Influenza Preparedness in Aboriginal Community Controlled Health Services

Date Wednesday 15 May 2019: 12.30pm

Presenters Dr Sean Tobin

Ms Kylie A Taylor Dr Jennifer Bell

This education has been developed in partnership with Aboriginal Health & Medical Research Council of NSW and NSW Health







Healthy Profession. Healthy Australia.

Acknowledgement of Country

We recognise the traditional custodians of the land and sea on which we live and work.

We pay our respects to Elders past and present.



Healthy Profession. Healthy Australia.



Learning Outcomes

- · Discuss the differences between seasonal flu and a pandemic flu
- · Identify risk factors and their reduction strategies
- Increase appropriate influenza preparedness plans, and understand how seasonal flu preparedness helps with pandemic flu preparedness
- Improve the rates of influenza vaccinations and data quality



Healthy Profession. Healthy Australia.

Presenters



Medical Epidemiologist

Communicable Diseases
Branch, Health Protection NSW

Dr Sean Tobin



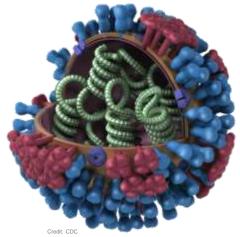
Dr Jennifer Bell Medical Director RivMed



Ms Kylie A Taylor Aboriginal Health Worker Communicable Diseases Team, HNE Population Health



Influenza (flu)





Hemagglutinin





Healthy Profession. Healthy Australia.

Influenza terminology

· Seasonal (human) influenza

 Strains previously adapted to humans; cause annual winter outbreaks

Pandemic influenza

- Influenza strains newly adapted to humans
- Cause a global outbreak of influenza in humans

· Avian influenza

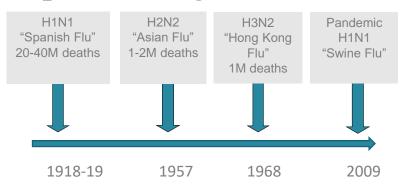
- Wild birds are the original and natural host of influenza viruses
- Most likely source of new pandemic influenza strains

Swine influenza

- Influenza viruses that have adapted to pigs
- Pigs susceptible to both human and avian strains so may allow viruses to combine into pandemic strains



Influenza pandemic years



* Exposure to similar H1N1 viruses in the 1950's explains why older adults now have better levels of protection to H1N1 since 2009



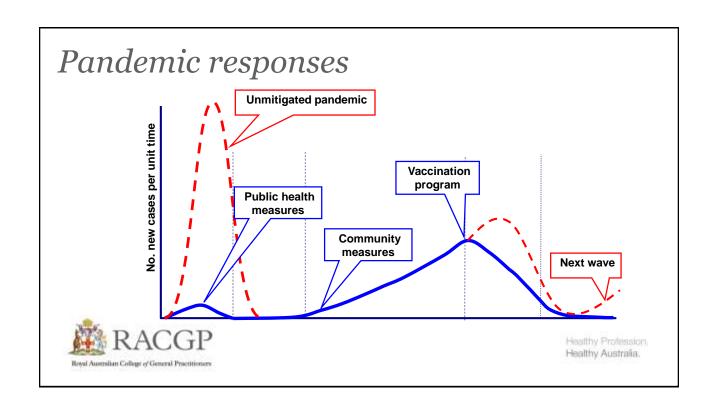
Healthy Profession. Healthy Australia.

