

# Vaccines work!

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

DISEASE	PRE-VACCINE ERA ESTIMATED ANNUAL MORBIDITY <sup>1</sup>	MOST RECENT REPORTS OR ESTIMATES OF U.S. CASES	PERCENT DECREASE
Diphtheria	21,053	0 <sup>2</sup>	100%
<i>H. influenzae</i> (invasive, <5 years of age)	20,000	22 <sup>2,3</sup>	>99%
Hepatitis A	117,333	3,500 <sup>4</sup>	97%
Hepatitis B (acute)	66,232	19,800 <sup>4</sup>	70%
Measles	530,217	69 <sup>2</sup>	>99%
Meningococcal disease	2,886 <sup>5</sup>	340 <sup>2</sup>	88%
Mumps	162,344	5,311 <sup>2</sup>	97%
Pertussis	200,752	15,737 <sup>2</sup>	92%
Pneumococcal disease (invasive, <5 years of age)	16,069	1,700 <sup>6</sup>	89%
Polio (paralytic)	16,316	0 <sup>2</sup>	100%
Rotavirus (hospitalizations, <3 years of age)	62,500 <sup>7</sup>	11,250 <sup>8</sup>	82%
Rubella	47,745	5 <sup>2</sup>	>99%
Congenital Rubella Syndrome	152	1 <sup>2</sup>	99%
Smallpox	29,005	0 <sup>2</sup>	100%
Tetanus	580	33 <sup>2</sup>	94%
Varicella	4,085,120	151,149 <sup>9</sup>	96%

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

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.

4. CDC. Viral Hepatitis Surveillance – United States, 2013.

5. CDC. *MMWR* October 6, 1995; 43(53):1–98.

6. CDC. Active Bacterial Core Surveillance, 2014 data (unpublished).

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

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 New Vaccine Surveillance Network, 2015 data (unpublished); U.S. rotavirus disease now has a biennial pattern.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 Varicella Program, 2014 data (unpublished).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.