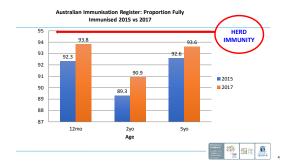




From 1st January 2016

1. Fully vaccinated for age
2. On a recognised vaccination catch up schedule
3. Have a valid medical exemption



Vaccine Hesitancy is on a Spectrum ¹



Benin AL. et al Pediotrics 2006
 Leask et al BMC Pediotrics 2012
 3.Chow et al Aust Fam Physician 2017
 4.Costa-Pinto et al JPCH 2017
 5 Danchin et al Mocrine 2017



Objectives

Primary:

 Proportion attending RCH Immunisation services motivated by the 'No Jab' policies and seeking a medical exemption

Secondary

- Assess change in attitude to vaccination after the policies, by degree of vaccine hesitancy
- 2. Assess vaccine uptake at baseline, 1 and 7 months post attendance
- 3. Impact of policies on types of referrals to the SIC and attendances to the DIC
- 4. Parents' Opinion of 'No Jab' policies



Hypothesis

- Unlikely to change opinion or vaccine uptake for highly hesitant/refusing families
 - · Reminder for late or complacent families
- Most affected by policies;
 Low SES / logistical barriers

- Large number of referrals of;
 Highly vaccine hesitant families
 Families seeking non-valid medical exemption



Methods

3 Surveys October2016-May 2017







Methods Stream 1 - SIC

- Parent surveys mailed prior to appointment;
 - Collected on day of appointment OR
 - Completed while waiting for appointment OR
 Completed after appointment and mailed in
- Physician surveys completed in SIC via RedCap





Methods Stream 2 - DIC



- Parents/Guardians attending RCH Immunisation Drop in Centre (DIC)
- Surveys completed on iPads using RedCap



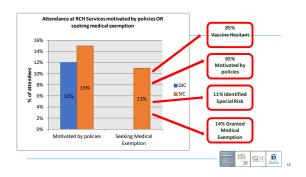
Methods

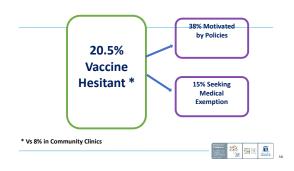
- Target sample size 500 patients
- All parents/guardians approached
- Consent for Australian Immunisation Register (AIR) access
 - Excluded special risk
 Alternate schedules
 - Not registered
- Logistic regression: vaccine uptake 7 months post attendance, adjusting for vaccine status and age at baseline, and SEIFA tertile.
- Review of all referrals to SIC and all attendances to DIC

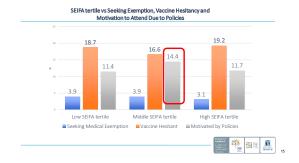


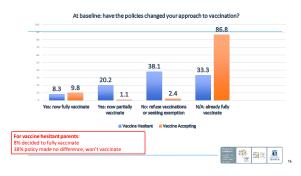
Table 1: Demographic details

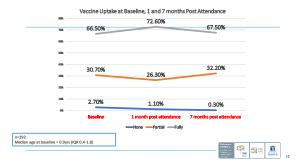
Characteristics		n(%)	
Total sample size		607	214 SIC
Age of child	Median age (IQR) in years	1.61 (0.5-5)	393 DIC
Person completing survey, relationship to child	Mother Father Both parents Other	418 (77.4) 95 (17.6) 20 (3.7) 7 (1.3)	
lge of parent/guardian	15-24 25-34 35-44 45-54 55-74	14 (2.6) 207 (38.3) 252 (46.7) 58 (10.7) 8 (1.7)	
Level of education of parent/guardian	Less than Year 12 Year 12 TAFE/Apprenticeship University Degree	33 (6.1) 60 (11.1) 89 (16.5) 357 (66.2)	
Socioeconomic Index of Advantage + Disadvantage (SEIFA)	Low Middle High	76 (14.2) 233 (43.6) 225 (42.1)	### .

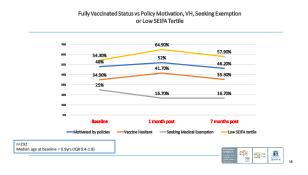






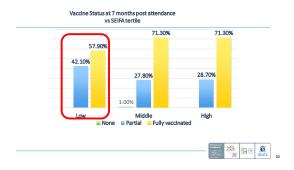


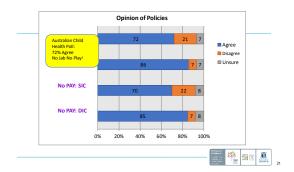


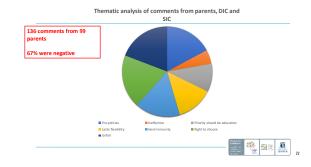


Fully Vaccinated At 7 Months

	% fully vaccinated	Difference		
Vaccine Hesitancy - Hesitant - Accepting	54% 73%	19%	0.26	0.1-0.7
Seeking Medical Exemption - Yes - No	40% 70%	30%	0.13	0.2-0.9
Motivated by Policies - Yes - No	64% 70%	4%	0.63	0.2-2







Strengths

- No other published evaluation of the impact of policies on services, parents seeking medical exemptions or vaccine uptake
- Good sample size and high completion rates
- Insight into inequity of policies and unintended negative consequences

Limitations

- Selection bias (particularly DIC)
- Low SES poorly represented in our cohort
- High proportion medically complex patients
- AIR data incomplete refusers not on AIR!





Key Findings

- Highly vaccine hesitant cohort 20.5%
- 12-15% of parents were motivated to attend RCH immunisation services by the policies, especially VH parents (38%)
- VH parents and those seeking medical exemption were less likely to be fully vaccinated at 7 months post attendance
- Policy motivation not associated with vaccine uptake
- High rates of partial vaccination in low SEIFA group, suggestive of practical barriers to vaccination as well as acceptance issues



Acknowledgements

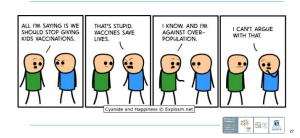
- Dr Raff Armiento
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- Jaz Felsinger

 Alissa McMinn
- Annette Alafaci
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- Dr Kirsten PerrettSonja Elia





Thank you



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