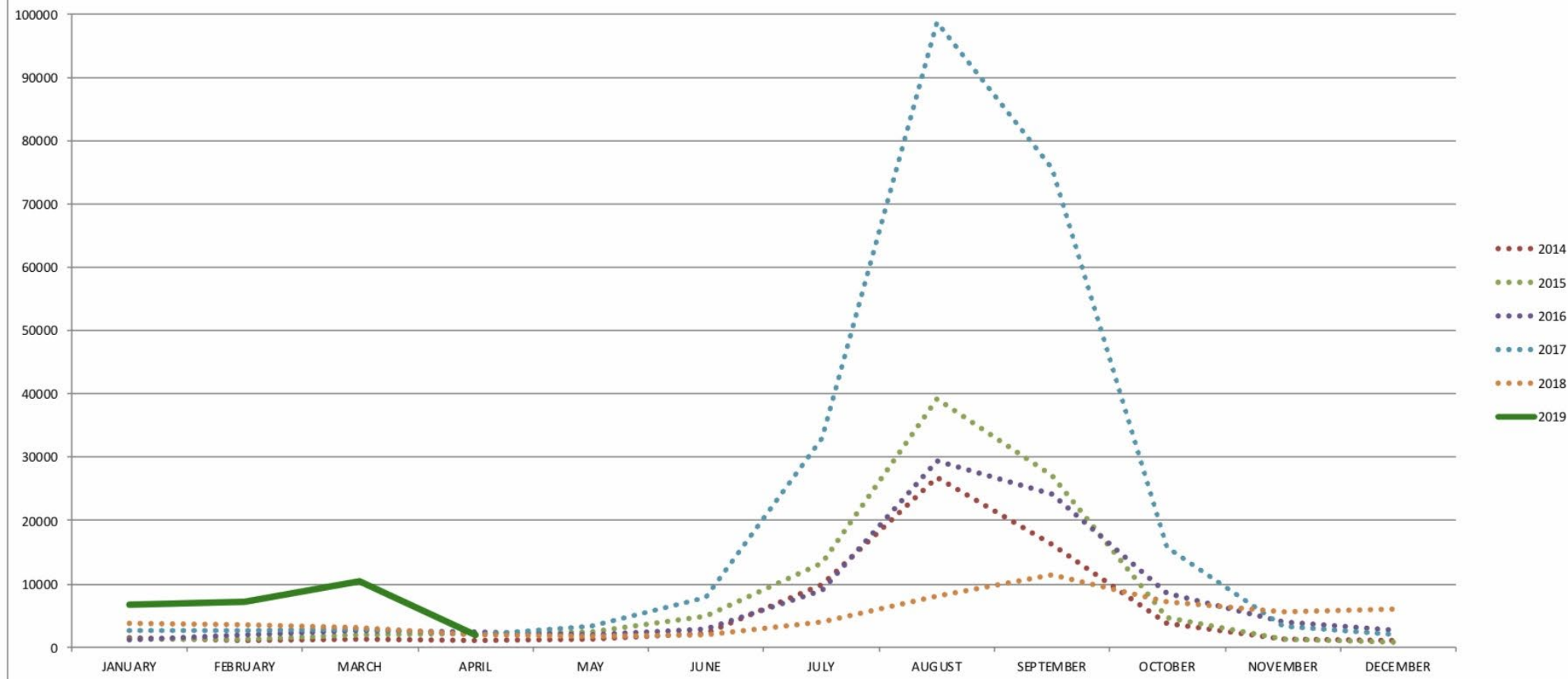




IMMUNISATION UPDATE 2019

DR LEANNE JONES



LOW IN 2018 WHY?



