

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