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Japanese Encephalitis Among Three U.S. Travelers Returning from Asia, 2003–2008

Japanese encephalitis virus (JEV), a mosquito-borne flavivirus, is a leading cause of encephalitis in Asia (1). The risk for Japanese encephalitis (JE) for most travelers is low, but varies by travel destination, duration, season, and activities (2). As part of routine surveillance and diagnostic testing, state health officials or clinicians send specimens from patients with unexplained encephalitis to CDC. To characterize the epidemiologic and clinical features of JE cases, CDC reviewed all laboratoryconfirmed cases that occurred during 1992 (when a JE vaccine was first licensed in the United States) to 2008. Four cases were identified, including one previously reported (3). This report describes the three previously unpublished cases. All were Asian immigrants or family members who traveled to Asia to live or to visit friends or relatives and had not been vaccinated for JE. The three patients experienced fever with mental status changes, but JE was recognized early in the clinical course of only one patient. All recovered, but two patients had residual neurologic deficits. Travelers to Asia might be at increased risk for JE because of rural itineraries and lack of perceived risk (4). To protect against JE, travelers should seek medical advice on protective measures, including possible JE vaccination, well in advance of departure for Asia. While in Asia, travelers should use personal protective measures to reduce the risk for mosquito bites. Health-care providers should assess the risk for JE in travelers to Asia and provide appropriate preventive or supportive treatment measures.

Case Reports

Case 1. On August 21, 2003, a woman aged 30 years was hospitalized in Minnesota with neck pain, confusion, and slow speech. The patient was born in Korea, moved to the United States at age 3 years, and moved back to Korea at age 26 years. For 7 months before illness onset, she had lived on an island off

the coast of southern Thailand. She reportedly had no record of receiving JE vaccine. On July 30, while in Thailand, a dog bit her on the ankle. On August 1 and 4, she received rabies postexposure prophylaxis with rabies vaccine. On August 7, she was hospitalized with a nonspecific febrile illness, treated empirically with intravenous antibiotics, discharged the next day, then rehospitalized during August 10–14 for additional symptomatic treatment. On August 20, she returned to the United States.

On admission to the Minnesota hospital, she was afebrile with normal vital signs. Routine laboratory studies and brain scans were unremarkable. Cerebrospinal fluid (CSF) showed lymphocytic pleocytosis (33 white blood cells [WBC]/mm³ [normal: 0–5 WBC/mm³] with 97% lymphocytes, 27 red blood cells (RBC) per mm³ [normal: 0 RBC/mm³]), slightly elevated protein (51 mg/dL [(normal: 15–45 mg/dL]), and normal glucose concentrations. Other tests were negative, including bacterial cultures, polymerase chain reaction assays for herpes simplex and rabies viruses, a stool culture for enteroviruses, and enzyme immunoassays for immunoglobulin M (IgM) antibodies to a standard panel of domestic arboviruses.*

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^{*}West Nile, La Crosse, St. Louis encephalitis, eastern equine encephalitis, and western equine encephalitis viruses.

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The patient received rabies immune globulin and intravenous corticosteroids, and completed the rabies vaccination series. Her mental status improved over several days, and she was discharged on August 26 with a presumptive diagnosis of viral meningoencephalitis. Serum and CSF samples collected on August 21 (day 14 of illness) subsequently tested positive for JEV-specific IgM and neutralizing antibodies at CDC. The patient recovered fully.

Case 2. On July 26, 2005, on a return flight to California from the Philippines, a woman aged 68 years developed weakness and loss of appetite. The next day, she developed fever, chills, nausea, and dry cough and was hospitalized on July 28 to receive intravenous antibiotics. The patient, an immigrant to the United States who reportedly never received JE vaccine, had spent the previous 3 months visiting friends and relatives in Manila. On admission to the hospital, she had fever (103.5°F [39.7°C]) and a peripheral WBC count of 11,900/mm³ (85% neutrophils). Other routine laboratory tests, abdominal computed tomography (CT) scan and ultrasound, and a chest radiograph were unremarkable.

Within a few hours after admission, the patient developed agitation, disorientation, and hypotension requiring intravenous vasopressors and she was transferred to the intensive-care unit. The next day, she became obtunded with spastic limb movements and upper-body muscle tension. She was treated empirically with lorazepam, tetanus immune globulin, acyclovir, and fluconazole. CSF showed lymphocytic pleocytosis (75 WBC/mm³ with 71% lymphocytes and 29% neutrophils), elevated protein (133 mg/dL), and normal glucose concentrations. CT and magnetic resonance imaging (MRI) of the brain and electroencephalography were noncontributory. During the next 3 weeks, the patient was extubated, regained her ability to speak, and was able to walk with assistance. On August 24 (hospital day 28), she was discharged for further outpatient rehabilitation. Serum obtained on August 4 (day 9 of illness) subsequently tested positive for JEV-specific IgM and neutralizing antibodies at CDC.

