2016 Final Pertussis Surveillance Report

Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	3.62	176
ALASKA	21.30	158
ARIZONA	4.14	287
ARKANSAS	2.31	69
CALIFORNIA	3.84	1509
COLORADO	12.92	716
CONNECTICUT	2.68	96
DELAWARE	1.58	15
D.C.	1.61	11
FLORIDA	1.62	334
GEORGIA	1.84	190
HAWAII	3.85	55
IDAHO	4.93	83
ILLINOIS	8.08	1034
INDIANA	2.68	178
IOWA	5.14	161
KANSAS	5.54	161
KENTUCKY	10.44	463
LOUISIANA	1.39	65
MAINE	19.45	259
MARYLAND	2.24	135
MASSACHUSETTS	2.97	202
MICHIGAN	4.19	416
MINNESOTA	18.39	1015
MISSISSIPPI	0.20	6
MISSOURI	5.86	357
MONTANA	2.01	21
NEBRASKA	7.97	152
NEVADA	1.22	36
NEW HAMPSHIRE	4.50	60
NEW JERSEY	6.33	566
NEW MEXICO	7.69	160
NEW YORK	5.92	663
NEW YORK CITY	3.56	304
NORTH CAROLINA	2.92	296
NORTH DAKOTA	5.81	44
OHIO	8.62	1001
OKLAHOMA	4.69	184
OREGON	4.69	192
PENNSYLVANIA	12.45	1591
RHODE ISLAND	8.61	91
SOUTH CAROLINA	2.66	132
SOUTH DAKOTA	1.62	14
TENNESSEE	2.10	140
TEXAS	4.62	1286
UTAH	8.69	265
VERMONT	46.43	290
VIRGINIA	2.67	225
WASHINGTON	8.48	618
WEST VIRGINIA	1.42	26
WISCONSIN	24.97	1443
WYOMING	3.59	21
TOTAL	**5.54**	**17,972**

Source: NCHS Bridged Race Intercensal Population Estimate for 2016

Weeks 1-52, 2016 CDC/NCIRD/DBD/MVPDB

Notice to Readers:

Final 2016 Reports of Notifiable Diseases

January 5, 2018 / 66 (52)
https://www.cdc.gov/mmwr/volumes/66/wr/mm6652md.htm?s_cid=mm6652md_w

Reported Pertussis Cases

2015: **20,762** 2016: **17,972**

Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	1407 (7.8)	70.9	44.3
6-11 mos	634 (3.5)	31.9	11.7
1-6 yrs	3279 (18.3)	13.7	2.7
7-10 yrs	2450 (13.7)	14.8	1.5
11-19 yrs	6135 (34.1)	16.3	0.9
20+ yrs	4046 (22.5)	1.7	7.8
Unknown Age	21 (0.1)	N/A	N/A
Total	**17,972 (100)**	**5.6***	**6.7**

*Total age incidence per 100,000 calculated from 17,951 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	6
Cases, aged ≥ 1 yr	1
Total	**7**

*4 of the 7 deaths were female.

Reported DTaP Vaccine Status of Children with Pertussis, Ages 6 months through 6 years

Age	Vaccine History Unknown	Unvaccinated	Unvaccinated (1-2 doses)	Completed Primary DTaP Series (3+ doses)	Total
	No. (%)	No. (%)	No. (%)	No. (%)	No.
6-11 mo	259 (41)	52 (8)	91 (14)	232 (37)	634
1-4 yrs	1003 (41)	226 (9)	103 (4)	1003 (41)	2436
5-6 yrs	286 (34)	61(7)	24 (3)	472 (56)	843
Total*	**1548 (40)**	**339 (9)**	**218 (5)**	**1808 (46)**	**3913**

*Percent calculated from total cases aged 6 months to 6 years, n=3,913

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 2016—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 (see references). 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