

The pilot



- Conducted between 4th December 2017 to 18th March 2018
- 11 out of 15 PHUs participated
- One of the 11 PHUs did not report any breaches during the pilot period

Evaluation



Process

- Practices
 - Attitudes to and impacts of the change from the practice perspective and identify any associated issues
- PHUs
 - Determine how each PHU managed each cold chain breach and any implementation issues encountered

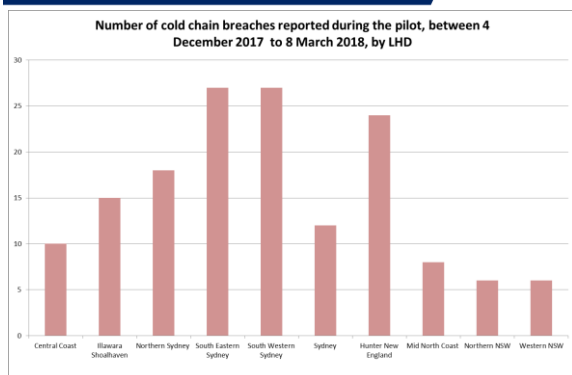
Impact

- Pilot PHUs
 - Impact of the pilot on cold chain management efficiencies will be measured in staff time pre and during the pilot
- Immunisation Unit
 - Log time taken to manage cold chain breaches pre and during pilot

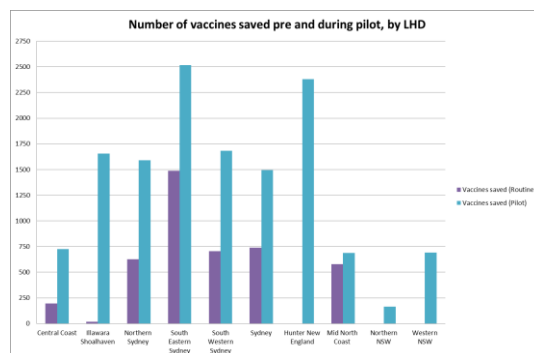
Outcome

- Vaccine wastage and staff time costs to identify financial impact
- An analysis will be conducted on the costs of the vaccines that were saved compared to routine practice, and staff time costs (PHU and Immunisation Unit)

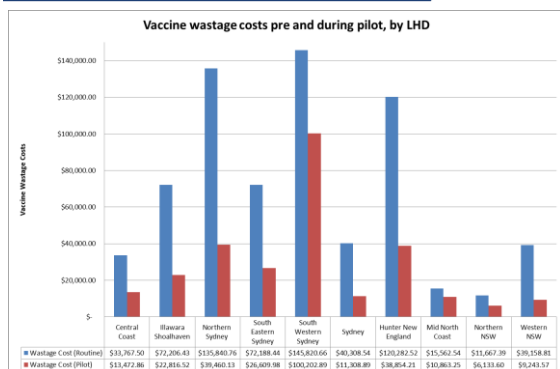
Results – number of breaches



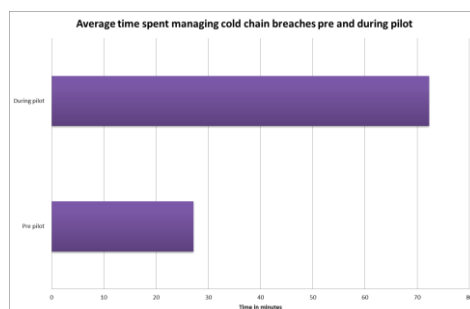
Results – vaccines saved



Wastage costs



Results - time spent managing breaches



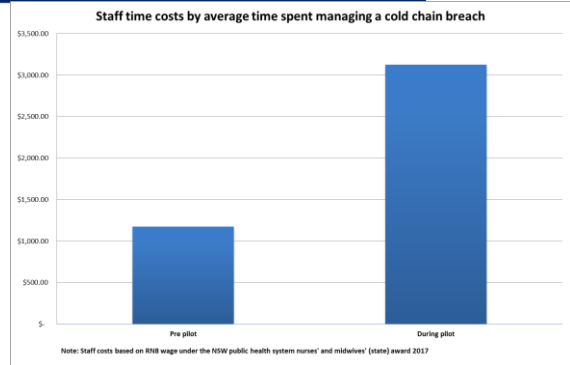
Results – average time spent managing breaches