Case 3. In mid-January, 2008, a previously healthy boy aged 9 years and his family flew from their home in Washington to Phnom Penh, Cambodia, where they stayed for 1 week. He subsequently visited family in rural southern Vietnam for nearly 3 weeks and stayed another 5 days in a hotel in Ho Chi Minh City. Three weeks before departure to Asia, the family had visited a travel medicine clinic but deferred JE vaccination because of insufficient time to complete a full primary series, which is typically administered over 30 days.

On February 17, while in Ho Chi Minh City, the patient developed fever, headache, weakness, loss of appetite, and vomiting. On February 18, the family returned to Phnom Penh, where the patient was hospitalized with decreased mental status, seizures, and progressive limb weakness. On February 22, he was transferred to a hospital in Bangkok where he had fever, intermittent seizures, bilateral papilledema, motor aphasia, involuntary limb movements, and somnolence requiring mechanical ventilation. CSF showed 5 WBC/mm³, 42 RBC/mm³, and normal protein and glucose concentrations. Head CT and MRI scans showed abnormalities of the thalami, basal ganglia, and right caudate nucleus. A battery of laboratory tests for potential encephalitis pathogens was negative,† except for anti-JEV IgM in serum and CSF.

While hospitalized, the patient received anticonvulsants, diuretics, corticosteroids, antibiotics, and influenza antivirals. He was extubated on February 27 and airlifted to a hospital in the United States on March 18. The patient was discharged home on March 26 with substantial residual cognitive deficits, aphasia, and motor dysfunction. Six months later, he was walking independently, eating solid food, and making gains in speech recovery. Serum collected on March 25 (5 weeks after illness onset) subsequently tested positive for JEV-specific IgM and neutralizing antibodies at CDC, confirming the diagnosis made in Thailand.

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Editorial Note: JE is predominately a disease of rural Asia and parts of the western Pacific, especially where rice culture and pig farming coexist (1). In JE-endemic countries, most adults have protective immunity, and JE is primarily a disease of children. However, travel-associated JE can occur in any age group. In temperate areas, JEV transmission occurs mainly in summer and fall; in tropical and subtropical areas, seasonal transmission varies with monsoons and irrigation practices, and might be extended or occur year-round.

The risk for JE for most travelers to Asia is low, but varies based on travel destination, duration, season, and activities. The overall incidence of JE among persons traveling to Asia from countries where JE is not endemic is estimated to be <1 case per 1 million travelers (3). The risk to short-term travelers

whose visits are limited to urban areas is negligible (1,2). In contrast, expatriates and travelers with prolonged stays in rural areas where JE is endemic or epidemic are at greater risk, possibly similar to that of the resident, nonimmune population (2). Travelers on even brief trips to rural areas might have increased risk (5-7), especially if they are extensively exposed to mosquitoes (2).

From 1973 to 1992, 11 JE cases were reported among U.S. residents, including five among civilian travelers (8). Since December 1992, when a JE vaccine was first licensed in the United States, only four cases of JE have been reported among U.S. residents, the three travel-associated JE cases described in this report and the case reported previously in 2004 (3). All four JE cases were among civilian travelers or expatriates. Two of the travel-associated JE cases described in this report were Asian-native adults who had immigrated to the United States many years earlier, and the third was in a U.S.-native child whose parents were Asian immigrants. Immigrants who return to their native countries to visit friends or relatives might be less concerned about or less aware of disease risks associated with travel to those countries, and thus might be less inclined to seek pretravel medical advice (4).

Although <1% of JEV infections result in clinical disease, JE is a devastating illness that has a case-fatality ratio of approximately 30% and causes neurologic sequelae in approximately 50% of survivors (1). No specific treatment exists. Therefore, prevention is paramount. Travelers to JE-endemic countries should be advised of the risks for JE disease and the importance of personal protective measures to reduce the risk for mosquito bites (9). The use of bed nets, insect repellents, and protective clothing, and avoidance of outdoor activity, especially in the evening and at night, are important preventive measures for JE (2). JE vaccine can reduce further the risk for infection for travelers in high-risk settings, depending on season, location, duration, and activities. In March 2009, the Food and Drug Administration approved a new inactivated Vero cell culturederived JE vaccine (IXIARO) for use in persons aged ≥ 17 years. An inactivated mouse brain-derived JE vaccine (JE-VAX) has been licensed in the United States since 1992 for use in persons aged ≥1 year. However, JE-VAX is no longer being produced, and limited supplies remain. Therefore, CDC recommends that JE-VAX only be used for children aged 1–16 years.

JE should be suspected in a patient with evidence of a neuroinvasive viral infection (e.g., encephalitis, aseptic meningitis, or acute flaccid paralysis) who recently returned from a JE-endemic country in Asia or the western Pacific. Health-care providers should contact their state or local health

[†] CSF evaluated by bacterial culture, latex agglutination for *Haemophilus influenzae* type b, *Streptococcus pneumoniae*, *Streptococcus agalactiae*, and *Neisseria meningitidis* serogroups A, B, C, Y, and W135, and polymerase chain reaction for herpes simplex virus and enteroviruses.

