

2022 Final Pertussis Surveillance Report

Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	1.01	51
ALASKA	0.27	2
ARIZONA	1.44	106
ARKANSAS	0.62	19
CALIFORNIA	0.75	291
COLORADO	3.94	230
CONNECTICUT	0.19	7
DELAWARE	0.20	2
D.C.	0.60	4
FLORIDA	0.27	60
GEORGIA	0.81	88
HAWAII	0.42	6
IDAHO	0.46	9
ILLINOIS	0.75	94
INDIANA	1.17	80
IOWA	0.87	28
KANSAS	0.92	27
KENTUCKY	0.91	41
LOUISIANA	0.11	5
MAINE	5.70	79
MARYLAND	0.32	20
MASSACHUSETTS	0.06	4
MICHIGAN	0.85	85
MINNESOTA	0.54	31
MISSISSIPPI	0.00	0
MISSOURI	0.42	26
MONTANA	0.27	3
NEBRASKA	1.73	34
NEVADA	2.96	94
NEW HAMPSHIRE	0.14	2
NEW JERSEY	2.38	220
NEW MEXICO	2.27	48
NEW YORK	1.87	212
NEW YORK CITY	1.28	107
NORTH CAROLINA	0.42	45
NORTH DAKOTA	1.67	13
OHIO	1.27	149
OKLAHOMA	0.12	5
OREGON	0.40	17
PENNSYLVANIA	0.76	99
RHODE ISLAND	0.00	0
SOUTH CAROLINA	0.89	47
SOUTH DAKOTA	0.11	1
TENNESSEE	0.54	38
TEXAS	0.64	193
UTAH	3.99	135
VERMONT	0.31	2
VIRGINIA	0.84	73
WASHINGTON	0.98	76
WEST VIRGINIA	0.79	14
WISCONSIN	0.34	20
WYOMING	0.34	2
TOTAL	0.91	3,044

Source: Single Race Vintage 2022 postcensal estimates.

Weeks 1-52, 2022

CDC/NCIRD/DBD/MVPDB

Notice to Readers: Final 2022 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

2021: 2,116 2022: 3,044

Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	177 (5.8)	9.6	18.5
6-11 mos	157 (5.2)	8.5	3.3
1-6 yrs	832 (27.3)	3.7	2.2
7-10 yrs	209 (6.9)	1.3	0.0
11-19 yrs	304 (10.0)	0.8	0.9
20+ yrs	1,364 (44.8)	0.5	11.4
Unknown Age	1 (0.0)	N/A	N/A
Total	3,044 (100)	0.9*	4.8

*Total age incidence per 100,000 calculated from 3,043 cases with age reported.

**Age-specific proportion of cases that were hospitalized, calculated from those with a known hospitalization status.

Reported Pertussis Deaths

Age	Deaths*
Cases, aged < 1 yr	1
Cases, aged ≥ 1 yr	3
Total	4

*Deaths reported through NNDSS

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	101 (64.3)	4 (2.6)	13 (8.3)	39 (24.8)	157
1-4 yrs	389 (63.8)	10 (1.6)	25 (4.1)	186 (30.5)	610
5-6 yrs	113 (50.9)	5 (2.3)	7 (3.2)	97 (43.7)	222
Total	603 (61.0)	19 (1.9)	45 (4.6)	322 (32.6)	989

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.