Pre-pilot - participating PHUs	During pilot – participating PHUs
27.15 mins	72.5 mins

Immunisation Unit had an average increase of 7 mins managing breaches during the pilot compared to before

Results – staff costs



Results - savings



PHU	Wastage Cost (Routine)	Wastage Cost (Pilot)	Total Savings
Participating			
Central Coast	\$ 33,767.50	\$ 13,472.86	\$ 33,767.50
Illawarra Shoalhaven	\$ 72,206.43	\$ 22,816.52	\$ 49,389.91
Northern Sydney	\$ 135,840.76	\$ 39,460.13	\$ 96,380.63
South Eastern Sydney	\$ 72,188.44	\$ 26,609.98	\$ 45,578.46
South Western Sydney	\$ 145,820.66	\$ 100,202.89	\$ 45,617.77
Sydney	\$ 40,308.54	\$ 11,308.89	\$ 28,999.65
Hunter New England	\$ 120,282.52	\$ 38,854.21	\$ 81,428.31
Mid North Coast	\$ 15,562.54	\$ 10,863.25	\$ 4,699.29
Northern NSW	\$ 11,667.39	\$ 6,133.60	\$ 5,533.79
Western NSW	\$ 39,158.81	\$ 9,243.57	\$ 29,915.24
Total	\$ 686,803.59	\$ 278,965.90	\$ 407,837.69

Results – PHU survey

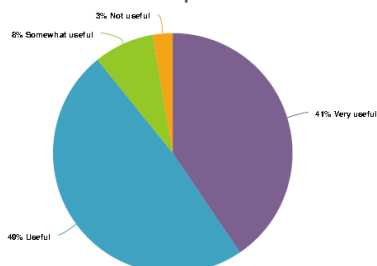


PHU RESPONSES	
PHU vaccine wastage pilot template: How useful were the resources provided to conduct the pilot?	Very useful: 5 Useful: 6 Somewhat useful: 1 Not useful: 0
Vaccine cold chain wastage pilot procedures: How useful were the resources provided to conduct the pilot?	Very Useful: 5 Useful: 4 Somewhat Useful: 2 Not Useful: 1
PHU cold chain breach risk assessment checklist: How useful were the resources provided to conduct the pilot?	Very Useful: 4 Useful: 5 Somewhat Useful: 1 Not Useful: 2
How useful was the vaccine thermostability data?	Very Useful: 10 Useful: 2 Somewhat Useful: 0 Not Useful: 0
Did you encounter any implementation issues?	Yes: 7 No: 5
Overall, how satisfied were you with the new cold chain requirements to implement the pilot?	Very satisfied: 3 Satisfied: 3 Neutral: 4 Dissatisfied: 2

Results – GP survey



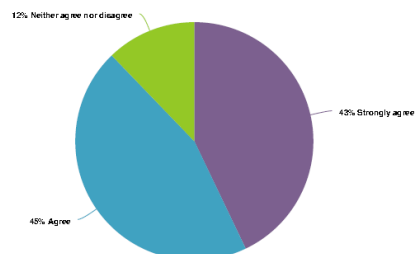
How useful were the resources provided



Results – GP survey



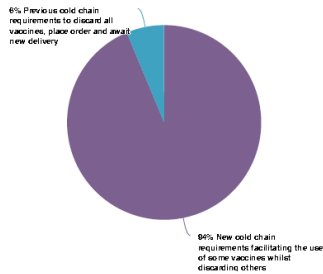
Do you agree that the new cold chain requirements would be useful to implement on an on-going basis?



Results- GP survey



Please indicate your preference for managing cold chain breaches in the future



Conclusion



- The pilot demonstrated significant cost savings in ALL participating PHUs (>\$400,000)
- The number of vaccines saved decreased significantly in all participating PHUs
- Increased time required to implement processes by PHUs
- 94% GP practices supported ongoing use of thermostability data and implementation requirements
- PHU's generally supported the implementation requirements, however time constraints were reported
- Workshop required to streamline processes for future adoption

Acknowledgements



- Participating Public Health Units
- Paola Garcia, Kara Clarke, Project Officers, Immunisation Unit
- NCIRS staff
- Vaccine manufacturers

Questions