[§] Updated recommendations regarding the prevention of travel-associated JE and a map of JE-endemic areas are available at http://wwwn.cdc.gov/travel/yellowbook/ch4/japanese-encephalitis.aspx.

department or CDC's Division of Vector-Borne Infectious Diseases (telephone: 970-221-6400) for assistance with JEV diagnostic testing.

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Differences in Prevalence of Obesity Among Black, White, and Hispanic Adults — United States, 2006–2008

Obesity is associated with increased health-care costs, reduced quality of life, and increased risk for premature death (1,2). Common morbidities associated with obesity include coronary heart disease, hypertension and stroke, type 2 diabetes, and certain types of cancer (1,2). As of 2007, no state had met the *Healthy People 2010* objective to reduce to 15% the prevalence of obesity among U.S. adults (3,4). An

overarching goal of Healthy People 2010 is to eliminate health disparities among racial/ethnic populations. To assess differences in prevalence of obesity among non-Hispanic blacks, non-Hispanic whites, and Hispanics, CDC analyzed data from Behavioral Risk Factor Surveillance System (BRFSS) surveys conducted during 2006–2008. Overall, for the 3-year period, 25.6% of non-Hispanic blacks, non-Hispanic whites, and Hispanics were obese. Non-Hispanic blacks (35.7%) had 51% greater prevalence of obesity, and Hispanics (28.7%) had 21% greater prevalence, when compared with non-Hispanic whites (23.7%). This pattern was consistent across most U.S. states. However, state prevalences varied substantially, ranging from 23.0% (New Hampshire) to 45.1% (Maine) for non-Hispanic blacks, from 21.0% (Maryland) to 36.7% (Tennessee) for Hispanics, and from 9.0% (District of Columbia [DC]) to 30.2% (West Virginia) for non-Hispanic whites. Given the overall high prevalence of obesity and the significant differences among non-Hispanic blacks, non-Hispanic whites, and Hispanics, effective policies and environmental strategies that promote healthy eating and physical activity are needed for all populations and geographic areas, but particularly for those populations and areas disproportionally affected by obesity.

BRFSS is an ongoing, state-based, random-digit-dialed telephone survey of the U.S. civilian, noninstitutionalized population aged ≥18 years, conducted in 50 states, DC, and three U.S. territories. The median response rate* among all states and territories, based on Council of American Survey and Research Organizations (CASRO) guidelines, was 51.4% (range: 35.1%–66.0%) in 2006, 50.6% (range: 26.9%–65.4%) in 2007, and 53.3% (range: 35.8%-65.9%) in 2008. The median cooperation rate[†] was 74.5% (range: 56.9%–83.5%) in 2006, 72.1% (range: 49.6%–84.6%) in 2007, and 75.0% (range: 59.3%–87.8%) in 2008. Obesity was defined as a body mass index (BMI) ≥30. BMI was calculated from self-reported weight and height (weight [kg] / height [m²]). Pregnant women and respondents reporting a weight ≥500 pounds or a height ≥7 feet were excluded. To ensure sufficient sample sizes for valid obesity estimates from most states, 3 years of data were used, and analyses were limited to three racial/ethnic populations: non-Hispanic whites, non-Hispanic blacks, and Hispanics. Estimates were based on populations with at least 50 respondents and a prevalence relative standard error of less than 30%. Data also were analyzed by sex and U.S. census region. All analyses were conducted using statistical software to account for complex sampling design. Age-adjusted prevalences were estimated using the 2000 U.S. standard population.

^{*} The percentage of persons who completed interviews among all eligible persons, including those who were not successfully contacted.

[†] The percentage of persons who completed interviews among all eligible persons who were contacted.

During 2006–2008, the age-adjusted estimated prevalence of obesity overall was 25.6% among non-Hispanic blacks, non-Hispanic whites, and Hispanics. Non-Hispanic blacks had the greatest prevalence of obesity (35.7%), followed by Hispanics (28.7%), and non-Hispanic whites (23.7%) (Table 1). These differences were consistent across all census regions and greater among women than men. Non-Hispanic black women had the greatest prevalence (39.2%), followed by non-Hispanic black men (31.6%), Hispanic women (29.4%), Hispanic men (27.8%), non-Hispanic white men (25.4%), and non-Hispanic white women (21.8%) (Table 1).

Among the four U.S. census regions, greater prevalences of obesity for non-Hispanic blacks were found in the South (36.9%) and Midwest (36.3%) than in the West (33.1%) and Northeast (31.7%). Greater prevalences of obesity for non-Hispanic whites were found in the Midwest (25.4%) and South (24.4%) than in the Northeast (22.6%) and West (21.0%). Among Hispanics, smaller prevalence was observed in the Northeast (26.6%) than in the Midwest (29.6%), South (29.2%), or West (29.0%) (Table 1).

