

Great care for Central Queenslanders

Central Queensland Hospital and Health Service

HBCIS SMS Pre-Call Project Gladstone Central Queensland

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The Aim of Project was



- To investigate feasibility of a Pre-call SMS messaging system utilising HBCIS
 - To improve timeliness of uptake of vaccination
 - Reduce the gap between indigenous and non-indigenous children
- Development of sustainable and practical immunisation pre-call system for wider implementation throughout Queensland

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Pilot Study



- Gladstone, Central Queensland
- Population
- Birth rate
- Indigenous Population
- Both Public and Private maternity hospitals
- Child and Family Health Program

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Engagement Process



- Stakeholders:
 - Gladstone Hospital Maternity Unit including extended Midwifery service
 - Gladstone Child and Family Health team
 - Gladstone Mater Private Hospital Maternity
 - Nhulundu Aboriginal Medical Service
 - Indigenous play group and elders
- Reference group meetings
- Promotion of the project:
 - Brochure, maternity pack
 - News article in local paper Gladstone Observer.

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Process



- Birth cohort:
 - Infants born between 1/10/2015 - 30/09/2016
- Clinic setup with HBCIS data base
- Message set to send SMS 5 days prior to:
 - 6 weeks
 - 4 months
 - 6 months
 - 12 months

Message sent:

"Your baby is due for their next scheduled vaccinations. Please contact your GP or Child Health Clinic to make an appointment".

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Cohorts

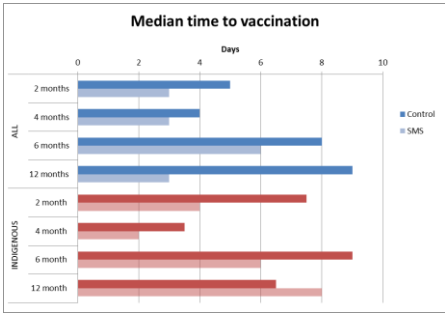
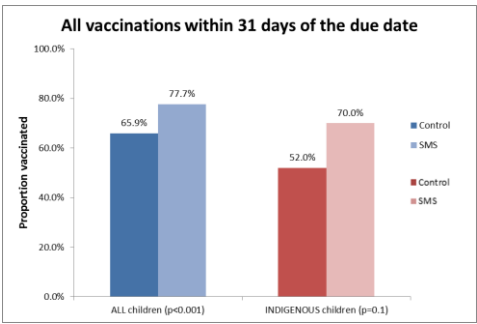
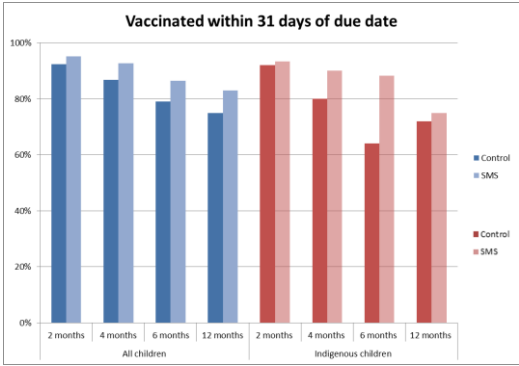


	All children	Indigenous only
Control	311	25
SMS	880	60

	Born	Follow-up
Control	Oct – Dec 2014	1111 – 1202 days
SMS	Oct 2015 – Sept 2016	472 – 837 days

Proportion vaccinated within 31 days of due date

	Vaccination milestone	Control	SMS	Difference	95% CI	p-value
All children	2 months	92.3%	95.2%	2.9%	(-0.4% - 6.2%)	0.06
	4 months	86.8%	92.7%	5.9%	(1.8% - 10.0%)	<0.01
	6 months	79.1%	86.4%	7.3%	(2.2% - 12.4%)	<0.01
	12 months	74.9%	83.0%	8.1%	(2.7% - 13.5%)	<0.01
Indigenous children	2 months	92.0%	93.3%	1.3%	(-11.1% - 13.7%)	0.8
	4 months	80.0%	90.0%	10.0%	(-7.4% - 27.4%)	0.2
	6 months	64.0%	88.3%	24.3%	(3.8% - 44.8%)	<0.01
	12 months	72.0%	75.0%	3.0%	(-17.7% - 23.7%)	0.8



Conclusions



- No Jab No Pay
- Results = Effect of No Jab No Pay + SMS reminders
- Immunisation rates are now similar to other local government areas in our region
- Anecdotally noticed an increased number of 18 month overdue notices in the Gladstone area when the SMS cohort was due.

The future...



- SMS Pre-call project for all Indigenous children born in the Central Qld Hospital and Health Service area
 - Commencing 1st July 2018 -for 3 years
 - Cohort 0 – 18 months of age.
- Using existing systems (HBCIS) there is a real possibility of expansion of this process across other Hospital and Health service areas in Queensland

Acknowledgements



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