High vaccination rate



Under 5 vaccination



Use of high dose and attenuated vaccine in the over 65s



Health care worker vaccination



Mild season

INTERSEASONAL FLU



TRAVEL



ALWAYS CIRCULATING



Influenza remains a common cause of hospitalization and death in Australia



Annual Vaccination is recommended for Australians > 6 months

In 2018 over half cases 20-64 years old



Strains change from year to year depending on circulating viruses

2019 VACCINE

- A (H1N1) MICHIGAN 45/2015 (H1N1)PDM 09LIKE) VIRUS
- A (H3N2) SWITZERLAND 8060/2017(H3N2) LIKE VIRUS
- B(VICTORIALINAGE) B COLORADO 6/2017 LIKE VIRUS
- B(YAMAGATA LINAGE) B PHUKET/3073/2013 LIKE VIRUS (NOT IN TRIVALENT)

NIP FUNDED



Over 65



Pregnant women
at any stage in
pregnancy



ATSI over 6
months



Specified
medical
conditions

SPECIFIC MEDICAL CONDITIONS

Category	Vaccination strongly recommended for (but not limited to) people with the following clinical conditions
Cardiac disease	Cyanotic congenital heart disease Congestive heart failure Coronary artery disease
Chronic respiratory conditions [†]	Severe asthma (for which frequent medical consultations or the use of multiple medications is required) Cystic fibrosis Bronchiectasis Suppurative lung disease Chronic obstructive pulmonary disease (COPD) Chronic emphysema
Chronic neurological conditions [†]	Hereditary and degenerative CNS diseases [†] (including multiple sclerosis) Seizure disorders Spinal cord injuries Neuromuscular disorders
Immunocompromising conditions [‡]	Immunocompromised due to disease or treatment (e.g. malignancy, transplantation and/or chronic steroid use) Asplenia or splenic dysfunction HIV infection
Diabetes and other metabolic disorders	Type 1 diabetes Type 2 diabetes Chronic metabolic disorders
Renal disease	Chronic renal failure
Haematological disorders	Haemoglobinopathies
Long-term aspirin therapy in children aged 6 months to 10 years	These children are at increased risk of Reye syndrome following influenza infection

RECOMMENDED BUT NOT FUNDED

- CHILDREN AGE 6MONTHS TO <5YRS(STATES FUNDING)
- DOWNS SYNDROME, OBESITY (BMI >30), CHRONIC LIVER DISEASE
- RESIDENTS AND STAFF(INC VOLUNTEERS)OF AGED CARE AND LONG TERM RESIDENTIAL CARE FACILITIES
- HOMELESS PEOPLE
- CARERS AND HOUSEHOLD CONTACTS OF HIGH RISK GROUPS
- COMMERCIAL POULTRY OR PORK INDUSTRY WORKERS
- ESSENTIAL SERVICE PROVIDERS
- TRAVELLERS

CONTRAINDICATIONS

- ANAPHYLAXIS AFTER PREVIOUS DOSE OF ANY INFLUENZA VACCINATION
- ANAPHYLAXIS DUE TO ANY COMPONENT WITHIN THE INFLUENZA VACCINE
- *NOTE :EGG ALLERGY IS NOT A CONTRAINDICATION TO VACCINATION*

INFLUENZA VACCINES 2019

- FLUQUADRI JUNIOR
- FLUQUADRI
- FLUARIX TETRA
- AFLURIA QUAD
- INFLUVAC TETRA
- FLUZONE HIGH DOSE
- FLUAD

Table 2: Seasonal influenza vaccines available for use in Australia in the 2019 influenza season, by brand and recommended age

(from ATAGI advice for immunisation providers regarding the administration of seasonal influenza vaccines in 2019 [Table 1] – refer to [Additional resources for primary medical care/vaccination providers](#))

