

Influenza immunisation 2020 & other hot and cold topics





- Welcome many professional groups
- CC & HNE LHD self- reporting professional development
- Education session for Authorised Nurse immunisers counts towards annual update but not a complete annual update by itself.
- Thanks to PHN, Colleen & Donna @ CC PHU



Vaccines makes life possible







Provide vaccines





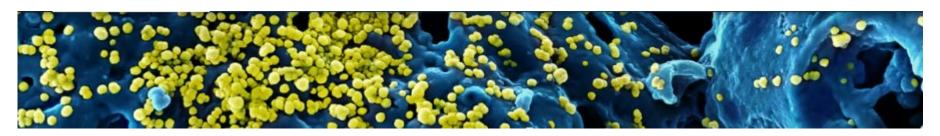


Samoa pop 200,000 Sept – Dec 2019 5,700 cases measles 61 deaths < 4 years Earth pop 7.8 Billion Jan – March 2020 470,973 cases Covid19 Zero Deaths < 9 years



Coronaviruses





- Hundreds of corona viruses animals
- Jump to humans spillover
- 7 corona viruses cause human disease
- 4 mild disease 229E, OC43, NL63 and HKU1
- SARS (severe acute respiratory syndrome)
- MERS (Middle East respiratory syndrome
- SARS-CoV-2 causes Covid-19



R14 many respiratory viruses have no vaccine

R.
Y

Respiratory Nucleic Acid Detection	Location No: JH20M44586
Specimen Source	Swab
Rapid Influenza A RNA	Not Detected
Rapid Influenza B RNA	Not Detected
Rapid RSV RNA	Not Detected
Influenza A RNA PCR	Not Detected
Influenza B RNA PCR	Not Detected
RSV RNA PCR	Not Detected
Picornavirus RNA PCR	Not Detected
Enterovirus RNA PCR	Not Detected
Parechovirus RNA PCR	Not Detected
Parainfluenza 1 RNA PCR	Not Detected
Parainfluenza 2 RNA PCR	Not Detected
Parainfluenza 3 RNA PCR	Not Detected
Adenovirus DNA PCR	Not Detected
Metapneumovirus RNA PCR	Not Detected
B.pertussis DNA PCR	Not Detected
M.pneumoniae DNA PCR	Not Detected
Human Coronavirus RNA	DETECTED
SARS-COV-2 RNA	Not Detected





Respiratory Nucleic Acid Detection Specimen: Swab		No: JH20M44586
Specimen Source Rapid Influenza A RNA Rapid Influenza B RNA Rapid RSV RNA Influenza A RNA PCR Influenza B RNA PCR	Wab Not Detected Not Detected Not Detected Not Detected Not Detected	
RSV RNA PCR Picornavirus RNA PCR Enterovirus RNA PCR Parechovirus RNA PCR Parainfluenza 1 RNA PCR Parainfluenza 2 RNA PCR Parainfluenza 3 RNA PCR Cause of Adenovirus DNA PCR Metapneumovirus RNA PCR "common cold"	Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected	Name for the virue
B.pertussis DNA PCR NOT COVID-19 M.pneumoniae DNA PCR Human Coronavirus RNA SARS-CoV-2 RNA	Not Detected Not Detected DETECTED Not Detected	Name for the virus that causes COVID-19



Disease control without a vaccine



Why social distancing matters Social distancing of 1.5 metres decreases the exposure of coronavirus (COVID-19). 5 Days Now 30 Days Infects ****** 406 People infected 1 Person 2.5 People infected 5 Days 30 Days 50% less exposure Infects 1.25 People infected **15** People infected 1 Person 75% less exposure 5 Days 30 Days Infects .625 People infected 2.5 People infected 1 Person



Pneumococcal vaccine and coronavirus (COVID-19)







- Pneumococcal vaccines (Pneumovax 23 and Prevenar 13) protect against disease such as pneumonia caused specifically by the bacterium *Streptococcus pneumoniae*, or pneumococcus
- Pneumococcal vaccines will not provide protection against the novel coronavirus infection.



Influenza versus COVID-19 (SARS-CoV2)

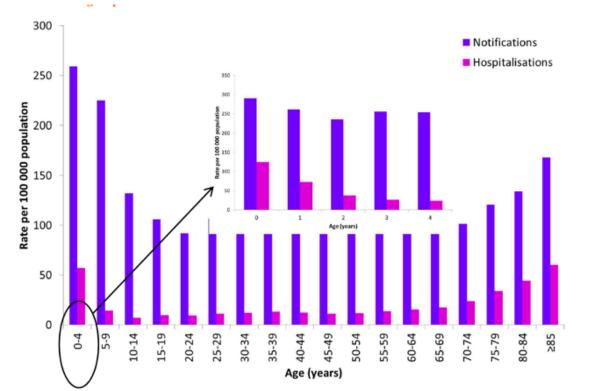


	COVID-19 (SARS-CoV2)	Seasonal Influenza (Influenza virus)
Incubation period	2-14 days Median onset 5 days	1-4 days Median 2 days
R ₀ (number of secondary cases resulting from single case in non-immune population)	~2-3	~1.3
Mortality rate	? 1-2% overall 15% in 80+ years	0.01-0.1 %
Highest Risk groups	Older adults Chronic medical conditions Children – Iow attack rates, less severe	All ages Attack rates highest in children Mortality highest in elderly and those with chronic medical conditions
Prevention and management	No population immunity No vaccine/specific treatment	Partial immunity Vaccination Anti-virals





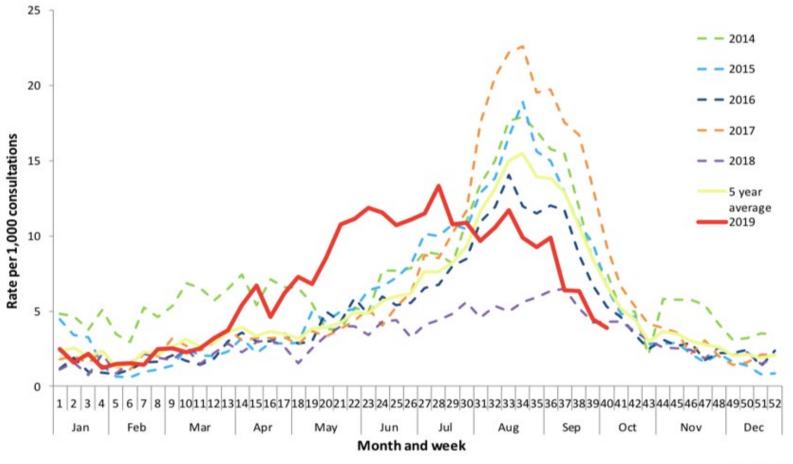
Average annual influenza notification and hospitalization rates in Australia (2010-2013)



