

2019 Provisional Pertussis Surveillance Report

Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	4.99	244
ALASKA	3.53	26
ARIZONA	5.20	373
ARKANSAS	4.25	128
CALIFORNIA	4.89	1933
COLORADO	8.92	508
CONNECTICUT	1.68	60
DELAWARE	0.62	6
D.C.	3.56	25
FLORIDA	1.85	395
GEORGIA	0.27	28
HAWAII	3.03	43
IDAHO	14.31	251
ILLINOIS	6.79	865
INDIANA	3.08	206
IOWA	7.00	221
KANSAS	1.58	46
KENTUCKY	4.52	202
LOUISIANA	1.61	75
MAINE	27.94	374
MARYLAND	1.69	102
MASSACHUSETTS	3.61	249
MICHIGAN	4.44	444
MINNESOTA	5.28	296
MISSISSIPPI	1.77	53
MISSOURI	5.78	354
MONTANA	56.67	602
NEBRASKA	9.80	189
NEVADA	2.27	69
NEW HAMPSHIRE	3.46	47
NEW JERSEY	2.44	217
NEW MEXICO	7.87	165
NEW YORK	6.78	756
NEW YORK CITY	2.49	209
NORTH CAROLINA	4.39	456
NORTH DAKOTA	3.95	30
OHIO	7.53	880
OKLAHOMA	0.79	31
OREGON	9.07	380
PENNSYLVANIA	4.87	624
RHODE ISLAND	3.59	38
SOUTH CAROLINA	4.21	214
SOUTH DAKOTA	15.19	134
TENNESSEE	2.85	193
TEXAS	3.99	1144
UTAH	9.14	289
VERMONT	6.39	40
VIRGINIA	3.82	325
WASHINGTON	7.22	544
WEST VIRGINIA	1.83	33
WISCONSIN	8.88	516
WYOMING	5.19	30
TOTAL	4.79	15,662

Source: NCHS Bridged Race Intercensal Population Estimate for 2018; 2019 estimates were not available at the time of publication.

Weeks 1-52, 2019 CDC/NCIRD/DBD/MVPDB

Notice to Readers:

Provisional 2019 Reports of Notifiable Diseases

Source: National Notifiable Disease Surveillance System, Week 52 (2019 Provisional Data), Unpublished. Atlanta, GA. CDC Division of Health Informatics and Surveillance, 2020. Accessed on January 21, 2020.

Reported Pertussis Cases

2018: 15,609 2019: 15,662

Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	1202 (7.7)	62.5	40.7
6-11 mos	638 (4.1)	33.2	9.8
1-6 yrs	3282 (21.0)	13.7	3.1
7-10 yrs	1988 (12.7)	12.2	1.1
11-19 yrs	4758 (30.4)	12.6	1.5
20+ yrs	3736 (23.9)	1.5	8.2
Unknown Age	58 (0.4)	N/A	N/A
Total	15,662 (100)	4.8*	6.7

*Total age incidence per 100,000 calculated from 15,604 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	3
Cases, aged ≥ 1 yr	6
Total	9†

*Deaths reported through NNDSS Confirmation of deaths is ongoing and may result in changes to the final pertussis-related death count for 2019.

†3 of the 9 deaths were female.

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	311 (48.8)	48 (7.5)	85 (13.3)	194 (30.4)	638
1-4 yrs	1206 (49.2)	234 (9.5)	89 (3.6)	923 (37.6)	2452
5-6 yrs	360 (43.4)	63 (7.6)	29 (3.5)	378 (45.5)	830
Total*	1877 (47.9)	345 (8.8)	203 (5.2)	1495 (38.1)	3920

*Percent calculated from total cases aged 6 months to 6 years, n=3,920.

Footnote: This table reflects reported vaccination history of pertussis cases aged 6 months through 6 years. 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 2019—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. Note: surveillance data have limitations and are often incomplete; more than a third of pertussis cases in this table have unknown pertussis vaccination history. You cannot use these data to interpret vaccine effectiveness or to assess risk, as the data are incomplete and there is no healthy comparison group.

