

Weekly

February 27, 2009 / Vol. 58 / No. 7

Motor Vehicle-Related Death Rates – United States, 1999-2005

In 2005, the most recent year for which data are available, 45,520 deaths in the United States were related to motor vehicles (1). A Healthy People 2010 objective calls for reducing the rate of deaths related to motor vehicles to 9.2 per 100,000 population from a baseline of 15.6 in 1998 (2). To assess progress toward the Healthy People objective and to examine characteristics of motor vehicle-related death rates, CDC analyzed data from the National Vital Statistics System (NVSS) for the period 1999–2005. This report summarizes the results of that analysis, which determined that, during 1999-2005, although annual age-adjusted motor vehicle-related death rates overall were nearly unchanged (range: 15.2-15.7 per 100,000 population), substantial differences were observed by state, U.S. Census region,* sex, race, and age group. Among states, the average annual death rate ranged from 7.9 per 100,000 population in Massachusetts to 31.9 in Mississippi. Among regions, the rate ranged from 9.8 per 100,000 population in the Northeast to 19.5 in the South. The rate for men (21.7 per 100,000 population) was more than double the rate for women (9.4); the rate for American Indians/Alaska Natives (27.2) was nearly twice the rate for whites (15.7) and blacks (15.2), and the rate for persons aged 15-24 years (26.8) was 74% higher than the average annual rate overall (15.4). Additional analysis and research to determine the causes of geographic and demographic variations in motor vehicle-related deaths might result in more effective targeted interventions among the states, regions, and populations at greatest risk.

NVSS data were obtained from CDC's Web-based Injury Statistics and Query System, an interactive surveillance system that provides customized reports of injury-related deaths based on death certificate records from state vital statistics offices (1). CDC analyzed data on motor vehicle-related deaths for the period 1999–2005, the most recent years for which data were available, using codes[†] from the International Classification of Diseases, 10th Revision (ICD-10) (3). Because the mortality coding system in the United States changed significantly from ICD-9 to ICD-10 in 1999, analysis was limited to data for the period 1999-2005 to ensure appropriate comparisons of data from year to year (4). Bridged-race population estimates from the U.S. Census were used to calculate death rates. Rates were age adjusted to the 2000 standard U.S. population. Negative binomial regression was used to determine the statistical significance (p<0.05) of changes in rates from 1999 to 2005. Data were analyzed by state, census region, sex, race (regardless of Hispanic ethnicity), and age group.

During 1999–2005, a total of 311,356 motor vehicle–related deaths occurred in the United States. The overall average annual

INSIDE

- 165 Arthritis as a Potential Barrier to Physical Activity Among Adults With Heart Disease — United States, 2005 and 2007
- 169 Completeness and Timeliness of Reporting of Meningococcal Disease — Maine, 2001–2006
- 172 Notice to Readers
- 173 QuickStats

^{*} Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont. South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin. West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

[†]ICD-10 codes for motor vehicle-related deaths include those for unintentional, intentional, and undetermined deaths and are as follows: V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V2.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2, X82,Y03, and Y32.

The *MMWR* series of publications is published by the Coordinating Center for Health Information and Service, Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30333.

Suggested Citation: Centers for Disease Control and Prevention. [Article title]. MMWR 2009;58:[inclusive page numbers].

Centers for Disease Control and Prevention

Richard E. Besser, MD (Acting) Director Tanja Popovic, MD, PhD *Chief Science Officer* James W. Stephens, PhD Associate Director for Science Steven L. Solomon, MD Director, Coordinating Center for Health Information and Service Jay M. Bernhardt, PhD, MPH Director, National Center for Health Marketing Katherine L. Daniel, PhD Deputy Director, National Center for Health Marketing

Editorial and Production Staff

Frederic E. Shaw, MD, JD Editor, MMWR Series Susan F. Davis, MD (Acting) Assistant Editor, MMWR Series Robert A. Gunn, MD, MPH Associate Editor, MMWR Series Teresa F. Rutledge Managing Editor, MMWR Series Douglas W. Weatherwax Lead Technical Writer-Editor Donald G. Meadows, MA Jude C. Rutledge Writers-Editors Martha F. Boyd Lead Visual Information Specialist Malbea A. LaPete Stephen R. Spriggs Visual Information Specialists Kim L. Bright, MBA Quang M. Doan, MBA Phyllis H. King Information Technology Specialists

Editorial Board

William L. Roper, MD, MPH, Chapel Hill, NC, Chairman Virginia A. Caine, MD, Indianapolis, IN David W. Fleming, MD, Seattle, WA William E. Halperin, MD, DrPH, MPH, Newark, NJ Margaret A. Hamburg, MD, Washington, DC King K. Holmes, MD, PhD, Seattle, WA Deborah Holtzman, PhD, Atlanta, GA John K. Iglehart, Bethesda, MD Dennis G. Maki, MD, Madison, WI Sue Mallonee, MPH, Oklahoma City, OK Patricia Quinlisk, MD, MPH, Des Moines, IA Patrick L. Remington, MD, MPH, Madison, WI Barbara K. Rimer, DrPH, Chapel Hill, NC John V. Rullan, MD, MPH, San Juan, PR William Schaffner, MD, Nashville, TN Anne Schuchat, MD, Atlanta, GA Dixie E. Snider, MD, MPH, Atlanta, GA John W. Ward, MD, Atlanta, GA

age-adjusted rate for this period was 15.4 deaths per 100,000 population (range: 15.2–15.7 per 100,000 population); the annual death rate decreased by 1% from 15.3 in 1999 to 15.2 in 2005 (Table 1).

Of the motor vehicle–related deaths in the United States during 1999–2005, a total of 141,780 (46%) occurred in the South census region. The average annual death rate was highest in the South (19.5 per 100,000 population), followed by the Midwest (14.7), West (14.2), and Northeast (9.8). By state, the average annual death rate was highest in Mississippi (31.9 per 100,000 population), followed by Wyoming (27.7), Arkansas (25.6), Montana (25.6), and Alabama (25.1). In four states and the District of Columbia (DC), the average annual death rate was below the *Healthy People* target of 9.2 per 100,000 population: Massachusetts (7.9), New York (8.4), Rhode Island (8.5), DC (8.4), and New Jersey (9.0) (Table 1).

During 1999–2005, the average annual death rate for males (21.7 deaths per 100,000 population) in the United States was more than twice the rate for females (9.4) (Table 2). By race, the average annual death rate was highest among American Indians/Alaska Natives (27.2 deaths per 100,000 population), followed by whites (15.7), blacks (15.2), and Asians/Pacific Islanders (8.2) (Table 2).

By age group, the average annual motor vehicle–related death rate was highest among persons aged 15–24 years (26.8 deaths per 100,000 population) and persons aged \geq 75 years (25.9) and lowest among persons aged \leq 14 years (4.0) (Table 3). From 1999 to 2005, the annual rate was flat (26.3 versus 25.9) among persons aged 15–24 years and increased by 8% among persons aged 45–64 years and by 4% among persons aged 25–44 years. The annual rate decreased by 18% among persons aged \leq 14 years and by 15% among persons aged \geq 75 years.

Reported by: N Adekoya, DrPH, National Center for Public Health Informatics; Motor Vehicle Injury Prevention Team, Div of Unintentional Injury Prevention, National Center for Injury Prevention and Control, CDC.

Editorial Note: During 1999–2005, approximately 300,000 deaths in the United States were related to motor vehicle crashes; however, the overall annual death rate did not change substantially (range: 15.2–15.7 per 100,000 population). During an earlier period, from 1969 to 1992, the overall annual rate of motor vehicle–related deaths in the United States decreased 43%, from 27.7 per 100,000 population[§] to 15.8 (*I*), a rate only slightly higher than the rate observed during 1999–2005. Motor vehicle–related deaths are preventable, and numerous factors have been credited for the decrease in the death rate during 1969–1992, including adoption of the 0.08 g/dL blood alcohol concentration limit for drivers; vehicle

[§] National Safety Council, Injury Facts, 2002.

| TABLE 1. Number of motor vehicle-related deaths* | and death rates, [†] | by state and U.S. | Census region - | - National Vital Statistics |
|--|-------------------------------|-------------------|-----------------|-----------------------------|
| System, United States, 1999–2005 | | - | - | |

| | | Average | | | | | | | | Change | |
|----------------------|---------|---------|------|------|------|------|------|------|------|-------------|----------|
| | | annual | | | | | | | | from 1999 | |
| Region/State | No. | rate | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | to 2005 (%) | p-value§ |
| Northeast | 37,707 | 9.8 | 9.9 | 9.6 | 10.0 | 10.3 | 9.7 | 9.6 | 9.6 | -3 | 0.496 |
| Connecticut | 2,229 | 9.3 | 9.2 | 10.1 | 9.5 | 10.2 | 8.3 | 9.7 | 8.3 | -10 | 0.400 |
| Maine | 1,370 | 14.9 | 15.7 | 13.8 | 15.4 | 16.3 | 15.2 | 14.1 | 14.2 | -10 | 0.757 |
| Massachusetts | 3,626 | 7.9 | 7.0 | 7.7 | 8.7 | 8.6 | 8.1 | 8.0 | 7.3 | 4 | 0.372 |
| New Hampshire | 987 | 11.2 | 10.9 | 11.2 | 11.0 | 10.0 | 10.2 | 12.6 | 12.3 | 13 | 0.024 |
| New Jersey | 5,378 | 9.0 | 8.8 | 9.3 | 9.0 | 9.2 | 9.2 | 8.9 | 8.7 | -1 | 0.502 |
| New York | 11,413 | 8.4 | 9.3 | 8.1 | 8.7 | 8.8 | 8.1 | 8.1 | 7.8 | -16 | 0.036 |
| Pennsylvania | 11,482 | 13.0 | 12.8 | 12.3 | 12.6 | 13.9 | 13.1 | 12.5 | 13.9 | 9 | 0.008 |
| Rhode Island | 654 | 8.5 | 8.3 | 7.5 | 8.9 | 8.5 | 9.4 | 8.9 | 7.9 | -5 | 0.257 |
| Vermont | 568 | 13.1 | 13.7 | 12.5 | 14.6 | 12.6 | 11.8 | 13.0 | 13.1 | -4 | 0.943 |
| South | 141,780 | 19.5 | 19.4 | 19.9 | 19.5 | 19.6 | 19.3 | 19.5 | 19.3 | -1 | 0.054 |
| Alabama | 7,912 | 25.1 | 26.1 | 24.0 | 23.2 | 24.8 | 23.8 | 27.8 | 25.7 | -2 | 0.148 |
| Arkansas | 4,889 | 25.6 | 24.5 | 25.3 | 24.4 | 25.4 | 26.2 | 28.4 | 24.7 | 1 | 0.023 |
| Delaware | 860 | 15.2 | 12.7 | 16.1 | 15.3 | 14.9 | 16.0 | 16.9 | 14.0 | 10 | 0.165 |
| District of Columbia | 354 | 8.4 | 6.3 | 9.6 | 9.0 | 9.2 | 10.4 | 7.6 | 6.7 | 6 | 0.934 |
| Florida | 22,356 | 18.8 | 17.9 | 19.0 | 18.6 | 18.9 | 18.8 | 18.6 | 19.6 | 9 | <0.001 |
| Georgia | 10,860 | 18.4 | 19.3 | 19.2 | 19.7 | 18.1 | 16.7 | 17.1 | 18.7 | -3 | 0.181 |
| Kentuckv | 6.380 | 22.1 | 20.1 | 20.5 | 21.1 | 22.5 | 22.7 | 23.9 | 23.7 | 18 | <0.001 |
| Louisiana | 6.968 | 22.2 | 22.0 | 22.7 | 22.2 | 21.5 | 21.4 | 22.7 | 22.7 | 3 | 0.084 |
| Marvland | 4.667 | 12.4 | 12.0 | 11.9 | 13.4 | 13.4 | 13.0 | 12.1 | 11.3 | -6 | 0.772 |
| Mississippi | 6.391 | 31.9 | 33.9 | 32.9 | 29.1 | 30.8 | 31.4 | 31.5 | 33.4 | -1 | 0.858 |
| North Carolina | 11,676 | 20.0 | 20.0 | 21.0 | 20.1 | 20.2 | 19.8 | 19.9 | 19.2 | -4 | 0.056 |
| Oklahoma | 5 208 | 21.1 | 20.0 | 19.6 | 20.9 | 21.9 | 20.6 | 21.5 | 23.3 | 17 | <0.001 |
| South Carolina | 7 118 | 24.6 | 25.1 | 25.8 | 24.5 | 24.9 | 22.8 | 24.4 | 25.1 | 0 | 0.838 |
| Tennessee | 9,302 | 22.8 | 23.4 | 24.5 | 22.5 | 21.6 | 22.3 | 23.4 | 21.8 | -7 | 0.343 |
| Техае | 27 226 | 18.1 | 18.2 | 18.6 | 18.9 | 18.7 | 18.4 | 17.4 | 16.8 | -8 | 0.077 |
| Virginia | 6 818 | 13.4 | 13.0 | 14.0 | 13.5 | 13.3 | 13.8 | 13.6 | 12.8 | -2 | 0.077 |
| West Virginia | 2 795 | 21.7 | 21.0 | 21.7 | 20.7 | 22 4 | 21.8 | 22.5 | 22.0 | -2 | 0.400 |
| | 2,700 | 447 | 21.0 | 21.7 | 20.7 | 45.9 | 21.0 | 22.5 | 444 | 5 | 0.000 |
| | 10,000 | 14.7 | 14.9 | 10.7 | 14.8 | 15.3 | 14.0 | 14.1 | 14.1 | - 5 | 0.117 |
| IIIINOIS | 10,829 | 12.3 | 12.6 | 12.7 | 12.8 | 12.6 | 11.9 | 11.9 | 11.5 | -9 | 0.003 |
| Indiana | 0,802 | 15.7 | 10.5 | 15.1 | 15.9 | 15.6 | 15.2 | 10.1 | 15.4 | -/ | 0.814 |
| IOwa | 3,239 | 15.3 | 17.7 | 10.6 | 14.9 | 14.0 | 15.0 | 13.7 | 10.0 | -12 | 0.080 |
| Kansas | 3,684 | 19.1 | 21.1 | 18.4 | 19.7 | 20.5 | 17.8 | 18.2 | 18.1 | -14 | 0.065 |
| Michigan | 9,723 | 13.9 | 14.4 | 15.4 | 14.5 | 13.9 | 13.7 | 13.0 | 12.2 | -15 | <0.001 |
| Minnesota | 4,732 | 13.4 | 13.3 | 14.1 | 12.6 | 14.7 | 13.8 | 12.7 | 12.4 | -/ | 0.688 |
| Missouri | 8,039 | 20.0 | 19.0 | 19.6 | 19.6 | 21.2 | 21.2 | 19.1 | 20.5 | 8 | 0.049 |
| Nebraska | 2,077 | 16.8 | 17.3 | 16.4 | 15.6 | 19.2 | 17.6 | 15.7 | 16.0 | -8 | 0.973 |
| North Dakota | 838 | 18.1 | 19.9 | 16.1 | 17.6 | 17.1 | 18.1 | 17.9 | 19.7 | -1 | 0.374 |
| Ohio | 10,155 | 12.6 | 12.6 | 12.9 | 13.0 | 14.0 | 11.7 | 12.0 | 12.2 | -3 | 0.485 |
| South Dakota | 1,303 | 24.2 | 23.3 | 23.4 | 24.0 | 24.1 | 27.3 | 24.6 | 22.7 | -3 | 0.424 |
| vvisconsin | 5,981 | 15.5 | 14.0 | 16.5 | 15.1 | 15.8 | 16.0 | 14.7 | 15.6 | / | 0.494 |
| West | 64,467 | 14.2 | 13.6 | 13.9 | 13.9 | 14.6 | 14.6 | 14.2 | 14.3 | 5 | <0.001 |
| Alaska | 765 | 18.2 | 15.2 | 23.8 | 17.6 | 18.9 | 19.0 | 18.9 | 14.3 | -6 | 0.891 |
| Arizona | 7,543 | 19.8 | 19.0 | 19.9 | 19.4 | 20.7 | 20.0 | 19.5 | 20.3 | 7 | 0.004 |
| California | 29,061 | 12.0 | 11.2 | 11.3 | 11.6 | 12.3 | 12.8 | 12.5 | 12.3 | 10 | <0.001 |
| Colorado | 5,024 | 16.1 | 15.0 | 17.7 | 17.2 | 17.5 | 15.7 | 15.4 | 14.4 | -4 | 0.389 |
| Hawaii | 897 | 10.2 | 7.4 | 10.6 | 10.5 | 9.7 | 11.2 | 11.2 | 11.0 | 49 | 0.002 |
| Idaho | 1,921 | 20.4 | 21.8 | 21.3 | 19.3 | 22.2 | 20.7 | 18.2 | 19.9 | -9 | 0.133 |
| Montana | 1,655 | 25.6 | 23.3 | 26.5 | 23.3 | 27.9 | 27.5 | 25.7 | 25.1 | 8 | 0.181 |
| Nevada | 2,614 | 17.5 | 17.7 | 15.5 | 16.3 | 18.2 | 16.8 | 18.2 | 19.3 | 9 | 0.001 |
| New Mexico | 3,087 | 23.8 | 23.5 | 23.4 | 24.0 | 22.7 | 23.4 | 25.4 | 24.0 | 2 | 0.004 |
| Oregon | 3,460 | 13.9 | 12.8 | 14.0 | 14.6 | 13.0 | 15.2 | 13.8 | 13.9 | 9 | 0.112 |
| Utah | 2,312 | 14.8 | 17.1 | 17.3 | 13.8 | 14.8 | 13.5 | 13.9 | 13.6 | -20 | < 0.001 |
| Washington | 5,145 | 12.1 | 12.7 | 12.2 | 12.5 | 12.6 | 12.0 | 10.8 | 12.1 | -5 | 0.308 |
| Wyoming | 983 | 27.7 | 29.0 | 24.8 | 28.7 | 31.7 | 26.9 | 22.7 | 30.2 | 4 | 0.825 |
| Total | 311,356 | 15.4 | 15.3 | 15.5 | 15.4 | 15.7 | 15.3 | 15.2 | 15.2 | -1 | 0.021 |

* International Classification of Diseases, 10th Revision codes for motor vehicle–related deaths include those for unintentional, intentional, and undetermined deaths and are as follows: V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V2.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2, X82, Y03, and Y32.

[†] Age adjusted, per 100,000 population. [§] Statistical significance determined by negative binomial regression (p<0.05).

| | North | east | Soι | ıth | Midv | vest | We | st | Total | | |
|------------------------|--------|------|---------|------|--------|------|--------|------|---------|---------------------|--|
| Characteristic | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Average annual rate | |
| Sex | | | | | | | | | | | |
| Male | 25,889 | 14.3 | 97,530 | 27.7 | 45,501 | 20.5 | 44,289 | 19.6 | 213,209 | 21.7 | |
| Female | 11,818 | 5.7 | 44,250 | 11.8 | 21,901 | 9.2 | 20,178 | 8.8 | 98,147 | 9.4 | |
| Race | | | | | | | | | | | |
| White | 33,027 | 10.4 | 113,293 | 20.1 | 59,748 | 14.9 | 54,318 | 14.4 | 260,386 | 15.7 | |
| Black | 3,764 | 8.0 | 25,829 | 19.0 | 5,877 | 12.7 | 3,066 | 12.7 | 38,536 | 15.2 | |
| AI/AN [¶] | 71 | 4.3 | 1,166 | 19.6 | 1,055 | 31.9 | 3,343 | 34.2 | 5,635 | 27.2 | |
| Asian/Pacific Islander | 845 | 5.3 | 1,492 | 9.6 | 722 | 8.1 | 3,740 | 8.8 | 6,799 | 8.2 | |

TABLE 2. Number of motor vehicle-related deaths* and death rates,[†] by sex, race, and U.S. Census region[§] — National Vital Statistics System, United States, 1999–2005

* International Classification of Diseases, 10th Revision codes for motor vehicle–related deaths include those for unintentional, intentional, and undetermined deaths and are as follows: V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V2.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2, X82, Y03, and Y32.

[†] Age adjusted, per 100,000 population.

§ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont. South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin. West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

[¶] American Indian/Alaska Native.