In most states, non-Hispanic blacks had the greatest prevalence of obesity, followed by Hispanics, and non-Hispanic whites. In the 45 states and DC where non-Hispanic blacks had sufficient respondents, the state-specific prevalence of obesity ranged from 23.0% (New Hampshire) to 45.1%

(Maine); in 40 states, prevalence was ≥30%, and in five states (Alabama, Maine, Mississippi, Ohio, and Oregon) prevalence was ≥40% (Table 2, Figure). Among Hispanics in 50 states and DC, the prevalence of obesity ranged from 21.0% (Maryland) to 36.7% (Tennessee) and was ≥30% in 11 states (Table 2, Figure). Among non-Hispanic whites in 50 states and DC, the prevalence of obesity ranged from 9.0% (DC) to 30.2% (West Virginia). In five states (California, Colorado, Connecticut, Hawaii, and New Mexico) and DC, obesity prevalence was <20% (Table 2, Figure).

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Editorial Note: The prevalence of obesity in the United States has more than doubled in the past three decades, and certain racial/ethnic populations have been affected disproportionally (5,6). Data from the 2003−2004 National Health and Nutrition Examination Survey (NHANES), for which height and weight of adults aged ≥20 years are measured by survey staff members, indicated the prevalence of obesity was 45.0% among non-Hispanic blacks, 36.8% among Mexican-Americans, and 30.6% among non-Hispanic whites (6). This report found smaller prevalences, using height and weight data that were self-reported to BRFSS and, therefore, likely

TABLE 1. Prevalence* of obesity[†] among adults, by black/white race or Hispanic ethnicity, census region,[§] and sex — Behavioral Risk Factor Surveillance System surveys, United States, 2006–2008

| | | on-Hispanic 900,629) | | on-Hispanic 84,838) | | spanic 63,825) |
|---------------|------|-------------------------|------|------------------------|------|-------------------|
| Census region | % | (95% CI [¶]) | % | (95% CI) | % | (95% CI) |
| Overall | | | | | | |
| Both sexes | 23.7 | (23.5–23.9) | 35.7 | (35.0-36.3) | 28.7 | (28.0-29.5) |
| Men | 25.4 | (25.1–25.7) | 31.6 | (30.6–32.7) | 27.8 | (26.7–28.9) |
| Women | 21.8 | (21.6–22.1) | 39.2 | (38.5–40.0) | 29.4 | (28.5–30.3) |
| Northeast | | | | | | |
| Both sexes | 22.6 | (22.2-23.0) | 31.7 | (30.0-33.4) | 26.6 | (25.0-28.3) |
| Men | 25.0 | (24.4–25.6) | 26.5 | (24.0–29.1) | 26.9 | (24.3–29.6) |
| Women | 20.0 | (19.6–20.5) | 36.1 | (34.0–38.3) | 26.0 | (24.1–28.0) |
| Midwest | | | | | | |
| Both sexes | 25.4 | (25.1-25.8) | 36.3 | (34.9-37.9) | 29.6 | (27.4-31.9) |
| Men | 27.0 | (26.5–27.6) | 32.1 | (29.7–34.5) | 29.7 | (26.4–33.1) |
| Women | 23.8 | (23.3–24.2) | 40.1 | (38.3–42.0) | 29.2 | (26.6–31.9) |
| South | | | | | | |
| Both sexes | 24.4 | (24.1–24.7) | 36.9 | (36.2-37.7) | 29.2 | (28.1 - 30.3) |
| Men | 26.3 | (25.8–26.8) | 32.6 | (31.4–33.9) | 28.3 | (26.6–30.1) |
| Women | 22.5 | (22.1–22.9) | 40.6 | (39.7–41.5) | 29.7 | (28.3–31.1) |
| West | | | | | | |
| Both sexes | 21.0 | (20.6-21.5) | 33.1 | (29.7-36.7) | 29.0 | (27.7-30.3) |
| Men | 22.1 | (21.5–22.8) | 34.1 | (29.0–39.6) | 27.3 | (25.5–29.2) |
| Women | 19.8 | (19.3–20.4) | 32.0 | (28.2–36.1) | 30.4 | (28.7–32.1) |

^{*} Age adjusted to the 2000 U.S. standard population.

[†] Body mass index (BMI) ≥30.0; BMI was calculated from self-reported weight and height (weight [kg] / height [m²]).

[§] Additional information available at http://www.census.gov.

[¶]Confidence interval.