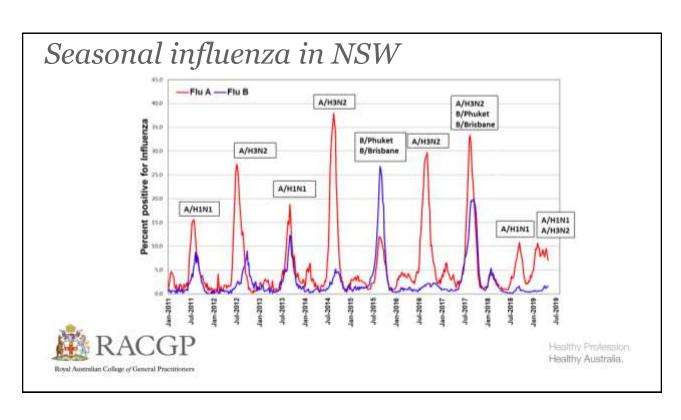
Pandemics and plans

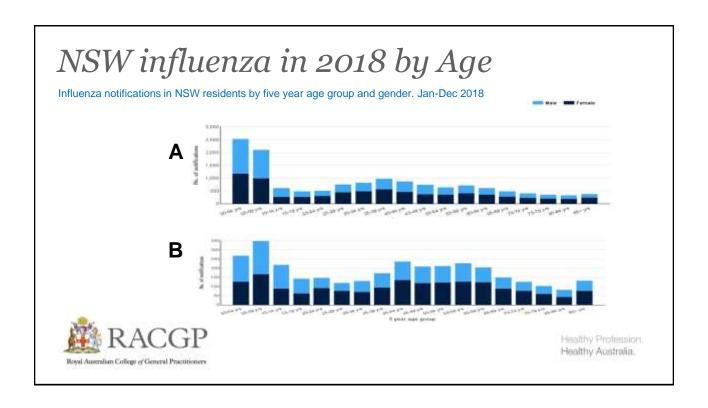
- Have the capacity to overwhelm health services
- · Cause fear and anxiety in the community
- · Difficult to predict when they will occur
- A state, national and international public health emergency
- Need for a high level of central coordination and communications from Health Departments







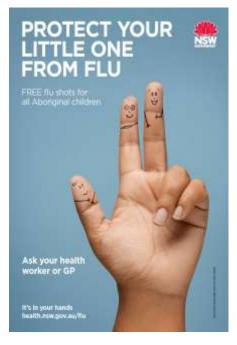


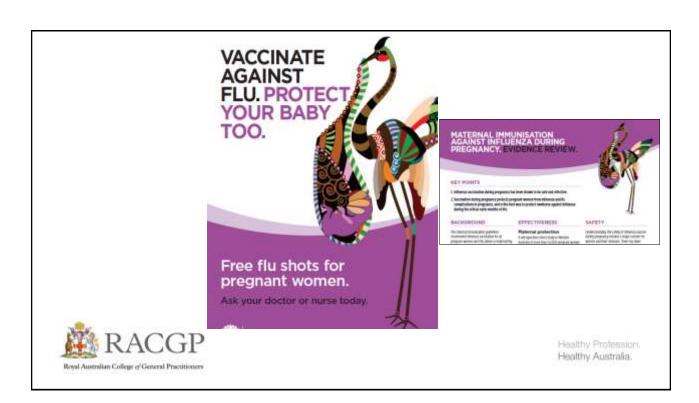


Flu impact in children

- Highest rates of flu hospitalisation in children under 5 years (with over 50 year olds)
- · Pneumonia and encephalitis complications
- Child flu deaths reported each year in children, mainly under 5 years
- Deaths not just in children with high-risk medical conditions (49% in one US study)
- Free flu vaccine for all Aboriginal children from 6 months (and adults)







Medically at risk groups







Credit – Sydney LHD

Healthy Profession. Healthy Australia.

Healthy Profession. Healthy Australia.

NSW Health resources for influenza

www.health.nsw.gov.au/flu

Royal Ameratian College of General Practitioners

Royal Asseralian College of General Practitioners



8

Families

- · Families are usually big & extended
- Kids & Elders are not separate they are a part of a family & a part of a community
- More than just a house there may be several homes
- Big families small houses (not overcrowding)
- · Realities of living





Healthy Profession. Healthy Australia.

Reducing risk at home

- · Increase handwashing
- Helping kids wash their hands & asking/reminding often
- Cough & sneeze etiquette tissues/gel/handwashing







Reducing risk at home (cont.)

- Pregnant women safe & effective to be immunised against flu
- Chronic conditions may be common underlying risk
- Traditional medicines/remedies
- Cultural practices & cultural connections = cultural strength & healing
- Holistic often helps with multiple things, not just flu
- Healthy eating
- Isolation & not sharing......







Healthy Profession Healthy Australia.



