

2022 Provisional Pertussis Surveillance Report

Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	0.95	48
ALASKA	0.27	2
ARIZONA	1.43	104
ARKANSAS	0.53	16
CALIFORNIA	0.21	84
COLORADO	4.34	252
CONNECTICUT	0.19	7
DELAWARE	0.10	1
D.C.	0.45	3
FLORIDA	0.27	59
GEORGIA	0.38	41
HAWAII	0.42	6
IDAHO	0.47	9
ILLINOIS	0.63	80
INDIANA	1.01	69
IOWA	0.72	23
KANSAS	0.31	9
KENTUCKY	0.78	35
LOUISIANA	0.06	3
MAINE	5.39	74
MARYLAND	0.23	14
MASSACHUSETTS	0.09	6
MICHIGAN	0.67	67
MINNESOTA	0.25	14
MISSISSIPPI	0.03	1
MISSOURI	0.36	22
MONTANA	0.18	2
NEBRASKA	1.48	29
NEVADA	4.61	145
NEW HAMPSHIRE	0.14	2
NEW JERSEY	0.00	0
NEW MEXICO	2.08	44
NEW YORK	1.75	199
NEW YORK CITY	0.97	82
NORTH CAROLINA	0.31	33
NORTH DAKOTA	1.68	13
OHIO	1.23	145
OKLAHOMA	0.00	0
OREGON	0.54	23
PENNSYLVANIA	0.74	96
RHODE ISLAND	0.00	0
SOUTH CAROLINA	0.85	44
SOUTH DAKOTA	0.11	1
TENNESSEE	0.50	35
TEXAS	0.55	162
UTAH	3.27	109
VERMONT	0.31	2
VIRGINIA	0.75	65
WASHINGTON	0.96	74
WEST VIRGINIA	0.73	13
WISCONSIN	0.32	19
WYOMING	0.35	2
TOTAL	0.72	2,388

Source: Single Race Vintage 2021 postcensal estimates; 2022 estimates were not available at the time of publication.

Weeks 1-52 2022 CDC/NCIRD/DBD/MVPDB

Notice to Readers:

Provisional 2022 Reports of Notifiable Diseases

<https://wonder.cdc.gov/nndss/static/2022/52/2022-52-table1z.html>

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

2021: 1,609* 2022: 2,388

*Provisional 2021 Week 52 reported pertussis cases; final 2021 data were not available at the time of publication.

Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	139 (5.8)	7.8	17.1
6-11 mos	130 (5.4)	7.3	4.9
1-6 yrs	622 (26.0)	2.7	1.9
7-10 yrs	176 (7.4)	1.1	0.0
11-19 yrs	231 (9.7)	0.6	1.2
20+ yrs	1,089 (45.6)	0.4	11.2
Unknown Age	1 (0.0)	N/A	N/A
Total	2,388 (100)	0.7*	6.9

*Total incidence per 100,000 calculated from 2,387 cases with age reported.

**Calculated from those with known hospitalization status.

Reported Pertussis Deaths

Age	Deaths*
Cases, aged < 1 yr	1
Cases, aged ≥ 1 yr	2
Total	3†

*Deaths reported through NNDSS Confirmation of deaths is ongoing and may result in changes to the final count for 2022.

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

Age	Vaccine History Unknown	Unvaccinated	Undervaccinated (1-2 doses)	Completed Primary DTaP Series (3+ doses)	Total
	No. (%)	No. (%)	No. (%)	No. (%)	No.
6-11 mo	75 (57.7)	8 (6.2)	10 (7.7)	37 (28.5)	130
1-4 yrs	230 (50.1)	26 (5.7)	30 (6.5)	173 (37.7)	459
5-6 yrs	61 (37.4)	10 (6.1)	8 (4.9)	84 (51.5)	163
Total	366 (48.7)	44 (5.9)	48 (6.4)	294 (39.1)	752

Footnote: CDC recommends all children receive at least 3 doses of DTaP by age 6 months. DTaP coverage in the United States is very high. Over 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 2022—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.