The Australian Immunisation Handbook, 10th ed



Influenza-like illness (ILI) 2014-2019





Source: ASPREN

FluTracking

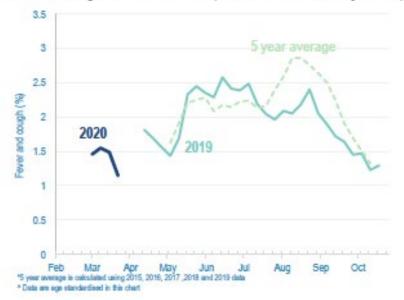




This week influenza-like illness activity is low 54,207 participants this week

Influenza-like illness activity:

Fever and cough: 1.5% this week (flu-like illness activity is low)





Weekly Interim Report: Australia Week ending 22 March 2020 (Data received up to 09:00 AM, Thursday 26 March)

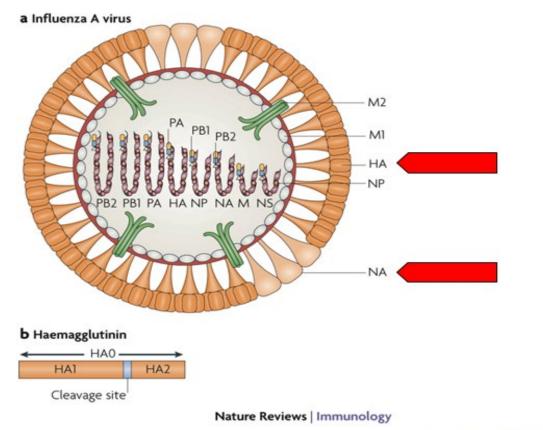
2019 season in Australia

- On average, each year influenza causes ~
 - 3,500 deaths
 - 18,000 hospitalisations
 - 300,000 GP consultations
- Characteristics of season
 - Australia had mainly A(H3N2), followed by A(H1N1)pdm, some B's
 - FluCan data
 - High number of hospital admissions 3915 (April 1-Oct 6) (725 2018, 3969 2017)
 - 6.3% admitted directly to ICU (8.1% 2018, 8.9% 2017; 7% 2015, 11% 2014)
 - Most hospitalizations due to A(H3N2), then B, small number of A(H1N1)pdm
 - Influenza deaths (NNDSS); 902 med. 86y (<1-106y)



The haemagglutinin and neuraminidase are the main targets of the protective antibody response

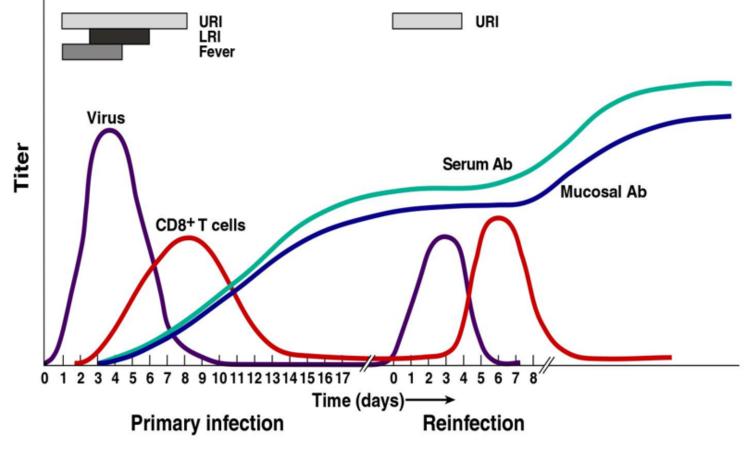








Course of Immune response during influenza infection



Source: Subbarao et al. Immunity 24, 5-9 (2006)



VE for Influenza vaccines used in Australia in 2019

influenza virus	Flu	1+	Flu	I -	
and age group	v	UV	v	UV	VE (95% C
A or B					
All ages	341	698	1024	1021	
Children <18y	59	278	93	239	47% (23)
Adults 18–64y	174	374	622	691	51% (39)
Elderly 65y+	104	40	295	75	48% (15
A/H1					
All ages	27	64	1024	1021	59% (33)
Children <18y	2	19	93	239	 77% (15
Adults 18–64y	16	43	622	691	58% (24
Elderly 65y+	9	1	295	75	NA
A/H3					
All ages	247	408	1024	1021	39% (25
Children <18y	34	138	93	239	34% (-4
Adults 18-64y	124	232	622	691	41% (25
Elderly 65y+	86	36	295	75	52% (20
в					
All ages	40	185	1024	1021	65% (49
Children <18y	19	104	93	239	58% (28
Adults 18-64y	19	76	622	691	—— 76% (61
Elderly 65y+	2	3	295	75	NA

-20

0

Based on ASPREN & VicSPN GP data, estimates by WHO CC

Vaccine effectiveness

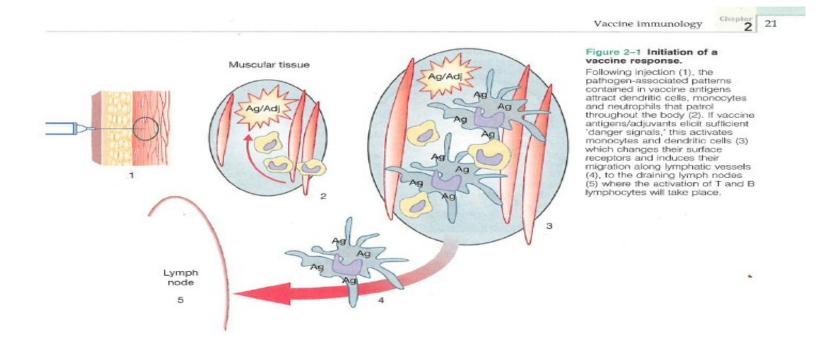
50

100



Adjuvant improve immune response





2020 Fluad Quad contains MF59C.1, an adjuvant. MF59C.1 adjuvant is a squalene based oil-in-water emulsion.

Squalene is a normal component in the human body and is easily metabolized and excreted.

Flu AD Flu -Adjuvant



2020 Influenza vaccines



Table 1. Seasonal influenza vaccines registered and available for use in Australia in 2020, by age

Vaccine Registered age group	FluQuadri 0.50 mL (Sanofi)	Vaxigrip Tetra 0.50 mL (Sanofi)	Fluarix Tetra 0.50 mL (GSK)	Afluria Quad 0.50 mL (Seqirus)	Influvac Tetra 0.50 mL (Mylan)	Fluad Quad 0.50 mL (Seqirus)
6 to 35 months (<3 years)	✓	✓	√*	x	x	x
≥3 to <5 years	~	~	✓*	x	~	x
≥5 to <65 years	✓*	✓*	✓*	✓*	~	x
≥65 years	~	~	~	✓	1	√t

Ticks indicate age at which a vaccine is registered and available. Shaded boxes represent funding under the NIP.

* Funding only for Aboriginal and Torres Strait Islander people, pregnant women and people who have certain medical conditions.