Reducing risk at gatherings

Celebrations are seen as just as important as sorry business – so people may still attend while sick with flu:

- · Letting the organisers know
- Standing back
- · Staying outside is safest
- Supply hand gel, tissues and bins
- Less lovin' up less kissing, less lovin' = less flu bugs spreadin'
- Mainstream advice v's common cultural practices/obligation



Reducing risk - actions

- Doctors, staff & AHW's need to speak positively about immunisation in pregnancy
- Families experience of conversation with clinicians and Aboriginal Health Workers have a ripple effect in family and community now and into the future for that family & the wider community.
- AMS's & local health services to consider supply/subsidise flu kits
- Making sure the people that need the service have access to the service



Healthy Profession. Healthy Australia.

Reducing risk – actions (cont.)

- Key message to Aboriginal community to present early so conversations about risk reduction and antivirals can be considered
- Local champions and local messages localise, personalise, humourise
- Sharing key messages through traditional social networks and social media networks

















Healthy Profession. Healthy Australia.

Recording vaccination KPIs

About RivMed Service and the Quality Improvement Project Mission

Within 12 months to improve the rates of influenza vaccinations to meet nKPI Goal 19 for people 50+ Immunised for Influenza of 60% in 2018.

- · New funding model
 - o 5 year funding agreements, with evaluation after 3 years
 - o Funding is based on Client Population + Episodes of Care adjusted by an equity loading
 - o Adjustment for **Service Provider Capability** performance measured by nKPI Reports
- · Services need to show that 5 of 7 selected nKPI's are at or above the trajectory -- GOAL



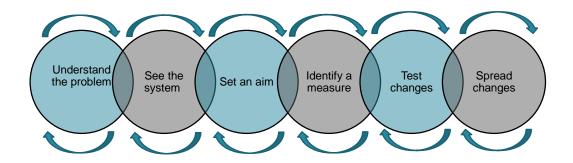
nKPIs & Trajectory

	Goal 4 Health Check 0-4 yrs (PI03 0-14)	Goel 14 Health Check 25-54 yrs (P103 25-54)	Goal 15 Health Check 55+ yrs (PIO3 55+)	Goal 18 Type 2 diabetes checks (PIOS)	Goal 17 Type 2 diabetes BP tests (Pl 23)	Goal 18 Type 2 diabetes renal function tests (PIIII)	Goal 19 50+ Immunised for Influenza (PI14)
ioal by 2023 →	69%	63%	74%	69%	70%	69%	64%
Trajectory for 2022 -	63.9%	58.5%	69,4%	68.5%	69.5%	68.5%	63.3%
Trajectory for 2021 →	58.7%	54.1%	64.8%	68.1%	68.9%	68.0%	62.6%
Trajectory for 2020 →	53.6%	49.6%	60.2%	67.6%	68,4%	67.5%	61.9%
Trajectory for 2019 →	48.5%	45.1%	55.6%	67.2%	67.9%	67.0%	61.3%
Trajectury for 2018 →	43.3%	40.7%	50.9%	66.7%	67.3%	66.6%	60.6%
Trajectory for 2017 →	38.2%	36.2%	46.3%	66.3%	66.8%	66.1%	59.9%
Trajectory for 2016 →	33.1%	31.7%	41.7%	65.8%	66.3%	65.6%	59.2%



Healthy Profession. Healthy Australia.

The improvement journey





What is the issue?

Initial discussions at management and clinical meetings

- Future funding amounts are calculated on outcomes i.e. meeting nKPI goals
 - 2016 RivMed are above 5/7 goals and below 2/7 goals
 - 2017 RivMed below in 1/7 goals Goal 19 50+ Immunised for Influenza

	Goal & Health Check 8-4 years		Goal 14 Health Check 25-54 yrs (24 mths)		Goal 15 Health Check 55+ yes		Goal 16 Type 2 Diabetes checks		Goal 17 Type 2 Diabetes 8P tests		Goal 18 Type 2 diabetes renal function tests		Goal 19 50+ Immunised for influenza	
	PI03 0-14	P103 0-14	PB3 25- 54	P100 25- 54	PI03 55+	PI03 55+	P105	P105	P123	P123	P018	PHS	P114	P114
200	Rivided	AHMRC	RivMed	AHMRC	RivMed	AHMRC	RivMed	AHMRC	RivMed	AHMRC	RivMed	Анмис	RivMed	AHME
200,6	62.59%	33.1%	72.17%	31.7%	73.25%	41.7%	82.47%	65.8%	70.10%	66.3%	59.31%	65.6%	42.24%	59.2%
2017	40.02%	30.2%	72:15%	36.2%	72.50%	46.3%	75.05%	66.3%	68.55%	66,8%	\$9,60%	66.1%	44.10%	59.9%