TABLE 2. State-specific percentage* of adults categorized as obese,† by black/white race or Hispanic ethnicity — Behavioral Risk Factor Surveillance System surveys, United States, 2006–2008

| | White, n | on-Hispanic | Black, n | on-Hispanic | Hi | spanic |
|-----------------------------|----------|------------------------|----------|-------------|------|---------------|
| State/Area | % | (95% CI [§]) | % | (95% CI) | % | (95% CI) |
| Alabama | 27.3 | (25.9–28.6) | 40.4 | (38.0-42.8) | 29.0 | (21.5-38.0) |
| Alaska | 25.0 | (23.3-26.8) | 30.8 | (20.5-43.4) | 30.8 | (21.7-41.7) |
| Arizona | 21.7 | (19.9–23.7) | 35.9 | (26.0-47.2) | 31.4 | (27.8-35.1) |
| Arkansas | 27.1 | (26.0–28.2) | 37.6 | (34.4-41.0) | 25.5 | (21.4-30.2) |
| California | 19.8 | (18.9–20.8) | 34.3 | (29.6-39.3) | 29.2 | (27.6–30.9) |
| Colorado | 16.2 | (15.6–16.8) | 26.2 | (22.3–30.4) | 25.1 | (23.3–27.0) |
| Connecticut | 19.9 | (18.9–20.9) | 31.2 | (27.9–34.8) | 24.6 | (21.8–27.7) |
| Delaware | 24.3 | (23.0–25.7) | 39.2 | (35.7–42.9) | 29.0 | (22.1–37.0) |
| District of Columbia | 9.0 | (8.2–10.0) | 32.9 | (31.2–34.7) | 22.6 | (18.4–27.3) |
| Florida | 20.9 | (20.0–21.8) | 35.1 | (32.4–37.9) | 26.0 | (23.8–28.4) |
| Georgia | 23.5 | (22.5–24.5) | 36.0 | (33.9–38.2) | 26.1 | (21.4–31.5) |
| Hawaii | 16.4 | (15.1–17.9) | 26.0 | (17.4–36.9) | 26.7 | (23.5–30.1) |
| daho | 23.6 | (22.6–24.5) | ¶ | _ | 28.7 | (25.1–32.7) |
| llinois | 23.4 | (22.4–24.3) | 33.3 | (30.2–36.5) | 30.7 | (27.0–34.7) |
| ndiana | 26.1 | (25.1–27.1) | 35.7 | (32.1–39.5) | 26.6 | (21.9–31.9) |
| owa | 25.5 | (24.6–26.5) | 35.7 | (28.7–43.3) | 27.5 | (22.3–33.5) |
| Kansas | 25.7 | (24.9–26.5) | 39.8 | (35.4–44.3) | 31.7 | (28.5–35.2) |
| Kentucky | 27.4 | (26.4–28.5) | 38.5 | (33.2–44.1) | 27.0 | (20.4–34.9) |
| ouisiana | 24.9 | (24.0–25.9) | 35.9 | (34.0–37.8) | 24.4 | (19.9–29.6) |
| Maine | 23.6 | (22.7–24.5) | 45.1 | (31.4–59.5) | 27.8 | (20.3–36.8) |
| | 22.4 | (21.6–23.3) | 34.0 | (32.1–36.0) | 21.0 | (17.5–25.0) |
| /laryland /lassachusetts | 20.0 | (19.3–20.7) | 30.0 | (27.2–33.1) | 27.1 | (24.7–29.5) |
| /lichigan | 26.2 | (25.3–27.1) | 37.4 | (34.6–40.2) | 31.2 | (25.4–37.5) |
| _ | | (23.3–27.1) | | , | | , |
| /linnesota | 24.3 | , | 32.5 | (26.8–38.7) | 27.9 | (20.9–36.1) |
| /lississippi | 27.6 | (26.5–28.7) | 40.4 | (38.8–42.1) | 26.0 | (20.1–33.0) |
| Missouri | 26.5 | (25.3–27.8) | 36.1 | (32.1–40.2) | 28.8 | (22.2–36.3) |
| /lontana | 21.0 | (20.0–21.9) | _ | (22.2.12.2) | 22.9 | (17.5–29.5) |
| Nebraska | 25.7 | (24.8–26.6) | 35.9 | (28.8–43.6) | 29.0 | (25.0–33.3) |
| Nevada | 22.8 | (21.3–24.3) | 28.7 | (22.8–35.3) | 29.1 | (26.0–32.5) |
| lew Hampshire | 22.9 | (22.1–23.8) | 23.0 | (13.2–36.8) | 32.3 | (25.4–40.0) |
| New Jersey | 21.9 | (20.9–22.9) | 33.0 | (30.5–35.6) | 24.1 | (21.8–26.5) |
| New Mexico | 19.5 | (18.3–20.8) | 31.9 | (24.1-41.0) | 27.6 | (26.1–29.1) |
| lew York | 22.8 | (21.9–23.8) | 29.7 | (27.0–32.5) | 27.1 | (24.5–29.9) |
| North Carolina | 24.9 | (24.2-25.7) | 38.8 | (37.0-40.6) | 25.3 | (22.5-28.2) |
| North Dakota | 25.1 | (24.1–26.1) | _ | _ | 31.9 | (23.6-41.5) |
| Ohio | 26.6 | (25.5–27.8) | 42.5 | (38.6-46.5) | 25.9 | (20.9-31.6) |
| Oklahoma | 27.3 | (26.4–28.3) | 32.7 | (29.6-36.0) | 30.7 | (27.0-34.7) |
| Dregon | 24.6 | (23.6-25.7) | 41.6 | (30.5-53.7) | 23.0 | (19.0-27.5) |
| Pennsylvania | 25.0 | (24.1-25.9) | 36.5 | (33.0-40.2) | 31.3 | (26.2 - 36.7) |
| Rhode Island | 20.1 | (19.1–21.2) | 30.1 | (25.1-35.5) | 26.0 | (22.7-29.6) |
| South Carolina | 25.1 | (24.1–26.1) | 38.8 | (36.9-40.6) | 27.0 | (22.1 - 32.6) |
| South Dakota | 25.3 | (24.4-26.3) | _ | | 28.6 | (22.0 - 36.3) |
| ennessee | 27.0 | (25.7–28.2) | 38.0 | (34.1-42.1) | 36.7 | (25.6-49.5) |
| - exas | 23.5 | (22.4–24.7) | 37.8 | (34.8–41.0) | 32.3 | (30.6–34.0) |
| Jtah | 22.6 | (21.7–23.5) | 34.9 | (23.6–48.1) | 21.6 | (18.5–25.0) |
| /ermont | 21.2 | (20.5–22.0) | _ | | 24.4 | (19.2–30.5) |
| /irginia | 23.6 | (22.3–25.0) | 34.5 | (31.5-37.6) | 24.7 | (19.8–30.3) |
| Vashington | 24.0 | (23.5–24.6) | 29.7 | (25.9–33.7) | 29.9 | (27.8–32.1) |
| Vest Virginia | 30.2 | (29.1–31.3) | 36.3 | (29.7–43.6) | 26.1 | (18.2–35.8) |
| Visconsin | 24.5 | (23.5–25.6) | 36.4 | (32.2–40.8) | 27.3 | (20.1–36.1) |
| Vyoming | 22.5 | (21.7–23.4) | 36.9 | (25.5–50.1) | 28.6 | (25.0–32.5) |