[†] Adjuvanted QIV preferred over standard QIVs.

- Vaxigrip Tetra " can be used for people from 6 months of age but should be prioritised for the universal 6 month to 5 year program.
- FluQuadri and Fluarix Tetra can be given from 6 months of age and should be prioritised for NIP eligible medically at risk patients.





NIP Eligibility



All people ≥6 months of age are strongly recommended to receive annual influenza vaccine.

NIP funded groups:

- All people aged 6 months to less than 5 years (newly NIP eligible in 2020)
- All Aboriginal and Torres Strait Islander people aged 6 months and over
- Pregnant women (during any stage of pregnancy)
- All people aged 65 years and over
- People aged 6 months and over with medical conditions which increase the risk of influenza disease complications



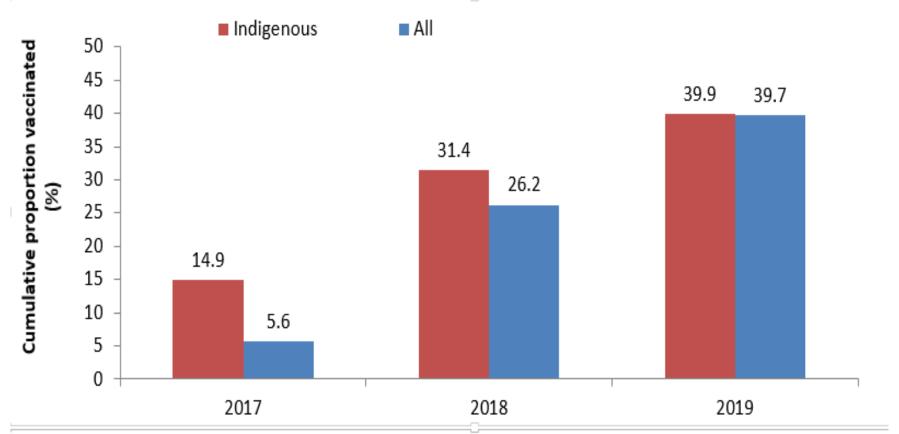
Influenza vaccination in pregnancy

- Influenza vaccine is recommended in every pregnancy and at any stage of pregnancy
- Influenza vaccine can safely be given at the same time as pertussis vaccine
- For women who received an influenza vaccine in 2019, revaccinate if the 2020 influenza vaccine becomes available before the end of pregnancy
- For women who receive an influenza vaccine before becoming pregnant, revaccinate during pregnancy to protect the unborn infant





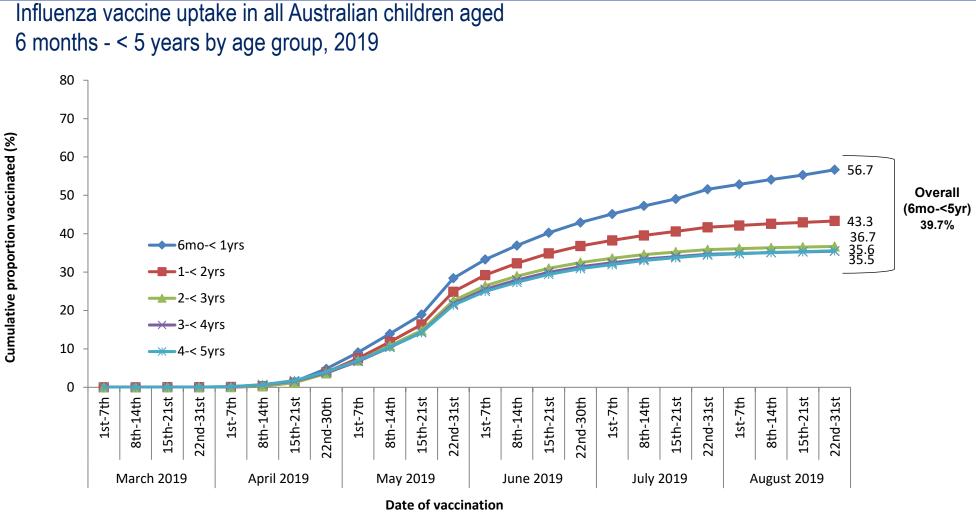
Influenza vaccine uptake in children aged 6 months - <5 years Indigenous versus all children, 2017 - 2019



Inpublished data from AIR, courtesy of Alex Hendry, NCIRS (submitted for publication)







Source: Australian Immunisation Register; unpublished data analysed by Alex Hendry NCIRS

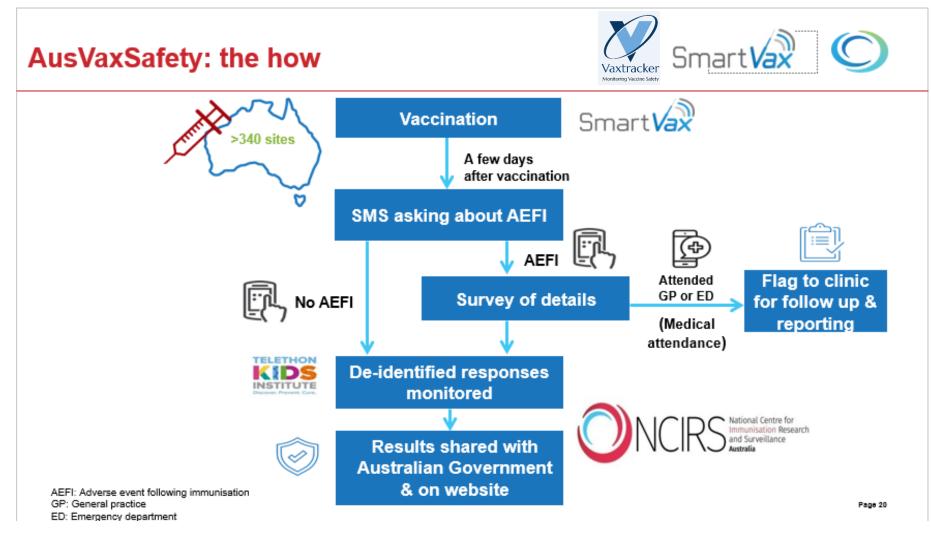




- · A single annual dose of influenza vaccine is recommended
- 2 doses at least 4 weeks apart are <u>only</u> recommended for:
 - children aged 6 months to <9 years receiving influenza vaccine for the first time
 - people of any age receiving influenza vaccine for the first time after haematopoietic stem cell or solid organ transplant
- However, receipt of 2 separate doses in the same season is not contraindicated
 - may benefit some individuals due to personal circumstances, such as travel or if pregnancy spans vaccination seasons

