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	22	>99%
H. influenzae (invasive, <5 years of age)	20,000	14 ^{2,3}	>99%
Hepatitis A	117,333	(est) 24,900 ⁴	79%
Hepatitis B (acute)	66,232	(est) 21,600 ⁴	67%
Measles	530,217	1,2872	>99%
Meningococcal disease (all serotypes)	2,8865	329 ²	89%
Mumps	162,344	3,509 ²	98%
Pertussis	200,752	15,662²	92%
Pneumococcal disease (invasive, <5 years of age)	16,069	1,700 ⁷	93%
Polio (paralytic)	16,316	O^2	100%
Rotavirus (hospitalizations, <3 years of age)	62,500 ⁸	30,625°	51%
Rubella	47,745	4 ²	>99%
Congenital Rubella Syndrome	152	0^2	100%
Smallpox	29,005	O^2	100%
Tetanus	580	19 ²	96%
Varicella	4,085,120	102,128 ¹⁰	>98%

- 1. CDC. JAMA November 14, 2007; 298(18): 2155–63.
- 2. CDC. National Notifiable Diseases Surveillance System, Week 52 (2019 Provisional Data), Unpublished, Atlanta, GA. CDC Division of Health Informatics and Surveillance, 2020. Accessed on January 21, 2020.
- An additional 12 cases of Hib are estimated to have occurred among the 243 notifications of Hi (<5 years) with unknown serotype.
- CDC. Viral Hepatitis Surveillance –
 United States, 2018. Published July 2020.
 Estimated total cases account for underreporting.
- 5. CDC. MMWR October 6, 1995; 43(53):1–98.
- CDC. Enhanced Meningococcal Disease Surveillance Report, 2018 at www.cdc. gov/meningococcal/downloads/NCIRD-EMS-Report-2018.pdf.
- 7. CDC. Active Bacterial Core Surveillance, 2016 data (unpublished).
- 8. CDC. *MMWR*, February 6, 2009; 58(RR-2):
- CDC. New Vaccine Surveillance Network, 2017 data (unpublished); U.S. rotavirus disease now has a biennial pattern.
- 10. CDC. Varicella Program, 2017 data (unpublished).

