PneumoSmart Vaccination Tool

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Background

- Release of the 10th Edition Australian Immunisation Handbook in 2013:
 - Healthy non-Indigenous ≥65 recommended 1 dose 23vPPV
 - Healthy Indigenous ≥50 recommended 2 doses 23vPPV
 - Providers introduced to Category A and Category B medical conditions and 13vPCV for adults
 - Category A recommended 1 dose of 13vPCV and up to 3 dose 23vPPV
 - Some doses funded, some not
 - Category B recommended 0 doses of 13vPCV and 2 or 3 doses
 23vPPV depending on age
 - Some doses funded, some not



The Australian Immunisation Handbook



Tategory A: Conditions associated with the highest increased risk of invasive pneumococcal disease

- Functional or anatomical asplenia (e.g. sickle cell disease)
- Immunocompromising conditions (e.g. congenital or acquired immune deficiency, immunosuppressive therapy, solid organ transplant, HIV infection, chronic renal failure and other malignancies)
- Proven or presumptive cerebrospinal fluid leak
- Cochlear implants
- Intracranial shunts

Category B: Conditions associated with an increased risk of invasive pneumococcal disease

- Chronic cardiac disease (e.g. cyanotic heart disease or cardiac disease)
- Chronic lung disease (e.g. cystic fibrosis, severe asthma in adults)
- Diabetes
- Down syndrome
- Alcoholism
- Chronic liver disease
- Pre-term birth at <28 weeks gestation
- Tobaccosmoking

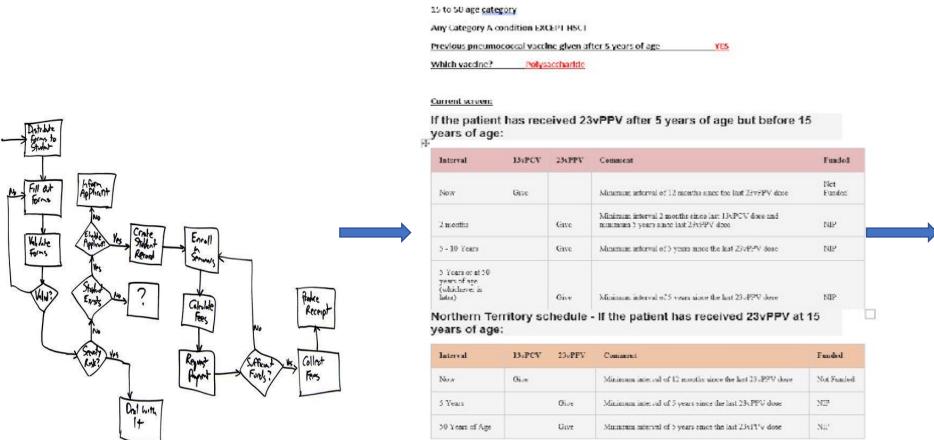
Background

- Provider education delivered in General Practices in South Australia
 - Consistently found providers were confused
 - Unknown vaccine history
 - poor patient recall
 - vaccine not able to be reported to ACIR
 - Afraid to 'over-vaccinate' Significant association between number of 23vPPV doses received and ISR
 - Do I PBS script or is it NIP?
 - Opening 'Pandora's box' in an already busy consultation
 - Need a 'simple tool'

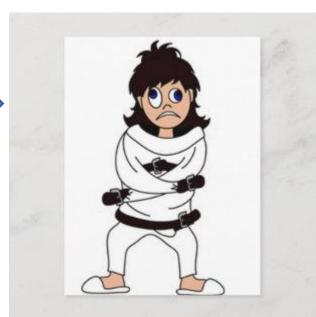


Development

- Originally planned as a paper version desk-top tool
- Web based tool created in 2013/2014
- 2015 Immunisation Coalition hosted



Does the patient identify as Indigenous?*



2020 Pneumococcal Vaccination Schedule Changes

List 1: Risk factors associated with an increased risk of pneumococcal disease and their eligibility for funding under the NIP