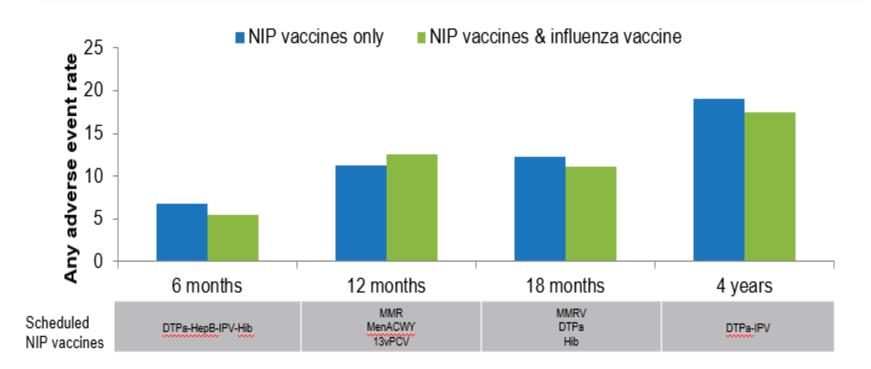








No difference in AEFI when influenza vaccines given with scheduled NIP vaccines





Pregnant women (2019)

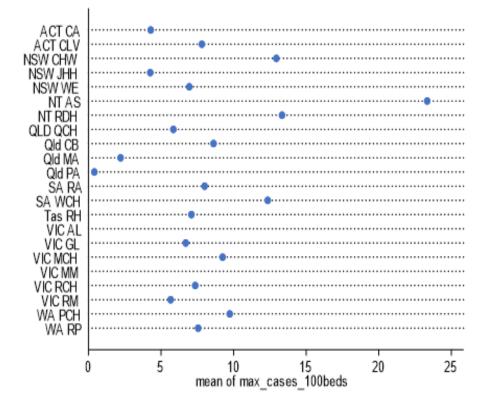








FluCAN: Peak admissions per week in 2019 from lab confirmed influenza



- Max incidence 4.5 admissions/week (week 27)
- Mean LOS 4.9 days
- Max prevalence 3.2%





Influenza Vaccination Provider Toolkit

Updated 1 March 2020

2020 INFLUENZA VACCINE 6 months – less than 5 years • Vaxigrip Tetra	2020 INFLUENZA VACCINE 6 months – 64 years • Fluarix Tetra • FluQuadri
2020 INFLUENZA VACCINE 6 months – less than 5 years • Vaxigrip Tetra	2020 INFLUENZA VACCINE 6 months – 64 years • Fluarix Tetra • FluQuadri
2020 INFLUENZA VACCINE 6 months – less than 5 years • Vaxigrip Tetra	2020 INFLUENZA VACCINE 6 months - 64 years • Fluarix Tetra • FluQuadri
Privately Funded Influenza Vaccines	2020 INFLUENZA VACCINE 5 - 64 years • Afluria Quad
Privately Funded Influenza Vaccines	2020 INFLUENZA VACCINE 5 – 64 years • Afluria Guad
Privately Funded Influenza Vaccines	2020 INFLUENZA VACCINE 5 – 64 years • Afluria Quad
2020 INFLUENZA VACCINE 65 years and over • Fluad Quad	2020 INFLUENZA VACCINE 65 years and over • Fluad Quad
2020 INFLUENZA VACCINE 65 years and over • Fluad Quad	2020 INFLUENZA VACCINE 65 years and over • Fluad Quad



Coalition for Epidemic Preparedness Innovations (CEPI)



Monday, March 16, 2020

NIH clinical trial of investigational vaccine for COVID-19 begins

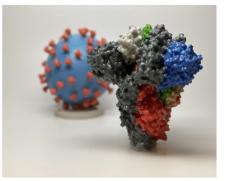
Study enrolling Seattle-based healthy adult volunteers.

🗟 f 🖌 +

A Phase 1 clinical trial evaluating an investigational vaccine designed to protect against coronavirus disease 2019 (COVID-19) has begun at Kaiser Permanente Washington Health Research Institute (KPWHRI) in Seattle. The National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institutes of Health, is funding the trial. KPWHRI is part of NIAID's Infectious Diseases Clinical Research Consortium. The open-label trial will enroll 45 healthy adult volunteers ages 18 to 55 years over approximately 6 weeks. The first participant received the investigational vaccine today.

The study is evaluating different doses of the experimental vaccine for safety and its ability to induce an immune response in participants. This is the first of multiple steps in the clinical trial process for evaluating the potential benefit of the vaccine.

The vaccine is called mRNA-1273 and was developed by NIAID scientists and their collaborators at the biotechnology company Moderna, Inc., based in Cambridge, Massachusetts. The Coalition for Epidemic Preparedness Innovations (CEPI) supported the manufacturing of the vaccine candidate for the Phase 1 clinical trial.



3D print of a spike protein of SARS-CoV-2—also known as 2019-nCoV, the virus that causes COVID-19—in front of a 3D print of a SARS-CoV-2 virus particle. The spike protein (foreground) enables the virus to enter and infect human cells. On the virus model, the virus surface (blue) is covered with spike proteins (red) that enable the virus to enter and infect human cells. For more information, visit *NI*H

"Finding a safe and effective vaccine to prevent infection with SARS-CoV-2 is an urgent public health priority," said NIAID Director Anthony S. Fauci, M.D. "This Phase 1 study, launched in record speed, is an important first step toward achieving that goal." OF QUEENSLAND UQ NEWS

HOME TOPICS T SEARCH NEWS UQ RESPONDS CONTACTS

Race to develop coronavirus vaccine

24 January 2020

The University of Queensland has been asked to develop a vaccine for the recent coronavirus outbreak at unprecedented speed, using new technology.

The Coalition for Epidemic Preparedness Innovations (CEPI) has requested the University use its recently developed rapid response technology to develop a new vaccine, which could be available worldwide in as little as six months.

UQ Vice-Chancellor and President Professor Peter Høj

AC said the fluidity of the current outbreak represented a significant challenge to the international community.

"There is a lot that is still unknown regarding how easily the virus is able to be transmitted between humans," he said.

"Working with CEPI, The University of Queensland is using its vaccine technology to respond to this global health challenge."



https://www.nih.gov/news-events/news-releases/nih-clinical-trial-investigational-vaccine-covid-19-begins



What reactions should we be looking out for with this years influenza vaccines?

