2017 Final Pertussis Surveillance Report

Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	4.74	231
ALASKA	7.98	59
ARIZONA	5.99	420
ARKANSAS	7.49	225
CALIFORNIA	6.52	2576
COLORADO	11.97	671
CONNECTICUT	2.12	76
DELAWARE	0.94	9
D.C.	3.17	22
FLORIDA	1.71	358
GEORGIA	2.24	234
HAWAII	2.73	39
IDAHO	5.18	89
ILLINOIS	5.38	689
INDIANA	5.73	382
IOWA	5.12	161
KANSAS	6.97	203
KENTUCKY	10.08	449
LOUISIANA	1.86	87
MAINE	30.69	410
MARYLAND	1.77	107
MASSACHUSETTS	5.95	408
MICHIGAN	7.47	744
MINNESOTA	13.09	730
MISSISSIPPI	1.17	35
MISSOURI	6.74	412
MONTANA	10.09	106
NEBRASKA	5.10	98
NEVADA	3.07	92
NEW HAMPSHIRE	5.59	75
NEW JERSEY	5.16	465
NEW MEXICO	9.43	197
NEW YORK	4.84	543
NEW YORK CITY	1.72	148
NORTH CAROLINA	4.16	427
NORTH DAKOTA	6.62	50
OHIO	7.42	865
OKLAHOMA	5.27	207
OREGON	5.91	245
PENNSYLVANIA	7.69	985
RHODE ISLAND	7.93	84
SOUTH CAROLINA	3.80	191
SOUTH DAKOTA	1.03	9
TENNESSEE	3.31	222
TEXAS	6.24	1765
UTAH	14.38	446
VERMONT	17.32	108
VIRGINIA	3.49	296
WASHINGTON	9.99	740
WEST VIRGINIA	0.72	13
WISCONSIN	13.01	754
WYOMING	3.11	18
TOTAL	**5.83**	**18,975**

Source: NCHS Bridged Race Intercensal Population Estimate for 2017

Weeks 1-52, 2017 CDC/NCIRD/DBD/MVPDB

Notice to Readers:

Final 2017 Reports of Notifiable Diseases

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

Reported Pertussis Cases

2016: **17,972** 2017: **18,975**

Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	1545 (8.1)	78.4	43.3
6-11 mos	731 (3.9)	37.1	10.8
1-6 yrs	3646 (19.2)	15.2	3.4
7-10 yrs	2597 (13.7)	15.8	1.1
11-19 yrs	6348 (33.4)	16.8	1.0
20+ yrs	4080 (21.5)	1.7	8.8
Unknown Age	28 (0.2)	N/A	N/A
Total	**18,975 (100)**	**5.8***	**6.9**

*Total age incidence per 100,000 calculated from 18,947 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	9
Cases, aged ≥ 1 yr	4
Total	**13**

*Deaths reported through NNDSS to CDC. Confirmation of non-infant deaths is ongoing and may result in changes to the final pertussis-related death count for 2017
†6 of the 13 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	290 (40)	67 (9)	119 (16)	255 (35)	731
1-4 yrs	1137 (41)	281 (10)	122 (4)	1228 (44)	2768
5-6 yrs	306 (35)	82 (9)	24 (3)	466 (53)	878
Total*	**1733 (40)**	**430 (10)**	**265 (6)**	**1949 (44)**	**4377**

*Percent calculated from total cases aged 6 months to 6 years, n=4,377.

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 2017—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.

National Center for Immunization and Respiratory Diseases
Division of Bacterial Diseases

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