

2023 Provisional Pertussis Surveillance Report

Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	0.61	31
ALASKA	3.00	22
ARIZONA	4.58	337
ARKANSAS	0.56	17
CALIFORNIA	0.50	196
COLORADO	4.18	244
CONNECTICUT	0.00	0
DELAWARE	0.20	2
D.C.	0.74	5
FLORIDA	0.40	90
GEORGIA	0.75	82
HAWAII	0.14	2
IDAHO	0.67	13
ILLINOIS	4.82	607
INDIANA	2.02	138
IOWA	1.62	52
KANSAS	2.01	59
KENTUCKY	2.08	94
LOUISIANA	0.24	11
MAINE	4.84	67
MARYLAND	0.32	20
MASSACHUSETTS	0.14	10
MICHIGAN	0.86	86
MINNESOTA	0.44	25
MISSISSIPPI	0.10	3
MISSOURI	1.15	71
MONTANA	4.01	45
NEBRASKA	0.66	13
NEVADA	0.63	20
NEW HAMPSHIRE	0.29	4
NEW JERSEY	0.95	88
NEW MEXICO	1.75	37
NEW YORK	4.71	534
NEW YORK CITY	4.40	367
NORTH CAROLINA	0.76	81
NORTH DAKOTA	1.92	15
OHIO	6.89	810
OKLAHOMA	0.15	6
OREGON	0.83	35
PENNSYLVANIA	2.94	381
RHODE ISLAND	0.18	2
SOUTH CAROLINA	0.89	47
SOUTH DAKOTA	4.51	41
TENNESSEE	1.11	78
TEXAS	0.93	280
UTAH	6.06	205
VERMONT	0.00	0
VIRGINIA	1.30	113
WASHINGTON	0.87	68
WEST VIRGINIA	1.46	26
WISCONSIN	0.53	31
WYOMING	0.00	0
TOTAL	1.68	5,611

Source: Single Race Vintage 2022 postcensal estimates; 2023 estimates were not available at the time of publication.

Weeks 1-52, 2023 CDC/NCIRD/DBD/MVPDB

Notice to Readers:

Provisional 2023 Reports of Notifiable Diseases

<https://wonder.cdc.gov/nndss/static/2023/52/2023-52-table990.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

2022: 2,388* 2023: 5,611

*Provisional 2022 Week 52 reported pertussis cases; final 2022 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	376 (6.7)	20.4	21.2
6-11 mos	353 (6.3)	19.2	8.0
1-6 yrs	1,762 (31.4)	7.7	3.6
7-10 yrs	636 (11.3)	3.9	1.4
11-19 yrs	1,014 (18.1)	2.6	1.3
20+ yrs	1,468 (26.2)	0.6	11.5
Unknown Age	2 (0.0)	N/A	N/A
Total	5,611 (100)	1.7*	6.6

*Total incidence per 100,000 calculated from 5,609 cases with age reported.

**Calculated from those with known hospitalization status.

Reported Pertussis Deaths

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

*Deaths reported through NNDSS Confirmation of deaths is ongoing and may result in changes to the final count for 2023.

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	192 (54.4)	13 (3.7)	46 (13.0)	102 (28.9)	353
1-4 yrs	625 (49.5)	41 (3.3)	114 (9.0)	483 (38.2)	1,263
5-6 yrs	159 (31.9)	20 (4.0)	32 (6.4)	288 (57.7)	499
Total	976 (46.1)	74 (3.5)	192 (9.1)	873 (41.3)	2,115

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 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.

