Table S2. Hospitalization rate decrease for "any kind of seizures" ( $780.3^{*}+779.0^{*}+333.2^{*}+345^{*}$ ICD-9-CM codes) and "convulsion" (780.3* ICD9 -CM codes) for different age groups in children <5 years old from 2007 to 2013 compared to the lower rate in the pre-vaccination period for the corresponding age group and pathologies. Results are presented as percentage of decrease with $95 \% \mathrm{Cl}$ between parentheses. Admission rates are also shown for the best admission rate in the pre-vaccination period (the corresponding year is shown between parentheses). The significant decreases that are related to rotavirus acute gastroenteritis enteritis (see Table 2) are highlighted in bold.

| Age (years) | Any kind of childhood seizures$\left(780.3^{*}+779.0^{*}+333.2^{*}+345^{*} \text { ICD-9-CM codes }\right)$ |  |  |  |  |  |  | Convulsions(780.3* ICD-9-CM codes) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | Pre- <br> vacccination <br> period best <br> rate <br> $(1 / 100,000)$ | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |  |
| <1 | $\begin{gathered} -5.9 \% \\ (-35.0,16.9 \%) \end{gathered}$ | $\begin{gathered} 10.9 \% \\ (-14.6,30.8 \%) \end{gathered}$ | $\begin{gathered} 2.8 \% \\ (-23.9,23.8 \%) \end{gathered}$ | $\begin{gathered} 7.0 \% \\ (-19.1,27.4 \%) \\ \hline \end{gathered}$ | $\begin{array}{c\|} \hline-9.6 \% \\ (-39.1,13.7 \%) \end{array}$ | $\begin{gathered} -3.8 \% \\ (-32.2,18.5 \%) \end{gathered}$ | $\begin{gathered} 663.8 \\ (2004) \end{gathered}$ | $\begin{array}{c\|} \hline-0.5 \% \\ (-39.2,27.5 \%) \\ \hline \end{array}$ | $\begin{array}{c\|} \hline 18.5 \% \\ (-14.8,42.1 \%) \end{array}$ | $\begin{gathered} 24.5 \% \\ (-6.5,46.5 \%) \end{gathered}$ | $\begin{array}{\|c\|} \hline 18.3 \% \\ (-14.8,41.8 \%) \\ \hline \end{array}$ | $\begin{gathered} 6.9 \% \\ (-29.4,33.0 \%) \\ \hline \end{gathered}$ | $\begin{gathered} 19.2 \% \\ (-13.7,42.7 \%) \\ \hline \end{gathered}$ | 374.7 (2004) |
| 1-2 | $\begin{gathered} 17.4 \% \\ (-1.0,32.4 \%) \end{gathered}$ | $\begin{gathered} 15.7 \% \\ (-2.9,31.0 \%) \end{gathered}$ | $\begin{gathered} 39.1 \% \\ (24.3,51 \%) \end{gathered}$ | $\begin{gathered} 35.7 \% \\ (20.6,47.8 \%) \end{gathered}$ | $\begin{array}{c\|} \hline 32.0 \% \\ (16.2,44.8 \%) \\ \hline \end{array}$ | $\begin{gathered} 39.1 \% \\ (24.4,51.0 \%) \end{gathered}$ | $\begin{aligned} & 1017.9 \\ & (2005) \end{aligned}$ | $\begin{gathered} 17.6 \% \\ (-2.4,33.7 \%) \end{gathered}$ | $\begin{gathered} 19.2 \% \\ (-0.4,35.0 \%) \end{gathered}$ | $\begin{gathered} 46.0 \% \\ (31.2,57.6 \%) \end{gathered}$ | $\begin{gathered} 41.4 \% \\ (26.1,53.5 \%) \end{gathered}$ | $\begin{array}{c\|} \hline 38.1 \% \\ (22.1,50.9 \%) \\ \hline \end{array}$ | $\begin{gathered} 45.0 \% \\ (30.1,56.8 \%) \end{gathered}$ | 912.7 (2004) |
| 2-3 | $\begin{gathered} 6.0 \% \\ (-20.7,26.8 \%) \end{gathered}$ | $\begin{gathered} 9.9 \% \\ (-15.8,29.9 \%) \end{gathered}$ | $\begin{gathered} 12.2 \% \\ (-12.8,31.7 \%) \end{gathered}$ | $\begin{gathered} \hline 36.9 \% \\ (17.0,52.1 \%) \end{gathered}$ | $\begin{array}{c\|} \hline 31.3 \% \\ (10.6,47.2 \%) \\ \hline \end{array}$ | $\begin{gathered} 17.7 \% \\ (-6.0,36.1 \%) \\ \hline \end{gathered}$ | $\begin{aligned} & 610.3 \\ & (2006) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 15.1 \% \\ (-13.2,36.3 \%) \\ \hline \end{gathered}$ | $\begin{gathered} 17.2 \% \\ (-10.4,37.9 \%) \end{gathered}$ | $\begin{gathered} 17.8 \% \\ (-9.5,38.3 \%) \end{gathered}$ | $\begin{gathered} \hline 40.3 \% \\ (18.4,56.3 \%) \\ \hline \end{gathered}$ | $\begin{gathered} 28.3 \% \\ (4.0,46.5 \%) \end{gathered}$ | $\begin{gathered} 33.1 \% \\ (9.7,50.4 \%) \end{gathered}$ | 502.2 (2005) |