TABLE 3. Number of motor vehicle-related deaths* and death rates,[†] by age group — National Vital Statistics System, United States, 1999–2005

| Age group | | Average | | | | | | | | Change from 1999 to 2005 | |
|----------------|---------|-------------|------|------|------|------|------|------|------|--------------------------|----------------------|
| (yrs) | No. | annual rate | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | (%) | p-value [§] |
| <u><</u> 14 | 17,100 | 4.0 | 4.4 | 4.3 | 4.1 | 3.9 | 4.0 | 4.0 | 3.6 | -18 | <0.001 |
| 15–24 | 76,054 | 26.8 | 26.3 | 27.1 | 26.8 | 28.2 | 26.7 | 26.4 | 25.9 | -2 | 0.845 |
| 25–44 | 97,589 | 16.4 | 15.9 | 16.3 | 16.6 | 16.8 | 16.5 | 16.3 | 16.6 | 4 | <0.001 |
| 45–64 | 67,511 | 14.5 | 13.9 | 14.4 | 14.1 | 14.7 | 14.7 | 14.8 | 15.0 | 8 | <0.001 |
| 65–74 | 21,532 | 16.7 | 17.8 | 16.6 | 16.4 | 17.1 | 16.2 | 16.2 | 16.8 | -6 | 0.300 |
| <u>≥</u> 75 | 31,397 | 25.9 | 27.6 | 27.0 | 26.7 | 26.3 | 25.8 | 24.8 | 23.5 | -15 | <0.001 |
| Total | 311,356 | 15.4 | 15.3 | 15.5 | 15.4 | 15.7 | 15.3 | 15.2 | 15.2 | -1 | 0.021 |

* International Classification of Diseases, 10th Revision codes for motor vehicle–related deaths include those for unintentional, intentional, and undetermined deaths and are as follows: V02–V04,V09.0,V09.2,V12–V14,V19.0–V19.2,V19.4–V19.6,V20–V79,V80.3–V80.5,V81.0–V81.1,V82.0–V2.1,V83–V86,V87.0–V87.8,V88.0–V88.8,V89.0,V89.2, X82,Y03, and Y32.

[†]Age adjusted, per 100,000 population.

§ Statistical significance determined by negative binomial regression (p<0.05).

safety improvements, primary enforcement of seat belt and child restraint laws, an increased minimum legal drinking age, alcohol checkpoints, lower speed limits and increased enforcement, and increased availability of statewide trauma systems (5). Nonetheless, additional and vigorous measures are needed if the *Healthy People 2010* national objective of 9.2 deaths per 100,000 population is to be met.

The findings in this report revealed substantial variation in motor vehicle–related death rates among states during 1999–2005. Some of this variation is explained by the extent of population exposure to the road environment, which was not part of this population-based analysis. Similar calculations using a denominator such as vehicle miles traveled can yield different variations among states. Motor vehicle–related death rates also can vary for other reasons, including the types of road users. In this analysis, rates might be higher in states with greater percentages of more vulnerable road users (e.g., pedestrians, bicyclists, and motorcyclists) than in states with more passenger vehicle occupants.

The South accounted for 46% of the deaths during the period studied but only 36% of the population. Reasons for this disproportion are unclear. In addition to variations in exposure to the road environment and type of road user, rates might be affected by the proportion of the population living in rural versus urban locations and greater distances traveled, differences in population demographics (e.g., income and education), and differences in safety behaviors such as safety belt use (6–8). However, regional differences also mask substantial state variability. For example, in the South, Alabama and Arkansas had rates approximately twice as high as Maryland and Virginia. The differences in death rates by sex, race, and age group observed in this analysis are consistent with other reports and again underscore the importance of identifying populations at greatest risk for targeted interventions (e.g.,

males, American Indian/Alaska Natives, and young adults) (9,10). Further studies should address reasons for the higher motor vehicle–related death rates in certain states to enable creation of strategies that directly address this concern.

The findings in this report are subject to at least two limitations. First, death certificates and population estimates might not accurately record race, resulting in overreporting or underreporting of deaths and rates for certain racial populations. Second, the *Healthy People* objective was based on unintentional deaths only. However, this study examined all motor vehicle–related deaths, including homicides and suicides, which accounted for 1,400 deaths, or approximately 0.45% of all motor vehicle–related deaths during the study period.

Motor vehicle crashes continue to be a leading cause of death and injury in every U.S. region and state. States should reexamine their unique demographic, geographic, and cultural risk factors to determine the extent to which they are contributing to motor vehicle crashes and injuries. In addition, state and local highway safety and public health officials should reconsider additional strategies that have demonstrated effectiveness in reducing the number of motor vehicle-related deaths and injuries. For example, when properly used, lap/shoulder safety belts reduce by 45% the risk for dying in a crash and by 50% the risk for moderate to serious injury (6). Currently, 49 states and DC have safety belt laws; however, 23 states have only implemented laws with secondary enforcement (i.e., allowing police to ticket motorists for not using safety belts only if they are stopped for another violation). Secondary laws are less effective at increasing safety belt use and decreasing fatalities than primary laws (10). States should reexamine their motor vehicle safety policies to ensure that they are implementing and enforcing measures with the greatest effectiveness. Information on the effectiveness of strategies to increase use of safety belts and child safety seats and reduce alcohol-impaired driving is available at http://www.thecommunityguide.org/mvoi/index. html.

References

- CDC. WISQARS (Web-based Injury Statistics Query and Reporting System). Available at http://www.cdc.gov/ncipc/wisqars.
- US Department of Health and Human Services. Injury and violence protection: objective 15-15. In: Healthy people 2010 (conference ed. in 2 vols). Washington, DC: US Department of Health and Human Services; 2000. Available at http://www.healthypeople.gov/document/ pdf/volume2/15injury.pdf.
- 3. World Health Organization. International statistical classification of diseases and related health problems: 10th revision (ICD-10). 3 vols. Geneva, Switzerland: World Health Organization; 1992.
- Anderson RN, Minino AM, Hoyert DL, Rosenberg HM. Comparability of cause of death between ICD–9 and ICD–10: preliminary estimates. Natl Vital Stat Rep 2001;49(2).
- Dellinger AM, Sleet DA, Jones BH. Drivers, wheels, and roads: motor vehicle safety in the twentieth century [Chapter 16]. In: Ward JW, Warren C, eds. Silent victories: the history and practice of public health in twentieth-century America. New York, NY: Oxford; 2007:343–62.

- National Highway Traffic Safety Administration. Traffic safety facts— 2007 data. Occupant protection. Washington, DC: National Highway Traffic Safety Administration; 2008. DOT HS 810 991. Available at http://www-nrd.nhtsa.dot.gov/pubs/810991.pdf.
- National Highway Traffic Safety Administration. Traffic safety facts, 2005. A compilation of motor vehicle crash data from the Fatality Analysis Reporting System and the General Estimates System. Washington, DC: National Highway Traffic Safety Administration; 2006. DOT HS 810 631.
- O'Neill B, Kyrychenko SY. Use and misuse of motor-vehicle crash death rates in assessing highway-safety performance. Traffic Inj Prev 2006;7:307–18.
- CDC. Injury mortality among American Indian and Alaska Native children and youth—United States, 1989–1998. MMWR 2003;52:697–701.
- Shults RA, Nichols JL, Dinh-Zarr TB, Sleet DA, Elder RW. Effectiveness of primary enforcement safety belt laws and enhanced enforcement of safety belt laws: a summary of the Guide to Community Preventive Services systematic reviews. J Safety Res 2004;35:189–96.

Arthritis as a Potential Barrier to Physical Activity Among Adults With Heart Disease – United States, 2005 and 2007

Being physically active is an important component of heart disease (HD) management (1); however patients with HD are less likely to comply with physical activity recommendations than those without HD (2). Arthritis is a common comorbidity among persons with HD, and arthritis-associated joint pain and fear of further joint damage can be an unrecognized barrier to physical activity among persons with HD (CDC, unpublished data, 2008). To provide estimates of the magnitude of this problem at the state level, CDC combined 2005 and 2007 Behavioral Risk Factor Surveillance System (BRFSS) data to estimate overall and age- and sex-specific prevalence of self-reported doctor-diagnosed arthritis among adults aged ≥ 18 years with self-reported HD, and the prevalence of physical inactivity among adults with HD by arthritis status. The results indicated that, for these 2 years combined, arthritis affected 57.4% of adults with HD, compared with 27.4% of adults in the general population. Among adults with HD, the likelihood of physical inactivity was 30% greater compared with that of persons with HD but without arthritis, when adjusted for age, sex, race/ethnicity, education level, and body mass index (BMI) (odds ratio [OR] = 1.3). These results suggest that arthritis might be an additional barrier to increased physical activity among persons with HD. Health-care providers and public health agencies should consider addressing this barrier with arthritis-specific or general evidence-based self-management

education and exercise programs for their patients with arthritis and HD.

BRFSS is a state-based, random-digit–dialed telephone survey of the noninstitutionalized U.S. civilian population aged \geq 18 years. Data were collected from the 50 states, District of Columbia (DC), Puerto Rico, and U.S. Virgin Islands. Response rates were calculated using Council of American Survey and Research Organizations (CASRO) guidelines; for 2005 and 2007,* respectively, median response rates were 51.1% and 50.6% and cooperation rates were 75.1% and 72.1%.[†] A total of 15,725 respondents with missing arthritis or HD data were excluded, resulting in a final sample of 757,959.

HD was defined as a "yes" response to at least one of two questions: "Has a doctor, nurse, or other health professional ever told you that you had... a heart attack, also called a myocardial infarction?" or "...angina or coronary heart disease?" Doctor-diagnosed arthritis was defined as a "yes" response to the question, "Have you ever been told by a doctor or other health professional that you have some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia?" Physical activity level of respondents was determined from six questions[§] that asked about frequency and duration of participation in nonoccupational activities (i.e., lifestyle activities) of moderate and vigorous intensity; persons reporting no participation in such activities were classified as inactive. Physical activity guidelines in effect during 2005 and 2007 were used for classifying physical inactivity.⁹ Body mass index (BMI) was calculated from self-reported height and weight.

To generate nationwide estimates and 95% confidence intervals (CIs), data from 2005 and 2007 for the 50 states and DC were combined, and an annual average weighting was applied to account for multistage probability sampling. Data for arthritis and heart disease were not collected in all states in 2006, and so, were not included. To assess factors potentially confounding an association between doctor-diagnosed arthritis and physical inactivity among those with heart disease, data were combined across states, in unadjusted and adjusted (by age, sex, race/ethnicity, education level, and BMI) logistic regression models. All other estimates in this report are unadjusted. Estimates were calculated for the 50 states, DC, and territories. Because states are most interested in the number of affected persons and unadjusted prevalence for use in planning and resource allocations, unadjusted state-specific estimates are provided in this report. Statistical significance was determined by the chi-square test (p<0.05).

Average annual adult prevalence was 6.5% for HD and 26.9% for arthritis. Among all respondents, 3.7% reported HD and arthritis, 2.8% reported HD only, 23.2% reported arthritis only, and 70.4% reported neither condition (Table 1). By sex, males had a higher prevalence of HD only and a slightly higher prevalence of both conditions (p<0.01); females had a higher prevalence of arthritis only (p<0.01). The likelihood of having one or both conditions increased with increasing age. Whites were more likely than blacks to have one or both conditions (p<0.01). Prevalence of physical inactivity was lowest among adults without arthritis or HD (11.0%; CI = 10.8%–11.2%), higher among adults with arthritis alone (17.6%; CI = 17.3%–18.0%) and HD alone (21.0%; CI = 20.0%–22.2%), and highest among adults with both conditions (29.3%; CI = 28.5%–30.2%) (p<0.01) (Figure).

In logistic regression analyses of adults with HD, those with doctor-diagnosed arthritis were 60% more likely to be physically inactive (OR = 1.6; CI = 1.4-1.7; p<0.01); when adjusted for age, sex, race/ethnicity, education level, and BMI, they were 30% more likely to be inactive (OR = 1.3; CI = 1.2-1.4; p<0.01). The state median prevalence estimate for arthritis among adults with HD was 57.4% (range: 46.9% in Hawaii to 68.6% in Mississippi) (Table 2). The state median prevalence of physical inactivity among adults with HD and arthritis was 27.2% (range: 20.5% in Colorado to 50.3% in Kentucky); among adults who had HD only, the state median was 19.5% (range: 13.5% in Utah to 38.0% in Kentucky).

Reported by: J Bolen, PhD, L Murphy, PhD, K Greenlund, PhD, CG Helmick, MD, J Hootman, PhD, TJ Brady, PhD, G Langmaid, Div of Adult and Community Health; N Keenan, PhD, Div for Heart Disease and Stroke Prevention, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: HD and arthritis are common chronic diseases among adults in the United States, affecting 14.1 million and 46.5 million adults in 2006, respectively (*3*). Each condition is responsible for substantial activity limitation among adults aged \geq 45 years, and persons with both conditions are significantly more limited that those with just one condition (*4*). The results of this analysis indicate that, during 2005 and 2007, doctor-diagnosed arthritis affected more than half of persons with HD. In this group, the adjusted likelihood of physical inactivity was 30% higher compared with that of persons with

^{*} BRFSS survey data are available at http://www.cdc.gov/brfss/technical_infodata/ surveydata.htm.

[†] The response rate is the percentage of persons who completed interviews among all eligible persons, including those who were not successfully contacted. The cooperation rate is the percentage of persons who completed interviews among all eligible persons who were contacted.

[§] Available at http://www.cdc.gov/brfss/questionnaires/pdf-ques/2005brfss.pdf and http://www.cdc.gov/brfss/questionnaires/pdf-ques/2007brfss.pdf.

⁹U.S. Department of Health and Human Services. 1999 Physical activity and health: a report of the surgeon general. Atlanta, GA: US Department of Health and Human Services, CDC; 1996. Available at http://www.cdc.gov/ nccdphp/sgr/sgr.htm. New guidelines were released in October of 2008 (2008 Physical Activity Guideline for Americans, available at http://www.health.gov/ paguidelines).

| | Unweighted | Heart dis | ease and arthritis | Heart | disease only | Arth | nritis only | Neith | er condition |
|-----------------------|------------|-----------|--------------------|-------|--------------|------|-------------|-------|--------------|
| Characteristic | No. | % | (95% CI*) | % | (95% CI) | % | (95% CI) | % | (95% CI) |
| Sex | | | | | | | | | |
| Male | 286,066 | 3.9 | (3.8-4.0) | 3.8 | (3.7–3.9) | 18.7 | (18.4–19.0) | 73.6 | (73.3–73.9) |
| Female | 471,893 | 3.5 | (3.4–3.6) | 1.8 | (1.7 - 1.9) | 27.4 | (27.2-27.6) | 67.3 | (67.0-67.6) |
| Age group (yrs) | | | | | | | | | |
| 18–44 | 246,910 | 0.4 | (0.4–0.5) | 1.1 | (1.0–1.2) | 10.6 | (10.4–10.8) | 87.9 | (87.7-88.1) |
| 45–64 | 303,213 | 4.2 | (4.1-4.3) | 3.2 | (3.0–3.3) | 32.2 | (31.9–32.5) | 60.4 | (60.1-60.8) |
| <u>≥</u> 65 | 202,201 | 12.5 | (12.2–12.8) | 7.1 | (6.9–7.3) | 43.7 | (43.2-44.1) | 36.7 | (36.3-37.1) |
| Race/Ethnicity | | | | | | | | | |
| White, non-Hispanic | 605,447 | 4.1 | (4.0-4.2) | 2.8 | (2.7-2.9) | 25.6 | (25.4-25.8) | 67.5 | (67.3–67.7) |
| Black, non-Hispanic | 56,139 | 3.4 | (3.2-3.6) | 2.3 | (2.1-2.6) | 23.1 | (22.4-23.7) | 71.3 | (70.6-71.9) |
| Hispanic | 47,050 | 1.8 | (1.6-2.1) | 3.0 | (2.6-3.3) | 13.0 | (12.4–13.6) | 82.2 | (81.5-82.9) |
| Other, non-Hispanic | 42,325 | 3.3 | (3.0-3.6) | 2.6 | (2.2-2.9) | 18.0 | (17.3-18.9) | 76.1 | (75.2-77.0) |
| Education level (yrs) | | | | | | | | | |
| <u><</u> 11 | 77,412 | 6.3 | (6.0-6.6) | 4.2 | (3.9–4.5) | 23.6 | (22.9-24.2) | 66.0 | (65.3-66.7) |
| 12 | 232,247 | 4.4 | (4.2-4.5) | 3.0 | (2.9-3.2) | 25.3 | (25.0-25.7) | 67.3 | (66.9-67.7) |
| <u>≥</u> 13 | 446,791 | 2.8 | (2.8-2.9) | 2.4 | (2.3-2.5) | 22.0 | (21.8-22.3) | 72.8 | (72.5-73.0) |
| BMI [†] | | | | | | | | | |
| Underweight/Normal | 273,708 | 2.5 | (2.4–2.6) | 2.3 | (2.2–2.4) | 18.1 | (17.9–18.4) | 77.1 | (76.8–77.4) |
| Overweight | 263,204 | 3.7 | (3.6–3.8) | 3.1 | (3.0–3.3) | 23.6 | (23.3–23.9) | 69.5 | (69.2-69.9) |
| Obese | 187,106 | 5.7 | (5.6–5.9) | 3 | (2.8-3.1) | 30.7 | (30.3–31.1) | 60.6 | (60.1-61.0) |
| Total [§] | 757,959 | 3.7 | (3.6–3.8) | 2.8 | (2.7–2.9) | 23.2 | (23.0–23.4) | 70.4 | (70.2–70.6) |

TABLE 1. Percentage of respondents aged ≥18 years who reported heart disease and arthritis, heart disease only, arthritis only, or neither condition, by selected characteristics — Behavioral Risk Factor Surveillance System, United States, 2005 and 2007

* Confidence interval.

⁺ Body mass index, calculated as weight (kg) / height (m)²; normal = 18.5–24.9, overweight = 25.0–29.9, and obese = \geq 30.0.

§ Number of persons who provided a response for heart disease and for arthritis. Some categories might not add to total because of missing demographic data.

HD but without arthritis. State-specific estimates were generally consistent with the overall findings, with differences among states likely attributable to varying distributions of potential confounders (e.g., age, race, and education level). The analyses suggest that arthritis might be an additional barrier to being physically active among persons with HD.

The findings in this study are consistent with other research indicating that persons with both arthritis and HD might face additional barriers to increased physical activity (4). This study is the first to quantify the relationship using a population-based sample that provides both national and state-specific estimates of the prevalence and compares physical inactivity for persons with both conditions to those with HD alone.

Both HD and arthritis can interfere with physical functioning, ability to work, and ability to perform household tasks (4). These conditions also might interfere with efforts to become more physically active. Persons with arthritis face the same barriers to being more active as most adults, including lack of motivation and time, competing responsibilities, and difficulty finding an enjoyable activity (5). They also face additional barriers, such as concerns about aggravating arthritis pain and causing further joint damage, and they might be unsure about which types and amounts of activity are safe. Qualitative research suggests that persons with arthritis might experience short-term increases in pain when they initiate an

FIGURE. Physical inactivity among adults aged ≥18 years,* by disease status — Behavioral Risk Factor Surveillance System, United States,† 2005 and 2007



- * Includes all respondents reporting no activity when asked six questions about frequency and duration of participation in nonoccupational activities of moderate and vigorous intensity (i.e., lifestyle activities). All other respondents were classified as active. Questions available at http://www. cdc.gov/brfss/questionnaires/pdf-ques/2005brfss.pdf and http://www.cdc. gov/brfss/questionnaires/pdf-ques/2007brfss.pdf.
- [†] Includes all 50 states and the District of Columbia.
- § 95% confidence interval.
- [¶] Doctor-diagnosed arthritis was defined as a "yes" response to the question, "Have you ever been told by a doctor or other health professional that you have some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia?"
- ** Heart disease was defined as a "yes" response to at least one of two questions: "Has a doctor, nurse, or other health professional ever told you that you had... a heart attack, also called a myocardial infarction?" or "...angina or coronary heart disease?"

