

2023 Final Pertussis Surveillance Report

Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	0.88	45
ALASKA	3.55	26
ARIZONA	4.63	344
ARKANSAS	1.24	38
CALIFORNIA	1.65	643
COLORADO	3.67	216
CONNECTICUT	0.30	11
DELAWARE	0.19	2
D.C.	0.74	5
FLORIDA	0.38	85
GEORGIA	0.87	96
HAWAII	0.21	3
IDAHO	1.73	34
ILLINOIS	5.49	689
INDIANA	2.55	175
IOWA	1.81	58
KANSAS	2.35	69
KENTUCKY	2.61	118
LOUISIANA	0.26	12
MAINE	5.45	76
MARYLAND	0.34	21
MASSACHUSETTS	0.20	14
MICHIGAN	1.10	110
MINNESOTA	1.12	64
MISSISSIPPI	0.10	3
MISSOURI	1.24	77
MONTANA	4.15	47
NEBRASKA	0.66	13
NEVADA	2.10	67
NEW HAMPSHIRE	0.50	7
NEW JERSEY	3.69	343
NEW MEXICO	1.94	41
NEW YORK	5.24	593
NEW YORK CITY	5.07	419
NORTH CAROLINA	0.97	105
NORTH DAKOTA	2.17	17
OHIO	7.10	837
OKLAHOMA	0.49	20
OREGON	0.94	40
PENNSYLVANIA	3.10	402
RHODE ISLAND	0.27	3
SOUTH CAROLINA	1.43	77
SOUTH DAKOTA	5.55	51
TENNESSEE	1.15	82
TEXAS	1.11	340
UTAH	6.96	238
VERMONT	0.15	1
VIRGINIA	1.38	120
WASHINGTON	1.11	87
WEST VIRGINIA	1.58	28
WISCONSIN	0.86	51
WYOMING	0.00	0
TOTAL	2.11	7,063

Source: Single Race Vintage 2023 postcensal estimates. Weeks 1-52, 2023

Notice to Readers: Final 2023 Reports of Notifiable Diseases

NOTE: The pertussis case definition was modified by CSTE effective January 1, 2020. Criteria were modified increasing sensitivity for case ascertainment such that case counts may increase. The 2020 CSTE case definition can be viewed here: <https://ndc.services.cdc.gov/case-definitions/pertussis-2020/>.

Reported Pertussis Cases

2022: 3,044 2023: 7,063

Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc / 100,000	% Hospitalized by age**
< 6 mos	449 (6.4)	24.6	24.0
6-11 mos	396 (5.6)	21.7	7.3
1-6 yrs	2,095 (29.7)	9.2	3.6
7-10 yrs	740 (10.5)	4.5	1.3
11-19 yrs	1,456 (20.6)	3.8	1.2
20+ yrs	1,926 (27.3)	0.8	10.6
Unknown Age	1 (0.0)	N/A	N/A
Total	7,063 (100)	2.1*	6.3

* Total age incidence per 100,000 calculated from 7,062 cases with age reported.
** Calculated from those with known hospitalization status.

Reported Pertussis Deaths

Age	Deaths*
Cases, aged < 1 yr	5
Cases, aged ≥ 1 yr	2
Total	7

* Deaths reported through NNDSS

Reported DTaP Vaccine Status of Children with Pertussis, Ages 6 months through 6 years

Age	Vaccine History Unknown No. (%)	Unvaccinated No. (%)	Undervaccinated (1-2 doses) No. (%)	Completed Primary DTaP Series (3+ doses) No. (%)	Total
6-11 mo	226 (57.1)	8 (2.0)	50 (12.6)	112 (28.3)	396
1-4 yrs	793 (53.4)	45 (3.0)	118 (8.0)	528 (35.6)	1,484
5-6 yrs	234 (38.3)	20 (3.3)	35 (5.7)	234 (38.3)	611
Total*	1,253 (50.3)	73 (2.9)	203 (8.1)	962 (38.6)	2,491

* CDC recommends all children receive at least 3 doses of DTaP by age 6 months. DTaP coverage in the United States is very high. Approximately 95% of all children 19-35 months of age have received at least 3 doses of DTaP. This table illustrates a similar trend among the pertussis cases reported during 2023—the majority have received at least 3 doses of DTaP. Because protection from DTaP wanes over time, even children who are up to date with their pertussis vaccines may contract pertussis. Unvaccinated children are more likely to contract pertussis and have more severe disease than those who are fully vaccinated. These data cannot be used to interpret vaccine effectiveness or to assess risk, as the data are incomplete and there is no healthy comparison group.

