## **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	MOST RECENT REPORTS OR ESTIMATES OF U.S. CASES	PERCENT DECREASE
Diphtheria	21,053 <sup>1</sup>	12	>99%
H. influenzae serotype B (invasive, <5 years of ag	ge) 20,000 <sup>1</sup>	172	>99%
Hepatitis A	117,333¹	(est) 3,300 <sup>3</sup>	97%
Hepatitis B (acute)	66,232 <sup>1</sup>	(est) 14,400 <sup>3</sup>	78%
Measles	530,217 <sup>1</sup>	121 <sup>2,*</sup>	>99%
Meningococcal disease (all serotypes)	2,8864	312²	89%
Mumps	162,344 <sup>1</sup>	386²	>99%
Pertussis	200,752 <sup>1</sup>	3,044²	98%
Pneumococcal disease (invasive, <5 years of age	e) 16,069 <sup>1</sup>	1,1172	93%
Polio (paralytic)	16,316 <sup>1</sup>	<b>1</b> <sup>2</sup>	100%
Rotavirus (hospitalizations, <5 years of age)	60,000 <sup>5,**</sup>	(est) 12,000 <sup>6,**</sup>	80%**
Rubella	47,745 <sup>1</sup>	<b>7</b> <sup>2</sup>	>99%
Congenital Rubella Syndrome	152 <sup>1</sup>	$O^2$	>99%
Smallpox	29,005 <sup>1</sup>	$O^2$	100%
Tetanus	580¹	26 <sup>2</sup>	96%
Varicella	4,085,120 <sup>1</sup>	4,348 <sup>2</sup>	>99%

<sup>\*</sup>Measles cases reported to CDC in 2025 were 1,618 as of October 21, 2025 (www.cdc.gov/measles/data-research/index.html)

- 1. CDC. JAMA November 14, 2007; 298(18): 2155-63.
- CDC. Reported Cases of Notifiable Diseases and Rates, United States, 2022: Annual Reported Cases of Notifiable Diseases, by Region and Reporting Area. United States, U.S. Territories, and Non-U.S. Residents, 2022. https://stacks.cdc.gov/view/cdc/175682. Accessed June 24, 2025.
- CDC. 2023 Viral Hepatitis Surveillance Report. www.cdc.gov/hepatitissurveillance-2023/about/index.html. Accessed June 24, 2025.
- 4. CDC. MMWR October 6, 1995; 43(53):1-98.

- TK Fischer, et al. Hospitalizations and deaths from diarrhea and rotavirus among children <5 years of age in the United States, 1993–2003. Journal of Infectious Diseases, Apr 15;195(8) 1117–25. doi.org/10.1086/512863
- 6. CDC. Manual for the Surveillance of Vaccine-Preventable Diseases. Chapter 13: Rotavirus. www.cdc.gov/surv-manual/php/table-of-contents/ chapter-13-rotavirus.html





<sup>\*\*</sup>CDC estimate of annual rotavirus hospitalizations in U.S.<5 years: 55,000-70,000/year in prevaccination era; median 80% estimated reduction of rotavirus hospitalizations in U.S. children <5 years.