

## Supplemental Information

**SUPPLEMENTARY TABLE 6** Rates of Diarrhea-Associated Health Care Utilization From January Through June, Among Children Aged <5 Years Before and After Rotavirus Vaccine Introduction According to Age Group and Health Care Setting<sup>a</sup>

Age Group	Hospitalizations		ED Visits		Outpatient Visits	
	Rate, <i>n</i> /10 000 PY	Rate Reduction (95% CI), %	Rate, <i>n</i> /10 000 PY	Rate Reduction (95% CI), %	Rate, <i>n</i> /10 000 PY	Rate Reduction (95% CI), %
<b>&lt;1 y</b>						
2002–2006 <sup>b</sup>	103	ref	320	ref	2377	ref
2008	61	41 (37 to 45)	244	24 (21 to 26)	1870	21 (20 to 22)
2009	60	41 (37 to 45)	243	24 (22 to 26)	1816	24 (23 to 24)
2010	43	58 (55 to 61)	167	48 (46 to 49)	1506	37 (36 to 37)
2011	47	54 (51 to 57)	177	45 (43 to 47)	1420	40 (40 to 41)
<b>1 y</b>						
2002–2006 <sup>b</sup>	150	ref	462	ref	2926	ref
2008	70	53 (50 to 56)	332	28 (26 to 30)	2393	18 (17 to 19)
2009	76	49 (46 to 52)	369	20 (18 to 22)	2547	13 (12 to 14)
2010	43	71 (69 to 73)	239	48 (47 to 50)	2077	29 (28 to 30)
2011	48	68 (66 to 70)	256	45 (43 to 46)	2019	31 (30 to 32)
<b>2–4 y</b>						
2002–06 <sup>b</sup>	46	ref	166	ref	1002	ref
2008	25	46 (42 to 49)	134	19 (16 to 21)	922	8 (7 to 9)
2009	40	12 (8 to 16)	198	–20 (–22 to –17)	1104	–10 (–11 to –9)
2010	19	58 (55 to 60)	121	27 (25 to 29)	891	11 (10 to 12)
2011	26	43 (40 to 46)	154	7 (5 to 9)	962	4 (3 to 5)
<b>&lt;5 y</b>						
2002–2006 <sup>b</sup>	78	ref	254	ref	1659	ref
2008	41	47 (45 to 49)	195	23 (22 to 25)	1404	15 (15 to 16)
2009	51	34 (32 to 36)	240	6 (4 to 7)	1530	8 (7 to 8)
2010	29	63 (61 to 64)	153	40 (39 to 41)	1242	25 (25 to 26)
2011	34	56 (54 to 57)	178	30 (29 to 31)	1253	24 (24 to 25)

CI, confidence interval; ED, emergency department; PY, person-year; ref, reference group.

<sup>a</sup> Age group data for the July–June study period are provided in Table 1 in the article.

<sup>b</sup> For 2002–2006, the average annual rate for the time period is shown.

**SUPPLEMENTARY TABLE 7** Rates and Rate Reductions of Diarrhea-Associated Health Care Utilization During January–June, Among Children Aged <5 Years Before and After Rotavirus Vaccine Introduction, According to Region and Health care Setting<sup>a</sup>

