

Supplemental Digital Content 1. Hospitalisation by age group before and after the introduction of rotavirus vaccine, Auckland region, New Zealand, Jan 2009 to Dec 2015

Before vaccination		Vaccine introduction		Post vaccine		
2009-2013		Year 0 2014		Year 1 2015		
Patient age (years)	Mean annual rate* (range)	Rate	Relative risk (95% CI)	Rate	Relative risk (95% CI)	<i>P</i> value
Rotavirus coded hospitalisations						
<1	523 (351-683)	448	0.85 (0.64-1.12)	120	0.23 (0.14- 0.35)	<0.001
1	465 (338-363)	538	1.12 (0.85-1.47)	120	0.25 (0.15-0.39)	<0.001
2	189 (121-223)	228	1.20 (0.78-1.84)	111	0.59 (0.35-0.98)	0.04
3	73 (49-107)	122	1.66 (0.87-3.16)	39	0.53 (0.22-1.25)	0.15
4	39 (25-64)	39	1.00 (0.37-2.66)	24	0.63 (0.20- 1.91)	0.4
All <5	258 (205-315)	275	1.06 (0.9-1.26)	83	0.32 (0.25-0.41)	<0.001
All ≥5	2 (2-3)	3	1.48 (0.92-2.37)	2	0.72 (0.41-1.26)	0.26
All ages	20 (17-25)	23	1.10 (0.94-1.29)	7	0.36 (0.28-0.45)	<0.001
All cause gastroenteritis hospitalisations						
<1	3768 (3186-4244)	4033	1.04 (0.99-1.09)	2907	0.87 (0.81-0.92)	<0.001
1	2940 (2522-3328)	3329	1.06 (1.01-1.27)	1809	0.76 (0.70-0.83)	<0.001
2	1231 (1212-1410)	1468	1.09 (1.00-1.17)	824	0.8 (0.70-0.90)	<0.001
3	669 (469-811)	795	1.09 (0.97-1.20)	475	0.83 (0.71-0.97)	0.002
4	456 (412-603)	593	1.13 (0.99-1.27)	431	0.97 (0.82-1.12)	0.2
All <5	1815 (1659-2008)	2046	1.06 (1.03-1.09)	1293	0.83 (0.80-0.86)	<0.001
All ≥5	428 (356-490)	504	1.08 (1.06-1.1)	464	1.04 (1.02-1.06)	<0.001
All ages	527 (461-595)	614	1.08 (1.06-1.09)	523	1.0 (0.98-1.01)	0.6

*Rates per 100,000 population per year by age group resident in Auckland region