TABLE 2. Prevalence of arthritis among adults aged ≥18 years with heart disease, and prevalence of physical inactivity* among adults with heart disease, with and without arthritis, by state/area --- Behavioral Risk Factor Surveillance System, United States,[†] 2005 and 2007

| | | | | | Physic | cal inactivity amo | ong adults w | ith heart disease |
|----------------------|-------------|--------------------------|--------------|------------------------|--------|--------------------|--------------|-------------------|
| | | Arthritis amond | ı adults wit | h heart disease | With | out arthritis | W | /ith arthritis |
| | No of | Weighted no | | | | | | |
| State/Area | respondents | (in 1,000s) [§] | % | (95% CI [¶]) | % | (95% CI) | % | (95% CI) |
| Alabama | 10,447 | 171 | 63.9 | (59.7-67.8) | 18.7 | (13.8–24.8) | 36.3 | (31.6-41.2) |
| Alaska | 5,365 | 12 | 63.0 | (54.5–70.8) | 20.2 | (11.8–32.3) | 23.4 | (13.9–36.7) |
| Arizona | 9,443 | 157 | 51.0 | (44.4-57.5) | 14.7 | (8.6-24.0) | 29.1 | (22.6-36.5) |
| Arkansas | 11,013 | 96 | 61.1 | (57.7-64.4) | 23.9 | (19.1-29.5) | 26.5 | (22.9-30.5) |
| California | 11,825 | 645 | 48.5 | (43.8–53.3) | 17.9 | (12.9–24.3) | 22.2 | (16.8–28.8) |
| Colorado | 17,887 | 79 | 54.6 | (50.8–58.3) | 17.7 | (13.6-22.7) | 20.5 | (16.9-24.6) |
| Connecticut | 12,777 | 79 | 53.9 | (49.8–58.0) | 17.5 | (13.4-22.7) | 22.9 | (18.9–27.4) |
| Delaware | 8,183 | 29 | 60.8 | (56.1-65.3) | 19.5 | (14.2-26.3) | 29.6 | (24.4-35.4) |
| District of Columbia | 7,700 | 12 | 61.5 | (55.5-67.2) | 16.3 | (10.9-23.5) | 31.2 | (23.5-40.1) |
| Florida | 47,739 | 591 | 55.5 | (52.4-58.5) | 24.7 | (20.8-29.1) | 29.1 | (25.8-32.6) |
| Georgia | 13,767 | 221 | 55.8 | (51.7-59.8) | 24.2 | (18.9-30.4) | 33.6 | (29.3-38.2) |
| Hawaii | 13,019 | 23 | 46.9 | (42.1–51.7) | 15.1 | (11.1-20.1) | 21.3 | (16.3-27.3) |
| Idaho | 11,049 | 38 | 55.7 | (50.5-60.8) | 16.6 | (12.0-22.6) | 24.8 | (20.7-29.5) |
| Illinois | 10,313 | 320 | 57.5 | (52.9-61.9) | 28.3 | (21.9-35.6) | 31.2 | (26.6-36.2) |
| Indiana | 11,626 | 211 | 61.9 | (57.4-66.2) | 17.3 | (12.8-22.8) | 25.6 | (21.8-29.9) |
| lowa | 10,479 | 83 | 58.5 | (54.5-62.4) | 20.1 | (15.6-25.4) | 27.1 | (22.8-31.8) |
| Kansas | 17,121 | 75 | 56.6 | (53.5–59.7) | 18.0 | (14.9-21.5) | 34.6 | (31.2–38.2) |
| Kentucky | 13,536 | 151 | 56.1 | (52.6–59.5) | 38.0 | (32.7-43.7) | 50.3 | (45.9–54.6) |
| Louisiana | 9,620 | 126 | 55.4 | (50.8–60.0) | 36.4 | (29.5–43.9) | 40.8 | (35.3–46.6) |
| Maine | 10,790 | 44 | 61.4 | (57.4–65.3) | 20.0 | (15.2–25.9) | 27.2 | (22.8–32.2) |
| Maryland | 17,461 | 138 | 59.4 | (55.4–63.3) | 17.6 | (13.5–22.7) | 26.2 | (22.3–30.5) |
| Massachusetts | 30,413 | 164 | 56.8 | (53.6–59.8) | 26.1 | (21.6–31.1) | 29.3 | (25.8–33.0) |
| Michigan | 19,641 | 359 | 65.9 | (63.2–68.5) | 19.1 | (15.5–23.2) | 28.3 | (25.3–31.6) |
| Minnesota | 7.603 | 105 | 52.3 | (47.5–57.1) | 20.5 | (15.5–26.6) | 20.8 | (16.3–26.3) |
| Mississippi | 12.257 | 109 | 68.6 | (65.2–71.9) | 31.0 | (25.2–37.4) | 35.2 | (31.2–39.4) |
| Missouri | 10.427 | 201 | 62.8 | (58.6–66.8) | 17.2 | (12.5–23.1) | 24.3 | (20.3–28.8) |
| Montana | 10.978 | 23 | 57.2 | (52.9–61.4) | 21.6 | (15.9–28.6) | 22.8 | (18.4–27.8) |
| Nebraska | 19,276 | 45 | 61.2 | (57.3–64.9) | 24.3 | (18.9–30.6) | 27.1 | (23.1–31.6) |
| Nevada | 7,286 | 60 | 53.0 | (46.7–59.2) | 20.0 | (12.8–29.8) | 23.4 | (17.0–31.2) |
| New Hampshire | 12,028 | 37 | 58.8 | (54.8–62.6) | 17.1 | (13.0–22.1) | 24.1 | (20.2–28.6) |
| New Jersey | 20,899 | 225 | 53.5 | (49.2–57.7) | 22.0 | (17.3–27.5) | 32.4 | (28.3–36.7) |
| New Mexico | 12,191 | 40 | 52.1 | (48.0–56.2) | 19.2 | (15.0-24.3) | 24.5 | (20.3–29.3) |
| New York | 14,321 | 477 | 55.5 | (51.4–59.4) | 21.2 | (16.6–26.7) | 26.4 | (22.5–30.8) |
| North Carolina | 32,038 | 264 | 58.9 | (56.4–61.3) | 22.4 | (19.1–26.1) | 30.7 | (28.1–33.4) |
| North Dakota | 8,761 | 17 | 56.2 | (51.8–60.4) | 21.3 | (16.1–27.7) | 23.6 | (18.9–29.0) |
| Ohio | 18,727 | 377 | 62.2 | (58.8–65.5) | 17.1 | (13.3–21.7) | 28.6 | (24.7–32.9) |
| Oklahoma | 21,170 | 136 | 62.6 | (59.5–65.5) | 21.8 | (18.0–26.2) | 35.4 | (31.8–39.1) |
| Oregon | 16,966 | 84 | 56.6 | (53.0–60.2) | 14.8 | (11.4–18.9) | 22.9 | (19.5–26.8) |
| Pennsylvania | 26,609 | 422 | 63.0 | (59.7–66.2) | 19.6 | (15.4–24.6) | 27.5 | (24.0–31.3) |
| Rhode Island | 8,475 | 30 | 60.5 | (55.9–64.8) | 19.5 | (14.2–26.1) | 32.6 | (27.2–38.4) |
| South Carolina | 18,835 | 131 | 62.9 | (59.9–65.9) | 18.4 | (14.6–22.9) | 28.2 | (24.8–31.8) |
| South Dakota | 13,786 | 23 | 60.3 | (56.9–63.5) | 20.4 | (16.6–25.0) | 31.5 | (27.9–35.5) |
| Tennessee | 9.781 | 217 | 61.1 | (55.7–66.2) | 28.1 | (20.9–36.7) | 46.7 | (41.5–52.0) |
| Texas | 23,760 | 555 | 51.7 | (48.2–55.1) | 20.2 | (16.1–25.0) | 32.2 | (28.3–36.3) |
| Utah | 10.216 | 38 | 54.6 | (49.4–59.7) | 13.5 | (8.2–21.5) | 24.8 | (19.3–31.3) |
| Vermont | 13.699 | 18 | 60.3 | (56.4–64.0) | 15.3 | (11.8–19.7) | 26.0 | (22.1–30.4) |
| Virginia | 11,696 | 198 | 55.6 | (50.7–60.4) | 15.5 | (11.0-21.3) | 27.4 | (22.9–32.4) |
| Washington | 49,183 | 144 | 57.4 | (55.2–59.6) | 14.9 | (12.6–17.6) | 21.8 | (19.7–24.2) |
| West Virginia | 7,998 | | 62.0 | (58.6-65.3) | 30.0 | (24.8–35.8) | 42.9 | (38.7–47.2) |
| Wisconsin | 12,335 | 140 | 61.0 | (56.3-65.6) | 16.1 | (10.9–23.2) | 24.3 | (19.9–29.3) |
| Wyoming | 11,169 | 12 | 57 1 | (53.0-61.2) | 22 7 | (16.8-29.9) | 23 7 | (19.5-28.5) |
| Median** | , | . – | 57.4 | | 19.5 | (| 27.2 | (1010 2010) |
| Puerto Rico | 7 702 | 121 | 48.6 | (44 6-52 6) | 46.9 | (40.8-53.0) | 56.3 | (51 1-61 /) |
| U.S. Virgin Islands | 4,960 | 1 | 35.3 | (27.4–44.1) | 15.6 | (8.4–27.2) | 33.7 | (20.9–49.3) |

* Physical activity level of respondents was determined from six questions that asked about frequency and duration of participation in nonoccupational activities of moderate and vigorous intensity; those reporting no participation in such activities were classified as inactive (engaged in no nonoccupational physical activity); all others were classified as active.

[†] Includes all 50 states, the District of Columbia, Puerto Rico, and the U.S. Virgin Islands.

§ Weighted annual average number of adults with heart disease who also have arthritis.

[¶] Confidence interval.

** Does not include Puerto Rico or the U.S. Virgin Islands.

exercise program, but that continued participation results in a long-term reduction in symptoms (5).

The findings in this report are subject to at least four limitations. First, arthritis, HD, and physical activity are self-reported and unconfirmed by a health-care provider or objective monitoring; however, such self-reports are considered valid for surveillance purposes (6). Second, BRFSS excludes persons without landline telephones, persons in the military, and those residing in institutions. Estimates are weighted to the population, thus partially correcting for this, but effects might be unpredictable. Third, state prevalence estimates were not adjusted for population characteristics (e.g., age); therefore, comparisons between states should be made with caution. Finally, BRFSS response rates were low; BRFSS weighting procedures partially correct for nonresponse, but the effect of low response rates is uncertain.

Specially tailored self-management education interventions, such as the Chronic Disease Self Management Program and the arthritis-specific Arthritis Foundation (AF) Self-Help Program, help adults learn to manage arthritis pain and discuss how to safely increase physical activity (7). Several exercise programs, including EnhanceFitness, the AF Exercise Program, and the AF Aquatics Program, are available in many communities and are appropriate for adults with HD and arthritis. Self-directed physical activities, including low-impact activities such as walking, swimming, and biking, also are appropriate for adults with both conditions.**

Greater integration of heart disease and arthritis intervention efforts by health-care providers, payers, and health departments might better address the effects of these co-occurring conditions. Increasing physical activity (e.g., through aerobic exercise and strength training) can benefit persons with arthritis, HD, or both conditions (8,9) by improving physical function and lowering blood pressure and low-density lipoprotein cholesterol levels. Health-care providers should consider whether arthritisrelated barriers contribute to physical inactivity in their HD patients and should help those patients learn how to overcome arthritis-specific barriers by providing appropriate advice and referrals. HD patients with arthritis should be encouraged to reduce sedentary behavior; appropriate physical activity might include moderate-intensity aerobics and muscle-strengthening exercises (10).

References

1. Pearson TA, Blair SN, Daniels SR, et al. AHA guidelines for primary prevention of cardiovascular disease and stroke: 2002 update. Consensus panel guide to comprehensive risk reduction for adult patients without coronary or other atherosclerotic vascular diseases. Circulation 2002;106:388–91.

- Zhao G, Ford ES, Li C, Mokdad A. Are United States adults with coronary heart disease meeting physical activity recommendations? Am J Cardiol 2008;101:557–61.
- CDC. Summary health statistics for U.S. adults: National Health Interview Survey, 2006. Vital Health Stat 2007;10(235). Available at http://www.cdc.gov/nchs/data/series/sr_10/sr10_235.pdf.
- 4. Verbrugge LM, Juarez L. Arthritis disability and heart disease disability. Arthritis Rheum 2008;59:1445–57.
- 5. Wilcox S, Der Ananian C, Abbott J, et al. Perceived exercise barriers, enablers, and benefits among exercising and non exercising adults with arthritis: results from a qualitative study. Arthritis Rheum 2006;55:616–27.
- Nelson DE, Holtzman D, Bolen J, Stanwyck CA, Mack KA. Reliability and validity of measures from the Behavioral Risk Factor Surveillance System (BRFSS). Soz Praventivmed 2001;46(Suppl 1):S3–42.
- CDC. Arthritis intervention programs. Available at http://www.cdc.gov/ arthritis/intervention/index.htm.
- Smith SC Jr, Allen J, Blair SN, et al. AHA/ACC guidelines for secondary prevention for patients with coronary and other atherosclerotic vascular disease: 2006 update. Circulation 2006;113:2363–72.
- US Department of Health and Human Services. 2008 physical activity guidelines for Americans. Hyattsville, MD: US Department of Health and Human Services; 2008. Available at http://www.health.gov/ paguidelines.
- Nelson ME, Rejeski WJ, Blair SN, et al. Physical activity and public health in older adults: recommendation from the American College of Sports Medicine and the American Heart Association. Circulation 2007;116:1094–105.

Completeness and Timeliness of Reporting of Meningococcal Disease – Maine, 2001–2006

Neisseria meningitidis is an important cause of invasive bacterial disease in the United States (1), with a total of 1,077 cases of meningococcal disease reported in 2007 (2). The case-fatality ratio is 10%-14%, and 11%-19% of survivors have long-term sequelae (1). In the United States, approximately 98% of cases of meningococcal disease occur sporadically; outbreaks are uncommon (1). Chemoprophylaxis is the primary means of preventing meningococcal disease among close contacts of patients in sporadic cases (1), and the ability of health departments to identify these contacts and provide treatment depends on the completeness and timeliness of disease reporting. To assess these attributes in meningococcal disease surveillance in Maine, the Maine Department of Health and Human Services (MDHHS) analyzed public health surveillance data from MDHHS and hospital discharge data from the Maine Health Data Organization (MHDO) for the period 2001–2006. This report describes the results of that analysis, which indicated that the completeness of reporting of meningococcal disease in Maine during this period was approximately 98%. Of cases reported to MDHHS, 56% were reported within 1 day of hospital admission. Passive disease surveillance efforts appear

^{**} Additional information available at http://www.cdc.gov/arthritis/campaigns/ physical_activity/index.htm.

to have achieved near complete reporting of meningococcal disease in Maine; however, timeliness of reporting was sometimes suboptimal. Evaluation of surveillance efforts should be repeated periodically to determine whether completeness of reporting remains high and timeliness improves.

Maine law requires that all health-care providers, laboratories, and health-care facilities report meningococcal disease (upon recognition or strong suspicion) immediately by telephone to MDHHS. Reports are assigned to epidemiologists for investigation. Reports meeting the Council of State and Territorial Epidemiologists (CSTE) and CDC case definition for meningococcal disease* are entered in the National Electronic Disease Surveillance System.[†] Beginning in 2006, the CSTE-CDC case definition was revised to include suspected cases of meningococcal disease; in previous years, the case definition only included categories for confirmed and probable cases.

MHDO maintains the state's hospital discharge dataset, which includes inpatient and outpatient visits for all nonfederal, acute-care hospitals in the state. *International Classification* of Diseases, 9th Revision (ICD-9) codes 036.0–036.9 (for meningococcal disease) were used to identify patients with meningococcal disease. The dataset did not contain patient names, so MHDO data were matched with MDHHS data for the period 2001–2006 using date of birth, admission date, and hospital. Persons who were in both datasets were considered to have verified cases of meningococcal disease. Hospital records were reviewed for patients who were in the MHDO dataset but who had not been reported to MDHHS.

The utility of various ICD-9 codes and clinical settings for identifying cases of meningococcal disease from the MHDO dataset was examined by calculating sensitivity and positive predictive value (PPV) (Table 1). The completeness of meningococcal disease reporting was estimated by the Sekar-Deming capture-recapture method (3)[§] (Table 2). The capture-recapture method provides an estimate of the actual total number of cases (reported or unreported) and the completeness of disease reporting using data from two independent surveillance systems (3). This technique requires being able to identify cases found in both surveillance systems, cases found only by the first surveillance system, and cases found only by the second surveillance system (*3*). Cases that could not have been reported to both MDHHS and MHDO were excluded from the capture-recapture analysis. These cases included out-of-state residents hospitalized in Maine who would not have been included in MDHHS records and Maine residents hospitalized out of state or at a Veterans Health Administration (VHA) facility in the state who would not have been included in the MHDO dataset. Timeliness of reporting was assessed by determining the difference in days between hospital admission and notification to MDHHS.

A total of 52 cases of meningococcal disease were reported to MDHHS during 2001-2006. These cases included two that occurred in Maine residents hospitalized out-of-state and one in a person hospitalized at a VHA facility in Maine. A total of 107 patients were identified in the MHDO dataset. A total of 42 patients were in both the MHDO and MDHHS datasets and were considered to have verified cases of meningococcal disease. Hospital records were reviewed for the 65 patients who were in the MHDO dataset but not in the MDHHS dataset. Nine (14%) of these patients were determined to have had meningococcal disease using the CSTE-CDC case definition; these included eight cases in out-of-state residents hospitalized in Maine. The remaining 56 patients in the MHDO dataset did not meet the CSTE-CDC case definition. Of these 56, 19 (34%) had meningeal signs but neither clinical purpura fulminans nor laboratory evidence of N. meningitides; 15 (27%) were coded incorrectly (e.g., with diagnoses other than meningococcal disease); 13 (23%) had noninvasive infections (e.g., a positive sputum culture for *N. meningitides*); and nine (16%) had medical records that were missing or incomplete.

In the analysis of the utility of various ICD-9 codes for identifying cases of meningococcal disease using MHDO data, sensitivity (92%) and PPV (53%) were highest when a combination of code 036.0 (meningococcal meningitis) or 036.2 (meningococcemia) was used (Table 1). Other ICD-9 codes for meningococcal disease (036.1 and 036.3-036.9) had poor sensitivity and PPV. Inpatient data were more sensitive and had higher PPV than outpatient data. The completeness of reporting for meningococcal disease to MDHHS was estimated at 97.6% (95% confidence interval = 95.9%–99.3%) (Table 2), based on MDHHS receiving reports on 49.0 of 50.2 total cases. Information was sufficient to assess timeliness of reporting for 43 (83%) of 52 cases reported to MDHHS. Reports were received in a median of 1 day (range: 0–11 days); 35% of cases were reported to MDHHS on the day of hospital admission, 56% were reported within 1 day, and 79% were reported within 2 days. No secondary cases of meningococcal disease among close contacts of patients with meningococcal disease were reported in Maine during the study period.

^{*} Case definition available at http://www.cdc.gov/ncphi/disss/nndss/casedef/ case_definitions.htm.

[†]Additional information available at http://www.cdc.gov/nedss.

[§] Completeness of reporting was calculated as R / N, and the 95% confidence interval was calculated as R / N ± 1.96 Var (N)^{1/2} where Var (N) = (R x S x N₁ x N₂) / C³. R = number of cases identified in MDHHS dataset, N = estimated total number of cases of meningococcal disease in Maine during 2001–2006 calculated as C + N₁ + N₂ + X where X = (N₁ x N₂) / C, S = number of cases identified in MHDO dataset, N₁ = number of cases identified only in MDHHS dataset, N₂ = number of cases identified only in MHDO data, and C = number of cases identified in both MDHHS and MHDO datasets.

