

IMMUNISATION CATCH UP PACK

for

VACCINE SERVICE PROVIDERS

Components of Catch Up Pack

1. Introduction
2. National Immunisation Program Schedule (NIPS) – *“Schedule”*
3. Prevenar Schedules for Childhood Pneumococcal Vaccinations – *“Prevenar Catch Up”*
4. Haemophilus influenzae b (Hib) Vaccination Schedules – *“Hib Catch Up”*
5. Eligibility for Funded Vaccines
6. Minimum Intervals Between Vaccines for Catch Up Times – *“Minimum Times”*
7. VSP Catch Up Template – *“Template”*

Purpose of Catch Up Pack – *“Pack”*

Vaccine Service Providers (VSP) are commonly called upon to work out immunisation catch up schedules for children for various reasons, including: missed vaccinations, delayed start of schedule(s), started on overseas / interstate schedules, newly arrived refugees, etc. At the same time, we have increasing complexities in the vaccines available through the National Immunisation Program Schedule (NIPS).

This Immunisation Catch Up Pack (*“Pack”*) has been developed as a set of tools to aid VSPs in being able to work out catch up schedules in a confident and systematic manner.

How to use Catch Up Pack

The Template provides the basic tool for working out immunisation catch up schedules in a systematic manner, retaining a copy for filing. The other components of the Pack assist in working out the details required in systematically planning a catch up schedule using the Template. They are based on the current version of the Australian Immunisation Handbook (9th Ed), taking into account the latest Schedule changes for Queensland (1 Mar 2008). The timing of vaccinations is summarised in Minimum Times. This information is supplemented separately for the more complex Prevenar and Hib catch ups.

NATIONAL IMMUNISATION PROGRAM SCHEDULE - QUEENSLAND
From 1 MARCH 2008

Age	Everyone gets these vaccines	Additional Vaccines for Aboriginal and Torres Strait Islander People	Additional vaccines for children with medical risk factors
Birth	Hepatitis B	BCG (contact QTBC ph 3896 3955)	
2 months	DTPa-hepB-IPV-Hib, 7vPCV, Rotavirus		
4 months	DTPa-hepB-IPV-Hib, 7vPCV, Rotavirus		
6 months	DTPa-hepB-IPV-Hib, 7vPCV, Rotavirus		
12 months	Hib (or Hib-hepB), MMR, Men CCV		7vPCV
18 months	VZV	Hepatitis A	
24 months		Hepatitis A, 23vPPV	
4 years	DTPa-IPV, MMR		23vPPV
Year 8	Catch up Hepatitis B, VZV if indicated		
Females Year 8 to 27th birthday	HPV		
Year 10	Adult dTpa		
15-49 years		Influenza, 23vPPV if at risk	
Born since 1966	MMR if not had two doses		
50 years & over	ADT/Adult dTpa (not funded)	Influenza, 23vPPV	
65 years & over	Influenza, 23vPPV		

Prevenar (7vPCV) schedules for childhood pneumococcal vaccinations

1. Medical-Risk Children up to 5 years of age (funded)

The 9th edition of the Australian Immunisation Handbook (p. 248) recommends that children <9 years of age with specified underlying medical conditions should receive 2 doses of 7-valent pneumococcal conjugate vaccine (Prevenar) followed by a dose of 23-valent pneumococcal polysaccharide vaccine (Pneumovax 23). However, extra vaccines for medical at risk children are only funded by Queensland Health up to the 5th birthday.

Primary Schedule for Prevenar: Four doses at 2, 4, 6, 12 months of age, followed by Pneumovax23 at 4-5 years of age

Catch-up Schedule where NO Pneumococcal vaccination has been given:

Age	Catch-up Schedule
3-6 months	3 doses, 2 months apart.* 4 th dose at 12 months of age
7-11 months	2 doses, 2 months apart.* 3 rd dose 2 months after 2 nd dose, or at 12 months of age, whichever is later
12-59 months	2 doses, 2 months apart

Pneumovax23 is required at 4-5 years of age or 2 months after last Prevenar, whichever is later

Catch-up Schedule for Prevenar where schedule is incomplete:

Age Now	Previous History	Catch-up Schedule
5-6 months	1 dose	2 doses, 2 months apart, starting 2 months after last dose. * 4 th dose at 12 months of age
7-11 months	1 or 2 doses	1 dose, given 2 months after last dose * Another dose at 12 months of age, or in 2 months time, whichever is later
12-59 months	1, 2 or 3 doses	1 dose, given 2 months after last dose

Pneumovax23 is required at 4-5 years of age or 2 months after last Prevenar, whichever is later.

