

# 2016 Provisional Pertussis Surveillance Report

## Reported Pertussis Incidence and Cases

	Incidence (per 100,000)	No. of Cases
ALABAMA	3.3	160
ALASKA	19.5	144
ARIZONA	4.1	278
ARKANSAS	1.4	42
CALIFORNIA	2.8	1098
COLORADO	14.1	771
CONNECTICUT	2.3	81
DELAWARE	1.6	15
D.C.	1.3	9
FLORIDA	1.7	339
GEORGIA	1.7	170
HAWAII	3.6	51
IDAHO	4.9	81
ILLINOIS	7	899
INDIANA	2.2	142
IOWA	3.9	121
KANSAS	3.8	110
KENTUCKY	10.8	478
LOUISIANA	0.8	35
MAINE	18.3	243
MARYLAND	2.1	127
MASSACHUSETTS	2.3	158
MICHIGAN	4.3	424
MINNESOTA	14.4	791
MISSISSIPPI	0.1	2
MISSOURI	4.3	264
MONTANA	2	21
NEBRASKA	7.5	143
NEVADA	0.2	6
NEW HAMPSHIRE	3.8	50
NEW JERSEY	5.2	462
NEW MEXICO	6.4	134
NEW YORK	5.7	646
NEW YORK CITY	3.4	291
NORTH CAROLINA	2.6	256
NORTH DAKOTA	5	38
OHIO	8.3	963
OKLAHOMA	3.1	121
OREGON	4.5	180
PENNSYLVANIA	11.4	1454
RHODE ISLAND	6.7	71
SOUTH CAROLINA	3.7	180
SOUTH DAKOTA	1.6	14
TENNESSEE	2	131
TEXAS	4.1	1119
UTAH	6.9	206
VERMONT	43.5	272
VIRGINIA	2.2	181
WASHINGTON	7.1	512
WEST VIRGINIA	1.3	23
WISCONSIN	21	1212
WYOMING	3.1	18
<b>TOTAL</b>	<b>4.9</b>	<b>15737</b>

**Source:** NCHS Bridged Race Intercensal Population Estimate for 2015; 2016 estimate was not available at the time of publication

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

## Notice to Readers:

### Provisional 2016 Reports of Notifiable Diseases

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[www.cdc.gov/mmwr/volumes/65/wr/mm6552md.htm?s\\_cid=mm6552md\\_w](http://www.cdc.gov/mmwr/volumes/65/wr/mm6552md.htm?s_cid=mm6552md_w)

## Reported Pertussis Cases

2015: **20,762**      2016: **15,737**

### Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	1253 (8)	85.5	44.5
6-11 mos	540 (3.4)	27.1	11.9
1-6 yrs	2879 (18.3)	11.9	2.3
7-10 yrs	2161 (13.7)	12.7	1.2
11-19 yrs	5237 (33.3)	13.9	1
20+ yrs	3478 (22.1)	1.4	7.8
Unknown Age	189 (1.2)	N/A	N/A
<b>Total</b>	<b>15737 (100.0)</b>	<b>4.7*</b>	<b>6.5</b>

\*Total age incidence per 100,000 calculated from 15,548 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
<b>Total</b>	<b>7</b>

\*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 2016.

\*\*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	209 (38)	42 (8)	85 (16)	204 (38)	540
1-4 yrs	785 (36)	173 (8)	100 (5)	1093 (51)	2151
5-6 yrs	226 (31)	47 (6)	19 (3)	436 (60)	728
<b>Total*</b>	<b>1220 (36)</b>	<b>262 (9)</b>	<b>204 (6)</b>	<b>1733 (49)</b>	<b>3419</b>

\*Percent calculated from total cases aged 6 months to 6 years, n=3,419.

**Footnote:** This table reflects reported vaccination history of pertussis cases aged 6 months through 6 years. CDC recommends all children receive 3 doses of DTaP by age 6 months. DTaP coverage in the United States is high; over 95% of children aged 19-35 months have received 3 doses of DTaP. This table illustrates a similar trend among pertussis cases reported in 2016—the majority received at least 3 doses of DTaP. Because protection from DTaP wanes over time, even children who are up to date with DTaP 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.