

# 2018 Provisional Pertussis Surveillance Report

## Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	4.02	196
ALASKA	12.30	91
ARIZONA	3.25	228
ARKANSAS	2.30	69
CALIFORNIA	4.14	1638
COLORADO	10.65	597
CONNECTICUT	1.14	41
DELAWARE	16.01	154
D.C.	1.44	10
FLORIDA	1.60	336
GEORGIA	1.28	134
HAWAII	2.10	30
IDAHO	22.66	389
ILLINOIS	2.48	318
INDIANA	2.59	173
IOWA	4.32	136
KANSAS	4.19	122
KENTUCKY	4.33	193
LOUISIANA	2.56	120
MAINE	33.16	443
MARYLAND	1.93	117
MASSACHUSETTS	3.47	238
MICHIGAN	4.29	427
MINNESOTA	4.16	232
MISSISSIPPI	1.34	40
MISSOURI	2.75	168
MONTANA	13.52	142
NEBRASKA	8.12	156
NEVADA	1.23	37
NEW HAMPSHIRE	9.98	134
NEW JERSEY	2.25	203
NEW MEXICO	10.78	225
NEW YORK	3.07	345
NEW YORK CITY	1.82	157
NORTH CAROLINA	3.31	340
NORTH DAKOTA	6.35	48
OHIO	5.33	621
OKLAHOMA	2.04	80
OREGON	11.47	475
PENNSYLVANIA	3.37	431
RHODE ISLAND	2.93	31
SOUTH CAROLINA	3.82	192
SOUTH DAKOTA	13.68	119
TENNESSEE	1.61	108
TEXAS	3.64	1030
UTAH	8.77	272
VERMONT	5.45	34
VIRGINIA	2.60	220
WASHINGTON	6.98	517
WEST VIRGINIA	1.32	24
WISCONSIN	14.58	845
WYOMING	2.24	13
<b>TOTAL</b>	<b>4.13</b>	<b>13,439</b>

Source: NCHS Bridged Race Intercensal Population Estimate for 2017; 2018 estimates were not available at the time of publication.

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

## Notice to Readers:

### Provisional 2018 Reports of Notifiable Diseases

<https://wonder.cdc.gov/nndss/static/2018/52/2018-52-table2M.html>

## Reported Pertussis Cases

2017: **18,975**      2018: **13,439**

## Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	1127 (8.4)	57.2	42.9
6-11 mos	556 (4.1)	28.2	12.5
1-6 yrs	2671 (19.9)	11.1	2.8
7-10 yrs	1596 (11.9)	9.7	1.3
11-19 yrs	4214 (31.4)	11.2	0.9
20+ yrs	3039 (22.6)	1.2	7.4
Unknown Age	236 (1.8)	N/A	N/A
<b>Total</b>	<b>13,439 (100)</b>	<b>4.1*</b>	<b>6.9</b>

\*Total age incidence per 100,000 calculated from 13,203 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	4
Cases, aged ≥ 1 yr	6
<b>Total</b>	<b>10</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 2018

†4 of the 10 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	237 (43)	61 (11)	91 (16)	167 (30)	556
1-4 yrs	901 (45)	202 (10)	70 (4)	826 (41)	1999
5-6 yrs	265 (39)	67 (10)	15 (2)	325 (48)	672
<b>Total*</b>	<b>1403 (43)</b>	<b>330 (10)</b>	<b>176 (5)</b>	<b>1318 (41)</b>	<b>3227</b>

\*Percent calculated from total cases aged 6 months to 6 years, n=3,227.

**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 (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.