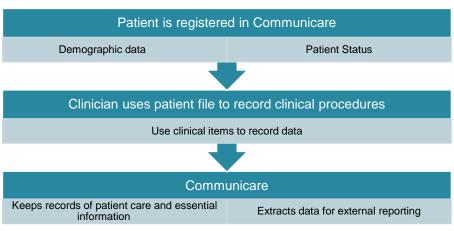
Clinical meetings reflect concerns in the data quality regarding influenza vaccinations

 Clinical staff believe our rates of influenza vaccinations are higher than the data from Communicare reports.

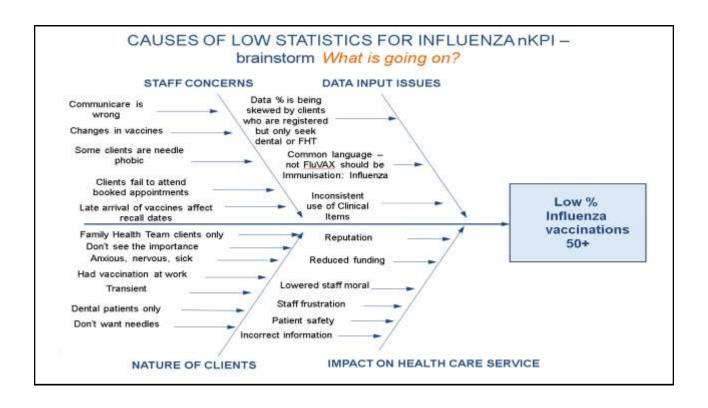


Healthy Profession. Healthy Australia.

How is influenza data being recorded?







What was our intention?

Initial meeting with project team

- What do we intend to do about the problem?
- What can we achieve?
 - Aim within 12 months to increase the rates of influenza vaccinations to meet nKPI Goal 19 for 2018 - people 50+ Immunised for Influenza of 60%

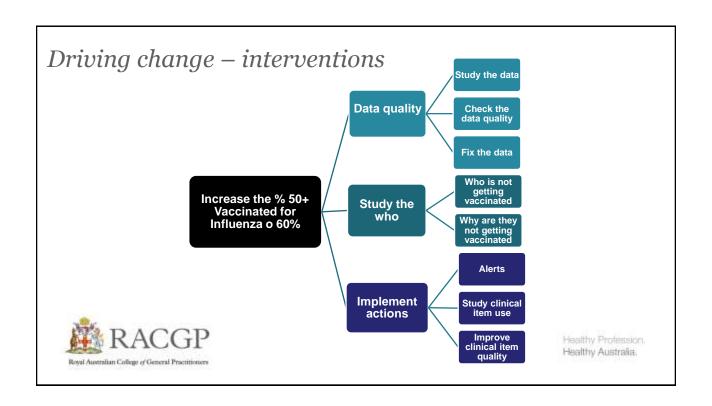


How do we know if we are successful?

Initial meeting with project team

- What can we achieve?
 - Reaching the 60% goal by the end of 2018





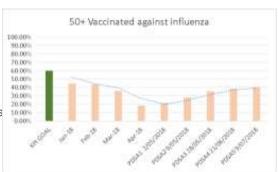


PDSA 1-5 - Intervention

May: Jackie and Michelle established a regular working group to consider the issue

- Run the reports
- Start collating the data to check whether improvement is happening
- Identify who is NOT vaccinated
- Place alerts in these client files
- Clinical team react to alerts and recalls and patients vaccinated
- Check this report, and repeat process for newly identified clients who are not vaccinated
- A slight improvement was evident





Healthy Profession. Healthy Australia.