	Quadrivalent					Trivalent (for age ≥65 years only)	
	FluQuadri Junior 0.25 mL (Sanofi)	Fluarix Tetra 0.50 mL (GSK)	FluQuadri 0.50 mL (Sanofi)	Afluria Quad 0.50 mL (Seqirus)	Influvac Tetra 0.50 mL (Mylan)	Fluzone High-Dose 0.50 mL (Sanofi)	Fluad 0.50 mL (Seqirus)
Vaccine Registered age group							
<6 months	x	x	x	x	x	x	x
6 to 35 months (<3 years)	✓	✓*	x	x	x	x	x
≥3 to <5 years	x	✓	✓	x	x	x	x
≥5 to 17 years	x	✓	✓	✓	x	x	x
18 to 64 years	x	✓	✓	✓	✓	x	x
≥65 years	x	✓	✓	✓	✓	✓	✓

* Note that Fluarix Tetra uses a 0.5mL dose for children aged 6 to 35 months.

Table 3: Recommended doses of influenza vaccine by age

(from the current [Influenza disease chapter](#) of The Australian Immunisation Handbook – refer to immunisationhandbook.health.gov.au/vaccine-preventable-diseases/influenza-flu)

Age	Dose (volume per dose)	Number of doses needed in 1st year of influenza vaccination	Number of doses needed if person received 1 or more doses of influenza vaccine in a previous season
6 months to <3 years	FluQuadri Junior: 0.25 mL Fluarix Tetra: 0.5 mL	2 (given 4 weeks apart)	1
≥3 to <9 years	0.5 mL*	2 (given 4 weeks apart)	1
≥9 years	0.5 mL*	1	1
People of any age who have recently had a haematopoietic stem cell transplant or solid organ transplant	0.5 mL*	2 (given 4 weeks apart) in 1st year vaccinated after transplant	2 (given 4 weeks apart) in 1st year vaccinated after transplant then 1 annually

* If a child aged ≥3 years or an adult inadvertently receives a 0.25 mL dose of influenza vaccine, an age-appropriate dose (0.5 mL) should be repeated. Any additional dose(s) required that season or in future seasons should then be given following standard recommendations.

Protecting your baby against influenza starts when you're pregnant



- PROTECTS MOTHER
- PROTECTS FOETUS
- PROTECTS INFANT
- SAFE ANY TIME IN PREGNANCY – BIGGEST ISSUE IS AVAILABILITY

OVER 65

- 2 VACCINES FLUAD AND FLUZONE HD(NOT IN NIP 2019)
- BOTH TRIVALENTS
- 'HIGH DOSE' TIV SHOWN TO BE 24% MORE EFFECTIVE AGAINST LABORATORY CONFIRMED INFLUENZA THAN STANDARD TIV IN OVER 65S. THE ADJUVNATED TIV IS ESTIMATED TO BE MORE EFFECTIVE AGAINST HOSPITALIZATION FOR INFLUENZA OR PNEUMONIA THAN STANDARD TIV
- IF RECEIVED A QUADRIVALENT VACCINE DON'T REPEAT WITH TRIVALENT

OVER 65

Age 91% of deaths in 2017 were over 65

Chronic disease or care for those with chronic disease

Travellers

Care for grandchildren

Reduced immune response

Secondary complications of pneumonia and heart attack

PRACTICE POINTS

- INFLUENZA VACCINATION IS RECOMMENDED FOR ALL AUSTRALIANS
- INFLUENZA VACCINATION IS SAFE
- DIFFERENT VACCINATIONS FOR DIFFERENT AGES
 - UPLOAD TO AIR
- DON'T MISS AN OPPORTUNITY



RESOURCES

- <https://beta.health.gov.au/news-and-events/news/clinical-update-2019-influenza-vaccines-early-advice-for-vaccination-providers>
- <https://beta.health.gov.au/resources/publications/atagi-advice-on-seasonal-influenza-vaccines-in-2019>
- <https://immunisationhandbook.health.gov.au/vaccine-preventable-diseases/influenza-flu>
- <http://www.flu.tas.gov.au/>
- <http://www.immunisationcoalition.org.au/resources/influenza/>
- <http://www.ncirs.org.au/updated-fact-sheets-influenza-vaccines-australians-and-influenza-vaccines-faqs>