

2018 Final Pertussis Surveillance Report

Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	4.48	219
ALASKA	12.48	92
ARIZONA	3.33	239
ARKANSAS	3.28	99
CALIFORNIA	5.85	2315
COLORADO	10.78	614
CONNECTICUT	1.20	43
DELAWARE	19.64	190
D.C.	1.99	14
FLORIDA	1.53	326
GEORGIA	1.85	195
HAWAII	2.32	33
IDAHO	22.57	396
ILLINOIS	2.90	370
INDIANA	2.75	184
IOWA	5.13	162
KANSAS	5.26	153
KENTUCKY	4.43	198
LOUISIANA	2.68	125
MAINE	33.32	446
MARYLAND	1.97	119
MASSACHUSETTS	3.85	266
MICHIGAN	6.46	646
MINNESOTA	7.08	397
MISSISSIPPI	1.44	43
MISSOURI	2.77	170
MONTANA	13.46	143
NEBRASKA	8.35	161
NEVADA	2.83	86
NEW HAMPSHIRE	10.10	137
NEW JERSEY	3.09	275
NEW MEXICO	11.55	242
NEW YORK	3.35	373
NEW YORK CITY	2.20	185
NORTH CAROLINA	3.75	389
NORTH DAKOTA	6.71	51
OHIO	5.45	637
OKLAHOMA	2.61	103
OREGON	11.91	499
PENNSYLVANIA	3.61	462
RHODE ISLAND	3.22	34
SOUTH CAROLINA	3.89	198
SOUTH DAKOTA	18.48	163
TENNESSEE	1.82	123
TEXAS	4.07	1167
UTAH	13.67	432
VERMONT	5.43	34
VIRGINIA	2.88	245
WASHINGTON	8.32	627
WEST VIRGINIA	1.50	27
WISCONSIN	12.04	700
WYOMING	10.73	62
TOTAL	4.77	15,609

Source: NCHS Bridged Race Intercensal Population Estimate for 2018.

Weeks 1-52, 2018 CDC/NCIRD/DBD/MVPDB

Notice to Readers:

Final 2018 Reports of Notifiable Diseases

https://wonder.cdc.gov/nndss/nndss_annual_tables_menu.asp

Reported Pertussis Cases

2017: **18,975** 2018: **15,609**

Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	1401 (9.0)	72.8	42.3
6-11 mos	630 (4.0)	32.7	11.9
1-6 yrs	3232 (20.7)	13.5	2.6
7-10 yrs	1897 (12.2)	11.6	1.3
11-19 yrs	4922 (31.5)	13.0	0.9
20+ yrs	3520 (22.6)	1.4	7.7
Unknown Age	7 (0.0)	N/A	N/A
Total	15,609 (100)	4.8*	7.0

*Total age incidence per 100,000 calculated from 15,602 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	2
Total	5†

*Deaths reported through NNDSS to CDC.

†3 of the 5 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	286 (45.4)	61 (9.7)	92 (14.6)	191 (30.3)	630
1-4 yrs	1194 (49.3)	228 (9.4)	83 (3.4)	916 (37.8)	2421
5-6 yrs	360 (44.4)	75 (9.3)	20 (2.5)	356 (43.9)	811
Total*	1840 (47.6)	364 (9.4)	195 (5.0)	1463 (37.9)	3862

*Percent calculated from total cases aged 6 months to 6 years, n=3,862.

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 2018—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.