ACCINE

Vaxigrip TETRA (for 6mo to <5years FULL DOSE)

Table 1 - Frequency of unsolicited adverse reactions within 7 days after vaccination with Vaxigrip Tetra in adults (18 to 60 years of age) and elderly (> 60 years of age)

		(18 to 60 years) (N=3040)	rly (> 60 years) (N=1392)	
Subjects experiencing at least one:	96	Frequency	96	Frequency
General disorders and administration site conditions				
Local reactions				
Injection site pain	52.8	Very Common	25.8	Very Common
Injection site erythema	7.6	Common	7	Common
Injection site swelling	5.9	Common	3.5	Common
Injection site induration	5.7	Common	3	Common
Injection site ecchymosis	0.9	Uncommon	0.4	Uncommon
Systemic reactions				
Malaise	19.2	Very Common	9.3	Common
Shivering	6.2	Common	4.3	Common
Fever	1.3	Common	0.9	Uncommon
Nervous system disorders		-		-
Headache	27.8 Very Common		15.6	Very Common
Musculoskeletal and connective tissue diso	rders			
Myalgia	23	Very Common	13.9	Very Common





 In children, injection site reaction, irritability, appetite loss and fever

• In adults- pain at injection site





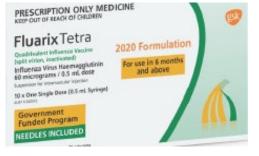


Fluarix Tetra (for 6mo to 64 year old)

Table 1: FLUARIX TETRA: Incidence of adverse reactions per dose in subjects ≥18 years of

age

System Organ Class	Frequency	Adverse Reactions
Nervous system disorders	Common	Headache
	Uncommon	Dizziness ¹
Gastrointestinal disorders	Common	Gastrointestinal symptoms (including nausea, vomiting, diarrhoea and/or abdominal pain)
Skin and subcutaneous tissue disorders	Common	Sweating ²
Musculoskeletal and connective	Very common	Myalgia
tissue disorders	Common	Arthralgia
General disorders and	Very common	Injection site pain, fatigue
administration site conditions	Common	Injection site redness, injection site swelling, shivering, fever, injection site induration ²
	Uncommon	Injection site hematoma ¹ , injection site pruritus ¹



¹ Reported as unsolicited adverse reaction



Afluria Quad (5 – 64 years of age)

	Afluria® Quad vaccine N=854 ^b				
	Any	Gr 3			
Local Adverse Reactions	c				
Pain	47.9	0.7			
Swelling/Lump	3.7	0.1			
Redness	2.9	0			
Systemic Adverse Events ^d					
Myalgia (muscle ache)	25.5	1.9			
Headache	21.7	1.7			
Malaise	8.9	0.7			
Nausea	6.9	0.6			
Chills	4.8 0.6				
Vomiting	1.5	0.4			
Fever	1.1	0.4			





Table 1: Incidence of Solicited Local and Systemic Adverse Events^a in the Solicited Safety Population^b Reported within 7 Days After Dosing (Study V118_20)

		Percentage	(%) of Subject	ts Reporting a	a Solicited Ev	ent	
	Fluad [®] Quad Fluad [®] N=883 N=439			FIV-2 =438			
Local (Injection site	e) Reaction	s					
	Anyc	Severed	Any ^c	Severed	Anyc	Seve PRESCRIPTION ONLY MEDICINE	
Injection site pain	31.9	0.0	29.1	0.9	25.7	O.	
Erythema	7.6	0.0	7.4	0.3	8.6	0.0	
Induration	7.0	0.0	5.4	0.0	5.3	0. ELLIAD Quad	
Ecchymosis	2.5	0.1	1.5	0.0	1.5		5 YEARS
Systemic Reaction	s	1 1		1	ł	U. Inactivated Quadrivalent Influenza Vaccine (Surface Antigen), Adjuvanted Influenza Virus Haemagglutinin	OLDER ONLY
Fatigue	16.0	0.7	15.4	0.7	11.5	60 microgram/0.5 mL	MMENT FUNDED
Headache	12.0	0.5	10.6	0.7	11.3	0.	GRAM - 2020
Arthralgia	9.1	0.3	8.5	0.0	7.1	1.	
Myalgia	8.1	0.5	7.8	0.0	6.9	O.	
Diarrhoea	5.5	0.6	5.5	0.5	6.9	For internascular use only	Con
Chills	4.7	0.2	3.4	0.5	4.4	0. 10xt3 mL PRE-FRLED SYRINGES HERDLE-FREE AUST R 312724	sequru
Nausea	4.0	0.2	4.1	0.0	4.6	0.9	
Loss of appetite	3.2	0.2	4.8	0.0	3.7	0.5	
Vomiting	0.8	0.1	0.5	0.0	2.1	0.7	
Fever	0.5	0.1	0.2	0.0	0.5	0.0	



- An Adverse Event Following Immunisation (AEFI) can be any unexpected or serious outcome that happens following administration of a vaccine.
- It may be related to the vaccine itself, handling of the vaccine or its administration.
- An AEFI can be coincidentally associated with the timing of immunisation without necessarily being caused by the vaccine or immunisation process
- National reporting form note in NSW the form is to send to your PHU not TGA





- All influenza vaccine to be administered IM at 90 deg
- Individuals from 9 years of age: one injection of 0.5 mL dose. (except for...)
- Children from 6 months to 8 years of age:

•If the child has not previously been vaccinated: two 0.5 ml injections at least one month apart.

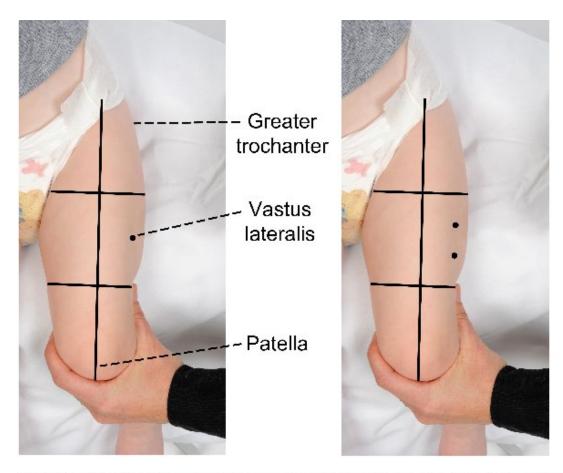
• If the child has been previously vaccinated: a single 0.5 ml injection.



Recommended injection sites by age



Infants < 12-months

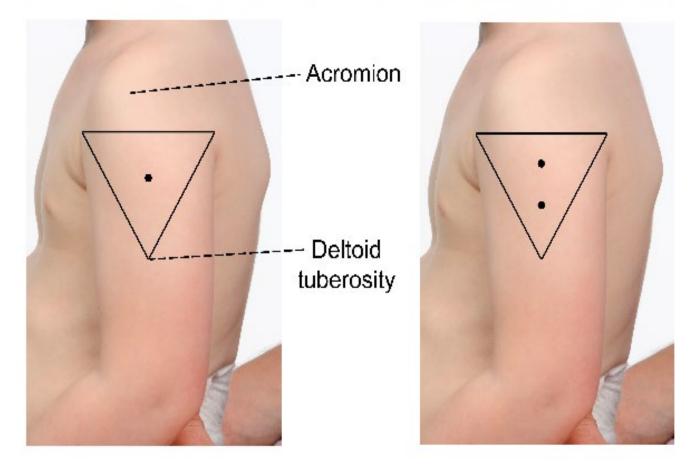


Do not inject into the anterior aspect of the thigh as underlying structures may be damaged.