| 3-4 | $\begin{gathered} -42.5 \% \\ (-103.1,0.0 \%) \end{gathered}$ | $\begin{array}{c\|} \hline-60.7 \% \\ (-126.9,-13.7 \%) \\ \hline \end{array}$ | $\begin{array}{c\|} \hline-44.0 \% \\ (-104.5,-1.4 \%) \\ \hline \end{array}$ | $\begin{array}{c\|} \hline-19.4 \% \\ (-71.7,17.0 \%) \\ \hline \end{array}$ | $\begin{array}{c\|} \hline-6.3 \% \\ (-54.3,26.7 \%) \\ \hline \end{array}$ | $\begin{array}{c\|} \hline-35.3 \% \\ (-92.1,4.6 \%) \\ \hline \end{array}$ | $\begin{array}{r} 255.2 \\ (2005) \\ \hline \end{array}$ | $\begin{array}{c\|} \hline-61.8 \% \\ (-145.6,-6.6 \%) \\ \hline \end{array}$ | $\begin{gathered} -38.2 \% \\ (-112.2,10.0 \%) \\ \hline \end{gathered}$ | $\begin{array}{c\|} \hline-24.3 \% \\ (-92.2,19.7 \%) \\ \hline \end{array}$ | $\begin{gathered} \hline-7.4 \% \\ (-68.3,31.4 \%) \\ \hline \end{gathered}$ | $\begin{array}{c\|} \hline 18.8 \% \\ (-31.2,49.7 \%) \\ \hline \end{array}$ | $\begin{gathered} -29.8 \% \\ (-98.7,15.2 \%) \\ \hline \end{gathered}$ | 175.1 (2005) |
| 4-5 | $\begin{gathered} -41.1 \% \\ (-108.9,4.6 \%) \end{gathered}$ | $\begin{gathered} 7.7 \% \\ (-41.2,39.7 \%) \\ \hline \end{gathered}$ | $\begin{array}{c\|} \hline-44.7 \% \\ (-112.3,1.4 \%) \\ \hline \end{array}$ | $\begin{gathered} -10.4 \% \\ (-65.4,26.3 \%) \\ \hline \end{gathered}$ | $\begin{array}{c\|} \hline 1.2 \% \\ (-49.5,34.7 \%) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 4.0 \% \\ (-45.6,36.7 \%) \\ \hline \end{array}$ | $\begin{gathered} 212.1 \\ (2006) \\ \hline \end{gathered}$ | $\begin{gathered} -36.1 \% \\ (-128.3,18.8 \%) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 25.2 \% \\ (-34.7,58.5 \%) \\ \hline \end{gathered}$ | $\begin{array}{c\|} \hline-24.9 \% \\ (-109.5,25.5 \%) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 6.0 \% \\ (-62.8,45.7 \%) \\ \hline \end{array}$ | $\begin{array}{c\|} \hline 17.6 \% \\ (-45.1,53.3 \%) \\ \hline \end{array}$ | $\begin{gathered} \hline 43.2 \% \\ (-6.5,69.7 \%) \\ \hline \end{gathered}$ | 124.6 (2005) |
| <5 | $\begin{gathered} 4.9 \% \\ (-6.8,15.4 \%) \\ \hline \end{gathered}$ | $\begin{gathered} 11.2 \% \\ (0.1,21.1 \%) \\ \hline \end{gathered}$ | $\begin{gathered} 15.6 \% \\ (5.0,25.1 \%) \\ \hline \end{gathered}$ | $\begin{array}{c\|} \hline 25.1 \% \\ (15.4,33.7 \%) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 21.6 \% \\ (11.6,30.5 \%) \\ \hline \end{array}$ | $\begin{gathered} \hline 20.6 \% \\ (10.5,29.5 \%) \\ \hline \end{gathered}$ | $\begin{gathered} 586.3 \\ (2004) \end{gathered}$ | $\begin{gathered} 6.8 \% \\ (-6.8,18.7 \%) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 17.2 \% \\ (4.8,27.9 \%) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 27.9 \% \\ (16.8,37.6 \%) \\ \hline \end{gathered}$ | $\begin{gathered} 32.9 \% \\ (22.3,42 \%) \\ \hline \end{gathered}$ | $\begin{array}{c\|} \hline 30.0 \% \\ (19.2,39.4 \%) \\ \hline \end{array}$ | $\begin{gathered} \hline 34.1 \% \\ (23.8,43.1 \%) \end{gathered}$ | 434.2 (2004) |