TABLE 1. Sensitivity and positive predictive value of hospital discharge data to identify meningococcal disease, by diagnostic code and clinical setting — Maine, 2001–2006

| | | | • | Positive |
|----------------------------------|--------|----------|---------------------------------|--------------------------------------|
| | Cases* | Noncases | Sensitivity (%) [†] | predictive value (%) [§] |
| ICD-9 ¹ code | | | | |
| 036.0 (meningococcal meningitis) | 19 | 31 | 37 | 38 |
| 036.2 (meningococcemia) | 28 | 11 | 55 | 72 |
| 036.0 or 036.2 | 47 | 42 | 92 | 53 |
| 036.1 or 036.3–036.9 | 4 | 14 | 8 | 22 |
| Clinical setting | | | | |
| Inpatient | 49 | 20 | 96 | 71 |
| Outpatient | 2 | 36 | 4 | 5 |
| Total | 51 | 56 | 100 | 48 |

* Meeting the Council of State and Territorial Epidemiologists and CDC case definition for meningococcal disease, available at http://www.cdc.gov/ncphi/disss/nndss/casedef/case_definitions.htm. Cases included persons with meningococcal disease in both Maine Health Data Organization (MHDO) and Maine Department of Health and Human Services datasets (n = 42) and those reported only to MHDO (n = 9). Eight persons who were reported only to MHDO were out-of-state residents hospitalized in Maine.

⁺Calculated as follows: [(cases) / 51] x 100%.

§ Calculated as follows: [(cases) / (cases + noncases)] x 100%.

[¶] International Classification of Diseases, 9th Revision.

TABLE 2. Estimated completeness* of reporting for meningococcal disease — Maine, 2001–2006

| | | Maine Department of Health and Human Services (MDHHS) | | | | | | | | |
|--------------|-----------------------------|--|-----------------------|-----------|--|--|--|--|--|--|
| | | Cases [†] reported | Cases not reported | All cases | | | | | | |
| | Casas [§] reported | (C) | (N ₂) | (S) | | | | | | |
| Maine Health | Cases ³ reported | 42 | 1 | 43 | | | | | | |
| Data | Cases not | (N ₁) | (X) | | | | | | | |
| Organization | reported | 7 | 0.2¶ | 7.2 | | | | | | |
| | All 00000 | (R) | | (N) | | | | | | |
| | All cases | 49 | 1.2 | 50.2** | | | | | | |

* Calculated by using the Sekar-Deming capture-recapture method (3). Calculated estimates are in *italics*. Completeness of reporting was calculated as R / N, and the 95% confidence interval was calculated as R / N \pm 1.96 Var (N)^{1/2} where Var (N) = (R x S x N₁ x N₂) / C³. R = number of cases identified in MDHHS dataset, N = estimated total number of cases of meningococcal disease in Maine during 2001–2006, S = number of cases identified in MHDO dataset, N₁ = number of cases identified only in MDHHS dataset, N₂ = number of cases identified only in MDHD dataset, and C = number of cases identified in both MDHHS and MHDO datasets.

[†] Meeting the Council of State and Territorial Epidemiologists and CDC case definition for meningococcal disease, available at http://www.cdc.gov/ncphi/disss/nndss/casedef/case_definitions.htm. Cases excluded were those in Maine residents hospitalized out of state (n = 2) and in patients hospitalized at Veterans Health Administration facilities in Maine (n = 1).

§ Meeting the Council of State and Territorial Epidemiologists and CDC case definition for meningococcal disease. Cases excluded were in out-of-state residents who were hospitalized in Maine (n = 8).

¹ Estimated number of cases not reported to either MDHHS or MHDO. Calculated as follows:

 $X = (N_1 \times N_2) / C.$ ** Estimated number if all cases were reported. Calculated as follows: $N = C + N_1 + N_2 + X.$

Reported by: V Rea, MPH, Maine Dept of Health and Human Svcs and Univ of Southern Maine. A Pelletier, MD, Coordinating Office for Terrorism Preparedness and Emergency Response, CDC.

Editorial Note: Because of the severity of meningococcal disease symptoms, nearly all patients are treated in a hospital or emergency department setting. This results in a dataset (i.e., hospital discharge data) that can be compared with

public health surveillance records to estimate the completeness of reporting to health departments using the capture-recapture technique (3). Most other nationally notifiable conditions either 1) do not result in routine hospitalization (e.g., salmonellosis) or 2) do not occur frequently enough at the state level (e.g., botulism) to allow use of the capture-recapture technique. Therefore, meningococcal disease provides an uncommon opportunity to assess completeness of reporting using hospital discharge data.

Six other studies using the capturerecapture technique to compare health department data with hospital discharge data have described the completeness of meningococcal disease reporting. The results have ranged from 64% to 95%, with a median value of 94% (4–9). The only published study from the United States was conducted in New York State in 1991 and reported 93% completeness (4). Completeness of reporting for meningococcal disease likely is considerably higher than for most other notifiable conditions because of the severity of the illness and the availability of a widely accepted public health intervention.

Although most cases of meningococcal disease were reported to MDHHS in a timely manner, 44% were reported more than 1 day after hospital admission. In the 1991 New York study, 34% of cases were reported more than 1 day after diagnosis (4). Timeliness of reporting is important for this disease because chemoprophylaxis of close contacts of an index patient is most effective when administered as soon as possible; ideally, chemoprophylaxis should be started within 24 hours after

identification of the index case, but not later than 14 days after illness onset (1).

During the attempt to identify cases of meningococcal disease in the MHDO dataset, certain diagnostic codes (i.e., 036.1 and 036.3–036.9) and outpatient data had poor sensitivity and PPV. Because each potential case required medical record

review for confirmation, considerable effort was required to identify a small number of actual cases. For example, of 38 reports of meningococcal disease among outpatients in the hospital discharge dataset, only two (5%) cases were verified after reviewing medical records.

The findings in this report are subject to at least two limitations. First, the two data systems used in this analysis might not have been completely independent because information from hospitals was included in both MHDO and MDHHS datasets. This type of dependence between data sources might result in an overestimate of the completeness of reporting (10). Second, some of the 19 patients in the MHDO dataset with meningeal signs, but neither clinical purpura fulminans nor laboratory evidence of *N. meningitides*, might have met the definition for a suspected case if such a category had existed before 2006. This might have affected the estimate for the completeness of reporting.

Passive disease surveillance efforts appear to have been adequate for achieving near complete reporting of meningococcal disease in Maine; however, timeliness of reporting was sometimes suboptimal. Evaluation of this surveillance system should be repeated periodically to determine whether completeness of reporting remains high and timeliness improves. Other attributes of surveillance systems (e.g., simplicity, representativeness, and acceptability) also should be assessed in future evaluations. In Maine, a delay of approximately 18 months after the end of a calendar year occurs before hospital discharge data for that year become available. This delay limits usage of the data for public health surveillance. When hospital discharge data become available on a real-time basis in Maine, MDHHS will need to determine how best to use this information, given the apparent limitations of ICD-9 codes in the MHDO dataset for identifying cases of meningococcal disease.

Acknowledgments

The findings in this report are based, in part, on contributions by E Bartlett, Houlton Regional Hospital; T Beaulier-Fuller, Aroostook Medical Center; C Bouley, Mercy Hospital; S Dirrigl, Southern Maine Medical Center; D Dunton, H Elliot, D Fenn, and D McKenney, Eastern Maine Medical Center; P Hadley, Franklin Memorial Hospital; E King, Maine General Hospital; B MacPike, Maine Coast Memorial Hospital; D Peabody, St. Joseph Healthcare; C Reeder, York Hospital; P Rybak, Mercy Hospital; D Skalina, Central Maine Medical Center; S Whiting, Reddington-Fairview Hospital; P Carson, D Guppy, L LaRochelle, L Parker, and A Robbins, Maine Dept of Health and Human Svcs; and D Baughman and A Cohn, Div of Bacterial Diseases, National Center for Immunization and Respiratory Diseases, CDC.

References

- CDC. Prevention and control of meningococcal disease: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 2005;54(No. RR-7).
- 2. CDC. Summary of notifiable diseases, United States, 2007. MMWR 2007;56(53) (in press).
- 3. Sekar CC, Deming WE. On a method of estimating birth and death rates and extent of registration. J Amer Stat Assoc 1949;44:101–15.
- Ackman DM, Birkhead G, Flynn M. Assessment of surveillance for meningococcal disease in New York State, 1991. Am J Epidemiol 1996;144:78–82.
- Rivest P, Sagot B, Bedard L. Evaluation of the completeness of reporting of invasive meningococcal disease. Can J Public Health 1999;90:250–2.
- 6. Robinson P. Meningococcal disease and the law: does non-notification really happen? Commun Dis Intell 1999;23:97–101.
- 7. Breen E, Ghebrehewet S, Regan M, Thomson AP. How complete and accurate is meningococcal disease notification? Commun Dis Public Health 2004;7:334–8.
- de Greeff SC, Spanjaard L, Dankert J, Hoebe CJ, Nagelkerke N, de Melker HE. Underreporting of meningococcal disease incidence in the Netherlands: results from a capture-recapture analysis based on three registration sources with correction for false positive diagnoses. Eur J Epidemiol 2006;21:315–21.
- Berghold C, Berghold A, Fülöp G, Heuberger S, Strauss R, Zenz W. Invasive meningococcal disease in Austria 2002: assessment of completeness of notification by comparison of two independent data sources. Wien Klin Wochenschr 2006;118:31–5.
- 10. Brenner H. Use and limitations of the capture-recapture method in disease monitoring with two dependent sources. Epidemiology 1995;6:42–8.

Notice to Readers

Public Health Law 101

CDC's Public Health Law Program has developed "Public Health Law 101," a new foundational course on public health law, as a learning resource for public health practitioners, students, and others. The course comprises nine slide lecture units for delivery to health departments by legal counsel and other persons trained in law. The slide units can be downloaded free of charge from the Public Health Law Program's website at http://www2a.cdc.gov/phlp/phl101.

Erratum: Vol. 58, No. RR-1

In the *MMWR Recommendations and Reports* "Guidelines for Field Triage of Injured Patients: Recommendations of the National Expert Panel on Field Triage," an error occurred on page CE-4. The correct answer to question 6 is "**D**."



TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending February 21, 2009 (7th week)*

| | Current | Cum | 5-year | | Total c for pr | ases re evious | eported years | | States reporting cases |
|---|---------|------|----------------------|------|-------------------|-------------------|------------------|------|--|
| Disease | week | 2009 | average [†] | 2008 | 2007 | 2006 | 2005 | 2004 | during current week (No.) |
| Anthrax | _ | _ | 0 | _ | 1 | 1 | _ | _ | |
| Botulism: | | | | | | | | | |
| foodborne | | 3 | | 14 | 32 | 20 | 19 | 16 | |
| infant | 1 | 4 | 2 | 100 | 85 | 97 | 85 | 87 | FL (1) |
| other (wound and unspecified) | 1 | 3 | 0 | 22 | 121 | 48 | 31 | 30 | CA(1) |
| Chancroid | _ | 3 | 2 | 29 | 23 | 121 | 120 | 30 | CA (1) |
| Cholera | _ | - | 0 | 23 | 23 | 9 | 8 | 6 | |
| Cvclosporiasis§ | _ | 13 | 2 | 132 | 93 | 137 | 543 | 160 | |
| Diphtheria | _ | _ | _ | _ | _ | _ | _ | _ | |
| Domestic arboviral diseases ^{§,¶} | | | | | | | | | |
| California serogroup | — | — | — | 41 | 55 | 67 | 80 | 112 | |
| eastern equine | — | _ | _ | 3 | 4 | 8 | 21 | 6 | |
| Powassan | _ | _ | _ | 1 | / | 1 | 1 | 1 | |
| St. Louis | _ | _ | _ | 10 | 9 | 10 | 13 | 12 | |
| Fhrlichiosis/Anaplasmosis [§] .*** | _ | _ | _ | _ | _ | _ | _ | _ | |
| Ehrlichia chaffeensis | 2 | 13 | 2 | 906 | 828 | 578 | 506 | 338 | MN (1), GA (1) |
| Ehrlichia ewingii | _ | _ | _ | 9 | _ | _ | _ | _ | |
| Anaplasma phagocytophilum | _ | 2 | 1 | 586 | 834 | 646 | 786 | 537 | |
| undetermined | — | _ | 0 | 72 | 337 | 231 | 112 | 59 | |
| Haemophilus influenzae, ^{††} | | | | | | | | | |
| invasive disease (age <5 yrs): | | 0 | 0 | 00 | 00 | 00 | 0 | 10 | |
| serotype b | _ | 2 | 0 | 102 | 100 | 175 | 125 | 19 | |
| unknown serotyne | 2 | 23 | 4 | 187 | 180 | 175 | 217 | 177 | MO(1) AZ(1) |
| Hansen disease§ | 1 | | 1 | 73 | 101 | 66 | 87 | 105 | CA(1) |
| Hantavirus pulmonary syndrome§ | _ | _ | Ō | 16 | 32 | 40 | 26 | 24 | 0,7(1) |
| Hemolytic uremic syndrome, postdiarrheal§ | 1 | 7 | 2 | 262 | 292 | 288 | 221 | 200 | OH (1) |
| Hepatitis C viral, acute | 7 | 75 | 16 | 860 | 845 | 766 | 652 | 720 | NY (1), OH (3), NC (1), KY (1), OR (1) |
| HIV infection, pediatric (age <13 years)§§ | — | _ | 4 | _ | _ | _ | 380 | 436 | |
| Influenza-associated pediatric mortality [§] , ^{¶¶} | 8 | 18 | 3 | 88 | 77 | 43 | 45 | | AZ (1), CO (2), MA (1), TX (4) |
| | 1 | 55 | 8 | 705 | 808 | 884 | 896 | /53 | MI (1), CA (6) |
| Meningococcal disease invasive ^{ttt} : | _ | 2 | I | 135 | 43 | 55 | 00 | 37 | |
| A C Y and W-135 | 5 | 20 | 8 | 318 | 325 | 318 | 297 | _ | FL (3) ID (1) CO (1) |
| serogroup B | 2 | 8 | 4 | 171 | 167 | 193 | 156 | _ | OH (2) |
| other serogroup | _ | 2 | 1 | 30 | 35 | 32 | 27 | _ | |
| unknown serogroup | 5 | 48 | 18 | 597 | 550 | 651 | 765 | _ | PA (1), OH (1), FL (1), CA (2) |
| Mumps | 2 | 31 | 15 | 408 | 800 | 6,584 | 314 | 258 | KS (1), NC (1) |
| Novel influenza A virus infections | _ | — | _ | 2 | 4 | N | N | N | |
| Plague | _ | _ | 0 | 1 | 1 | 17 | 8 | 3 | |
| Polio virus infection, nonparalytic | _ | _ | _ | _ | _ | N | N | N | |
| Psittacosis [§] | _ | 1 | 0 | 10 | 12 | 21 | 16 | 12 | |
| Q fever total [§] , ^{§§§} : | _ | 4 | 2 | 103 | 171 | 169 | 136 | 70 | |
| acute | _ | 3 | 1 | 91 | _ | _ | _ | _ | |
| chronic | — | 1 | _ | 12 | _ | _ | _ | _ | |
| Rabies, human | — | | _ | 1 | 1 | 3 | 2 | 7 | |
| | _ | 1 | 0 | 16 | 12 | 11 | 11 | 10 | |
| Rubella, congenital syndrome | _ | 1 | 0 | _ | _ | I | 1 | _ | |
| Smallnov§ | | _ | _ | _ | _ | _ | _ | _ | |
| Streptococcal toxic-shock syndrome§ | _ | 4 | 3 | 137 | 132 | 125 | 129 | 132 | |
| Syphilis, congenital (age <1 yr) | _ | _ | 5 | _ | 430 | 349 | 329 | 353 | |
| Tetanus | _ | 1 | 0 | 16 | 28 | 41 | 27 | 34 | |
| Toxic-shock syndrome (staphylococcal)§ | _ | 6 | 2 | 69 | 92 | 101 | 90 | 95 | |
| Trichinellosis | 2 | 6 | 0 | 37 | 5 | 15 | 16 | 5 | CA (2) |
| I ularemia | _ | 3 | 0 | 111 | 137 | 95 | 154 | 134 | |
| I yphoid fever | 6 | 39 | 6 | 420 | 434 | 353 | 324 | 322 | PA (1), MN (1), FL (1), CA (3) |
| Vancomycin-internieulate Staphylococcus aurous [§] | _ | 3 | 0 | 44 | 3/ | 0 | 2 | 1 | |
| Vibriosis (noncholera <i>Vibrio</i> species infections)§ | _ | 15 | 1 | 467 | 549 | N | N | Ň | |
| Yellow fever | _ | | _ | | | _ | _ | _ | |

See Table I footnotes on next page.

TABLE I. (Continued) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending February 21, 2009 (7th week)*

- -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts.
- * Incidence data for reporting year 2008 and 2009 are provisional, whereas data for 2004, 2005, 2006, and 2007 are finalized.
- [†] Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf.
- S Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
- ¹ Includes both neuroinvasive and nonneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
- ** The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to *E. chaffeensis*); Ehrlichiosis, human granulocytic (analogous to *Anaplasma phagocytophilum*), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of *E. ewingii*).
- ^{††} Data for *H. influenzae* (all ages, all serotypes) are available in Table II.
- ^{§§} Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
- ¹¹ Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Seventeen influenza-associated pediatric deaths occurring during the 2008-09 influenza season have been reported.
- *** No measles cases were reported for the current week.
- ⁺⁺⁺ Data for meningococcal disease (all serogroups) are available in Table II.
- §§§ In 2008, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
- 111 The one rubella case reported for the current week was unknown.
- **** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals February 21, 2009, with historical data



* Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

Notifiable Disease Data Team and 122 Cities Mortality Data TeamPatsy A. HallDeborah A. AdamsRosaline DharaWillie J. AndersonMichael S. WodajoLenee BlantonPearl C. Sharp

