Vaccines work!

**CDC statistics demonstrate dramatic declines in vaccine-preventable diseases when compared with the pre-vaccine era**

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>PRE-VACCINE ERA ESTIMATED ANNUAL MORBIDITY</th>
<th>MOST RECENT REPORTS OR ESTIMATES OF U.S. CASES</th>
<th>PERCENT DECREASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphtheria</td>
<td>21,053</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td><em>H. influenzae</em> (invasive, &lt;5 years of age)</td>
<td>20,000</td>
<td>22² ¹</td>
<td>&gt;99%</td>
</tr>
<tr>
<td>Hepatitis A</td>
<td>117,333</td>
<td>3,500⁴</td>
<td>97%</td>
</tr>
<tr>
<td>Hepatitis B (acute)</td>
<td>66,232</td>
<td>19,800⁴</td>
<td>70%</td>
</tr>
<tr>
<td>Measles</td>
<td>530,217</td>
<td>69²</td>
<td>&gt;99%</td>
</tr>
<tr>
<td>Meningococcal disease</td>
<td>2,886⁵</td>
<td>340²</td>
<td>88%</td>
</tr>
<tr>
<td>Mumps</td>
<td>162,344</td>
<td>5,311²</td>
<td>97%</td>
</tr>
<tr>
<td>Pertussis</td>
<td>200,752</td>
<td>15,737²</td>
<td>92%</td>
</tr>
<tr>
<td>Pneumococcal disease (invasive, &lt;5 years of age)</td>
<td>16,069</td>
<td>1,700⁴</td>
<td>89%</td>
</tr>
<tr>
<td>Polio (paralytic)</td>
<td>16,316</td>
<td>0²</td>
<td>100%</td>
</tr>
<tr>
<td>Rotavirus (hospitalizations, &lt;3 years of age)</td>
<td>62,500⁷</td>
<td>11,250⁴</td>
<td>82%</td>
</tr>
<tr>
<td>Rubella</td>
<td>47,745</td>
<td>5²</td>
<td>&gt;99%</td>
</tr>
<tr>
<td>Congenital Rubella Syndrome</td>
<td>152</td>
<td>1²</td>
<td>99%</td>
</tr>
<tr>
<td>Smallpox</td>
<td>29,005</td>
<td>0²</td>
<td>100%</td>
</tr>
<tr>
<td>Tetanus</td>
<td>580</td>
<td>33²</td>
<td>94%</td>
</tr>
<tr>
<td>Varicella</td>
<td>4,085,120</td>
<td>151,149⁹</td>
<td>96%</td>
</tr>
</tbody>
</table>

2. CDC. *MMWR* January 6, 2017; 65(52):ND-924–ND-941.
3. An additional 11 cases of Hib are estimated to have occurred among the 222 reports of Hib (<5 years) with unknown serotype.
5. CDC. *MMWR* October 6, 1995; 43(53):1–98.
8. CDC. New Vaccine Surveillance Network, 2015 data (unpublished); U.S. rotavirus disease now has a biennial pattern.
9. CDC. Varicella Program, 2014 data (unpublished). Calculation based on the percent decline from 4 states that have continuously reported varicella cases to CDC.