2. Indigenous Children < 2 years of age

Primary Schedule for Prevenar: Three doses at 2, 4, 6 months of age followed by Pneumovax23 at 2 years of age

Catch-up Schedule where NO Pneumococcal vaccination has been given:

Age	Catch-up Schedule
3-6 months	3 doses, 2 months apart *
7-17 months	2 doses, 2 months apart *
18-23 months	1 dose

Pneumovax23 is required at 2 years of age or 2 months after last Prevenar, whichever is later.

Catch-up Schedule for Prevenar where schedule is incomplete:

Age Now	Previous History	Catch-up Schedule
5-11 months	1 dose	2 doses, 2 months apart *
12-23 months	1 dose	1 dose, given 2 months after last dose *
7-11 months	2 doses	1 dose, given 2 months after last dose *
12-23 months	2 doses	No further Prevenar doses

Pneumovax23 is required at 2 years of age or 2 months after last Prevenar, whichever is later.

3. Low-Risk Children < 2 years of age

Primary Schedule for Prevenar: Three doses given at 2, 4, 6 months of age

Catch-up Schedule where NO Pneumococcal vaccination has been given:

Age	Catch-up Schedule
3-6 months	3 doses, 2 months apart *
7-17 months	2 doses, 2 months apart *
18-23 months	1 dose

NO Pneumovax23 is required.

Catch-up for Schedule where Pneumococcal schedule is incomplete:

Age Now	Previous History	Catch-up Schedule
5-11 months	1 dose	2 doses, 2 months apart, starting 2 months after last dose *
12-23 months	1 dose	1 dose, given 2 months after last dose *
7-11 months	2 doses	1 dose, given 2 months after last dose
12-23 months	2 doses	No further Prevenar doses

NO Pneumovax23 is required

* Catch-up doses can be given one month apart for children less than 12 months of age.

Recommendations for *Haemophilus influenzae* type b (Hib) vaccination catch-up vaccination

PRP-OMP is the Hib formulation contained in Liquid PedvaxHIB® and Comvax®.

PRP-T is the Hib formulation contained in Hiberix® and Infanrix-Hexa®.

Previous vaccination history	Age at presentation	Type of Hib vaccine to be used	1 st dose	2 nd dose	3 rd dose	Booster dose
0 doses	3-6 months	PRP-OMP	Give now	1 month later	Not needed	At 12 months
		PRP-T	Give now	1 month later	2 months later	At 12 months
	7-11 months	PRP-OMP	Give now	1 month later	Not needed	At 12 months or 2 months after 2 nd dose (whichever is later)
		PRP-T	Give now	1 month later	Not needed	At 12 months or 2 months after 2 nd dose (whichever is later)
	12-14 months	PRP-OMP	Give now	Not needed	Not needed	2 months later
		PRP-T	Give now	Not needed	Not needed	At 18 months
15-59 months	EITHER	Give now	Not needed	Not needed	Not needed	
1 previous dose (given at least 4 weeks previously)	3-6 months	PRP-OMP	PRP-OMP previously given	Give now	Not needed	At 12 months
		PRP-T	Either HIB vaccine previously given	Give now	2 months later	At 12 months
	7-14 months	EITHER	Previously given	Give now	Not needed	At 12 months or 2 months after 2 nd dose (whichever is later)
	15-59 months	EITHER	Previously given	Not needed	Not needed	Give now
2 previous doses of PRP-OMP	12-59 months	EITHER	Previously given	Previously given	Not needed	At least 2 months after last dose ⁽¹⁾
2 previous doses of PRP-T (or 1 of each of PRP-OMP and PRP-T)	7-14 months	EITHER	Previously given	Previously given	2 months after last dose	18 months of age, at least 2 months after last dose
	15-59 months	EITHER	Previously given	Previously given	Not needed	At least 2 months after last dose ⁽¹⁾

NOTE: When PRP-OMP is used in an extremely preterm baby (<28 weeks' gestation or <1500 g birth weight), an additional dose should be given at 6 months of age, ie. doses should be given at 2, 4, 6 and 12 months of age

(1) A booster dose is not needed if the last previous dose was given at >15 months of age