Risk condition	Eligibility for NIP fun	
Risk condition	<5 years of ago	25 years of ago
Previous episode of invasive pneumococcal disease	-	
Functional or anetomical aspienia, including		
- sickle cell disease or other haemoglobinopathies	1	1
- congenital or acquired explenia (for example, splenentomy) or hyposplenia		1
Immunocompromising conditions, including	1.7	
 congenital or acquired immune deficiency, including symptomatic IgG subclass or isolated IgA deficiency 	-	*
- haematological malignancies		*
- solid organ transplant	-	1
- haematopoietic stem cell transplant	- 5	1
HIV infection immunosuppressive therapy, where sufficient immune reconstitution for vaccine.		
response is expected; this includes those with underlying conditions requiring but not yet receiving immunosuppressive therapy		
 non-haematological malignancies receiving chemotherapy or radiotherapy (currently or anticipated) 		
Proven or presumptive cerebrospinal fluid (CSF) leak, including		
- cochlear implants	- /	1
- Intracranial shunts		
Chronic respiratory disease, including		
- suppurative lung disease, bronchiectasis and cystic fibrosis		1
- chronic lung disease in preterm infants		1
- chronic obstructive pulmonary disease (COPD) and chronic emphysems		- 4
 severe ashma (defined as requiring frequent bospital visits or the use of multiple medications) 		1
- interstitul and fibrotic lung disease		
Chronic renal disease		
- relapsing or persistent reprioritie syndrome	-	1
- chronic renal impairment - eGFR <30 mL/min (stage 4 or 5 disease)	"	
Cardiac disease, including		
- congenital heart disease	-	
- coronary artery disease	4	
- heart failure	4	
Children born less than 28 weeks gestation Trisomy 21	1	
Chronic fiver disease, including		
- chronic hepatitis		
- cirrhosis - bilary atresis		
Dishetes .		
Smoking (current or in the immediate past)		
Harmful use of alcohol (Defined as consuming on average ≥60 g of alcohol (6 Australian standard drinks) per day for males and ≥40 g of alcohol (4 Australian standard drinks) per day for females) * Funded under the NIP for eSFR <15 ml /min only (including patients on dialysis) † Individual conditions listed beneath or those that are similar based on clinical judgment.		

Note: All children and adults with above conditions are recommended to receive additional pneumococcal vaccine doses but eligibility for NIP funding is as shown in shaded boxes.

PneumoSmart



PneumoSmart

The PneumoSmart Vaccination Tool (herein referred to as "the tool") has been created using the pneumococcal disease vaccination recommendations in the online Australian Immunisation Handbook, and has been developed to assist GPs, medical specialists and other immunisation providers to comply with them. As pneumococcal disease vaccination recommendations change, the tool will be updated by clinical experts at the Immunisation Coalition.

Catch-up pneumococcal immunisations for children less than 5 years of age are complex. Appropriate catch-up vaccines should be offered as recommended:

- . in the online Australian Immunisation Handbook.
- · as per the Immunisation Calculator
- catch-up schedule for 13vPCV for Aboriginal and Torres Strait Islander children living in New South Wales, Victoria, Tasmania or the ACT, and all children who do not have risk condition(s) for pneumococcal disease, aged less than 5 years.
- catch-up schedule for 13vPCV for Aboriginal and Torres Strait Islander children living in Northern Territory, South Australia or Western Australia only, and all children with risk condition(s) for pneumococcal disease, aged less than 5 years

Important information:

If no written records are available to confirm pneumococcal disease vaccination status, or the type of vaccine (Conjugate or Polysaccharide) that may have been previously administered, the provider shall proceed as if the patient has not received previous vaccinations for pneumococcal disease.

I have read and agree to the Terms and Conditions of use for the Pneu	imoSmart	Vaccination 1	Iool.
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Proceed

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Patient's Details

Details below a	re for Clinician	reference only	liw hne v	not be kent	in our	database	records
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ate of Birth		

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Patient's Details

Details below are for Clinician reference only and will not be kept in our database records

Pneumo Coccal

01/01/19/8

Mary

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Does the patient identify as an Aboriginal and/or Torres Strait Islander Person?





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Does the patient have one or more of the following conditions?

Type in or scroll through the conditions below and click to select all conditions relevant to the patient.

Or if none apply type in and select; **None of the above**

Click here to enter a condition

Haematopoletic stem cell transplant

Previous episode of invasive pneumococcal disease

Sickle cell disease or other haemoglobinopathies

Congenital or acquired asplenia (for example, splenectomy) or hyposplenia

Congenital or acquired immune deficiency, including symptomatic IgG subclass or isolated IgA deficiency

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Does the patient have one or more of the following conditions?

Type in or scroll through the conditions below and click to select all conditions relevant to the patient. Or if none apply type in and select; **None of the above**.

* Previous episode of invasive pneumococcal disease

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Was one or more of the risk factors diagnosed at age 12 months or younger?





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Has the patient received any pneumococcal vaccine before?



○ No

Unknown

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Which vaccine did the patient receive?

