

# 2017 Provisional Pertussis Surveillance Report

## Reported Pertussis Incidence and Cases

| STATES         | Incidence (per 100,000) | No. of Cases  |
|----------------|-------------------------|---------------|
| ALABAMA        | 4.59                    | 223           |
| ALASKA         | 5.80                    | 43            |
| ARIZONA        | 6.02                    | 417           |
| ARKANSAS       | 6.56                    | 196           |
| CALIFORNIA     | 4.44                    | 1742          |
| COLORADO       | 12.22                   | 677           |
| CONNECTICUT    | 1.57                    | 56            |
| DELAWARE       | 0.95                    | 9             |
| D.C.           | 2.50                    | 17            |
| FLORIDA        | 1.90                    | 392           |
| GEORGIA        | 1.58                    | 163           |
| HAWAII         | 2.17                    | 31            |
| IDAHO          | 4.99                    | 84            |
| ILLINOIS       | 3.30                    | 423           |
| INDIANA        | 5.23                    | 347           |
| IOWA           | 4.88                    | 153           |
| KANSAS         | 6.16                    | 179           |
| KENTUCKY       | 9.04                    | 401           |
| LOUISIANA      | 1.05                    | 49            |
| MAINE          | 27.71                   | 369           |
| MARYLAND       | 1.75                    | 105           |
| MASSACHUSETTS  | 4.45                    | 303           |
| MICHIGAN       | 5.86                    | 582           |
| MINNESOTA      | 10.07                   | 556           |
| MISSISSIPPI    | 1.14                    | 34            |
| MISSOURI       | 7.06                    | 430           |
| MONTANA        | 9.98                    | 104           |
| NEBRASKA       | 4.88                    | 93            |
| NEVADA         | 2.62                    | 77            |
| NEW HAMPSHIRE  | 4.57                    | 61            |
| NEW JERSEY     | 4.04                    | 361           |
| NEW MEXICO     | 7.35                    | 153           |
| NEW YORK       | 4.75                    | 532           |
| NEW YORK CITY  | 1.57                    | 134           |
| NORTH CAROLINA | 3.35                    | 340           |
| NORTH DAKOTA   | 6.73                    | 51            |
| OHIO           | 7.36                    | 855           |
| OKLAHOMA       | 3.64                    | 143           |
| OREGON         | 5.33                    | 218           |
| PENNSYLVANIA   | 7.04                    | 900           |
| RHODE ISLAND   | 5.11                    | 54            |
| SOUTH CAROLINA | 3.20                    | 159           |
| SOUTH DAKOTA   | 0.92                    | 8             |
| TENNESSEE      | 2.87                    | 191           |
| TEXAS          | 5.32                    | 1483          |
| UTAH           | 11.90                   | 363           |
| VERMONT        | 16.49                   | 103           |
| VIRGINIA       | 2.50                    | 210           |
| WASHINGTON     | 8.15                    | 594           |
| WEST VIRGINIA  | 0.71                    | 13            |
| WISCONSIN      | 10.54                   | 609           |
| WYOMING        | 3.07                    | 18            |
| <b>TOTAL</b>   | <b>4.89</b>             | <b>15,808</b> |

Source: NCHS Bridged Race Intercensal Population Estimate for 2016; 2017 estimates were not available at the time of publication.

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

## Notice to Readers:

### Provisional 2017 Reports of Notifiable Diseases

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[https://www.cdc.gov/mmwr/volumes/66/wr/mm6652md.htm?s\\_cid=mm6652md\\_w](https://www.cdc.gov/mmwr/volumes/66/wr/mm6652md.htm?s_cid=mm6652md_w)

## Reported Pertussis Cases

2016: 17,972      2017: 15,808

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

| Age          | No. of Cases (% of total) | Age Inc /100,000 | % Hospitalized by age** |
|--------------|---------------------------|------------------|-------------------------|
| < 6 mos      | 1280 (8)                  | 64.5             | 44.2                    |
| 6-11 mos     | 612 (3.9)                 | 30.8             | 11.5                    |
| 1-6 yrs      | 3051 (19.3)               | 12.7             | 2.8                     |
| 7-10 yrs     | 2221 (14.1)               | 13.5             | 1                       |
| 11-19 yrs    | 5139 (32.5)               | 13.7             | 0.9                     |
| 20+ yrs      | 3429 (21.7)               | 1.4              | 7.6                     |
| Unknown Age  | 76 (0.5)                  | N/A              | N/A                     |
| <b>Total</b> | <b>15,808 (100)</b>       | <b>4.9*</b>      | <b>6.6</b>              |

\*Total age incidence per 100,000 calculated from 15,732 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 | 9         |
| <b>Total</b>       | <b>13</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 2017  
 †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    | Undervaccinated (1-2 doses) | Completed Primary DTaP Series (3+ doses) | Total       |
|---------------|-------------------------|-----------------|-----------------------------|--|-------------|
|               | No. (%)                 | No. (%)         | No. (%)                     | No. (%)                                  | No.         |
| 6-11 mo       | 239 (39)                | 55 (9)          | 98 (16)                     | 220 (36)                                 | 612         |
| 1-4 yrs       | 931 (40)                | 247 (11)        | 111 (5)                     | 1026 (44)                                | 2315        |
| 5-6 yrs       | 271 (37)                | 72 (10)         | 19 (2)                      | 374 (51)                                 | 736         |
| <b>Total*</b> | <b>1441 (40)</b>        | <b>374 (10)</b> | <b>228 (6)</b>              | <b>1620 (44)</b>                         | <b>3663</b> |

\*Percent calculated from total cases aged 6 months to 6 years, n=3,663.

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.