Queensland Health Eligibility for Funded Vaccines as at June 2009

Vaccine	Queensland Health Provides Funded Vaccines for:
Diphtheria, tetanus, pertussis (school program)	<ul style="list-style-type: none"> ▪ Students currently in Year 10 who missed vaccination in the School Based Vaccination Program in the year vaccination was offered. ▪ Adolescents not at school who would normally be in Year 10
Hepatitis A	<ul style="list-style-type: none"> ▪ Aboriginal and Torres Strait Islander children at 18 and 24 months. ▪ Catch-up funded up to 5th birthday.
Hepatitis B (School Program)	<ul style="list-style-type: none"> ▪ All infants born on or after 1.5.2000 ▪ Infants of HBsAg positive mothers. ▪ Household contacts of acute and chronic hepatitis B carriers. ▪ Susceptible sexual partners of persons with acute and chronic hepatitis B carriers. ▪ Susceptible injecting drug users. ▪ People with hepatitis C or chronic liver disease. ▪ Aboriginal and Torres Strait Islander people until the age of 18 years. ▪ Ethnic groups and countries with estimated prevalence of HBsAg carriage being equal to or greater than 5% until the age of 18. ▪ Hepatitis B is currently offered to Year 8 students in the school based vaccination program. ▪ Students who receive the first dose of hepatitis B vaccine in the year they were eligible (Year 8) will be able to access their second dose to complete the course until 31 December of the following year. ▪ If the course of 2 doses of hepatitis B adult vaccine (given 4 to 6 months apart) is not completed in this period the remaining dose of vaccine will need to be purchased with private prescription.
Human Papillomavirus (School Program)	<ul style="list-style-type: none"> ▪ The community-based HPV catch-up program (delivered through general practice and community immunisation services), is provided for: <ul style="list-style-type: none"> • 12 to 13* (Year 8 in Queensland) to 18 year old girls who have not completed their course at school; and • 18 to 26 year old women (first dose must be given prior to 27th birthday). <p>The program finishes on 30 June 2009, so to be eligible for free vaccine, all females in the above age groups must have started the course with their first dose of the vaccine on or before 30 June 2009, and complete all 3 doses by 30 December 2009.</p> <p>*Note: Eligibility is from the age of the first year of secondary school.</p>
Influenza (annually)	<ul style="list-style-type: none"> ▪ Aboriginal and Torres Strait Islander adults aged 50 years and older. ▪ Aboriginal and Torres Strait Islander adults aged 15-49 years with risk factors as defined in the current edition of the Immunisation Handbook. ▪ All other adults aged 65 years and older.
Measles Mumps Rubella	<ul style="list-style-type: none"> ▪ All children at 12 months and 4 years (need two doses). ▪ Those born on or after 1.1.1966 are eligible for 1 funded vaccination.
Meningococcal C	<ul style="list-style-type: none"> ▪ All children once they reach 12 months of age. Catch-up funded if born on or after 01/01/2002.
Pneumococcal Vaccination	<ul style="list-style-type: none"> ▪ All children: <ul style="list-style-type: none"> ▪ Prevenar[®] at 2, 4 and 6 mths with catch-up funded up to 24 months of age. ▪ Aboriginal and Torres Strait Islander children: <ul style="list-style-type: none"> ▪ Prevenar[®] at 2, 4 and 6 mths with catch-up funded up to 24 months of age. ▪ Pneumovax23 at 24 months of age if primary course of Prevenar given. No catch up after 27 months. ▪ Medical-at-risk children: <ul style="list-style-type: none"> ▪ Prevenar[®] at 2, 4, 6 and 12 mths, with Pneumovax23 at 4 years of age. ▪ Catch-up funded up to 5th birthday. ▪ Adults (Pneumovax23[®] only): <ul style="list-style-type: none"> ▪ Aboriginal and Torres Strait Islander adults aged 50 years and older: A single revaccination 5 years later. ▪ Aboriginal and Torres Strait Islander adults aged 15-49 years with risk factors as defined in the current edition of the Immunisation Handbook: revaccination 5 years after the first dose and then again at 50 years or 5 years after the first revaccination, whichever comes later. ▪ All other adults aged 65 years and older: A single revaccination 5 years later.
Rotavirus (Oral vaccine)	<ul style="list-style-type: none"> ▪ All infants born after 1.5.2007 at 2, 4 and 6 mths. 1st dose must be given before end of 12th week, 2nd dose must be given before the 28th week and 3rd dose must be given before end of 32nd week. If dose 1 is not given by the end of the 12th week do not commence course. If dose 2 is not given by the end of the 28th week it can be given up to the end of the 32nd week but infants should not receive dose 3. There must be 4 weeks between each dose.
Varicella	<ul style="list-style-type: none"> ▪ All children once they reach 18 months of age (with no previous history of Varicella vaccination or chickenpox infection). ▪ Those aged 13 years or students in Year 8 (with no previous history of Varicella vaccination or chickenpox infection). ▪ Year 8 students aged 14 years require two doses. They are eligible to receive their second free dose from their GP, while still in Year 8.
Refugees	<ul style="list-style-type: none"> ▪ Under 8 years – as per normal catch up ▪ 8 years and over – 3 x Hepatitis B, 1 x Boostrix, 2 x ADT, 3 x IPV, 2 x MMR