Conjugate - 1 JPCV - Prevenar
Polysaccharide - 23PPV - Pneumovax23
Both 13PCV & 23PPV (Prevenar & Pneumovax23)
House

Important Information:

If no written records are available to confirm pneumococcal vaccination status, or the type of vaccine (Conjugate or Polysaccharide) that may have been previously administered, the provider shall proceed as if the patient has not received previous pneumococcal vaccinations.

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Which vaccine did the patient receive?

Conjugat	e - 1	3PCV -	Prevenar
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Polysaccharide - 23PPV - Pneumovax23

Both 13PCV & 23PPV (Prevenar & Pneumovax23)

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Review Details

Patient Name:

Pneumo Coccal

Patient Age:

01/01/1978

Does the patient identify as an Aboriginal and/or Torres Strait Islander Person: **No** Conditions:

Previous episode of invasive pneumococcal disease

Was risk condition diagnosed on or before 12 months of age:

No

Previously Vaccinated:

Yes

Which Vaccine:

Polysaccharide - 23PPV - Pneumovax23

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Vaccination Report

Patient Name Date of Birth
Pneumo Coccal 01/01/1978

Does the patient identify as an Aboriginal and/or Torres Strait slander person.

No

Conditions:

- Previous episode of invasive pneumococcal disease

Was risk condition diagnosed at aged 12 months or younged

No

Has the patient received the pneumococcal vaccine before:

Yes

Which Vaccine

Polysaccharide - 23PPV - Pneumovax23

Vaccination Summary

If the patient was diagnosed with risk conditions after 12 months of age and previously received one dose of 23vPPV the patient should receive:

When Due	Give	Comment	Funding
Now	13VPCV	Minimum interval of	NIP
		12 months since the	
		last 23vPPV dose	
5 years later	23vPPV (Dase 2)	Recommended 12	NIP
		months (2-month	
		interval is acceptable)	
		since last 13vPCV and	
		a minimum interval of	
		5 years since last	
		23vPPV dose	

If the patient was diagnosed with risk conditions after 12 months of age and has previously received **two doses** of 23VPPV in their lifetime, the patient should receive:

When Due	Give	Comment	Funding
Now	13vPCV	Minimum interval of	NIP
		12 months since the	
		last 23vPPV dose	

Start Over

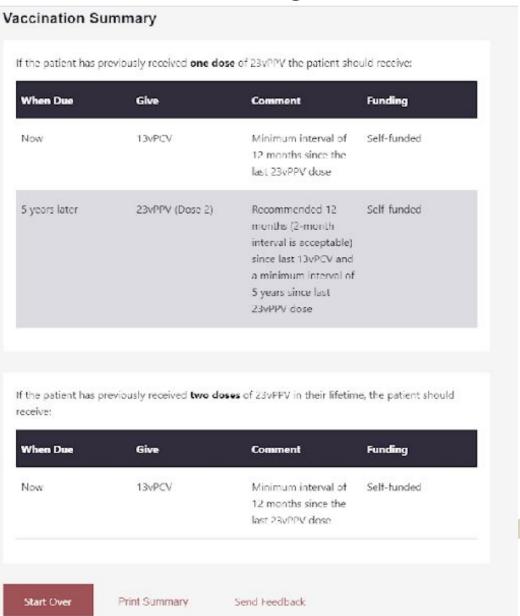
Print Summary

Send Feedback

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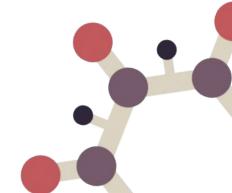
Same patient....but we have chosen 'Diabetes' as his diagnosis







- The Tool is updated by a team of SME's
- Easily accessed
- Quick
- Patients will be appropriately vaccinated

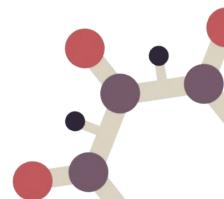


Indigenous Age:	Non-Indigenous Age:
0 – 12 month: 16	0 – 12 month: 33
13 months to 4 years and 11 months: 43	13 months to 4 years and 11 months: 83
5 years to 49 years and 11 months: 224	5 years to 49 years and 11 months: 2,558
50 years and older: 362	70 years and older: 2,812
Indigenous previously vaccinated:	Non-Indigenous previously vaccinated:
Unsure: 13	Unsure: 63
23vPPV: 217	23vPPV: 2,727
Both 13vPCV and 23vPPV: 27	Both 13vPCV and 23vPPV: 226
Not proviously vaccinated: 351	Not proviously vaccinated: 2 257

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Since 25 October2020 there has been6,131 entries



Thank you

Please don't be shy....use the Tool and let us know what you think!