Region	Hospitalizations		ED Visits		Outpatient Visits	
	Rate	Rate Reduction (95% CI)	Rate	Rate Reduction (95% CI)	Rate	Rate Reduction (95% CI)
	<i>n</i> /10 000 PY	%	<i>n</i> /10 000 PY	%	<i>n</i> /10 000 PY	%
<b>Northeast</b>						
2001–2006 <sup>b</sup>	46	ref	156	ref	1239	ref
2007–2008	30	34 (27 to 41)	144	7 (3 to 12)	1116	10 (8 to 11)
2008–2009	40	13 (6 to 20)	188	–21 (–26 to –16)	1246	–1 (–2 to 1)
2009–2010	23	50 (46 to 55)	117	25 (22 to 28)	1019	18 (17 to 19)
2010–2011	28	39 (34 to 44)	142	9 (5 to 12)	1149	7 (6 to 9)
<b>Midwest</b>						
2001–2006 <sup>b</sup>	48	ref	205	ref	1216	ref
2007–2008	31	34 (30 to 38)	169	17 (15 to 20)	1121	8 (7 to 9)
2008–2009	38	20 (15 to 24)	197	4 (2 to 6)	1223	–1 (–1 to 0)
2009–2010	20	59 (56 to 61)	114	45 (43 to 46)	869	29 (28 to 29)
2010–2011	26	46 (43 to 49)	154	25 (23 to 27)	1000	18 (17 to 19)
<b>South</b>						
2001–2006 <sup>b</sup>	64	ref	195	ref	1479	ref
2007–2008	39	40 (37 to 42)	170	13 (11 to 15)	1443	2 (2 to 3)
2008–2009	43	32 (30 to 35)	198	–1 (3 to 1)	1533	–4 (–4 to –3)
2009–2010	29	55 (53 to 57)	144	26 (25 to 28)	1272	14 (13 to 15)
2010–2011	31	52 (50 to 54)	152	22 (21 to 24)	1308	12 (11 to 12)
<b>West</b>						
2001–2006 <sup>b</sup>	37	ref	156	ref	1296	ref
2007–2008	31	17 (11 to 23)	175	–13 (–16 to –9)	1298	0 (–1 to 1)
2008–2009	26	30 (24 to 35)	149	4 (1 to 7)	1179	9 (8 to 10)
2009–2010	20	45 (41 to 49)	122	22 (19 to 24)	977	25 (24 to 25)
2010–2011	21	43 (39 to 46)	123	21 (18 to 23)	991	23 (23 to 24)

CI, confidence interval; ED, emergency department; PY, person-year; ref, reference group.

<sup>a</sup> Age group data for the July–June study periods are provided in Table 1 of the article.

<sup>b</sup> For 2001–2006, the average annual rate for the time period is shown.

**SUPPLEMENTARY TABLE 8** Rates and Rate Reductions for Diarrhea-Associated ED and Outpatient Visits Among Unvaccinated Children After RV5 or RV1 Introduction, According to Study Period and Region<sup>a</sup>

Study Period	Healthcare Utilization Rate, <i>n</i> /10 000 PY					Rate Reduction (95% CI), %				
	All	Northeast	Midwest	South	West	All	Northeast	Midwest	South	West
ED visits										
2001–2006 <sup>b</sup>	259	208	296	271	224	ref	ref	ref	ref	ref
2007–2008	259	238	263	242	317	0 (–6 to 5)	–14 (–39 to 6)	11 (2 to 19)	11 (3 to 18)	–41 (–62 to –23)
2008–2009	298	298	344	287	223	–15 (–21 to –10)	–43 (–71 to –20)	–16 (–26 to –7)	–6 (–14 to 2)	1 (–17 to 15)
2009–2010	176	137	141	196	217	32 (27 to 37)	34 (14 to 50)	52 (45 to 59)	28 (19 to 35)	3 (–16 to 19)
2010–2011	231	225	224	244	211	11 (5 to 17)	–8 (–28 to 9)	24 (15 to 33)	10 (0 to 19)	6 (–14 to 22)
Outpatient visits										
2001–2006 <sup>b</sup>	1994	1810	1851	2189	1898	ref	ref	ref	ref	ref
2007–2008	1729	1522	1509	1824	2027	13 (11 to 15)	16 (9 to 22)	18 (15 to 22)	17 (14 to 19)	–7 (–13 to –1)
2008–2009	1713	1519	1564	1928	1475	14 (12 to 16)	16 (9 to 22)	16 (12 to 19)	12 (9 to 14)	22 (17 to 27)
2009–2010	1273	1163	1001	1469	1365	36 (34 to 38)	36 (30 to 41)	46 (43 to 49)	33 (30 to 35)	28 (23 to 33)
2010–2011	1402	1445	1182	1566	1363	30 (28 to 32)	20 (15 to 25)	36 (33 to 39)	28 (26 to 31)	28 (22 to 33)

CI, confidence interval; ED, emergency department; PY, person-year; ref, reference group.

<sup>a</sup> Data for each postvaccine study period were averaged among unvaccinated children who were age-eligible for the vaccine: those 3–17 mo of age by July 1, 2007, and those 3–23 mo of age by July 1, 2008; July 1, 2009; and July 1, 2010. Rate reductions for diarrhea-associated hospitalizations among unvaccinated children are provided in Table 4 in the article.

<sup>b</sup> Average annual hospitalization rate for 2001–2006 among children aged <2 y during the July–June study period.