

Suppl. Table 1. Number of rotavirus positive cases and percent reduction per surveillance site (<5 years, 12-23 months and < 1 year)
2010 and 2011 versus 2009 (May-December)

Age group	Year	Diarrhoea hospitalisations		Diarrhoea hospitalisations enrolled in surveillance and tested for rotavirus				Adjusted numbers of rotavirus positive and negative hospitalisations			
								Rotavirus positive		Rotavirus negative	
		Total	% reduction*	Number enrolled (% of total diarrhoea hospitalisations enrolled)	Number of rotavirus positives among enrolled	Proportion of rotavirus positive among enrolled**	Proportion rotavirus positive 2010 or 2011 divided by proportion rotavirus positive 2009 (p-value)	Total	% reduction****	Total	% reduction****
< 1 year											
Chris Hani Baragwanath	2009	869	Reference	292 (34)	138	47	Reference	406	Reference	463	Reference
	2010	520	40	212 (41)	73	34	0.59 (p=0.004)	165	59	355	23
	2011	416	52	101 (24)	25	25	0.37 (p<0.001)	107	74	309	33
Matikwane/Mapulaneng	2009	165	Reference	148 (89)	79	53	Reference	85	Reference	80	Reference
	2010	85	49	76 (89)	26	34	0.45 (p=0.007)	28	67	57	29
	2011	98	41	74 (75)	16	22	0.24 (p<0.001)	22	74	76	5
Dr. George	2009	395	Reference	192 (49)	100	52	Reference	198	Reference	197	Reference

Mukhari	2010	284	28	78 (27)	27	35	0.49 (p=0.009)	74	63	210	-7
	2011	298	25	74 (25)	22	30	0.39 (p=0.001)	84	58	214	-9
12-23 months											
Chris Hani Baragwanath	2009	265	Reference	79 (30)	29	37	Reference	92	Reference	173	Reference
	2010	168	37	69 (41)	27	39	1.11 (p=0.76)	64	30	104	40
	2011	205	23	47 (23)	13	28	0.66 (p=0.30)	49	47	156	10
Matikwane/Mapulaneng	2009	69	Reference	59 (86)	24	41	Reference	27	Reference	42	Reference
	2010	57	17	51 (89)	14	27	0.55 (p=0.15)	15	44	42	0
	2011	24	65	17 (71)	8	47	1.30 (p=0.64)	11	59	13	69
Dr. George Mukhari	2009	144	Reference	70 (49)	26	37	Reference	49	Reference	95	Reference
	2010	110	24	33 (30)	12	36	0.97 (p=0.94)	31	37	79	17
	2011	150	-4	38 (25)	19	50	1.69 (p=0.20)	73	-49	77	19
< 5 years											
Chris Hani Baragwanath	2009	1204	Reference	396 (33)	174	44	Reference	517	Reference	687	Reference
	2010	788	35	320 (41)	107	33	0.64 (p<0.004)	245	53	543	21
	2011	712	41	172 (24)	43	25	0.43 (p<0.001)	173	67	539	22
Matikwane/	2009	243	Reference	214 (88)	104	49	Reference	113	Reference	130	Reference

Mapulaneng	2010	158	35	141 (89)	44	31	0.48 (p=0.001)	47	58	111	15
	2011	134	45	100 (75)	29	29	0.43 (p=0.001)	41	63	93	28
Dr. George Mukhari	2009	564	Reference	273 (48)	126	46	Reference	247	Reference	317	Reference
	2010	427	24	119 (28)	41	34	0.61(p=0.031)	110	55	317	0
	2011	495	12	124 (25)	41	33	0.58 (p=0.014)	157	37	338	-7