| | | | Chlamydi | ia† | | | Cocc | idiodomy | cosis | | Cryptosporidiosis | | | | |
|---|---|--|--|---|---|---|---|--|---|-------------------------------------|------------------------------|---------------------------------------|--|---|---|
| | | Prev | ious | | | | Prev | vious | | | | Prev | ious | | |
| Reporting area | Current week | Med | Max | Cum 2009 | Cum 2008 | Current week | 52 w | Max | Cum 2009 | Cum 2008 | Current week | Med | Мах | Cum 2009 | Cum 2008 |
| United States | 11,765 | 21,415 | 41,535 | 124,471 | 142,347 | 108 | 124 | 343 | 928 | 961 | 38 | 106 | 459 | 358 | 458 |
| New England Connecticut Maine [§] Massachusetts New Hampshire Rhode Island [§] Vermont§ | 323 41 216 3 46 17 | 709 221 51 327 40 54 19 | 1,635 1,282 72 1,017 63 208 53 | 4,871 971 380 2,877 130 367 146 | 4,137 625 344 2,438 311 400 19 | N N N N | 0 0 0 0 0 0 | | N N N | 1 N N 1 N | | 4 0 1 0 1 0 | 20 3 6 9 4 3 7 | 9 3 2 | 63 38 12 4 9 |
| Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania | 2,498 202 528 1,278 490 | 2,755 430 555 1,099 779 | 5,387 635 3,163 3,410 1,074 | 18,475 1,710 3,225 8,623 4,917 | 16,735 3,027 2,322 5,480 5,906 | N N N N | 0 0 0 0 | 0 0 0 0 | | N N N N | | 13 0 4 1 5 | 34 2 17 6 15 | 42 — 18 8 16 | 55 4 16 27 |
| E.N. Central Illinois Indiana Michigan Ohio Wisconsin | 1,131 95 241 604 30 161 | 3,056 638 379 843 804 293 | 24,584 22,152 713 1,226 1,346 488 | 15,947 4,236 2,480 5,990 1,788 1,453 | 22,849 4,531 2,806 5,956 6,410 3,146 | 2 N N 2 N | 1 0 0 0 0 | 3 0 3 2 0 | 3 N - 3 N | 5 N 4 1 N | 9 6 1 | 25 2 3 5 6 9 | 125 13 13 13 59 46 | 74 3 5 19 36 11 | 101 13 9 24 27 28 |
| W.N. Central lowa Kansas Minnesota Missouri Nebraska [§] North Dakota South Dakota | 893 413 | 1,278 175 181 271 489 81 30 56 | 1,541 239 362 311 566 244 58 85 | 7,952 910 1,522 1,215 3,318 507 53 427 | 8,929 1,206 1,160 2,105 3,203 601 283 371 | N N N N N N | 0 0 0 0 0 0 0 | 2 0 0 2 0 0 0 | N N N N N N | N N N N N N | 8 - 3 2 3 - | 16 4 1 4 3 1 0 1 | 68 30 15 13 8 2 9 | 40 5 3 11 10 7 - 4 | 55 17 5 11 5 11 1 5 |
| S. Atlantic Delaware District of Columbia Florida Georgia Maryland [§] North Carolina South Carolina [§] Virginia [§] West Virginia | 1,741 74 1,264 6 — 369 28 | 3,732 70 127 1,370 581 430 0 475 618 61 | 6,326 151 201 1,571 1,308 693 460 3,040 1,059 102 | 20,836 668 858 9,538 1,610 1,446 | 25,894 459 910 8,548 4,014 2,703 2,235 3,701 2,854 470 | Z Z Z Z Z | | 1 0 0 1 0 0 0 | 3 | N N N N N N | 15 | 19 0 8 5 1 0 1 1 | 47 1 2 35 13 4 16 4 4 3 | 118 — 39 52 3 20 2 1 | 81 3 39 19 7 5 3 4 |
| E.S. Central Alabama [§] Kentucky Mississippi Tennessee [§] | 620 255 339 26 | 1,581 428 240 419 538 | 2,022 531 373 770 790 | 9,891 1,428 1,742 3,257 3,464 | 10,630 3,433 1,559 2,153 3,485 | N N N N N | 0 0 0 0 0 | 0 0 0 0 0 | | N N N N | 1 1 | 3 1 0 1 | 9 6 4 2 6 | 11 3 3 3 2 | 15 8 3 1 3 |
| W.S. Central Arkansas [§] Louisiana Oklahoma Texas [§] | 1,959 303 — 159 1,497 | 2,821 274 418 197 1,910 | 3,503 455 775 392 2,469 | 18,032 2,141 1,843 683 13,365 | 18,765 1,891 2,017 1,506 13,351 | N N N | 0 0 0 0 | 1 0 1 0 0 | N N N | N N N | 2 1 1 | 7 0 1 1 3 | 164 7 5 16 149 | 4 1 3 | 18 1 4 6 7 |
| Mountain Arizona Colorado Idaho [§] Montana [§] Nevada [§] New Mexico [§] Utah Wyoming [§] | 715 322 — 20 288 — 85 | 1,256 467 196 58 56 175 124 104 33 | 1,950 650 588 314 87 415 455 253 58 | 5,294 2,285 756 34 1,238 194 155 313 | 9,693 3,001 2,530 510 427 1,439 861 831 94 | 84 84 N N | 88 86 0 0 0 0 0 0 0 | 181 179 0 0 6 3 1 1 | 677 667 N N 7 1 2 | 607 585 N N 9 6 7 | | 8 1 1 1 0 2 0 0 | 37 9 12 5 3 1 23 6 4 | 21 3 5 2 2 2 5 | 31 8 5 8 4 3 3 |
| Pacific Alaska California Hawaii Oregon [§] Washington | 1,885 | 3,700 85 2,876 102 185 400 | 4,419 184 3,264 161 631 527 | 23,173 516 18,515 590 1,332 2,220 | 24,715 527 18,887 745 1,444 3,112 | 22 N 22 N N N | 35 0 35 0 0 0 | 172 0 172 0 0 0 | 245 N 245 N N N | 348 N 348 N N N | 3 3 — — | 8 0 5 0 1 | 29 1 14 1 4 16 | 39 1 25 | 39 7 3 |
| American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands | 162 | 0 4 119 12 | 14 | 1,054 | 29 — 12 584 77 | N N | 0 0 0 0 | 0 0 0 0 | N N | N N | N - | 0 0 0 0 | 0 0 0 0 | N N | N N |

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly. † Chlamydia refers to genital infections caused by *Chlamydia trachomatis*.

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| | | Giardiasi | s | | | | Gonorrhe | а | Haemophilus influenzae, invasive All ages, all serotypes [†] | | | | | | |
|-------------------------------------|---------|--------------|----------------|-----------|-----------|-----------|-------------|----------------|--|----------------|---------|--------------|--------------|----------|----------|
| | Current | Prev 52 w | vious veeks | C | C | Current | Pre 52 v | vious weeks | C | C | Current | Prev 52 w | ious eeks | C | C |
| Reporting area | week | Med | Max | 2009 | 2008 | week | Med | Max | 2009 | 2008 | week | Med | Max | 2009 | 2008 |
| United States | 115 | 307 | 600 | 1,464 | 1,761 | 2,645 | 5,748 | 14,992 | 30,252 | 40,801 | 24 | 47 | 87 | 301 | 459 |
| New England | 5 | 23 | 49 14 | 79 22 | 168 38 | 27 | 101 51 | 299 272 | 614 205 | 549 126 | _ | 2 | 8 7 | 12 | 28 |
| Maine [§] | 1 | 3 | 12 | 26 | 12 | 1 | 2 | 6 | 13 | 9 | — | 0 | 2 | 2 | 2 |
| Massachusetts New Hampshire | _ | 6 3 | 17 11 | 8 | 68 16 | 20 2 | 38 2 | 123 6 | 339 12 | 354 9 | _ | 0 | 4 | 3 | 22 1 |
| Rhode Island§ | 2 | 1 | 8 | 8 | 14 | 3 | 5 | 13 | 39 | 50 | — | Ö | 7 | 1 | |
| Vermont ^s | 2 | 3 60 | 15 108 | 15 240 | 20 | 1 | 1 611 | 3 | 6 3 730 | 3 762 | 6 | 0 10 | 3 18 | 1 57 | 3 |
| New Jersey | | 4 | 14 | | 66 | 41 | 96 | 167 | 319 | 801 | _ | 1 | 5 | | 21 |
| New York (Upstate) New York City | 19 1 | 21 16 | 67 30 | 112 67 | 87 92 | 85 261 | 116 203 | 480 633 | 646 1 625 | 615 825 | 3 | 3 1 | 14 6 | 23 | 17 12 |
| Pennsylvania | 6 | 16 | 46 | 70 | 89 | 106 | 209 | 268 | 1,149 | 1,521 | 3 | 4 | 10 | 32 | 30 |
| E.N. Central | 4 | 47 | 88 | 182 | 300 | 377 | 1,034 | 10,422 | 5,340 | 8,660 | 2 | 7 | 18 | 40 | 79 |
| Indiana | N | 0 | 7 | N N | N | 91 | 147 | 254 | 926 | 1,237 | 1 | 1 | 13 | 9 | 9 |
| Michigan Ohio | 4 | 12 17 | 22 31 | 52 88 | 56 109 | 194 11 | 306 271 | 657 531 | 2,048 516 | 2,471 2,583 | 1 | 0 | 2 | 2 18 | 4 27 |
| Wisconsin | _ | 8 | 20 | 18 | 55 | 54 | 76 | 141 | 465 | 932 | _ | ō | 2 | 3 | 8 |
| W.N. Central | 10 | 29 | 143 | 138 | 132 | 170 | 315 | 392 | 1,856 | 2,346 | 2 | 3 | 12 | 22 | 37 |
| Kansas | 3 | 3 | 11 | 19 | 15 | 72 | 41 | 83 | 370 | 295 | _ | 0 | 3 | 2 | 1 |
| Minnesota Missouri | 1 | 0 | 106 22 | 1 61 | 12 40 | 83 | 55 148 | 78 193 | 214 939 | 519 1 071 | 1 | 0 | 10 4 | 4 10 | 9 19 |
| Nebraska [§] | _ | 4 | 10 | 19 | 20 | 10 | 25 | 49 | 155 | 188 | 1 | Ö | 2 | 6 | 6 |
| North Dakota South Dakota | _ | 0 | 3 10 | 10 | 4 5 | 1 4 | 2 8 | 6 20 | 4 62 | 22 28 | _ | 0 | 3 | _ | 1 |
| S. Atlantic | 42 | 58 | 96 | 447 | 279 | 471 | 1,276 | 2,008 | 5,976 | 8,632 | 10 | 12 | 24 | 99 | 121 |
| Delaware District of Columbia | _ | 1 | 3 5 | 3 | 4 | 30 | 19 54 | 44 101 | 134 364 | 159 305 | _ | 0 | 2 | _ | 1 |
| Florida | 30 | 27 | 57 | 243 | 128 | 340 | 437 | 518 | 2,846 | 3,191 | 6 | 3 | 9 | 37 | 27 |
| Georgia Maryland§ | 5 | 9 5 | 56 10 | 136 | 71 29 | | 229 114 | 481 212 | 527 349 | 1,546 860 | 3 | 2 | 9 5 | 21 15 | 35 26 |
| North Carolina | N | 0 | 0 | N 10 | N | _ | 0 175 | 831 | 996 | 219 | 1 | 1 | 9 | 11 | 6 |
| Virginia [§] | 5 | 8 | 29 | 28 | 19 | 96 | 182 | 486 | 786 | 841 | _ | 1 | 6 | 3 | 12 |
| West Virginia | _ | 1 | 5 | 2 | 9 | 3 | 14 | 26 | 84 | 104 | _ | 0 | 3 | 9 | 6 |
| Alabama [§] | _ | 8 4 | 12 | 17 | 48 31 | 155 | 544 163 | 764 213 | 3,107 505 | 3,936 | 1 | 3 | 8 | 16 3 | 23 |
| Kentucky | N | 0 | 0 | N | N | 51 | 89 | 153 | 528 | 614 | — | 0 | 1 | 1 | |
| Tennessee§ | | 3 | 13 | 12 | 17 | 10 | 164 | 205 | 1,036 | 1,092 | _ | 2 | 6 | 12 | 17 |
| W.S. Central | 2 | 8 | 21 | 26 | 25 | 561 | 952 | 1,299 | 5,331 | 6,757 | — | 2 | 17 | 11 | 11 |
| Louisiana | _ | 2 | 8 10 | ь 11 | 9 | 118 | 85 165 | 317 | 650 679 | 1,136 | _ | 0 | 2 | 1 | 1 |
| Oklahoma Texas [§] | 1 N | 3 | 11 | 9 N | 6 N | 83 360 | 72 614 | 141 | 267 | 639 | _ | 1 | 16 | 9 | 9 1 |
| Mountain | 9 | 27 | 62 | 117 | 158 | 100 | 197 | 337 | 641 | 1.555 | 2 | 5 | 12 | 37 | 62 |
| Arizona | 1 | 3 | 8 | 19 | 14 | 26 | 62 | 86 | 257 | 469 | 2 | 2 | 6 | 24 | 30 |
| Idaho§ | | 3 | 14 | 11 | 21 | _ | 3 | 13 | 104 | 25 | _ | 0 | 4 | 1 | — |
| Montana [§] | _ | 1 | 9 | 14 | 8 | 1 70 | 2 | 6 120 | 10 236 | 13 370 | _ | 0 | 1 | 2 | 1 |
| New Mexico§ | — | 1 | 8 | 2 | 17 | | 22 | 47 | 19 | 195 | — | 0 | 4 | 3 | 8 |
| Utah Wyoming§ | _ | 6 0 | 18 3 | 19 6 | 26 4 | 3 | 8 | 19 9 | 5 10 | 69 6 | _ | 0 | 5 2 | 2 | 9 |
| Pacific | 17 | 56 | 140 | 209 | 317 | 291 | 589 | 716 | 3,648 | 4,604 | 1 | 2 | 6 | 7 | 18 |
| Alaska California | 16 | 2 34 | 10 59 | 6 157 | 8 237 | 215 | 11 488 | 19 591 | 81 3 057 | 62 3 789 | _ | 0 | 1 | _2 | 2 |
| Hawaii | | 0 | 4 | 1 | 3 | 3 | 11 | 22 | 58 | 85 | 1 | Ő | 2 | 3 | 1 |
| Oregon ^s Washington | 1 | 7 8 | 18 88 | 26 19 | 60 9 | 36 37 | 23 55 | 48 88 | 179 273 | 197 471 | _ | 1 0 | 4 2 | 2 | 8 |
| American Samoa | _ | 0 | 0 | | | _ | 0 | 1 | _ | 1 | _ | 0 | 0 | _ | _ |
| C.N.M.I. Guam | _ | | 0 | _ | _ | _ | 1 | 15 | _ | 4 | _ | 0 | | _ | _ |
| Puerto Rico | _ | ž | 13 | 9 | 13 | 5 | 4 | 25 | 26 | 42 | — | õ | ŏ | _ | — |
| U.S. Virgin Islands | _ | 0 | 0 | — | _ | _ | 2 | 6 | — | 14 | N | 0 | 0 | N | N |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Med * Incidence data for reporting year 2008 and 2009 are provisional. † Data for *H. influenzae* (age <5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table I. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS). Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

MMWR

| | Hepatitis (viral, acute), by type [†] | | | | | | | | | | | _ | | | | |
|---|--|---------|--------|-------------|-------------|-----------------|------|---------|-------------|-------------|-----------------|------|------------|-------------|-------------|--|
| | | | Α | | | | | В | | | | Le | gionellosi | s | | |
| | | Prev | vious | | | | Prev | /ious | | | | Prev | ious | | | |
| Reporting area | Current week | Med | Max | Cum 2009 | Cum 2008 | Current week | 52 w | Max | Cum 2009 | Cum 2008 | Current week | 52 w | Max | Cum 2009 | Cum 2008 | |
| United States | 13 | 44 | 76 | 183 | 354 | 34 | 69 | 104 | 324 | 480 | 24 | 47 | 147 | 200 | 238 | |
| New England | 1 | 1 | 6 | 3 | 22 | _ | 1 | 3 | 2 | 13 | 1 | 2 | 16 | 5 | 8 | |
| Connecticut Maino [§] | 1 | 0 | 4 | 2 | 3 | _ | 0 | 2 | 1 | 7 | 1 | 0 | 5 | 4 | 3 | |
| Massachusetts | _ | 0 | 4 | _ | 13 | _ | 0 | 1 | _ | 4 | _ | 0 | 2 | _ | 2 | |
| New Hampshire | _ | 0 | 2 | 1 | | — | 0 | 2 | _ | 1 | _ | 0 | 5 | _ | | |
| Vermont [§] | _ | 0 | 1 | _ | 4 | _ | 0 | 1 | _ | _ | _ | 0 | 14 | _ | 2 | |
| Mid. Atlantic | 1 | 5 | 10 | 21 | 59 | 4 | 8 | 15 | 25 | 70 | 4 | 14 | 59 | 51 | 59 | |
| New Jersey | _ | 1 | 3 | 4 | 14 | | 1 | 7 | 2 | 27 | | 1 | 8 | 2 | 8 | |
| New York City | _ | 2 | 4 6 | 3 | 18 | _ | 2 | 6 | 2 | 4 8 | 4 | 2 | 12 | 2 | 9 | |
| Pennsylvania | 1 | 1 | 4 | 8 | 19 | 3 | 2 | 8 | 9 | 31 | — | 6 | 33 | 29 | 32 | |
| E.N. Central | — | 6 | 16 | 25 | 55 | 3 | 8 | 16 | 48 | 61 | 4 | 10 | 41 | 41 | 68 | |
| Indiana | _ | 0 | 4 | 2 | 2 | 1 | 2 | 7 | 5 | 2 | _ | 1 | 6 | 2 | 13 | |
| Michigan | _ | 2 | 5 | 10 | 25 | _ | 2 | 7 | 11 | 21 | | 2 | 16 | 9 | 21 | |
| Ohio Wisconsin | _ | 1 | 4 | 9 | 6 4 | 2 | 2 | 14 | 29 | 18 | 4 | 3 | 18 | 28 | 31 | |
| WN Central | 2 | 3 | 16 | 9 | 39 | 3 | 2 | 7 | 21 | 10 | _ | 2 | 8 | 1 | 13 | |
| lowa | _ | 1 | 7 | _ | 16 | _ | ō | 3 | 3 | 1 | _ | ō | 2 | | 3 | |
| Kansas Minnosota | _ | 0 | 3 | - 1 | 3 | _ | 0 | 3 | - 1 | 1 | — | 0 | 1 | 1 | _ | |
| Missouri | _ | 1 | 3 | 5 | 5 | _ | 1 | 5 | 11 | 7 | _ | 1 | 7 | _ | 4 | |
| Nebraska§ | 2 | 0 | 5 | 3 | 12 | 3 | 0 | 2 | 6 | 1 | — | 0 | 3 | — | 5 | |
| North Dakota South Dakota | _ | 0 | 0 | _ | 1 | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | 1 | |
| S. Atlantic | 6 | 7 | 15 | 54 | 53 | 21 | 18 | 34 | 128 | 137 | 8 | 8 | 22 | 54 | 41 | |
| Delaware | | 0 | 1 | | | | 0 | 1 | | 5 | — | 0 | 2 | _ | 1 | |
| Florida | 5 | 2 | 8 | 32 | 22 | 5 | 0 | 11 | 0 45 | 48 | 5 | 0 | 2 | 20 | 17 | |
| Georgia | _ | 1 | 4 | 7 | | _ | 3 | 8 | 18 | 21 | _ | 1 | 5 | 13 | 3 | |
| Maryland ^s | 1 | 1 | 4 9 | 7 | 7 9 | 2 14 | 2 | 5 17 | 16 41 | 15 18 | 2 | 2 | 10 | 9 12 | 10 | |
| South Carolina [§] | _ | ŏ | 3 | _ | 1 | — | 1 | 4 | 1 | 16 | _ | ŏ | 2 | | 1 | |
| Virginia [§] | _ | 1 | 5 | 2 | 4 | _ | 2 | 8 | 4 | 5 | — | 1 | 4 | — | 2 | |
| FS Control | | 1 | 0 | | 2 | - | 7 | 4 | 26 | 9 | | 0 | 10 | 10 | 10 | |
| Alabama§ | _ | ò | 2 | 1 | 1 | _ | 1 | 6 | 20 | 18 | | 0 | 2 | | 1 | |
| Kentucky | _ | 0 | 3 | | 3 | _ | 2 | 5 | 8 | 19 | 1 | 1 | 4 | 5 | 6 | |
| Tennessee§ | _ | 0 | 6 | 1 | 3 | 1 | 3 | 8 | 12 | 14 | 1 | 1 | 5 | 7 | 3 | |
| W.S. Central | _ | 4 | 12 | 4 | 20 | 1 | 12 | 24 | 31 | 69 | _ | 1 | 10 | 4 | 5 | |
| Arkansas§ | _ | 0 | 1 | _ | | _ | 0 | 4 | | 3 | — | 0 | 2 | | _ | |
| Oklahoma | _ | 0 | 5 | 1 | _ | _ | 2 | 10 | 27 | 8 4 | _ | 0 | 6 | _ | _ | |
| Texas [§] | — | 4 | 11 | 3 | 19 | 1 | 7 | 18 | 22 | 54 | _ | 1 | 5 | 3 | 5 | |
| Mountain | 1 | 4 | 12 | 10 | 22 | — | 3 | 12 | 9 | 24 | 1 | 2 | 8 | 11 | 12 | |
| Colorado | 1 | 0 | 3 | 2 | 4 | _ | 0 | 3 | 1 | 2 | _ | 0 | 2 | 0 | 2 | |
| Idaho§ | _ | 0 | 3 | _ | 2 | — | 0 | 2 | — | — | — | 0 | 1 | _ | 1 | |
| Montana ^s Nevada [§] | _ | 0 | 1 | 1 | _ | _ | 0 | 1 | 2 | 5 | _ | 0 | 1 | 1 | 1 | |
| New Mexico§ | — | Ō | 3 | — | 3 | — | Ö | 2 | 3 | 2 | — | Ō | 2 | | 1 | |
| Utah Wyoming§ | _ | 0 | 2 | _ | 1 | _ | 0 | 3 | _ | 1 | _ | 0 | 2 | 1 | 3 | |
| Pacific | 2 | q | 25 | 53 | 77 | 1 | 6 | 42 | 34 | 41 | 4 | 4 | 10 | 21 | 22 | |
| Alaska | | ŏ | 1 | 1 | | _ | ŏ | 2 | 1 | — | _ | Ō | 1 | 1 | | |
| California | 2 | 7 | 25 | 46 | 62 | 1 | 5 | 28 | 27 | 32 | 3 | 3 | 8 | 15 | 18 | |
| Oregon [§] | _ | Ő | 2 | 2 | 9 | _ | 1 | 3 | 3 | 6 | 1 | 0 | 2 | 2 | 3 | |
| Washington | — | 1 | 6 | 3 | 5 | — | 1 | 14 | 2 | 1 | _ | 0 | 3 | 2 | _ | |
| American Samoa | — | 0 | 0 | _ | _ | — | 0 | 0 | _ | — | Ν | 0 | 0 | Ν | Ν | |
| Guam | _ | 0 | 0 | = | = | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| Puerto Rico | — | 0 | 2 | 1 | 3 | — | 0 | 4 | — | 11 | _ | 0 | 1 | — | _ | |
| U.S. Virgin Islands | _ | 0 | 0 | — | — | — | 0 | 0 | — | — | | 0 | 0 | — | _ | |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional. † Data for acute hepatitis C, viral are available in Table I.

