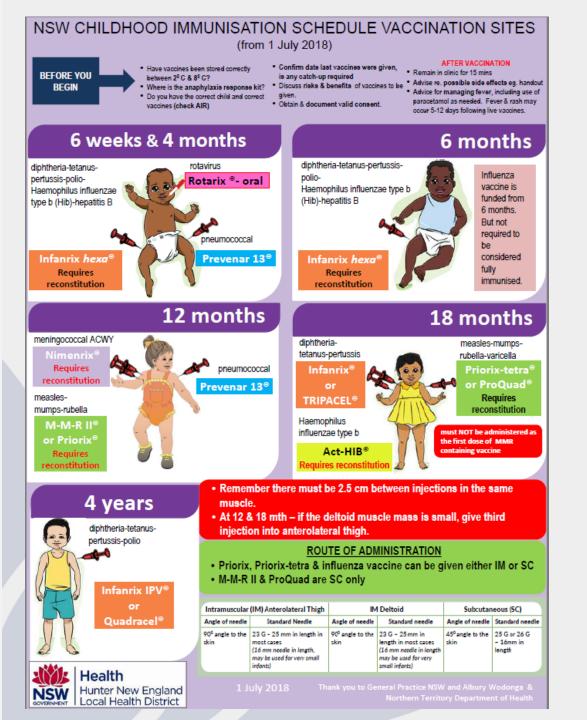


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|---|--|---|--|
| | Vaccines given on / 20 Time Indicate injection sites by circling appropriate box: LA-Left / | | |
| Mild fever that doesn't Where the needle was given: Grizzly, unsettled, Teenagers/ad last long <38.5°C Sore, red, burning, itching or swelling for 1–2 days and/or small, hard lung for a few weeks SEE BACK PAGE FOR ADDITIONAL COMMON REACTIONS SPECIFIC TO EACH VACCINE | the following reactions: or Engerix® B Paediatric) Mild fever that doesn't last long <38.5°C | Diphtheria, tetanus, whooping cough, hepatitis B, polio, <i>Haemophilus influenzoe</i> type b vaccine (Infanrix [®] hexa) | (Prevenar 13*) |
| What to do at home: If baby/child is hot don't have too many clothes or blankets on Breast feed more frequently and/or give extra fluids Put a cold wet cloth on the injection site if it is sore instructions on | Teenagers/adults fainting and muscle aches LL RL LA RA | See 'Common reactions' | See "Common reactions" |
| When to seek medical advice: | Rotavirus vaccine Meningococcal ACWY vac (Rotarix®) (Nimenrix®) | cine Measles, mumps, rubella vaccine (MMRII® or Priorix®) | Hepatitis A vaccine (Vaqta® Paediatric) |
| See your doctor or immunisation provider, or go to hospital if: Pain and fever are not relieved by paracetamol (eg. Panadol ⁴) The reactions are bad, not going away or getting worse or if you are worried at all | | See 'Common reactions' Reactions that may be present 7 to 10 days after vaccination: fever over 39°C rash (not infectious) head cold, runny nose, cough, puffy eyes swilling in the neck | See 'Common recention' Rash Order this resource Order ID: IT0258 |
| How to report an adverse reaction: Significant events that occur following immunisation should be reported to your doctor or vaccination provider. | | /under the chin. | You can order this resource by contacting National Mailing and Marketing: |
| Alternatively you can report directly to the Therapeutic Goods Administration (www.tga.com.au) or by phone to a pharmacist from NPS Medicinewise on 1300 134 237. You can also report adverse events following immunisation to your state or territory health services. | BY MOUTH LL RL RA Haemophilus influenzae (ActHIB ⁶) Measles, mumps, rubella, chickenpox vaccine (Piorix-Tetra ⁶ or ProQuad ⁶) | LL RL LA RA Diphtheria, tetanus, whooping cough vaccine Children (Infanrix® or Tripacel®) | cough, polio vaccin |
| Rare reactions requiring immediate medical attention As with any medication, on rare occasions, an individual may experience a severe reaction. Anaphylaxis A severe allergic reaction which occurs suddenly, usually within 15 minutes, however anaphylaxis con occur within hours of vaccine administration. Early signs of anaphylaxis include: redness and/or itching of the skin, swelling (hives, breathing difficulties, persistant cough, hoarse voice and a sense of distress. Some young children (especially aged 1–3 years) are m seizures when experiencing a high fever from any source sudden a sense of distress. | See 'Common reactions' See 'Common reactions' Reactions that may be present 7 to 10 days afte vacination: – fever over 39°C – rash (not infectious) – head cold, runny nose cough, puffy eyes – reveling in the perch | limb swelling may occur (with the 4th or 5th dose of a tetanus-containing vaccine in children). These reactions usually start within 24–72 hours after vaccination, and resolve spontaneously within 3–5 days. If this reaction | of redness and swelling from the shoulder to the elbow. If this reaction extends beyond one or both joints, seek medical advice. |
| Where can I get more information? Practice contact details: Contact your immunisation provider Visit health.gov.au/immunisation Visit health.gov.au/immunisation Contact your state or territory health service | vaccination: — mild chickenpox like ra (may be infectious, see medical advice). | joints, seek medical advice. k | |
| | LL RL RA LL RL LA RA Pneumococcal vaccine Human papillomavirus Hu | LL RL LA RA Shingles vaccine | LA RA Influenza vaccine |
| | (Pneumovax 23*) (HPV) vaccine (Gardasil#9) See 'Common reactions' See 'Common reactions' Large injection site reaction with redness and swelling, more common after the second or subsequent dose of this vaccine. Mid headache | (Zostavax*) • See 'Common reactions' | See 'Common reactions' Health Illawarra Shoalhaven |
| | | LARA | GOVERNMENT Local Health District |









Available through Coordinare in Update forum





















- > PHU phone number: 4221 6700 or 1300 066 055
 - haley.frew@health.nsw.gov.au or kathryn.tapper@health.nsw.gov.au
- natasa.veselinovic@health.nsw.gov.au (from 14/1/2019)











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Thanks for Listening

