

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 ¹	MOST RECENT REPORTS OR ESTIMATES OF U.S. CASES	PERCENT DECREASE
Diphtheria	21,053	2 ²	>99%
<i>H. influenzae</i> serotype B (invasive, <5 years of age)	20,000	18 ²	>99%
Hepatitis A	117,333	(est) 37,700 ³	68%
Hepatitis B (acute)	66,232	(est) 20,700 ³	69%
Measles	530,217	1,275 ²	>99%
Meningococcal disease (all serotypes)	2,886 ⁴	371 ²	87%
Mumps	162,344	3,780 ²	98%
Pertussis	200,752	18,617 ²	91%
Pneumococcal disease (invasive, <5 years of age)	16,069	1,700 ⁵	89%
Polio (paralytic)	16,316	0 ²	100%
Rotavirus (hospitalizations, <3 years of age)	62,500 ⁶	30,625 ⁷	51%
Rubella	47,745	6 ²	>99%
Congenital Rubella Syndrome	152	1 ²	>99%
Smallpox	29,005	0 ²	100%
Tetanus	580	26 ²	96%
Varicella	4,085,120	8,297 ⁸	>99%

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

2. CDC. National Notifiable Infectious Diseases and Conditions, United States: Annual Tables 2019. Accessed August 2, 2022.

3. CDC. Viral Hepatitis Surveillance – United States, 2019. Published May 2021. Estimated total cases account for under-reporting.

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

5. CDC. Active Bacterial Core Surveillance (ABCs) Report; Emerging Infections Program Network *Streptococcus pneumoniae*, 2019.

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

7. CDC. New Vaccine Surveillance Network, 2017 data (unpublished); U.S. rotavirus disease now has a biennial pattern.

8. CDC. Varicella Program, 2017 data (unpublished)