^{*} Age adjusted to the 2000 U.S. standard population.

to produce underestimates. However, differences among non-Hispanic blacks, non-Hispanic whites, and Hispanics in this report were similar to those found in the NHANES study: non-Hispanic blacks had the greatest prevalence of obesity, followed by Hispanics and non-Hispanic whites.

At least three reasons might account for the differences in the prevalence of obesity among the study populations observed

[†]Body mass index (BMI) ≥30.0; BMI was calculated from self-reported weight and height (weight [kg] / height [m²]).

[§] Confidence interval.

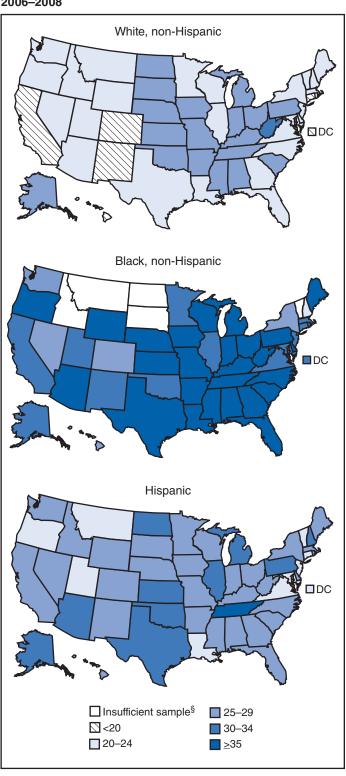
[¶] Number of respondents <50 or relative standard error ≥30%.

in this and other studies. First, racial/ethnic populations differ in behaviors that contribute to weight gain. For example, compared with non-Hispanic whites, non-Hispanic blacks and Hispanics are less likely to engage in regular (nonoccupational) physical activity (7). In addition, differences exist in attitudes and cultural norms regarding body weight. For example, according to one study, both non-Hispanic black and Hispanic women are more satisfied with their body size than non-Hispanic white women; persons who are satisfied with their body size are less likely to try to lose weight (8). Finally, certain populations have less access to affordable, healthful foods and safe locations for physical activity. Evidence suggests that neighborhoods with large minority populations have fewer chain supermarkets and produce stores and that healthful foods are relatively more expensive than energy-dense foods, especially in minority and low-income communities (9). Evidence also indicates that minority and low-income populations have less access to physical activity facilities and resources and that traffic and neighborhood safety might inhibit walking (9).

