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| --- | --- | --- | --- | --- | --- | --- |
| **Supplementary Table 2:** Estimates of Seizure Rates Before and After RV Vaccine Introduction, 2000 - 2006 vs. 2008 - 2013, by Age Group (0-2 months, 3-5 months, 24-35 months, 36-47 months and 48-59 months)1 | | | | | | |
|  | **Rates** | |  | **Rate Ratios** | | |
|  | **Seizure Rate** | **95% CI** |  | **RV Vaccination** | **95% CI** | **P-Value** |
| **0 - 2 months** | | | | | | |
| Pre-vaccine | 1631.05 | (1620.10, 1642.07) |  | 1 | – | – |
| 2008 | 1515.78 | (1488.49, 1543.57) |  | 0.93 | (0.91, 0.95) | < 0.0001 |
| 2009 | 1492.91 | (1465.38, 1520.96) |  | 0.92 | (0.90, 0.93) | < 0.0001 |
| 2010 | 1434.07 | (1406.95, 1461.71) |  | 0.88 | (0.86, 0.90) | < 0.0001 |
| 2011 | 1426.95 | (1399.95, 1454.47) |  | 0.87 | (0.86, 0.89) | < 0.0001 |
| 2012 | 1432.86 | (1405.72, 1460.53) |  | 0.88 | (0.86, 0.90) | < 0.0001 |
| 2013 | 1371.35 | (1344.81, 1398.41) |  | 0.84 | (0.82, 0.86 | < 0.0001 |
| **3 - 5 months** | | | | | | |
| Pre-vaccine | 499.53 | (493.49, 505.65) |  | 1 | – | – |
| 2008 | 495.19 | (479.69, 511.18) |  | 0.99 | (0.96, 1.03) | 0.62 |
| 2009 | 481.8 | (466.27, 497.84) |  | 0.96 | (0.93, 1.00) | 0.043 |
| 2010 | 460.88 | (445.62, 476.66) |  | 0.92 | (0.89, 0.96) | < 0.0001 |
| 2011 | 467.43 | (452.08, 483.29) |  | 0.94 | (0.90, 0.97) | 0.0002 |
| 2012 | 457.43 | (442.20, 473.18) |  | 0.92 | (0.88, 0.95) | < 0.0001 |
| 2013 | 449.53 | (434.44, 465.14) |  | 0.9 | (0.87, 0.93) | < 0.0001 |
| **24 - 35 months** | | | | | | |
| Pre-vaccine | 288.06 | (285.73, 290.40) |  | 1 | – | – |
| 2008 | 279.78 | (273.84, 285.85) |  | 0.97 | (0.95, 0.99) | 0.013 |
| 2009 | 290.41 | (284.42, 296.53) |  | 1.01 | (0.99, 1.03) | 0.48 |
| 2010 | 278 | (272.13, 283.99) |  | 0.97 | (0.94, 0.99) | 0.002 |
| 2011 | 289.17 | (283.09, 295.37) |  | 1 | (0.98, 1.03) | 0.74 |
| 2012 | 277.29 | (271.36, 283.36) |  | 0.96 | (0.94, 0.99) | 0.001 |
| 2013 | 268.07 | (262.25, 274.02) |  | 0.93 | (0.91, 0.95) | < 0.0001 |
| **36 - 47 months** | | | | | | |
| Pre-vaccine | 215.91 | (213.89, 217.95) |  | 1 | – | – |
| 2008 | 215.54 | (210.32, 220.88) |  | 1 | (0.97, 1.02) | 0.9 |
| 2009 | 227.96 | (222.62, 233.44) |  | 1.06 | (1.03, 1.08) | < 0.0001 |
| 2010 | 226.28 | (221.00, 231.68) |  | 1.05 | (1.02, 1.07) | 0.0003 |
| 2011 | 229.97 | (224.65, 235.42) |  | 1.07 | (1.04, 1.09) | < 0.0001 |
| 2012 | 227.74 | (222.37, 233.25) |  | 1.05 | (1.03, 1.08) | < 0.0001 |
| 2013 | 217.96 | (212.71, 223.34) |  | 1.01 | (0.98, 1.04) | 0.48 |
| **48 - 59 months** | | | | | | |
| Pre-vaccine | 176.05 | (174.23, 177.89) |  | 1 | – | – |
| 2008 | 174.58 | (169.91, 179.37) |  | 0.99 | (0.96, 1.02) | 0.57 |
| 2009 | 183.64 | (178.85, 188.56) |  | 1.04 | (1.01, 1.07) | 0.004 |
| 2010 | 190.99 | (186.13, 195.97) |  | 1.08 | (1.06, 1.12) | < 0.0001 |
| 2011 | 198.12 | (193.19, 203.17) |  | 1.13 | (1.10, 1.16) | < 0.0001 |
| 2012 | 193.78 | (188.90, 198.78) |  | 1.1 | (1.07, 1.13) | < 0.0001 |
| 2013 | 197.21 | (192.22, 202.33) |  | 1.12 | (1.09, 1.15) | < 0.0001 |

1Data from 26 states from the State Inpatient Data (SID) from the Healthcare Cost and Utilization Project (HCUP) (ref) included: AZ, CA, CO, CT, FL, GA, HI, IA, IL, KS, KY, MD, MA, MI, MO, NC, NJ, NY, OR, SC, TN, TX, UT, WA, WI, WV