Children \geq 12-months of age, adolescents and adults

More than one vaccine can be given into the deltoid muscle ensuring each vaccine is separated by 2.5cm.





Implications of incorrect injection technique

Injection site reactions –

more likely if vaccine inadvertently given into subcutaneous tissue

 <u>Shoulder injury related to vaccine</u> administration (SIRVA)





- Q. Anaphylaxis to previous influenza vaccine or components A. should not have vaccine
- Q. Egg allergy A. good to have vaccine
- Q. When is it too late in the season? –A. offer all season
- Q. I've had influenza this season do I need the vaccine? A. well yes, yes you should
- Q. Latex allergy and influenza vaccine A. nil latex
- Q. Hx of GBS should I vaccinate-A. Well depends

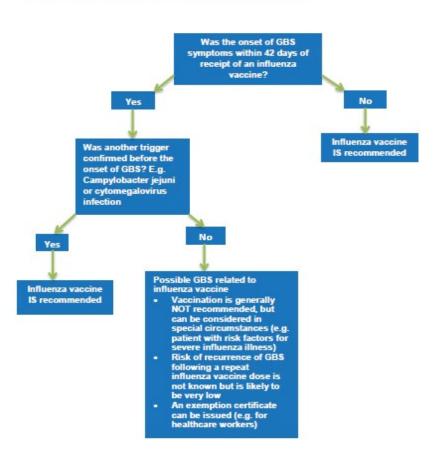


Influenza vaccine and patients with a history of GBS





APPROACH TO INFLUENZA VACCINATION IN PATIENTS WITH A HISTORY OF GUILLAIN-BARRÉ SYNDROME





Excellent Resources



Immunisation information for:





Health Professionals

The Public Va

NSW School Vaccination Program

Influenza Vaccination Provider Toolkit

Updated 1 March 2020

NCRS National Centre for Immunisation Research and Surveillance





Let's all be vaccine heroes.







PRESCRIPTION ONLY MEDICINE

Vaccine Storage and Cold Chain Management

🔳 Menu 🚦 About 🖪 Resources ? Help



This module contains audio, please make sure your speakers are turned on or your headphones are plugged in.

Click the Next > button to continue.

1 of 66





- All non aged care facilities must order online
- <u>https://nsw.tollhealthcare.com/</u>
- After all facilities receive their first order, subsequent orders can be filled
- DO NOT overfill your fridge use your order history on the vaccine centre website to monitor requirements.





Vaccine storage and cold chain management – see NSW Health Website

https://www.health.nsw.gov.au/immunisation/Pages/cold-chain-management.aspx

In order to obtain funded vaccines from the NSW Government, immunisation providers make a declaration that they will do the following:

- Follow the new National Vaccine Storage Guidelines 'Strive for 5' (3rd edition) 2019
- At least one person in the facility must have undertaken Vaccine Storage and Cold Chain Management online training module. (it is recommended that all staff coming into contact with vaccine fridges complete this module). <u>https://nswhealth.seertechsolutions.com.au/public_content/HETICP/HETI/CCMWebv3/story_html5.html</u>
- Only use a purpose built vaccine fridge to store vaccines
- Have a computerised temperature data logger (logger) to continuously record fridge temps.
 - New thermostability data enables some vaccines to be kept even when exposed to temperatures outside 2 8 degrees. In order to do this, the time outside these temps is needed, the only accurate method is with a logger
- Download the logger weekly, review the data and store files so they can be retrieved when required
- Document twice daily manual logging on the Commonwealth temperature graph (next slide)
- Contact the HNELHD immunisation team if temperatures outside 2-8 degrees (except excursions of >8°C to up to 12°C for no longer than 15 minutes).
- Conduct annual self audit Appendix 2 Strive for 5
- Educate ALL people who can come into contact with the vaccine fridge, the power supply or are responsible for ordering and receiving vaccines about vaccine storage management



R

Resources

https://www.health.gov.au/resources/publications/national-vaccine-storage-guidelines-strive-for-5vaccine-fridge-temperature-chart-poster

Hunter New England Immunisation Website

Under Immunisation Information for Health Professionals

Cold Chain Breach

Click form HERE to report a cold chain breach. (disregard temperatures < 12 degrees for < 15 mins)

http://www.hnehealth.nsw.gov.au/hneph/Immunisation/Pages/Cold-Chain-Breach.aspx

Vaccine Ordering and Management

If your facility is unable to order vaccines please contact us on 49246477 (eg. If there is a block on your account)

- Request for Vaccine Account Number for New Practice
- Vaccine Ordering
- To order new CCB labels (order extras)

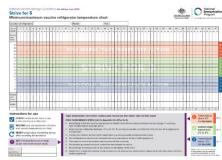


Vaccine Cold Chain Resources

- NSW MoH Vaccine Storage and Cold chain Management Policy Directive (Mandatory)
- Strive for 5
- Temperature Graph

http://www.hnehelth.nsw.gov.au/hneph/Immunisation/Pages/Vaccine-Ordering-and-Management.aspx





NSW Health - Cold chain toolkit for immunisation providers https://www.health.nsw.go v.au/immunisation/Docum ents/cold-chain-toolkit.pdf



Immunisation providers must report all cold chain breaches to their local public health unit.

- 1. Isolate vaccines and place a 'DO NOT USE' sign on the fridge.
- 2. Continue to store vaccines between +2°C to +8°C
- 3. Do not discard any vaccines.
- 4. Download and review the data logging report to assess the

duration of the breach and temperature the refrigerator reached.

Cold Chain Breach

Click form <u>HERE</u> to report a cold chain breach. (disregard temperatures < 12 degrees for < 15 mins)





You arrive at wo

What do I do? 1. Turn the alar 2. Is the door a 3. Is the power 4. Take a look a 5. Isolate your 6. What if the 7. Download you 8. When can you 9. Visit our web further instr

http://www.k



Vaccine Thermostability Data

CONFIDENTIAL NOT FOR FURTHER DISTRIBUTION				
NATIONAL IMMUNISATION PROGRAM AND NSW FUNDED VACCINES				
Vaccine	<2°C	>8 to ⊴25°C	>25 to ⊴37°C	
Rabipur	Discard	Maximum cumulative time 48 hours	Maximum cumulative time 48 hours to 30 C. Discard >30 C	
Rotartx	Stable to -18°C or if visibly frozen	Maximum cumulative time 72 hours	Maximum cumulative time 24 hours	
Tripcael	"Discard <0"C or visibly frozen	Discard	Discard	
Vaqta	7 days at 0°C to <2°C *Discard <0°C	Maximum cumulative time 72 hours	Discard	
Variirtx	Stable to -20°C	Maximum cumulative time 72 hours	Discard	
Vartvax	Stable to -50°C	Discard	Discard	
Verorab	"Discard <0"C	Discard	Discard	
Zostavax	-50°C unlimited time (vacdne) -20°C up to 10 days for 2 cycles only (water for injection diluent)	Maximum cumulative time of 6 hours	Discard	

Where is that back-up storage you have prepared, get it ready

Temperature above +8°C to less than +12°C for less than 15 minutes? 8 degi cos

our of re

reporting form and

Pages/Immunisation.asp

2

X 10.Gather together the details as described in the CCB form and phone the PHU, Immunisation team on 49246477 11. DO NOT DISCARD ANY VACCINES - why?



