

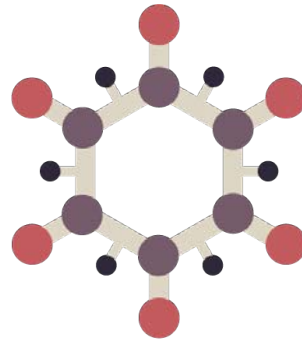
Pertussis vaccination in the over 50 year old

28 June 2021

Professor Mary-Louise McLaws

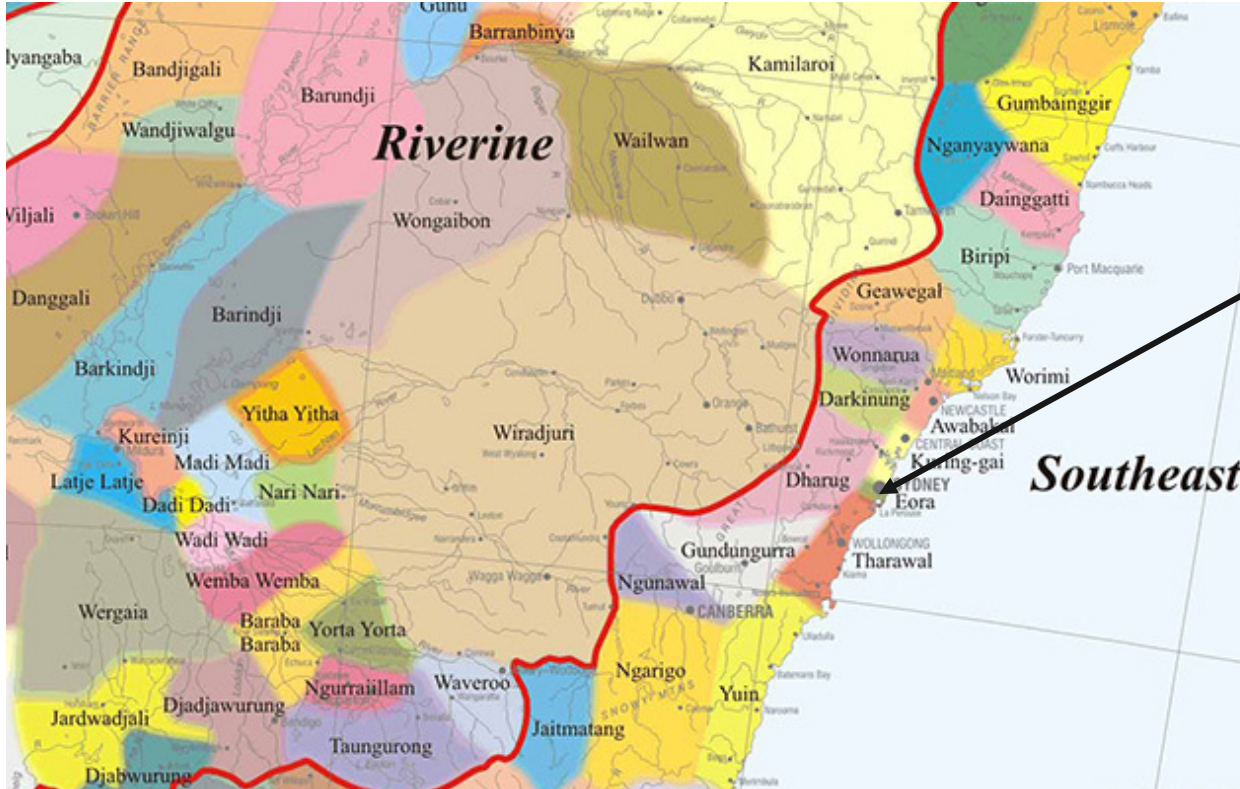
Professor of Epidemiology, Healthcare Infection and Infectious Diseases Control