Unless otherwise specified, funded vaccine will be provided for catch-up by Queensland Health Immunisation Program, up to the age of 8 years

Minimum Intervals Between Vaccines for Catch Up

Vaccine	Doses 1—2	Doses 2—3	Doses 3—4
DTPa ⁽¹⁾	4 weeks	4 weeks	6 months
Poliomyelitis (IPV)	4 weeks	4 weeks	1 month ⁽²⁾
Hepatitis A - paediatric	6 months		
Hepatitis B – paediatric (3 Doses)	4 weeks	8 weeks	
Hib (any type)	See Hib vaccine catch up section		
Pneumococcal (7vPCV)	See Pneumococcal catch up section		
MenCCV ⁽³⁾			
MMR	4 weeks		
Rotavirus (RotaTeq) ⁽⁴⁾	4 weeks	4 weeks	
Hepatitis B Year 8 (2 Adult Doses) ⁽⁵⁾	4 – 6 months		
Varicella Year 8 ⁽⁶⁾	4 weeks		
HPV (Gardasil) ⁽⁷⁾	1 month	3 months	

Bold = Funded vaccines used in QLD

NA = Not applicable

- (1) If DTPa is only available in combination with other antigens (eg DTPa-IPV, DTPa-hepB-IPV-Hib), these formulations can be used where necessary for primary course or catch-up doses in children <8 years of age.
- (2) If the 3rd dose of IPV is given after 4 years of age, a 4th dose is not required. However, if using a combination vaccine, it is acceptable to receive a 4th dose.
- (3) The schedule is a single dose given at 12 months of age. Alternative schedules are available for children less than 12 months of age. See Meningococcal section of immunisation handbook.
- (4) First dose of RotaTeq must be given by the end of the 12th week of age; 3 dose course must be completed by the end of the 32nd week of age.
- (5) For 11-15 year olds, a 2 dose course of HB-Vax II (Adult) 4-6 months apart, or Engerix-B (Adult) 6 months apart can be used. A 3 dose course of paediatric Hep B vaccine needs to be used for those <20 years of age.
- (6) Two doses of varicella required if aged 14 years or over at time of first dose.
- (7) Optimal schedule is 0, 2 & 6 months; however if a shorter vaccination schedule is necessary it can be administered at 0, 1 & 4 months.

IMMUNISATION CATCH-UP WORKSHEET

NAME:		DATE TODAY:	
ADDRESS:		DATE OF BIRTH:	
MEDICARE NO:		AGE:	
Australian Indigenous Status:		Aboriginal <input type="checkbox"/>	Both <input type="checkbox"/>
		TSI <input type="checkbox"/>	Neither <input type="checkbox"/>
Other:		Overseas / Refugee <input type="checkbox"/>	

Dose	1	2	3	4	COMMENTS
Antigen	(For recording, use X for previously given vaccinations O for those required)				
Hepatitis B	Birth	2mths	4mths	6mths	
Hib	2mths	4mths	6mths	12mths	Catch up to 5 years only
DTP/DT	2mths	4mths	6mths	4yrs	After 4 years of age - next dose is Boostrix in Year 10
OPV/IPV	2mths	4mths	6mths	4yrs	
Prevenar	2mths	4mths	6mths		Catch up to 2 years only; extra dose at 12 months if medical at risk
Rotavirus	2mths	4mths	6mths		First dose must be given prior to end of 12 th week of age; minimum 4 weeks between doses; the last dose must be given by the end of the 32 nd week of age.
MMR	12mths	4yrs			
Men C	12mths				
Varicella	18mths				Also funded for Year 8 students – 2 doses if aged 14 years
Hepatitis A	18mths	24mths			<i>INDIGENOUS ONLY</i>
Pneumovax 23	2yrs or 4yrs				<i>INDIGENOUS, MEDICAL AT RISK CHILDREN AND OVER 65 YEARS ONLY</i>
HPV	DOSE 1	DOSE 2	DOSE 3		<i>FEMALES 13 TO 26 ONLY UNTIL END 2009; THEN YEAR 8 GIRLS ONLY</i>
BCG	<i>REFER TO SPECIALISED HEALTH QTBC – 3896 3955</i>				

Date	Interval to next dose	Vaccines and Dose Number
	Now	
	months from last	
	months from last	
	months from last	

Medical Officer/ Nurse

Date