The reasons for the substantial differences among states in the prevalence of obesity among non-Hispanic blacks, non-Hispanic whites, and Hispanics are complex and not well understood. CDC currently provides funding and technical assistance to 25 states to develop their own effective obesity prevention and control programs. As part of this funding, states are implementing evidence-based policies, systems, and environmental strategies to address health disparities. For example, the New York State Department of Health uses federal and state funds to increase access to fruits and vegetables for lowincome, primarily minority populations. Program strategies include 1) participating in community-supported agriculture and delivering fresh produce to low-income areas, 2) creating mobile farmer's markets to serve low-income neighborhoods, and 3) implementing food stamp nutrition education programs designed to increase access to and consumption of fruits and vegetables. Surveyed at the end of an education series, 76% of program participants said they intended to increase consumption of fruits and vegetables at home.§

Through the Racial and Ethnic Approaches to Community Health (REACH) program, CDC funds communities to eliminate racial and ethnic disparities in health, using community-based policies, systems, and environmental approaches. For example, REACHing African Americans in Los Angeles, California, coordinates a coalition that has created a network of 35 physical activity programs, helps develop wellness programs in local workplaces, and works with city

FIGURE. State-specific percentage* of adults categorized as obese[†], by black/white race or Hispanic ethnicity — Behavioral Risk Factor Surveillance System surveys, United States, 2006–2008



^{*} Age adjusted to the 2000 U.S. standard population.

[§] Additional information available at http://www.health.state.ny.us/prevention/

[¶] Additional information available at http://www.cdc.gov/reach.

[†] Body mass index (BMI) ≥30.0; BMI was calculated from self-reported weight and height (weight [kg] / height [m²]).

[§] Number of respondents <50 or relative standard error ≥30%.

officials to provide policies that support healthy eating in under-resourced communities. As a result, the Community Redevelopment Agency has developed an incentive package to attract grocery stores, and the city council approved a proposal that prohibits new fast-food restaurants in certain under-resourced communities.**

The findings in this report are subject to at least three limitations. First, the respondent heights and weights used to calculate BMI were self-reported. The prevalences of obesity reported in this study likely are underestimated because height commonly is overreported and weight underreported (10). Second, BRFSS excludes persons without landline telephones. Evidence shows that adults living in wireless-only households tend to be younger, to have lower incomes, and to be members of minority populations, †† which might result in either underestimates or overestimates. Third, because of limited numbers of non-Hispanic black respondents in five states, valid estimates for that population could not be calculated for those states.

The high prevalence of obesity overall in the United States underscores the importance of implementing effective intervention strategies in the general population. Effective policy and environmental strategies to promote physical activity include developing communication programs and community- and street-scale urban design and land use policies, and creating or enhancing access to places for physical activity.§§ Given the significant disparities in obesity prevalence, public health officials should ensure that those populations with the greatest need are the ones that benefit the most from these efforts and are involved in developing effective strategies for their communities. To reduce disparities among populations in the prevalence of obesity, an effective public health response is needed that includes surveillance, policies, programs, and supportive environments achieved through the efforts of government, communities, workplaces, schools, families, and individuals.

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Tularemia – Missouri, 2000–2007

Tularemia is an uncommon but potentially fatal zoonotic disease caused by the gram-negative coccobacillus Francisella tularensis. Approximately 40% of all tularenia cases reported to CDC each year occur in Arkansas, Oklahoma, and Missouri (1). To define the epidemiologic and clinical features of tularemia in Missouri, the Missouri Department of Health and Senior Services (MDHSS) analyzed surveillance data and conducted a retrospective clinical chart review of cases that occurred during 2000–2007. This report describes the results of that analysis, which identified 190 cases (87 confirmed and 103 probable), for an average annual incidence of 0.4 cases per 100,000 population statewide. Most cases occurred during the summer months (78%) and among males (66%). Analysis of 121 clinical charts revealed that children were more likely than adults to be diagnosed with glandular tularemia, whereas adults were more likely to be diagnosed with pneumonic tularemia. Sixty-three (52%) patients were hospitalized; one patient died. Among 78 cases with a documented exposure source, 72% were associated with tick bite. In 33 (85%) of 39 culture-confirmed cases, the laboratory received specimens without any indication of suspicion of a tularemia diagnosis. Clinicians should 1) be aware of the range of tularemia symptoms, 2) consider the diagnosis in patients reporting fever and tick or animal

^{**} Additional information available at http://www.cdc.gov/reach/pdf/voices_101007.pdf.

^{††} Additional information available at http://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless200805.htm.

^{§§} Additional information available at http://www.thecommunityguide.org/ index.html.

exposure, and 3) initiate empiric antimicrobial therapy while awaiting laboratory confirmation. Laboratory staff should take appropriate precautions when processing culture specimens from tularemia-endemic regions, even if suspicion of tularemia is not noted when the specimen is submitted.

Tularemia is a nationally notifiable disease. Although tularemia was removed from the list of nationally notifiable diseases in 1994, it was reinstated in 2000 because of increased concern about potential use of *F. tularensis* as a biologic weapon (1,2). In Missouri, since 2000, clinicians and laboratories have been required to report to MDHSS cases of illness that are clinically compatible with tularemia and have presumptive or confirmed laboratory evidence of infection. The clinical presentation of tularemia ranges from cutaneous ulcers to pneumonia and depends on the mode of transmission and site of inoculation (3). Routes of F. tularensis transmission to humans include arthropod bites, contact with infected animal tissues, ingestion of contaminated food or water, and inhalation of contaminated aerosols (e.g., aerosols generated by mowing over infected animal carcasses and through improper handling of laboratory cultures).