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| | | L | yme disea | se | | | | Malaria | | Meningococcal disease, invasive [†] All serotypes | | | | | |
|---|-----------------|-----------|--------------|-------------|-------------|-----------------|--------|---------|-------------|---|-----------------|--------|--------|-------------|-------------|
| | | Pre | vious | | | | Prev | /ious | | | Previous | | | | |
| Reporting area | Current week | Med | Max | Cum 2009 | Cum 2008 | Current week | Med | Max | Cum 2009 | Cum 2008 | Current week | Med | Max | Cum 2009 | Cum 2008 |
| United States | 48 | 448 | 1,458 | 639 | 947 | 7 | 21 | 44 | 92 | 124 | 12 | 16 | 48 | 78 | 169 |
| New England | 2 | 45 | 261 | 37 | 136 | | 0 | 6 | 1 | 6 | _ | 0 | 3 | 1 | 6 |
| Connecticut Maine [§] | 1 | 0 6 | 0 73 | 6 | _ | _ | 0 | 3 | _ | 1 | _ | 0 | 0 | _ | 1 |
| Massachusetts | | 3 | 114 | 17 | 97 | — | 0 | 2 | — | 3 | — | 0 | 3 | | 4 |
| Rhode Island [§] | _ | 0 | 0 | | | _ | 0 | 1 | _ | 1 | _ | 0 | 1 | _ | _ |
| Vermont§ | _ | 4 | 41 | 14 | 5 | | 0 | 1 | 1 | | | 0 | 0 | _ | |
| Mid. Atlantic New Jersey | 30 | 251 29 | 1,098 211 | 296 39 | 516 162 | 1 | 4 0 | 14 0 | 16 | 27 | 1 | 2 0 | 6 2 | 7 | 17 3 |
| New York (Upstate) | 23 | 99 1 | 1,044 | 78 | 30 | 1 | 0 | 10 | 7 | 2 | _ | 0 | 3 | | 5 |
| Pennsylvania | 7 | 96 | 533 | 179 | 316 | | 1 | 3 | 3 | 6 | 1 | 1 | 5 | 5 | 7 |
| E.N. Central | 1 | 12 | 146 | 28 | 38 | 2 | 2 | 7 | 8 | 24 | 3 | 3 | 9 | 15 | 29 |
| Indiana | _ | 0 | 8 | _ | | _ | 0 | 5 | _ | 12 | _ | 0 | 5 4 | 2 | 13 |
| Michigan | 1 | 1 | 10 | 9 | 3 | | 0 | 2 | 1 | 4 | | 0 | 3 | 2 | 5 |
| Wisconsin | _ | 9 | 129 | 17 | 31 | | 0 | 3 | _ | _ | | 0 | 2 | | 4 |
| W.N. Central | 4 | 8 | 201 | 8 | 3 | _ | 1 | 10 | 3 | 2 | _ | 2 | 6 | 8 | 19 |
| Kansas | _ | ò | 1 | 1 | _ | — | Ő | 2 | 1 | _ | — | Ő | 2 | 1 | 1 |
| Minnesota Missouri | 4 | 4 0 | 201 | 4 | _ | _ | 0 | 8 | 1 | 1 | _ | 0 | 4 2 | 2 4 | 6 |
| Nebraska§ | — | 0 | 2 | — | — | — | 0 | 2 | — | 1 | — | 0 | 1 | — | 1 |
| South Dakota | _ | 0 | 1 | 1 | _ | | 0 | 0 | _ | _ | _ | 0 | 1 | _ | 1 |
| S. Atlantic | 9 | 69 | 219 | 239 | 229 | 4 | 4 | 15 | 46 | 37 | 4 | 3 | 9 | 17 | 24 |
| Delaware District of Columbia | _ | 2 | 37 | 36 | 54 10 | _ | 0 | 2 | _ | _ | _ | 0 | 0 | _ | _ |
| Florida | 1 | 2 | 10 | 14 | 3 | 2 | 1 | 7 | 14 | 11 | 4 | 1 | 3 | 10 | 8 |
| Maryland§ | | 30 | 158 | 156 | 146 | 2 | 1 | 7 | 15 | 14 | _ | 0 | 3 | 1 | 2 |
| North Carolina South Carolina [§] | _ | 0 | 5 | 6 2 | 2 | _ | 0 | 7 | 8 1 | _2 | _ | 0 | 3 | 3 | 3 4 |
| Virginia [§] | 6 | 15 | 53 | 16 | 10 | _ | 1 | 3 | 2 | 1 | _ | Ö | 2 | 1 | 4 |
| West Virginia | _ | 1 | 11 | | 2 | | 0 | 0 | | | _ | 0 | 1 | 1 | |
| Alabama§ | _ | Ó | 2 | | _ | _ | 0 | 1 | _ | 1 | _ | Ó | 2 | _ | |
| Kentucky Mississippi | _ | 0 | 2 | _ | _ | _ | 0 | 1 | _ | 1 | _ | 0 | 1 | _ | 4 |
| Tennessee§ | _ | Ő | 3 | 2 | 1 | _ | Ő | 2 | 4 | _ | _ | Ö | 3 | 1 | 4 |
| W.S. Central | _ | 2 | 9 | _ | 1 | _ | 1 | 11 | _ | 5 | _ | 2 | 7 | 3 | 19 |
| Louisiana | _ | Ö | 1 | _ | _ | _ | 0 | 1 | _ | _ | _ | Ö | 2 | 1 | 9 |
| Oklahoma Texas [§] | _ | 0 | 1 9 | _ | 1 | | 0 | 2 11 | _ | 1 4 | _ | 0 | 3 5 | 1 | 2 6 |
| Mountain | _ | 0 | 16 | 3 | 4 | | 0 | 3 | _ | 6 | 2 | 1 | 4 | 9 | 10 |
| Arizona Colorado | _ | 0 | 2 | 1 | _2 | _ | 0 | 2 | _ | 2 | 1 | 0 | 2 | 3 | 1 |
| Idaho§ | — | Ő | 1 | 1 | 1 | _ | Ö | 1 | — | _ | 1 | Ö | 1 | 2 | 1 |
| Nontana ^s Nevada [§] | _ | 0 | 16 2 | 1 | _ | _ | 0 | 0 | _ | 3 | _ | 0 | 1 | 2 | 1 |
| New Mexico [§] | — | 0 | 2 | — | 1 | _ | 0 | 1 | — | _ | — | 0 | 1 | _ | 1 |
| Wyoming§ | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | 1 |
| Pacific | 2 | 4 | 18 | 26 | 19 | — | 3 | 11 | 14 | 15 | 2 | 5 | 19 | 17 | 36 |
| California | 2 | 3 | 2 8 | 23 | 18 | _ | 2 | 2 8 | 12 | 10 | 2 | 2 | 19 | 9 | 28 |
| Hawaii Oregon [§] | N | 0 | 0 | N 3 | N 1 | _ | 0 | 1 | 1 | 1 | _ | 0 | 1 | 1 | 5 |
| Washington | _ | ò | 11 | _ | _ | | ŏ | 7 | 1 | 1 | _ | ò | 5 | 3 | 3 |
| American Samoa C.N.M.I. | <u>N</u> | 0 | 0 | <u>N</u> | <u>N</u> | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Guam Puerto Rico | N | 0 0 | 0 0 | N | N | _ | 0 0 | 2 1 | 1 | _ | _ | 0 0 | 0 1 | _ | _ |
| U.S. Virgin Islands | N | 0 | 0 | N | N | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional. † Data for meningococcal disease, invasive caused by serogroups A, C, Y, and W-135; serogroup B; other serogroup; and unknown serogroup are available in Table I. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| | | | Pertussis | ; | | | Ra | bies, anin | nal | Rocky Mountain spotted fever | | | | | |
|--|---------|--------------|----------------|-----------|-----------|------|--------------|----------------|--------|------------------------------|------|--------------|--------------|------|------|
| | 0 | Prev 52 w | vious veeks | 0 | 0 | 0 | Prev 52 w | vious veeks | 0 | 0 | 0 | Prev 52 w | ious eeks | 0 | Cum |
| Reporting area | week | Med | Max | 2009 | 2008 | week | Med | Max | 2009 | 2008 | week | Med | Max | 2009 | 2008 |
| United States | 128 | 188 | 607 | 1,076 | 1,115 | 27 | 103 | 169 | 300 | 537 | 13 | 41 | 144 | 78 | 31 |
| New England | 1 | 9 | 26 | 29 | 177 | 5 | 6 | 20 | 24 | 23 | _ | 0 | 2 | _ | 1 |
| Connecticut Maine [†] | 1 | 0 | 4 7 | 19 | 13 | 2 | 3 | 17 | 11 | 13 | N | 0 | 0 | N | N |
| Massachusetts | _ | 5 | 17 | | 142 | N | 0 | 0 | Ň | N | _ | 0 | Ō | _ | 1 |
| New Hampshire Rhode Island [†] | _ | 1 | 4 | / | 4 | N | 0 | 3 | 1 N | 4 N | _ | 0 | 1 | _ | _ |
| Vermont [†] | — | ŏ | 2 | 2 | 3 | 1 | 1 | ő | 6 | 4 | — | õ | ō | _ | _ |
| Mid. Atlantic | 9 | 17 | 51 | 94 | 126 | 2 | 33 | 67 | 50 | 123 | _ | 1 | 26 | _ | 3 |
| New Jersey New York (Upstate) | 3 | 1 | 6 40 | 17 | 10 32 | 2 | 0 9 | 0 20 | 30 | 31 | _ | 0 | 2 25 | _ | 2 |
| New York City | | Ö | 4 | | 19 | _ | Ö | 2 | | 4 | — | Ő | 2 | _ | 1 |
| Pennsylvania | 6 | 9 | 35 | 77 | 65 | _ | 21 | 52 | 20 | 88 | _ | 0 | 2 | _ | _ |
| E.N. Central Illinois | 29 | 35 11 | 171 45 | 305 68 | 365 22 | _ | 3 | 29 21 | 5 1 | 1 | _ | 1 | 15 11 | 1 | 1 |
| Indiana | _ | 1 | 96 | 12 | 3 | _ | Ó | 2 | | _ | _ | Ó | 3 | _ | _ |
| Michigan Ohio | 2 26 | 6 | 20 57 | 80 142 | 21 307 | _ | 1 | 9 7 | _4 | _ | _ | 0 | 1 | _ | _ |
| Wisconsin | 1 | 2 | 7 | 3 | 12 | Ν | Ö | 0 | Ν | Ν | _ | Ő | 1 | _ | _ |
| W.N. Central | 7 | 20 | 126 | 234 | 94 | 1 | 3 | 13 | 14 | 10 | _ | 4 | 32 | 2 | 1 |
| lowa Kansas | 1 | 3 | 21 13 | 2 14 | 15 | _ | 0 | 5 | 10 | 1 | _ | 0 | 2 | _ | _ |
| Minnesota | _ | 2 | 99 | — | _ | _ | Ő | 10 | 2 | 4 | _ | ŏ | ŏ | _ | _ |
| Missouri Nebraska† | 4 | 6 | 50 32 | 183 | 66 | 1 | 1 | 8 | 1 | _ | _ | 4 | 31 | 2 | 1 |
| North Dakota | | 0 | 1 | | | _ | 0 | 7 | _ | 2 | _ | 0 | 0 | _ | _ |
| South Dakota | _ | 0 | 7 | 3 | 2 | _ | 0 | 2 | 1 | 3 | _ | 0 | 1 | _ | _ |
| S. Atlantic | 70 | 18 | 46 | 196 | 85 | 14 | 34 | 88 | 167 | 350 | 13 | 15 | 69 | 70 | 20 |
| District of Columbia | _ | 0 | 1 | - | 2 | _ | Ő | 0 | _ | _ | _ | 0 0 | 2 | _ | _ |
| Florida | 2 | 6 | 20 | 49 | 12 | 8 | 0 | 7 | 23 | 139 | | 0 | 3 | | 1 |
| Maryland [†] | 1 | 2 | 8 | 8 | 16 | _ | 7 | 47 | 6 | 40 | | 1 | 0 7 | 4 | 4 |
| North Carolina | 65 | 0 | 16 | 102 | 32 | 6 | 9 | 16 | 29 | 50 | 11 | 5 | 55 | 58 | 11 |
| Virginia [†] | 2 | 2 | 24 | 14 | 5 14 | _ | 11 | 24 | 43 | 66 | _ | 2 | 9 15 | 3 | _ |
| West Virginia | — | 0 | 2 | 2 | _ | _ | 1 | 9 | 5 | 7 | _ | 0 | 1 | — | 1 |
| E.S. Central | 3 | 8 | 29 | 76 | 37 | 1 | 3 | 7 | 10 | 11 | _ | 3 | 23 | 3 | 2 |
| Kentuckv | 3 | 3 | 5 12 | 4 52 | 6 | 1 | 1 | 0 4 | 10 | 3 | _ | 0 | 8 1 | _ | _ |
| Mississippi | _ | 2 | 5 | 12 | 16 | — | 0 | 1 | _ | 1 | — | 0 | 3 | 1 | _ |
| l'ennessee | | 2 | 14 | 8 | 5 | _ | 2 | 6 | _ | / | _ | 2 | 19 | 1 | 1 |
| W.S. Central Arkansas [†] | _ | 31 | 161 20 | 42 1 | 50 14 | 1 | 1 0 | 11 6 | 4 2 | 5 5 | _ | 2 | 41 14 | 1 | 2 |
| Louisiana | — | 1 | 7 | 7 | _ | _ | 0 | 0 | _ | _ | _ | 0 | 1 | — | 1 |
| Oklanoma Texas [†] | _ | 0 26 | 29 154 | 5 29 | 1 35 | 1 | 0 | 10 | 2 | _ | _ | 0 | 26 6 | _ | 1 |
| Mountain | 5 | 15 | 34 | 55 | 118 | _ | 2 | 8 | 13 | 5 | _ | 1 | 3 | 1 | 1 |
| Arizona | | 3 | 10 | 8 | 28 | Ν | 0 | 0 | Ň | Ň | — | 0 | 2 | — | _ |
| Idaho† | 4 | 2 | 13 | 29 7 | 39 | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | _ |
| Montana [†] | _ | 0 | 11 | 3 | 10 | _ | Ö | 2 | 4 | — | _ | 0 | 1 | _ | _ |
| Nevada [†] New Mexico [†] | _ | 0 | 7 | 5 | 1 | _ | 0 | 4 | 3 | 4 | _ | 0 | 2 | _ | 1 |
| Utah | _ | 3 | 17 | 1 | 33 | _ | õ | 6 | _ | | _ | Ő | 1 | 1 | |
| Wyoming [†] | — | 0 | 2 | — | 3 | — | 0 | 4 | 6 | 1 | — | 0 | 2 | _ | _ |
| Pacific Alaska | _4 | 25 | 80 21 | 45 11 | 63 17 | 3 | 4 | 13 4 | 13 | 9 4 | | 0 | 1 | N | N |
| California | _ | 8 | 23 | — | 17 | 3 | 3 3 | 12 | 11 | 5 | _ | Ő | 1 | _ | _ |
| Hawaii Oregon [†] | 3 | 0 | 2 | 5 21 | 2 15 | _ | 0 | 0 | _ | _ | N | 0 | 0 | Ν | Ν |
| Washington | | 5 | 74 | 8 | 12 | _ | 0 | 0 | _ | _ | N | 0 | 0 | N | N |
| American Samoa | _ | 0 | 0 | _ | _ | Ν | 0 | 0 | Ν | Ν | Ν | 0 | 0 | Ν | Ν |
| C.N.M.I. | | | | — | — | _ | | | _ | _ | N | | | | |
| Puerto Rico | _ | 0 | 0 | _ | _ | 1 | 1 | 5 | 4 | 5 | N | 0 | 0 | N | N |
| U.S. Virgin Islands | _ | 0 | 0 | _ | _ | Ν | 0 | 0 | Ν | N | Ν | 0 | 0 | N | N |