You arrive at wo

What do I do? 1. Turn the alar 2. Is the door a 3. Is the power 4. Take a look a 5. Isolate your 6. What if the 7. Download you 8. When can you 9. Visit our web further instr

http://www.k



Vaccine Thermostability Data

CONFIDENTIAL NOT FOR FURTHER DISTRIBUTION				
NATIONAL IMMUNISATION PROGRAM AND NSW FUNDED VACCINES				
Vaccine	<2°C	>8 to ⊴25°C	>25 to ⊴37°C	
Rabipur	Discard	Maximum cumulative time 48 hours	Maximum cumulative time 48 hours to 30 C. Discard >30 C	
Rotartx	Stable to -18°C or if visibly frozen	Maximum cumulative time 72 hours	Maximum cumulative time 24 hours	
Tripcael	"Discard <0"C or visibly frozen	Discard	Discard	
Vaqta	7 days at 0°C to <2°C *Discard <0°C	Maximum cumulative time 72 hours	Discard	
Variirtx	Stable to -20°C	Maximum cumulative time 72 hours	Discard	
Vartvax	Stable to -50°C	Discard	Discard	
Verorab	"Discard <0"C	Discard	Discard	
Zostavax	-50°C unlimited time (vacdne) -20°C up to 10 days for 2 cycles only (water for injection diluent)	Maximum cumulative time of 6 hours	Discard	

Where is that back-up storage you have prepared, get it ready

Temperature above +8°C to less than +12°C for less than 15 minutes? 8 degi cos

our of re

reporting form and

Pages/Immunisation.asp

2

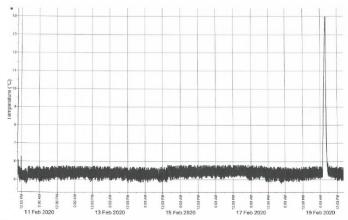
X 10.Gather together the details as described in the CCB form and phone the PHU, Immunisation team on 49246477 11. DO NOT DISCARD ANY VACCINES - why?



- Ensure more than one person knows how to use the logger
- This includes initiating, downloading, storing and emailing the file.

WHY

If you send a pdf, this is what we can see; We have no idea how long the fridge was above 8 degrees.





Learn how to email logger file to the PHU



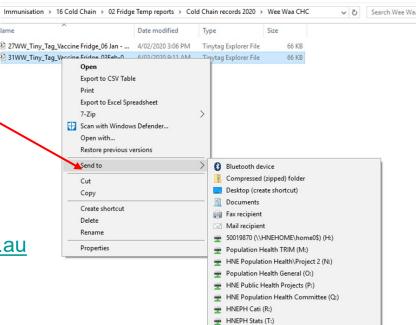
 Locate where file is stored on your computer or server LogTag

Name	Date modified	Туре	Size
1020018258 Started 17-Dec-19, Finished 0	6/01/2020 12:22 PM	Analyzer Document	12 KB
Tiny Tag			
Name	Date modified	Туре	Size
Fridge temp graph 20.2.19 to 26.2.20 OK	23/03/2020 1:16 PM	Tinytag Explorer File	50 KB

- Right click on the file
- Click on send to

There should be an option to send to mail recipient or similar. Click on this and add our email address and send.

hnelhd-phimmunisation@health.nsw.gov.au







Vaccines offered.

Year	Vaccine	Brand	Doses	Schedule
7	HPV	Gardasil 9	2	6 month gap
	dTpa	Boostrix	1	
10	Men ACWY	Nimenrix	1	



GOVERNMEN'



Meningococcal ACWY Vaccination for Year 10 students

Catch up is available in schools into Year 8 and 11 as below.

Year	Vaccine	Brand	Doses	Schedule
8*	HPV	Gardasil 9	2	6 month gap
	dTpa	Boostrix	1	
11^	Men ACWY	Nimenrix	1	

- * Where consent was given in Year 7
- ^ Where consent was given in Year 10



- The school program has been suspended in HNE at present recommencement for review in September 2020.
- Any student who has missed a vaccination at school will be caught up in the program during either 2020 or 2021.
- Practices should refer parents of these students back into the school program.
- Parents can be reassured that overdue school vaccines DO NOT incur income support penalties.



Conducting immunisation clinics in general practice

Immunisation services must continue!

Now more than ever, it is important to maintain high vaccination coverage levels to prevent outbreaks of vaccine preventable diseases in the community.

Providing vaccines recommended on the National Immunisation Program (NIP) is a priority.

Essential immunisation services should continue, in particular:

- Infant and early childhood
- Adolescent for catch up
- Winter influenza
- Adult and additional immunisations

https://www.health.nsw.gov.au/immunisation/Publications/nsw-immunisation-schedule.pdf



AGE	DISEASE	VACCINE
	CHILDHOOD VACCINES	
Birth	Hepatitis B	H-B-VAX II
		OR ENGERIX B
6 weeks	Diphtheria, tetanus, pertussis, Haemophilus Influenzae type b, hepatitis B, pollo	INFANRIX HEXA
	Pneumococcal	PREVENAR 13
4 months	Rotavirus Diphtheria, tetanus, pertussis, Haemophilus	ROTARIX INFANRIX HEXA
	Influenzae type b, hepatitis B, pollo	
	Pneumococcal	PREVENAR 13
	Rotavirus	ROTARIX
6 months ¹	Diphtheria, tetanus, pertussis, Haemophilus Influenzae type b, hepatitis B, polio	INFANRIX HEXA
12 months	Meningococcal ACWY	NIMENRIX
	Pneumococcal	PREVENAR 13
	Measles, mumps, rubella	MMR II OR PRIORIX
18 months	Diphtheria, tetanus, pertussis Measles, mumps, rubella, varicella	INFANRIX OR TRIPACEL PRIORIX TETRA OR PROQUAD
	Haemophilus influenzae type b	ACT-HIB
4 years ²	Diphtheria, tetanus, pertussis, polio	INFANRIX-IPV OR QUADRACEL
ADOLESCENT	VACCINES - SCHOOL VACCINATION	PROGRAM
Year 7	Diphtheria, tetanus, pertussis	BOOSTRIX
real 7	Human papillomavirus (2 doses)	GARDASIL 9
Year 10	Meningococcal ACWY	NIMENRIX
	ADULT VACCINES	
Pregnant women	Influenza (Annually-any trimester)	INFLUENZA
regnane women	Pertussis (ideally between 20-32 weeks)	BOOSTRIX OR ADACEL
65 years and over	Influenza (Annualty)	FLUAD QUAD
ob years and over	Pneumococcal	PNEUMOVAX 23
70 years (Catch-up for 71-79 years until 31 October 2021)	(One dose, unless medical risk factors ¹⁸) ⁴ Zoster	ZOSTAVAX
antirar october adalıy	AT RISK GROUPS	
All children 6 months	AT RISK GROOPS	
to < 5 years ⁴		
Aboriginal people 6 months and over	Influenza (annual)	INFLUENZA
6 months and over with medical risk conditions ⁴		
Aboriginal people 15-49 years with medical risk factors	Descure of the second s	
Aboriginal people 50 years and over	Pneumococcal ²	PNEUMOVAX 23