PDSA 2 - Intervention

Study trends - improving but slowly, still didn't seem "right"

- Study trends improving but slowly, still didn't seem "right"
- What is going on ...patients are being vaccinated on recalls and alerts also opportunistic
 - Some patients ONLY seek dental services!!
 - **■** ACTION make these patients "Non-Patients"

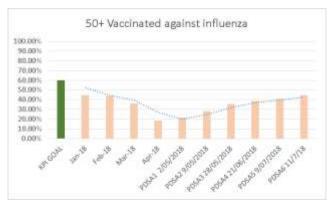






PDSA 6 - Intervention

What happened?? 4.5% increase immediately!





Healthy Profession. Healthy Australia.



PDSA 7 - Intervention

BUTdata cleansing noted an important inconsistency

 Many of the clients who were being reported as "not vaccinated" WERE vaccinated!

The project team then studied the clinical items that were being used for those who were reported as "vaccinated" compared to those who were "not vaccinated"

Different clinical items were being used for different vaccines!!







PDSA 7 - Intervention

Clinical items were reviewed, what we found!!

- Export codes were different
- Clients who were vaccinated elsewhere (e.g. work) were recorded as vaccinated in progress notes i.e. data not extractable!
- Initially Vaccine for the 65+ (new vaccine) did not have a clinical item therefore recorded in progress notes i.e. data not extractable!

What we did

- Fixed the export codes
- Created a clinical item to record vaccinations for those vaccinated elsewhere
- Created a clinical item for the 65+ vaccine
- Data cleansed, went into files and re-recorded vaccinations using the new clinical items



Healthy Profession. Healthy Australia.



PDSA 7 - Intervention

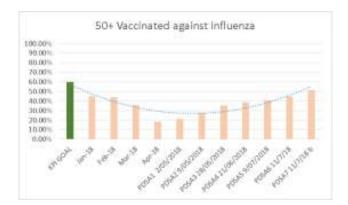
What happened

- 7% increase immediately
- Happy dances













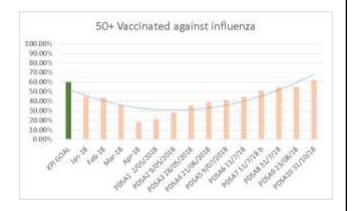
PDSA 8 to 10 - Intervention

Continue process

- Reflect on data trends
- Check who was not vaccinated
- Data cleansing of client files
- Use recalls instead of alerts, common recall – common language

GOAL ACHIEVED!!





Healthy Profession. Healthy Australia.

Communicare Clinical Items

Each named influenza vaccine has its own export code.

Communicare report for nKPI based on the codes for each vaccine.

e.g. <Immunisation;Fluad> (export code GNFLU)

Recall: <Immunisation Influenza> Set for 1st April each year.

Once immunisation with named vaccine given & recorded

Modify Recall by changing the date to the next year

Complete Recall <Immunisation Influenza> ONLY If immunized elsewhere (drop down box with 4 options). Has an "export code".

& then set the Recall: <Immunisation Influenza> 1st April 2020. <Refused Immunisation;Influenza.> No export code, for internal reporting only.



Additional

If there is no recall & immunisation is given, then record using vaccine name & set the recall ImmunisationInfluenza for 1st April 2020.

If immunisation has been given elsewhere record as Immunisation Influenza & set the recall Immunisation Influenza for 1st April 2020.

If Immunisation is refused then use clinical item

< Refused Immunisation; Influenza > & set the recall < Immunisation Influenza > for 1st April 2020.



Healthy Profession. Healthy Australia.

Influenza preparedness: Useful resources

NSW Health

- Pandemic influenza preparedness Frequently asked questions
- NSW Health Influenza Pandemic Plan (health sector)
- · NSW Human Influenza Pandemic Plan (whole of Government)
- Aboriginal people and influenza
- · Seasonal influenza vaccination 2019 information and recommendations

Royal Australian College of GPs

- Managing pandemic influenza in general practice A guide for prevention, preparation, response and recovery
- Implementation guide (flip chart format which aligns with the <u>Australian Health Management Plan for Pandemic Influenza</u>)
- Pandemic influenza toolkit

Other useful resources

- Dept. of Health <u>The flu vaccine Information for Aboriginal and Torres Strait Islander people in</u> 2019 fact sheet
- WHO <u>A checklist for pandemic influenza risk and impact management</u> building capacity for pandemic response
- WHO Tool for Influenza Pandemic Risk Assessment (TIPRA)











Thank you