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional. † Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| (********* | | S | almonello | sis | | Shig | a toxin-p | roducing I | E. coli (ST | EC)† | Shigellosis | | | | | |
|---|----------|-------------|-----------|-------------|-------------|----------|-----------|------------|-------------|-------------|-------------|----------|----------|-------------|-------------|--|
| | | Pre | vious | | | | Prev | vious | | | | Prev | vious | | | |
| Reporting area | Current | 52 \ Med | Max | Cum 2009 | Cum 2008 | Current | 52 W | Max | Cum 2009 | Cum 2008 | Current | 52 W | Max | Cum 2009 | Cum 2008 | |
| United States | 257 | 915 | 1,485 | 3,222 | 3,955 | 32 | 85 | 251 | 245 | 297 | 120 | 434 | 612 | 1,642 | 1,784 | |
| New England | 1 | 16 | 63 | 92 | 639 | _ | 3 | 14 | 7 | 59 | _ | 2 | 7 | 3 | 55 | |
| Connecticut Maine [§] | _ | 0 | 43 8 | 43 12 | 484 17 | _ | 0 | 5 3 | 5 | 44 2 | _ | 0 | 2 6 | 2 | 38 | |
| Massachusetts | _ | 9 | 52 | | 104 | _ | Ŏ | 11 | _ | 9 | — | Ö | 5 | _ | 12 | |
| New Hampshire Rhode Island [§] | 1 | 2 | 10 9 | 16 14 | 13 13 | _ | 1 0 | 3 | 2 | 2 | _ | 0 | 1 | 1 | 1 | |
| Vermont§ | — | 1 | 7 | 7 | 8 | — | 0 | 6 | — | 2 | _ | 0 | 2 | — | 1 | |
| Mid. Atlantic | 18 | 90 11 | 177 | 308 11 | 451 93 | _ | 6 | 192 | 15 | 24 | 5 | 45 15 | 96 38 | 213 73 | 135 47 | |
| New York (Upstate) | 9 | 27 | 61 | 94 | 91 | _ | 3 | 188 | 9 | 8 | 1 | 11 | 35 | 11 | 19 | |
| New York City Pennsylvania | 9 | 19 28 | 53 78 | 71 132 | 127 140 | _ | 1 | 5 | 2 | 7 4 | 4 | 13 | 35 23 | 46 83 | 52 17 | |
| E.N. Central | 21 | 94 | 194 | 392 | 434 | 4 | 11 | 75 | 33 | 36 | 30 | 81 | 124 | 421 | 440 | |
| Illinois | — | 26 | 72 | 49 | 135 | — | 1 | 10 | 3 | 4 | _ | 17 | 35 | 44 | 161 | |
| Michigan | 1 | 18 | 38 | 89 | 22 86 | _ | 2 | 43 | 9 | 2 | _ | 9 4 | 22 | 37 | 126 | |
| Ohio | 16 | 27 | 65 | 191 | 120 | 3 | 3 | 17 | 12 | 5 | 27 | 42 | 80 | 288 | 94 | |
| WISCONSIN | 4 30 | 14 70 | 50 150 | 40 | 203 | 3 | 4 12 | 20 | 0 30 | 10 27 | 3 8 | 16 | 33 | 40 | 49 | |
| lowa | | 8 | 16 | 14 | 41 | _ | 2 | 21 | 6 | 7 | | 4 | 12 | 23 | 5 | |
| Kansas Minnesota | 4 13 | 7 12 | 31 69 | 29 57 | 19 45 | 3 | 1 2 | 7 21 | 1 10 | 2 8 | 3 | 1 5 | 5 25 | 17 10 | 2 11 | |
| Missouri | 7 | 14 | 48 | 59 | 62 | _ | 2 | 11 | 9 | 7 | 1 | 3 | 14 | 8 | 43 | |
| Nebraska ^s North Dakota | 6 | 4 | 13 7 | 24 | 23 | _ | 2 | 30 | 4 | 2 | 1 | 0 | 3 | 4 | 11 | |
| South Dakota | _ | 2 | 9 | 12 | 11 | _ | 1 | 4 | _ | 1 | _ | 0 | 9 | 1 | 27 | |
| S. Atlantic | 98 | 249 | 456 | 1,047 | 1,026 | 11 | 14 | 51 | 68 | 55 | 24 | 58 | 100 | 270 | 387 | |
| District of Columbia | _ | 1 | 4 | _ | 8 | _ | 0 | 1 | _ | 2 | _ | 0 | 3 | | 2 | |
| Florida Georgia | 52 18 | 97 43 | 174 | 478 194 | 530 109 | 7 | 2 | 11 | 28 | 17 | 3 | 14 19 | 34 48 | 75 79 | 153 149 | |
| Maryland [§] | 8 | 13 | 36 | 67 | 73 | _ | 2 | 9 | 9 | 10 | 7 | 2 | 8 | 33 | 9 | |
| North Carolina South Carolina [§] | 16 4 | 23 18 | 106 55 | 181 73 | 123 86 | 3 | 1 | 21 4 | 19 1 | 9 4 | 6 1 | 3 8 | 27 32 | 44 15 | 12 58 | |
| Virginia§ | _ | 19 | 75 | 46 | 56 | 1 | 3 | 27 | 3 | 6 | 2 | 4 | 57 | 20 | 4 | |
| vvest virginia | | 59 | 129 | 101 | 251 | | 0 | 3 | 10 | 0 21 | | 25 | 3 67 | 97 | 252 | |
| Alabama§ | _ | 15 | 46 | 39 | 85 | _ | 1 | 17 | 1 | 5 | _ | 6 | 18 | 12 | 67 | |
| Kentucky Mississinni | 3 | 10 14 | 18 57 | 46 38 | 42 52 | _ | 1 | 7 | 3 | 5 | 2 | 3 | 24 18 | 11 | 34 83 | |
| Tennessee§ | 1 | 14 | 60 | 58 | 72 | 2 | 2 | 7 | 7 | 10 | 5 | 19 | 47 | 59 | 68 | |
| W.S. Central | 17 | 136 | 329 | 200 | 206 | 1 | 7 | 27 | 2 | 24 | 27 | 98 | 222 | 331 | 188 | |
| Louisiana | 4 | 17 | 40 50 | 43 29 | 27 53 | _ | 0 | 3 | _ | 1 | _ | 11 | 27 26 | 21 | 14 39 | |
| Oklahoma Toxas [§] | 3 | 15 | 36 | 30 | 25 | 1 | 1 | 19 | 2 | 2 | 3 | 3 | 43 | 20 | 17 | |
| Mountain | 16 | 60 | 110 | 237 | 291 | 6 | 10 | 39 | 41 | 40 | 13 | 22 | 55 | 132 | 93 | |
| Arizona | 5 | 20 | 45 | 88 | 95 | | 1 | 5 | 2 | 5 | 12 | 13 | 34 | 94 | 41 | |
| ldaho [§] | 9 2 | 3 | 43 14 | 49 20 | 63 16 | <u> </u> | 3 | 18 | 30 | 8 16 | _ | 2 | 2 | 15 | 18 | |
| Montana [§] | — | 2 | 8 | 15 | 5 | — | 0 | 3 | _ | 4 | — | 0 | 1 | | | |
| New Mexico§ | _ | 6 | 33 | 25 9 | 28 41 | _ | 1 | 6 | 2 | 2 4 | _ | 4 | 13 | 8 | 21 | |
| Utah Wyoming§ | _ | 6 1 | 19 4 | 29 | 33 10 | _ | 1 | 9 1 | 2 | _1 | _ | 1 | 3 | 1 | 2 | |
| Pacific | 52 | 112 | 531 | 570 | 454 | 5 | 9 | 58 | 37 | 11 | 6 | 30 | 83 | 122 | 135 | |
| Alaska | | 1 | 4 | 6 | 5 | | Ő | 1 | | | | 0 | 1 | 1 | | |
| Hawaii | 45 5 | 80 5 | 15 | 451 42 | 359 | 5 | 0 | 39 | 32 | 10 | 6 | 27 | 75 3 | 3 | 121 | |
| Oregon [§] Washington | 2 | 7 | 20 | 34 | 37 | _ | 1 | 8 | | — | — | 1 | 10 | 8 | 7 | |
| American Samoa | _ | ۱∠ ۱ | 150 | 37 | 22 | _ | ∠ ∩ | 42 0 | 4 | _ | _ | ∠ ∩ | ∠0 1 | 9 | 2 1 | |
| C.N.M.I. | _ | | <u> </u> | _ | | | | | _ | _ | _ | | - | _ | <u> </u> | |
| Guam Puerto Rico | _ | 0 9 | 2 29 | 30 | 1 77 | _ | 0 0 | 0 1 | _ | _ | _ | 0 | 3 4 | _ | 1 2 | |
| U.S. Virgin Islands | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional. † Includes *E. coli* O157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| | : | Streptococcal | diseases, inva | asive, group A | Streptococcus pneumoniae, invasive disease, nondrug resistant [†] Age <5 years | | | | | | | |
|--|---------|---------------|----------------|----------------|--|---------|----------------|--------------|--------|------|--|--|
| | Current | Prev 52 w | ious eeks | Cum | | Current | Previ 52 we | ious eeks | C | C | | |
| Reporting area | week | Med | Max | 2009 | 2008 | week | Med | Max | 2009 | 2008 | | |
| United States | 60 | 88 | 182 | 622 | 833 | 26 | 33 | 53 | 198 | 304 | | |
| New England | 1 | 4 | 31 | 21 | 43 | _ | 1 | 11 | 3 | 22 | | |
| Maine§ | _ | 0 | 26 | 2 | 4 | _ | 0 | 1 | _ | 1 | | |
| Massachusetts | _ | 1 | 8 | _ | 35 | _ | 0 | 3 | _ | 18 | | |
| New Hampshire | _ | 0 | 2 | 3 | 3 | _ | 0 | 1 | 2 | 3 | | |
| Vermont§ | 1 | 0 | 3 | 4 | 1 | _ | 0 | 1 | 1 | _ | | |
| Mid. Atlantic | 11 | 17 | 43 | 113 | 167 | 3 | 3 | 19 | 16 | 43 | | |
| New Jersey | _ | 2 | 11 | 1 | 38 | _ | 1 | 4 | 2 | 11 | | |
| New York (Upstate) New York City | 4 | 6 | 22 | 41 | 43 39 | 3 | 2 | 19 | 14 | 14 | | |
| Pennsylvania | 7 | 7 | 16 | 54 | 47 | N | Ō | 2 | Ν | N | | |
| E.N. Central | 7 | 16 | 42 | 122 | 167 | 3 | 6 | 11 | 35 | 63 | | |
| Illinois | — | 4 | 16 | 27 | 46 | — | 1 | 5 | 7 | 19 | | |
| Michigan | 1 | 3 | 9 | 22 | 40 | 1 | 1 | 5 | 6 | 14 | | |
| Ohio | 6 | 5 | 14 | 53 | 46 | 2 | 1 | 4 | 17 | 12 | | |
| Wisconsin | _ | 1 | 10 | 8 | 19 | | 0 | 2 | 3 | 11 | | |
| W.N. Central | 5 | 5 | 39 | 41 | 61 | _ | 2 | 11 | 13 | 22 | | |
| Kansas | 1 | 0 | 5 | 8 | 9 | _ | 0 | 3 | 2 | 2 | | |
| Minnesota | _ | 0 | 35 | | 20 | _ | 0 | 9 | 3 | 6 | | |
| MISSOUII Nebraska§ | 2 | 2 | 5 | 19 | 24 | _ | 1 | 2 | 6 1 | 11 | | |
| North Dakota | _ | ò | 3 | _ | _ | _ | Ő | 2 | | | | |
| South Dakota | 2 | 0 | 2 | 6 | 2 | | 0 | 1 | 1 | 1 | | |
| S. Atlantic | 16 | 21 | 36 | 161 | 179 | 5 | 6 | 16 | 55 | 55 | | |
| District of Columbia | _ | 0 | 4 | 5 | 3 | _ | 0 | 1 | _ | _ | | |
| Florida | 7 | 5 | 10 | 42 | 47 | 1 | 1 | 4 | 12 | 5 | | |
| Georgia Manuland [§] | 5 | 4 | 14 | 42 | 45 | 3 | 1 | 6 | 22 | 16 | | |
| North Carolina | 3 | 2 | 10 | 16 | 9 | Ň | 0 | 4 0 | N | N | | |
| South Carolina§ | 1 | 1 | 5 | 12 | 10 | _ | 1 | 6 | 9 | 10 | | |
| Virginia ⁹ West Virginia | _ | 3 | 9 | 13 | 19 | _ | 0 | 6 | | 8 | | |
| FS Contral | | 3 | 9 | | 22 | _ | 2 | 6 | 2 | 11 | | |
| Alabama§ | Ň | õ | ŏ | Ň | Ň | Ν | ō | ŏ | Ň | Ň | | |
| Kentucky | 2 | 1 | 3 | 10 | 5 | N | 0 | 0 | N | N | | |
| Tennessee§ | 2 | 0 | 6 | N 21 | IN 17 | _ | 0 | 3 | 3 | 4 7 | | |
| W.S. Central | 9 | 9 | 51 | 59 | 49 | 11 | 5 | 29 | 38 | 29 | | |
| Arkansas§ | 2 | õ | 2 | 2 | | 1 | õ | 3 | 7 | 3 | | |
| Louisiana | | 0 | 2 | 3 | 4 | | 0 | 3 | 5 | 1 | | |
| Texas [§] | 5 | 6 | 38 | 27 | 28 | 9 | 3 | 20 | 19 | 14 | | |
| Mountain | 6 | 9 | 21 | 58 | 123 | 4 | 4 | 11 | 34 | 54 | | |
| Arizona | 2 | 3 | 8 | 19 | 34 | 2 | 2 | 9 | 23 | 31 | | |
| Lolorado Idaho§ | 4 | 2 | 10 | 24 | 38 | 2 | 0 | 4 | 1 | 10 | | |
| Montana§ | Ν | Õ | ō | Ν | Ň | _ | Ő | 1 | | _ | | |
| Nevada [§] | — | 0 | 1 | 1 | 2 | N | 0 | 0 | N | N | | |
| Utah | _ | 2 1 | 5 4 | 12 | 34 12 | _ | 0 | 4 | 2 | 6 | | |
| Wyoming§ | — | 0 | 2 | 1 | — | — | 0 | 1 | — | _ | | |
| Pacific | 1 | 3 | 8 | 16 | 22 | | 0 | 2 | 1 | 5 | | |
| Alaska | — | 0 | 4 | 2 | 4 | N | 0 | 0 | N | N | | |
| Hawaii | 1 | 2 | 8 | 14 | 18 | | 0 | 2 | 1 | 5 | | |
| Oregon [§] | N | 0 | 0 | N | N | N | 0 | 0 | N | N | | |
| vvashington | N | 0 | 0 | N | N | N | 0 | 0 | N | N | | |
| American Samoa | _ | 0 | 12 | _ | _ | N | 0 | 0 | N | N | | |
| Guam | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | | |
| Puerto Rico | N | 0 | 0 | N | Ν | Ν | 0 | 0 | Ν | N | | |
| U.S. Virgin Islands | — | 0 | 0 | — | — | N | 0 | 0 | N | N | | |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands.

C.N.M.L. Commonwealth of Normer Martana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
* Incidence data for reporting year 2008 and 2009 are provisional.
† Includes cases of invasive pneumococcal disease, in children aged <5 years, caused by *S. pneumoniae*, which is susceptible or for which susceptibility testing is not available (NNDSS event code 11717).
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

MMWR

| | | Streptococcus pneumoniae, invasive disease, drug resistant [†] | | | | | | | | | | | | | | |
|---|-------------|---|----------|--------|----------|---------|------|------------|----------|--------|---------------------------------|---------|----------|-----------|-----------|--|
| | | | All ages | | | | Aç | ged <5 yea | rs | | Syphilis, primary and secondary | | | | | |
| | | Pre | vious | | | | Prev | /ious | | | | Prev | /ious | | | |
| Departing area | Current | 52 v | veeks | Cum | Cum | Current | 52 w | reeks | Cum | Cum | Current | 52 w | reeks | Cum | Cum | |
| Reporting area | <u>week</u> | Med | Max | 2009 | 2008 | меек | Med | Max | 2009 | 2008 | Week | Med | Max | 2009 | 2008 | |
| United States | 62 | 53 | 105 | 444 | 587 | 8 | 8 | 23 | 59 | 65 | 101 | 240 | 433 | 1,328 | 1,477 | |
| Connecticut | _ | ò | 48 | | | _ | ő | 5 | _ | _ | _ | 0 | 4 | 6 | 2 | |
| Maine [§] | 1 | 0 | 2 | 2 | 2 | _ | 0 | 1 | — | — | | 0 | 2 | 1 | | |
| New Hampshire | _ | 0 | 1 | 1 | _ | _ | 0 | 0 | _ | _ | _ | 4 | 2 | 5 | 20 | |
| Rhode Island [§] | _ | 0 | 2 | | 4 | — | 0 | 1 | _ | _ | — | 0 | 5 | — | 2 | |
| Vermonts Mid Atlantia | | 0 | 2 | 3 | 4 | _ | 0 | 1 | - | 1 | | 0 | 2 | | | |
| New Jersey | | 0 | 0 | - 13 | 50 | _ | 0 | 20 | _ | 4 | 1 | 34 4 | 52 10 | 223 | 225 39 | |
| New York (Upstate) | _ | 1 | 6 | 3 | 8 | _ | 0 | 1 | 1 | _ | 3 | 3 | 7 | 10 | 8 | |
| Pennsylvania | 2 | 1 | 5 9 | 10 | 18 24 | _ | 0 | 2 | _ | 4 | 13 | 22 5 | 36 12 | 34 | 46 | |
| E.N. Central | 16 | 11 | 41 | 87 | 148 | _ | 2 | 7 | 14 | 19 | 6 | 17 | 239 | 137 | 113 | |
| Illinois | | 1 | 7 | 6 | 48 | _ | 0 | 2 | 6 | 9 | 1 | 1 | 230 | 27 | 25 | |
| Michigan | | 0 | 3 | 4 | 20 4 | _ | 0 | 1 | _ | 2 | 2 | 3 | 18 | 24 34 | 22 | |
| Ohio | 10 | 7 | 18 | 70 | 68 | — | 1 | 4 | 8 | 7 | — | 6 | 14 | 46 | 43 | |
| Wisconsin | _ | 0 | 0 | | | _ | 0 | 0 | | _ | | 1 | 3 | 6 | 9 | |
| lowa | _ | 2 | 0 | | 49 | _ | 0 | 2 | 4 | | _ | 8 0 | 2 | 35 | 62 | |
| Kansas | — | 1 | 4 | 3 | 21 | — | 0 | 1 | 3 | 1 | — | 0 | 5 | 1 | | |
| Minnesota Missouri | 1 | 0 | 0 | 8 | 27 | _ | 0 | 0 | 1 | _ | _ | 2 | 6 10 | 10 22 | 15 46 | |
| Nebraska§ | _ | Ó | Ö | _ | _ | — | Ő | Ó | _ | — | — | Ó | 2 | 2 | 1 | |
| North Dakota South Dakota | _ | 0 | 0 | _ | 1 | _ | 0 | 0 | _ | 1 | _ | 0 | 0 | _ | _ | |
| S. Atlantic | 35 | 22 | 53 | 270 | 234 | 7 | 4 | 14 | 32 | 27 | 39 | 55 | 148 | 319 | 225 | |
| Delaware | _ | 0 | 1 | 2 | | _ | Ö | 0 | _ | _ | | 0 | 4 | 6 | 1 | |
| District of Columbia | 32 | 0 14 | 3 36 | 178 | 4 132 | 7 | 0 | 1 13 | 22 | 18 | 2 15 | 2 18 | 9 37 | 26 131 | 16 88 | |
| Georgia | 3 | 7 | 22 | 77 | 85 | _ | 1 | 5 | 10 | 7 | | 13 | 126 | 20 | 10 | |
| Maryland ^s | N | 0 | 2 | 1 N | 2 N | N | 0 | 0 | | 1 N | 7 | 7 | 14 19 | 10 75 | 29 41 | |
| South Carolina [§] | | Ő | Ő | | | | Ő | Ő | | | _ | 2 | 6 | 9 | 16 | |
| Virginia [§] | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 15 | 5 | 16 | 41 | 24 | |
| FS Central | 5 | 5 | 21 | 12 | 63 | 1 | 1 | 2 | 5 | 3 | 7 | 21 | ו 37 | 118 | 138 | |
| Alabama§ | Ň | ő | 0 | N | N | Ň | ò | ō | Ň | Ň | _ | 8 | 17 | 31 | 68 | |
| Kentucky | 2 | 1 | 6 | 16 | 12 | — | 0 | 2 | 3 | 1 | 2 | 1 | 10 | 10 | 7 | |
| Tennessee§ | 3 | 3 | 19 | 22 | 51 | 1 | 0 | 3 | 2 | 2 | 2 | 8 | 19 | 55 | 50 | |
| W.S. Central | 2 | 2 | 7 | 13 | 20 | _ | 0 | 1 | 2 | 5 | 19 | 44 | 76 | 248 | 249 | |
| Arkansas§ | 2 | 0 | 4 | 8 | 2 | — | 0 | 1 | 1 | 1 | 3 | 3 | 35 | 35 | 8 | |
| Oklahoma | N | Ó | 0 | Ň | Ň | N | 0 | 0 | Ň | Ň | _ | 1 | 7 | 4 | 18 | |
| Texas [§] | _ | 0 | 0 | _ | 1 | _ | 0 | 0 | _ | _ | 16 | 27 | 46 | 197 | 169 | |
| Mountain | _ | 1 | 11 | 4 | 12 | _ | 0 | 4 | 1 | 3 | 1 | 9 | 25 | 18 | 78 | |
| Colorado | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 1 | 5 | 2 | 18 | |
| Idaho§ | Ν | 0 | 1 | N | N | Ν | 0 | 1 | N | N | — | 0 | 2 | — | _ | |
| Montana ^s Nevada [§] | N | 0 | 1 | N | N | N | 0 | 0 | N | N | 1 | 0 | 7 | 12 | 17 | |
| New Mexico§ | _ | Ō | 1 | | | _ | 0 | Ō | <u> </u> | | _ | 1 | 4 | 2 | 6 | |
| Utah Wyoming§ | _ | 1 | 10 | 1 | 12 | _ | 0 | 4 | 1 | 3 | _ | 0 | 18 1 | _ | _ | |
| Pacific | _ | 0 | 1 | 2 | 1 | _ | 0 | 1 | _ | 1 | 7 | 45 | 73 | 186 | 354 | |
| Alaska | N | Ő | Ö | Ň | Ň | N | Ő | Ö | N | Ň | <u> </u> | 0 | 1 | | | |
| California Hawaii | N | 0 | 0 | N 2 | N 1 | N | 0 | 0 | N | N 1 | 3 | 41 | 67 | 167 5 | 310 | |
| Oregon§ | Ν | Ő | Ö | Ň | Ň | Ν | Ő | Ö | Ν | Ň | 1 | Ő | 3 | 4 | 3 | |
| Washington | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 2 | 2 | 9 | 10 | 36 | |
| American Samoa | <u>N</u> | 0 | 0 | N | N | N | 0 | 0 | N | N | _ | 0 | 0 | _ | _ | |
| Guam | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| Puerto Rico | _ | 0 | 0 | _ | _ | — | 0 | 0 | _ | _ | 1 | 3 | 11 | 19 | 12 | |
| U.S. Virgin Islands | _ | 0 | 0 | _ | — | _ | 0 | 0 | _ | _ | _ | 0 | 0 | — | _ | |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable.

Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

C.N.M.I: Commonwealth of Normern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Max * Incidence data for reporting year 2008 and 2009 are provisional. † Includes cases of invasive pneumococcal disease caused by drug-resistant *S. pneumoniae* (DRSP) (NNDSS event code 11720). § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| · · · · · | | | | | | West Nile virus disease [†] | | | | | | | | | | |
|-----------------------------|----------|----------|-------------|------------|------------|--------------------------------------|------|-----------|------|------|-------------------|------|------|------|------|--|
| | | Varice | ella (chick | enpox) | | | Ne | uroinvasi | ve | | Nonneuroinvasive§ | | | | | |
| | | Prev | vious | | | | Prev | ious | | | | Prev | ious | | | |
| | Current | 52 v | veeks | Cum | Cum | Current | 52 w | eeks | Cum | Cum | Current | 52 w | eeks | Cum | Cum | |
| Reporting area | week | Med | Max | 2009 | 2008 | week | Med | Max | 2009 | 2008 | week | Med | Max | 2009 | 2008 | |
| United States | 215 | 461 | 1,011 | 2,503 | 4,015 | _ | 1 | 75 | — | 1 | — | 1 | 74 | — | 1 | |
| New England | 1 | 10 | 22 | 42 | 103 | _ | 0 | 2 | _ | _ | _ | 0 | 1 | _ | _ | |
| Maine [¶] | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| Massachusetts | _ | Ō | 1 | _ | _ | _ | Ō | Ō | _ | _ | _ | Ō | Ō | _ | _ | |
| New Hampshire | 1 | 4 | 10 | 26 | 59 | — | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| Knode Island | _ | 0 | 17 | 16 | 44 | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ | |
| Mid. Atlantic | 23 | 41 | 81 | 256 | 407 | | 0 | 8 | _ | _ | _ | 0 | 4 | _ | _ | |
| New Jersey | N | 0 | 0 | N | N | — | Õ | 2 | — | — | — | Ō | 1 | — | — | |
| New York (Upstate) | N | 0 | 0 | N | N | — | 0 | 5 | — | _ | _ | 0 | 2 | _ | _ | |
| Pennsylvania | 23 | 41 | 81 | 256 | 407 | _ | 0 | 2 | _ | _ | _ | 0 | 2 | _ | _ | |
| E.N. Central | 82 | 146 | 312 | 1.083 | 1.028 | _ | 0 | 8 | _ | _ | _ | 0 | 3 | _ | | |
| Illinois | 10 | 35 | 71 | 262 | 28 | — | Ō | 4 | — | — | _ | Ō | 2 | _ | _ | |
| Indiana | | 0 | 0 | | | — | 0 | 1 | _ | _ | _ | 0 | 1 | — | _ | |
| Ohio | 29 41 | 58 46 | 106 | 351 437 | 506 485 | _ | 0 | 4 | _ | _ | _ | 0 | 2 | _ | _ | |
| Wisconsin | 2 | 5 | 50 | 33 | 9 | _ | Ő | 2 | _ | _ | _ | Ő | 1 | _ | | |
| W.N. Central | 34 | 19 | 71 | 172 | 226 | _ | 0 | 6 | _ | 1 | _ | 0 | 21 | _ | _ | |
| lowa | N | 0 | 0 | N | N | — | 0 | 2 | — | _ | — | 0 | 1 | — | — | |
| Kansas Minnesota | 2 | 6 | 40 | 35 | 102 | _ | 0 | 2 | _ | 1 | _ | 0 | 3 | _ | _ | |
| Missouri | 32 | 9 | 51 | 137 | 113 | _ | Ő | 3 | _ | _ | _ | ŏ | 1 | _ | | |
| Nebraska ¹ | N | 0 | 0 | N | N | — | 0 | 1 | _ | _ | _ | 0 | 8 | _ | _ | |
| North Dakota | _ | 0 | 39 | _ | 4 | _ | 0 | 2 | _ | _ | _ | 0 | 11 | _ | _ | |
| S Atlantic | 58 | 76 | 173 | 268 | 802 | | 0 | 3 | | _ | | 0 | 3 | | | |
| Delaware | | 1 | 5 | 1 | 2 | _ | ŏ | ŏ | _ | _ | _ | ŏ | 1 | _ | _ | |
| District of Columbia | | 0 | 3 | | 4 | — | 0 | 0 | — | — | — | 0 | 0 | — | — | |
| Florida | 37 N | 29 | 87 | 206 N | 225 N | _ | 0 | 2 | _ | _ | _ | 0 | 0 | _ | _ | |
| Maryland [¶] | N | ŏ | 0 | Ň | N | _ | Ő | 2 | _ | _ | _ | Ő | 2 | _ | _ | |
| North Carolina | N | 0 | 0 | N | N | — | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| South Carolina [®] | 5 | 11 | 67 | 6 | 108 | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | _ | |
| West Virginia | 16 | 11 | 33 | 55 | 143 | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ | |
| E.S. Central | _ | 15 | 101 | 16 | 135 | _ | 0 | 7 | _ | _ | _ | 0 | 8 | _ | 1 | |
| Alabama [¶] | | 15 | 101 | 16 | 134 | _ | 0 | 3 | _ | _ | _ | 0 | 2 | _ | _ | |
| Kentucky | N | 0 | 0 | N | N 1 | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ | |
| Tennessee [¶] | N | 0 | 0 | N | Ň | _ | 0 | 2 | _ | _ | _ | 0 | 3 | _ | 1 | |
| W.S. Central | 3 | 103 | 435 | 443 | 976 | _ | 0 | 8 | _ | _ | _ | 0 | 7 | _ | _ | |
| Arkansas [¶] | 3 | 6 | 61 | 16 | 111 | — | 0 | 1 | — | — | — | 0 | 1 | — | — | |
| Louisiana | N | 1 | 6 | 6 N | 20 N | _ | 0 | 3 | _ | _ | _ | 0 | 5 | _ | _ | |
| Texas [¶] | | 95 | 422 | 421 | 845 | _ | 0 | 6 | _ | _ | _ | Ő | 4 | _ | _ | |
| Mountain | 14 | 35 | 90 | 201 | 324 | _ | 0 | 12 | _ | _ | _ | 0 | 22 | _ | _ | |
| Arizona | | 0 | 0 | | | — | 0 | 10 | — | _ | — | 0 | 8 | — | — | |
| Colorado Idaho¶ | 14 N | 14 | 44 | 84 N | 139 N | _ | 0 | 4 | _ | _ | _ | 0 | 10 | _ | _ | |
| Montana [¶] | _ | 5 | 27 | 54 | 33 | _ | Ő | 0 | _ | _ | _ | Ő | 2 | _ | _ | |
| Nevada | N | 0 | 0 | N | N | — | 0 | 2 | _ | _ | _ | 0 | 3 | _ | _ | |
| New Mexico ¹ | _ | 3 | 18 | 21 | 40 | _ | 0 | 1 | _ | _ | _ | 0 | 1 | _ | _ | |
| Wvoming¶ | _ | 0 | 55 4 | 42 | 3 | _ | 0 | 2 | _ | _ | _ | 0 | 2 | _ | _ | |
| Pacific | _ | 3 | 8 | 22 | 14 | _ | 0 | 38 | _ | _ | _ | 0 | 23 | _ | _ | |
| Alaska | _ | 2 | 6 | 19 | 2 | — | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| California | _ | 0 | 0 | | 10 | _ | 0 | 37 | _ | _ | _ | 0 | 20 | _ | _ | |
| Oregon [¶] | N | 0 | с 0 | 3 N | N | _ | 0 | 2 | _ | _ | _ | 0 | 4 | _ | _ | |
| Washington | N | Ō | Ō | N | N | _ | Ō | 1 | _ | _ | _ | Ō | 1 | _ | _ | |
| American Samoa | N | 0 | 0 | N | N | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | — | |
| C.N.M.I. | — | | 17 | — | | — | | | — | — | — | | | — | — | |
| Puerto Rico | 1 | 2 6 | 20 | 22 | 67 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| U.S. Virgin Islands | | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 21, 2009, and February 16, 2008 (7th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.

⁺ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.

[§] Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
[¶] Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE III. Deaths in 122 U.S. cities,* week ending February 21, 2009 (7th week)

| | | All cau | ses, by a | age (year | s) | | | | All causes, by age (years) | | | | | | | |
|----------------------------|-------------|----------|-----------|-----------|----------|----------|---------------------------|-----------------------------|----------------------------|------------|-----------|-------|----------|-----|---------------------------|--|
| Reporting area | All Ages | ≥65 | 45–64 | 25–44 | 1–24 | <1 | P&I [†] Total | Reporting area | All Ages | ≥65 | 45–64 | 25–44 | 1–24 | <1 | P&I [†] Total | |
| New England | 513 | 348 | 121 | 26 | 5 | 12 | 49 | S. Atlantic | 1,129 | 716 | 296 | 70 | 25 | 22 | 78 | |
| Boston, MA | 141 | 87 | 35 | 8 | 4 | 7 | 18 | Atlanta, GA | 131 | 74 | 39 | 13 | 1 | 4 | 8 | |
| Bridgeport, CT | 35 | 21 | 10 | 3 | _ | 1 | 3 | Baltimore, MD | 160 | 97 | 46 | 11 | 2 | 4 | 15 | |
| Cambridge, MA | 21 | 12 | 3 | 1 | _ | _ | 3 | | 192 | 116 | 32 | 0 | 0 | 3 | 10 | |
| Hartford CT | 21 | 36 | 8 | 3 | 1 | 1 | 4 | Miami El | 07 | 60 | 49 | 10 | 0 | 2 | 23 | |
| Lowell MA | 23 | 18 | 5 | _ | _ | _ | 4 | Norfolk VA | 48 | 28 | 13 | 3 | _ | 4 | 1 | |
| Lvnn. MA | 10 | 7 | 3 | _ | _ | _ | 1 | Richmond, VA | 68 | 39 | 23 | 4 | 1 | 1 | 6 | |
| New Bedford, MA | 26 | 19 | 5 | 2 | _ | _ | 2 | Savannah, GA | 44 | 30 | 14 | _ | _ | _ | 4 | |
| New Haven, CT | U | U | U | U | U | U | U | St. Petersburg, FL | 66 | 45 | 12 | 6 | 3 | _ | 5 | |
| Providence, RI | 53 | 37 | 14 | 1 | — | 1 | 4 | Tampa, FL | 176 | 133 | 30 | 5 | 5 | 3 | 4 | |
| Somerville, MA | 3 | 3 | _ | — | — | — | _ | Washington, D.C. | 36 | 20 | 13 | 3 | — | _ | — | |
| Springfield, MA | 33 | 19 | 8 | 5 | _ | 1 | | Wilmington, DE | 10 | 6 | 4 | | | | _1 | |
| Waterbury, CT | 44 | 34 | 8 | 2 | — | _ | 4 | E.S. Central | 862 | 562 | 216 | 54 | 12 | 18 | 70 | |
| Worcester, MA | 1 070 | 38 | 19 | 1 | | 1 | 4 | Birmingnam, AL | 193 | 114 | 52 | 13 | 3 | 11 | 13 | |
| Albony NV | 1,979 | 1,400 | 429 | 99 | 29 | 1 | 103 | Knowillo TN | 97 | 75 | ∠ I 10 | 6 | 2 | | 6 | |
| Albany, NT Allentown PA | 40 | 32 17 | 5 | _ | _ | _ | 2 | Levington KV | 67 56 | 30 | 10 | 0 | 2 | _ | 2 | |
| Buffalo NY | 92 | 64 | 24 | 3 | _ | 1 | 3 | Memphis TN | 174 | 110 | 45 | 12 | 4 | 3 | 18 | |
| Camden, NJ | 9 | 6 | 1 | 1 | 1 | _ | _ | Mobile. AL | 55 | 37 | 13 | 5 | _ | _ | 2 | |
| Elizabeth, NJ | 16 | 12 | 4 | _ | _ | _ | _ | Montgomery, AL | 50 | 38 | 10 | 1 | 1 | _ | 4 | |
| Erie, PA | 49 | 44 | 3 | 1 | 1 | _ | 1 | Nashville, TN | 143 | 88 | 40 | 10 | 1 | 4 | 14 | |
| Jersey City, NJ | 20 | 17 | 3 | _ | _ | — | 1 | W.S. Central | 1,455 | 956 | 332 | 94 | 43 | 30 | 85 | |
| New York City, NY | 1,050 | 739 | 236 | 51 | 13 | 11 | 47 | Austin, TX | 81 | 52 | 19 | 7 | 1 | 2 | 9 | |
| Newark, NJ | 42 | 21 | 12 | 7 | 1 | 1 | 2 | Baton Rouge, LA | 84 | 60 | 15 | 9 | _ | | | |
| Paterson, NJ | 14 | 6 | | 10 | 1 | _ | 1 | Corpus Christi, TX | 62 | 43 | 15 | 3 | _ | 1 | 4 | |
| Philadelphia, PA | 206 | 124 | 55 | 18 | 5 | 4 | 9 | Dallas, IX | 195 | 119 | 48 | 18 | 6 | 4 | 8 | |
| Plusburgh, PA3 | 25 | 21 | 4 | 1 | | <u>_</u> | 1 | Erraso, TA Fort Worth TY | 90 | /3 | 13 | 4 | 4 | 2 | 5 | |
| Rochester NY | 136 | 102 | 26 | 5 | 1 | 2 | 14 | Houston TX | 395 | 251 | 92 | 29 | 11 | 12 | 20 | |
| Schenectady NY | 25 | 21 | 4 | _ | <u> </u> | | 2 | Little Bock AB | 84 | 56 | 18 | 4 | 3 | 3 | 1 | |
| Scranton, PA | 21 | 17 | 4 | _ | _ | _ | 3 | New Orleans, LA | Ŭ | Ŭ | Ŭ | Ů | Ŭ | Ŭ | Ů | |
| Syracuse, NY | 98 | 77 | 15 | 4 | 2 | _ | 7 | San Antonio, TX | 280 | 175 | 70 | 16 | 14 | 5 | 28 | |
| Trenton, NJ | 31 | 24 | 5 | 2 | — | — | 2 | Shreveport, LA | 52 | 41 | 9 | 2 | — | _ | 3 | |
| Utica, NY | 15 | 8 | 2 | 4 | 1 | — | 1 | Tulsa, OK | 126 | 86 | 33 | 2 | 4 | 1 | 7 | |
| Yonkers, NY | 21 | 17 | 2 | 2 | | | 4 | Mountain | 819 | 556 | 177 | 48 | 18 | 20 | 48 | |
| E.N. Central | 2,094 | 1,378 | 513 | 133 | 30 | 40 | 144 | Albuquerque, NM | U | U | U | U | U | U | U | |
| Akron, OH | 56 | 34 | 13 | 2 | _ | 1 | 1 | Boise, ID | 58 | 37 | 12 | 6 | 1 | 2 | 4 | |
| | 40 360 | 200 | 103 | 33 | 8 | 7 | 23 | Denver CO | 74 05 | 44 68 | 19 | 4 | 4 | 2 | 7 | |
| Cincinnati OH | 97 | 67 | 20 | 3 | 1 | 6 | 11 | | 269 | 181 | 62 | 13 | 5 | 8 | 15 | |
| Cleveland OH | 249 | 175 | 55 | 12 | 4 | 3 | 10 | Ogden UT | 35 | 24 | 9 | | 2 | _ | 3 | |
| Columbus, OH | 219 | 125 | 71 | 15 | 2 | 6 | 23 | Phoenix. AZ | Ŭ | U | Ŭ | U | Ū | U | Ŭ | |
| Dayton, OH | 120 | 87 | 20 | 12 | _ | 1 | 13 | Pueblo, CO | 27 | 19 | 8 | _ | _ | _ | 2 | |
| Detroit, MI | 158 | 83 | 57 | 16 | 2 | _ | 8 | Salt Lake City, UT | 108 | 63 | 27 | 11 | 3 | 4 | 10 | |
| Evansville, IN | 57 | 42 | 10 | 3 | 2 | — | 5 | Tucson, AZ | 153 | 120 | 25 | 5 | 2 | 1 | 6 | |
| Fort Wayne, IN | 78 | 57 | 17 | 3 | _ | 1 | 5 | Pacific | 1,691 | 1,177 | 370 | 82 | 34 | 27 | 198 | |
| Gary, IN | 20 | 11 | 9 | _ | _ | — | _ | Berkeley, CA | 18 | 12 | 5 | _ | _ | 1 | 4 | |
| Grand Rapids, MI | 54 | 42 | 9 | 10 | 3 | | 4 | Fresho, CA | 127 | 92 | 28 | 5 | 1 | 1 | 12 | |
| Indianapolis, in | 198 | 32 | 40 | 13 | 3 | 4 | 10 | Hopolulu HI | 40 | 33 | 4 | 2 | 1 | 2 | 10 | |
| Milwaukee WI | 102 | 68 | 25 | 6 | 1 | 2 | 7 | Long Beach CA | 67 | 47 | 11 | 6 | 2 | 1 | 11 | |
| Peoria II | 42 | 33 | 7 | _ | | 2 | 3 | Los Angeles CA | 262 | 167 | 60 | 23 | 11 | 1 | 42 | |
| Rockford, IL | 44 | 31 | 11 | 2 | _ | _ | 3 | Pasadena, CA | 22 | 15 | 4 | 1 | 2 | _ | 4 | |
| South Bend, IN | 45 | 35 | 8 | 1 | _ | 1 | 2 | Portland, OR | 118 | 66 | 43 | 4 | 3 | 2 | 8 | |
| Toledo, OH | 112 | 83 | 20 | 7 | 2 | _ | 6 | Sacramento, CA | 218 | 155 | 46 | 12 | 2 | 3 | 25 | |
| Youngstown, OH | U | U | U | U | U | U | U | San Diego, CA | 136 | 93 | 30 | 7 | 3 | 3 | 9 | |
| W.N. Central | 727 | 482 | 166 | 41 | 22 | 16 | 61 | San Francisco, CA | 131 | 92 | 27 | 6 | 2 | 4 | 18 | |
| Des Moines, IA | 105 | 76 | 19 | 7 | 1 | 2 | 7 | San Jose, CA | 185 | 147 | 32 | 3 | 2 | 1 | 18 | |
| Duluth, MN | 27 | 19 | 6 | _ | 1 | 1 | 2 | Santa Cruz, CA | 30 | 23 | 4 | 1 | | 1 | 7 | |
| Kansas City, KS | 28 | 18 | 6 | 3 | 1 | _ | 1 | Seattle, WA | 117 | 78 | 27 | 7 | 1 | 4 | 11 | |
| Kansas City, MO | 114 | /6 | 22 | 6 | 8 | 2 | ъ С | | 62 | 50 | 9 | 1 | | 2 | 8 | |
| Minneanolis MN | 49 | 30 40 | 17 | 1 | | 3 | 27 | | 11 260 | 09 7575 | 2 620 | 6/7 | 4 219 | 207 | 0 | |
| Omaha NF | 88 | 42 68 | 17 | 1 | _ | 2 | 12 | | 11,209 | 1,373 | 2,020 | 0+7 | 210 | 201 | 030 | |
| St Louis MO | 109 | 57 | 41 | 6 | 3 | 2 | 16 | | | | | | | | | |
| St. Paul. MN | 45 | 32 | 9 | 2 | 1 | 1 | 1 | | | | | | | | | |
| Wichita, KS | 96 | 56 | 22 | 11 | 5 | 2 | 5 | | | | | | | | | |

U: Unavailable. -: No reported cases.

Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of >100,000. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

[†] Pneumonia and influenza.

⁶ Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
 ¹ Total includes unknown ages.

The *Morbidity and Mortality Weekly Report (MMWR)* Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format. To receive an electronic copy each week, visit *MMWR*'s free subscription page at http://www.cdc.gov/mmwr/mmwrsubscribe.html. Paper copy subscriptions are available through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone 202-512-1800.

Data in the weekly *MMWR* are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the following Friday. Data are compiled in the National Center for Public Health Informatics, Division of Integrated Surveillance Systems and Services. Address all inquiries about the *MMWR* Series, including material to be considered for publication, to Editor, *MMWR* Series, Mailstop E-90, CDC, 1600 Clifton Rd., N.E., Atlanta, GA 30333 or to *mmwrq@cdc.gov.*

All material in the MMWR Series is in the public domain and may be used and reprinted without permission; citation as to source, however, is appreciated.

Use of trade names and commercial sources is for identification only and does not imply endorsement by the U.S. Department of Health and Human Services.

References to non-CDC sites on the Internet are provided as a service to *MMWR* readers and do not constitute or imply endorsement of these organizations or their programs by CDC or the U.S. Department of Health and Human Services. CDC is not responsible for the content of these sites. URL addresses listed in *MMWR* were current as of the date of publication.

☆ U.S. Government Printing Office: 2009-523-019/41157 Region IV ISSN: 0149-2195