

# Vaccines work!

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

| DISEASE  | PRE-VACCINE ERA<br>ESTIMATED ANNUAL<br>MORBIDITY* | MOST RECENT<br>REPORTS<br>OR ESTIMATES†<br>OF U.S. CASES | PERCENT<br>DECREASE |
|--|---|--|---------------------|
| Diphtheria                                       | 21,053  | 0†   | 100%                |
| <i>H. influenzae</i> (invasive, <5 years of age) | 20,000  | 31‡  | >99%                |
| Hepatitis A                                      | 117,333   | 2,890§   | 98%                 |
| Hepatitis B (acute)                              | 66,232  | 18,800§  | 72%                 |
| Measles  | 530,217   | 187†   | >99%                |
| Mumps  | 162,344   | 584†   | >99%                |
| Pertussis  | 200,752   | 28,639†  | 86%                 |
| Pneumococcal disease (invasive, <5 years of age) | 16,069  | 1,900‡‡  | 88%                 |
| Polio (paralytic)                                | 16,316  | 1†   | >99%                |
| Rotavirus (hospitalizations, <3 years of age)    | 62,500**  | 12,500††   | 80%                 |
| Rubella  | 47,745  | 9†   | >99%                |
| Congenital Rubella Syndrome                      | 152   | 1†   | 99%                 |
| Smallpox   | 29,005  | 0†   | 100%                |
| Tetanus  | 580   | 26†  | 96%                 |
| Varicella  | 4,085,120   | 167,490§§  | 96%                 |

\* CDC. *JAMA* November 14, 2007; 298(18):2155–63.

† CDC. *MMWR* August 15, 2014; 63(32):702–15.

‡ An additional 10 cases of Hib are estimated to have occurred among the 185 reports of Hib (<5 years) with unknown serotype.

§ CDC. Viral Hepatitis Surveillance – United States, 2011.

\*\* CDC. *MMWR*, February 6, 2009; 58(RR-2):1–25.

‡‡ CDC. Active Bacterial Core Surveillance, 2013 data (unpublished).

†† CDC. New Vaccine Surveillance Network, 2013 data (unpublished); U.S. rotavirus disease now has a biennial pattern.

§§ CDC. Varicella Program, 2013 data (unpublished).