

# 2019 Final Pertussis Surveillance Report

## Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	5.32	261
ALASKA	6.15	45
ARIZONA	5.21	379
ARKANSAS	4.41	133
CALIFORNIA	8.16	3225
COLORADO	8.06	464
CONNECTICUT	1.77	63
DELAWARE	0.72	7
D.C.	3.68	26
FLORIDA	1.82	391
GEORGIA	3.19	339
HAWAII	3.81	54
IDAHO	14.10	252
ILLINOIS	7.20	912
INDIANA	3.24	218
IOWA	7.73	244
KANSAS	6.59	192
KENTUCKY	4.79	214
LOUISIANA	1.85	86
MAINE	28.49	383
MARYLAND	1.72	104
MASSACHUSETTS	4.27	294
MICHIGAN	5.44	543
MINNESOTA	8.26	466
MISSISSIPPI	1.81	54
MISSOURI	6.40	393
MONTANA	46.31	495
NEBRASKA	9.93	192
NEVADA	2.43	75
NEW HAMPSHIRE	3.60	49
NEW JERSEY	5.16	458
NEW MEXICO	7.96	167
NEW YORK	6.83	759
NEW YORK CITY	2.66	222
NORTH CAROLINA	4.68	491
NORTH DAKOTA	4.99	38
OHIO	7.68	898
OKLAHOMA	1.19	47
OREGON	10.01	422
PENNSYLVANIA	4.99	639
RHODE ISLAND	4.15	44
SOUTH CAROLINA	4.39	226
SOUTH DAKOTA	16.62	147
TENNESSEE	2.87	196
TEXAS	4.51	1308
UTAH	12.13	389
VERMONT	6.89	43
VIRGINIA	4.35	371
WASHINGTON	7.85	598
WEST VIRGINIA	2.18	39
WISCONSIN	9.14	532
WYOMING	5.18	30
<b>TOTAL</b>	<b>5.67</b>	<b>18,617</b>

Source: NCHS Bridged Race Intercensal Population Estimate for 2019.

Weeks 1-52, 2019 CDC/NCIRD/DBD/MVPDB

## Notice to Readers:

### Final 2019 Reports of Notifiable Diseases

[https://wonder.cdc.gov/nndss/nndss\\_annual\\_tables\\_menu.asp](https://wonder.cdc.gov/nndss/nndss_annual_tables_menu.asp)

## Reported Pertussis Cases

2018: 15,609      2019: 18,617

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

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	1447 (7.8)	76.5	40.9
6-11 mos	785 (4.2)	41.5	9.7
1-6 yrs	3889 (20.9)	16.3	2.4
7-10 yrs	2440 (13.1)	15.1	0.8
11-19 yrs	5673 (30.5)	15.0	1.1
20+ yrs	4380 (23.5)	1.8	7.7
Unknown Age	3 (0.0)	N/A	N/A
<b>Total</b>	<b>18,617 (100)</b>	<b>5.7*</b>	<b>6.2</b>

\*Total age incidence per 100,000 calculated from 18,614 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	3
<b>Total</b>	<b>7†</b>

\*Deaths reported through NNDSS to CDC.

†3 of the 7 deaths were female.

### Reported DTaP Vaccine Status of Children with Pertussis, Age 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	399 (50.8)	70 (8.9)	97 (12.4)	219 (27.9)	785
1-4 yrs	1417 (49.5)	297 (10.4)	103 (3.6)	1048 (36.6)	2865
5-6 yrs	460 (44.9)	76 (7.4)	34 (3.3)	454 (44.3)	1024
<b>Total*</b>	<b>2276 (48.7)</b>	<b>443 (9.5)</b>	<b>234 (5.0)</b>	<b>1721 (36.8)</b>	<b>4674</b>

\*Percent calculated from total cases aged 6 months to 6 years, n=4,674.

**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 2019—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; almost half 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.