School of Population Health, UNSW



IMMUNISATION
COALITION

Acknowledgement of Country – UNSW is located on the land of the Bidjigal people



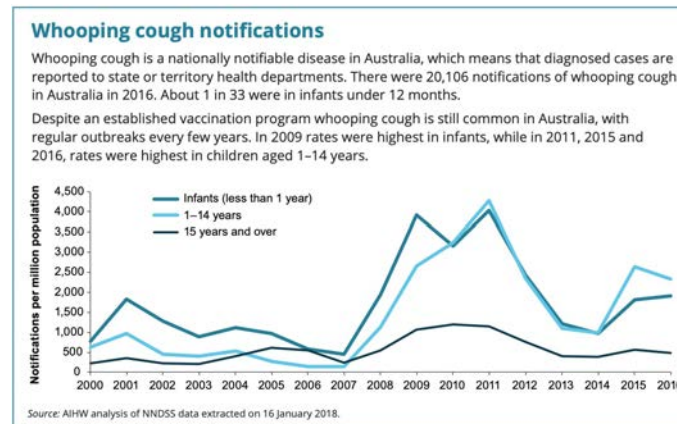
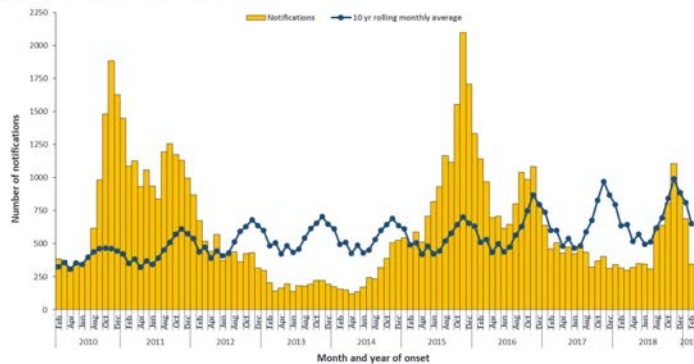
I would like to show my respects and acknowledge the traditional Custodians of the land. I would like to pay my respects to Elders both past, present and emerging and extend that respect to other Aboriginal and Torres Strait Islanders who are present here today.

Agenda

- The wake up call - patient “Elaine”
- How to capture the moment to vaccinate

- Pertussis (whooping cough) -bacteria *Bordetella pertussis*
- Australia experiences epidemic every 3-4 years
- Infectious first 3 weeks, 5 days antibiotic therapy reduce transmission if given early
- 50% cases children 50% adults – but proportion can change
- Hospital admission (~450) due to complications, 1/3 are babies
 - 50% of cases in <12 months of age hospitalised
 - Death dropped 291/year prior 1943, 16/year '43-'96 & 2/year since '97
 - Babies: death from complications (pneumonia, brain damage) 1 every 100

Figure 1. Number of whooping cough notifications received by month for NSW residents for the 10 year period 01 February 2010 to 28 February 2019, with rolling 10 year monthly average (based on calculated onset date).



2018 → 2019 increase

2020 3,458 lab confirmed

https://www.aihw.gov.au/getmedia/303c1ab7-9b04-4544-9c5d-852c533ac87a/aihw-phe-236_WhoopingCough.pdf.aspx

<https://www.health.nsw.gov.au/Infectious/Reports/Publications/cdwr/2019/cdwr-week10-2019.pdf>

“A young lady I know- lets call her Elaine”



The wake up call for patient “Elaine”

Background

- Director Healthcare Infection surveillance system
- Med 2nd year Public Health Response (notifiable diseases, vaccination & respiratory infection outbreaks)
- Director Offshore Masters program in Asia



Survey 25,054

- 72% unaware of whooping cough
 - unaware 65% female vs 71% male
 - 60% 45-54 year old unaware
 - 62% 35-44 year old unaware
 - 88% 18-24 year old unaware

The wake up call for patient “Elaine”

History

- Should have known better but had forgotten to have a booster
 - Vaccine efficacy 85% typical whooping cough (75% mild whooping cough)
 - Made from purified protein (not killed bacteria) so safe. 1 in 5 fever, 1 in 10 local discomfort
- 50 year old female
- Persistent cough for 3 months
- Additional 3 months to recovery



Survey

- 77% unaware of how whooping is spread
 - 71% 45-54 years old unaware
 - 70% 35-44 years old unaware
 - 92% 18-24 year old unaware

The wake up call for patient “Elaine”



- 82% unaware of whooping vaccine

- 75% 45-54 years old unaware
- 73% 35-44 years old unaware
- 94% 18-24 year old unaware

- 76% not recommended vaccine

- 68% 45-54 years old not offered
- 66% 35-44 years old not offered
- 94% 18-24 year old not offered

- 89% unaware of booster every 10 years

- 85% 45-54 years old unaware
- 88% 35-44 years old unaware
- 95% 18-24 year old unaware

How to capture the moment to vaccinate

- **New kid**
- **18-24:** new knowledge – every 10 years
- **The “grandchildren”** talk for pregnant women in the 3rd trimester, households with babies
- **Overseas grey nomads**
- **Opportunity:** those needing tetanus, diphtheria or polio dose

How to capture the moment to vaccinate

“So you’re 50 years young & I have a present for you!”

You’ve still got it ...and
.....you can still get it



Happy birthday!
you just need a
little boost(er)