Recommendations for venues



Signage should be displayed at the entrances of all vaccination clinics and include the following information:

- Due to the ongoing coronavirus (COVID-19) pandemic, our clinic is taking measures to protect the community. It is vital that all instructions are followed
- Only one parent/guardian should accompany a child into the session
- People should not attend the session if they or their child have symptoms of a respiratory infection (such as fever, OR a sore throat, OR a runny nose, OR shortness of breath OR a cough) OR have returned from overseas in the past 14 days OR have been told to self isolate.
- Wash hands or use hand sanitiser provided at the entrance to reception or waiting area.



Consideration should be given to the translation of all signage and messaging into other key community languages

IMMUNISATION CLINICS

Due to the ongoing coronavirus (COVID-19) pandemic our clinic is taking measures to protect the community.

It is vital that all instructions are followed.

- Only one parent/guardian should accompany a child into the session
- People should not attend the session if they or their child:
 - have symptoms of a respiratory infection (such as fever, OR a sore throat, OR a runny nose, OR shortness of breath OR a cough)
 - OR
 - ✓ have returned from overseas in the past 14 days OR
 - ✓ have been told to self-isolate.
- Wash hands or use hand sanitiser provided at the entrance to reception or waiting area when entering and leaving the clinic.



Social distancing measures



- Remind staff that if they are unwell they **should not** attend work
- Send reminders to eligible patients and ask them to call in advance if they are not feeling well
- Ensure that a process is available to undertake a phone assessment
- Ask patients not to arrive early, phone before presenting to clinic.
- Make a staff member available to monitor queueing to ensure social distancing **Options:**
 - an appointment system for vaccinations
 - Patients wait in car to be phoned when time to come into clinic, then return outside/in car following vaccination
- Ensure administration, clinical and patient areas are wiped down <u>frequently</u> using a sodium hyporchlorite based solution.





- Arrange a process and a checklist to assess each patient as they arrive for their vaccination prior to entering the practice. This could include keeping doors locked and ask patients to call once they are outside
- Designate specific times throughout the week for vaccination clinics to ensure that only well patients are in the clinic during those times
- Ensure that seating and queuing areas allow 1.5 metres between clients and staff
- Remove all toys and magazines from your waiting room
- If available use alternative entrance/exit to avoid patients walking through waiting area





- Ensure that hand hygiene is performed between each patient
- Preferably wash hands or gel, before opening your vaccine fridge and repeatedly touching multi-dose boxes
- Minimise physical contact with client record documents
- Limit the vaccine process to one adult with the child/minor where possible
- Consider a separate room for clients to wait post vaccination dependant on numbers at each session or have clients wait outside/in cars.





Consider.....

Immunisation providers are usually recommended to vaccinate children who have minor illnesses (without acute systemic symptoms/signs). In the setting of the COVID-19 outbreak, immunisation providers should consider deferring routine immunisations for children with respiratory symptoms.

AEFI vs COVID-19

General advice not to attend clinic



Consider alternate models

Alternate locations for influenza vaccination clinics may also be considered if practicable such as an outdoor area e.g. practice car park. This could include combining/sharing resources and staff with other practices in your local area.

Points to consider for alternate models include:

- Patient/staff safety and comfort e.g. weather and traffic
- Requirements to maintain confidentiality and undertake pre-vaccination assessments
- Appropriate cold chain management
- Pre-vaccination waiting and post vaccination observation areas that provide social distancing
- Facilities/area to manage adverse events
- Maintaining vaccination records
- Bathroom and break facilities for staff
- Messaging to patients





Consider referring families to Child and family health clinics for routine immunisations. These clinics are held each regularly and are especially for immunising children. This should limit the risk of exposure to other illness. http://www.hnehealth.nsw.gov.au/hneph/Immunisation/ Pages/FREE-Immunisation-Clinic-Dates.aspx



Immunisation in Aged Care Facilities FAQs



Our vaccines have arrived. When do we start vaccinating our residents?

✓ Now! Administer influenza vaccines as soon as possible after they arrive at your facility.

The fridge at our facility is normally empty. What cold chain management am I required to do to in an ACF for the vaccines in my fridge?

 Fridges in ACF's are required to be monitored twice daily using a min/max thermometer for at least a week prior to vaccine storage then twice day until no vaccines are left in the fridge.

How is this year's over 65's vaccine different from last year's?

✓ 2020 over 65 vaccine is an enhanced (adjuvanted) Quadrivalent vaccine.

Will a dose of Pneumovax 23 help protect from Covid-19?

- There is currently no evidence to suggest that pneumococcal vaccine provides protection against COVID-19 pneumonia.
- ✓ Continue to give Pneumovax 23 for whom it is indicated.





FAQ's continued-



Does my ACF have to provide Flu vaccines for the staff?

 \checkmark All Aged Care providers are mandated to provide Influenza vaccines for their staff

Can we give them now or wait until April?

Staff should be vaccinated as soon as vaccines are available.

Can they have it elsewhere like at the Pharmacy?

✓ Yes, but a record must be provided to your ACF.

How do I respond to people who say that they don't want the vaccine because it just doesn't work very well?'

✓ As the vaccine is less effective as people age it is even more important to vaccinate the people providing care for best protection of the residents.

What's the best thing I can do to help protect residents from Covid-19?

Wash your hands! Get them and yourselves vaccinated for Influenza. People with concurrent respiratory disease are for more vunerable to COVID-19.
Use PPE appropriately.

How to access PPE for Aged Care sector



Aged care providers who require Personal Protective Equipment (PPE) email their request to <u>agedcarecovidppe@health.gov.au</u> *please do not approach Primary Health Networks.*

Requests:

- Are triaged by the Department of Health priority given to facilities, programs and workers where there has been a confirmed case of COVID-19.
- Can be made by aged care services and workers providing aged care support in the community
- Should include:
 - Facility, program or service name
 - Whether you have a confirmed COVID-19 case at facility
 - Type and quantity of PPE required note only masks available at present
 - Details of other suppliers from whom you have attempted to source PPE



This process also applies if facility is experiencing an Influenza outbreak.