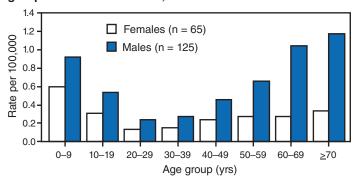
To define the epidemiologic and clinical features of tularemia in Missouri, MDHSS analyzed 190 tularemia case reports from the period 2000-2007 and conducted an independent review of 121 available clinical records (including clinician notes, laboratory results, and drug administration records) using an abstraction form modified from the CDC case report form.* Reports were included in this analysis if the diagnosis of tularemia met the National Notifiable Disease Surveillance System case definition.[†] The primary clinical form of the disease was classified according to health-care provider diagnosis and documented clinical features. For the purpose of this analysis, patients with tularemia who presented with undifferentiated febrile illness or sepsis without localizing signs (often referred to as typhoidal tularemia) were categorized as pneumonic tularemia, because these cases frequently have evidence of respiratory disease (3). Data on exposures occurring within 3 weeks of illness onset were abstracted from clinical notes; aerosol exposure was defined as exposure through inhalation of agricultural grains or dusts, or aerosols created by mowing over animal carcasses. MDHSS reviewed clinical notes of all

culture-confirmed cases to determine whether the provider had documented suspicion of tularemia by the time specimens were submitted to the laboratory. Appropriate antibiotic therapy was defined as treatment with an aminoglycoside or a fluoroquinolone for at least 10 days or a tetracycline for at least 15 days (4). The county of residence and 2000 census data were used for county incidence calculations. Continuous variables were analyzed by Student's t-tests, and categorical variables were analyzed using chi-square or Fischer's exact tests, as appropriate.

During 2000–2007, a total of 190 cases of tularemia (87 confirmed and 103 probable) were reported to MDHSS, yielding a statewide average annual incidence of 0.4 cases per 100,000 population. No increase or decrease was observed in annual trend (range: 13–32 cases per year). The majority of cases were reported from central and southwestern Missouri. The total number of cases by county for the 8-year period ranged from zero to 14, yielding average annual incidence rates that ranged up to 5.25 cases per 100,000 population. Males accounted for 125 (66%) patients; median patient age was 37 years (range: 6 months–93 years), with a distinct bimodal distribution among males (Figure 1).

Clinical records were available for 121 (64%) patients, including 59 (49%) with confirmed and 62 (51%) with probable tularemia. For the 107 (88%) cases with data on primary clinical form, ulceroglandular tularemia was the most common overall (42%). The distribution of clinical form differed significantly between children and adults (p<0.01). Children were

FIGURE 1. Average annual incidence rate of tularemia, by age group and sex* — Missouri, 2000–2007



^{*} Among 190 total cases. Reports were included in this analysis if the diagnosis of tularemia met the National Notifiable Disease Surveillance System case definition. A confirmed case was defined as clinically compatible illness with isolation of *F. tularensis* from a clinical specimen or a fourfold or greater change in paired serum antibody titers to *F. tularensis* antigen between acute and convalescent samples. A probable case was defined as clinically compatible illness with detection of *F. tularensis* in a clinical specimen by fluorescent assay or a single elevated serum antibody titer to *F. tularensis* antigen, as determined by individual laboratory cutoff values. Case definitions available at http://www.cdc.gov/ncphi/disss/nndss/casedef/tularemia_current.htm. Age-specific and sex-specific incidence calculated using 2000 census data.

^{*}CDC tularemia case report form available at http://www.cdc.gov/tularemia/tul_pubhealthofficials.html.

[†] A confirmed case was defined as clinically compatible illness with isolation of *F. tularensis* from a clinical specimen or a fourfold or greater change in paired serum antibody titers to *F. tularensis* antigen between acute and convalescent samples. A probable case was defined as clinically compatible illness with detection of *F. tularensis* in a clinical specimen by fluorescent assay or a single elevated serum antibody titer to *F. tularensis* antigen, as determined by individual laboratory cutoff values. Case definitions available at http://www.cdc.gov/ncphi/disss/nndss/casedef/tularemia_current.htm.

diagnosed with glandular tularemia more than twice as often as adults, whereas adults were diagnosed with the pneumonic form 10 times as often as children (Table).

For the 26 cases categorized as pneumonic tularemia based on clinical features, 12 (46%) had recorded exposures, of which six were inhalational (four patients worked with grain or hay; two mowed over dead animals) and six were tick exposures (without lesions or lymphadenopathy). Ten (38%) patients had cough, and seven (27%) had shortness of breath or chest pain.

The mean initial temperature documented in clinical record was 100.7°F (38.2°C) (range: 98.0–105.0°F [36.7–40.6°C]). Among the 16 patients for whom initial chest radiograph reports were available, six (38%) reports were normal, six (38%) noted unilateral pulmonary infiltrates, and four (25%) noted pleural effusions. Two (13%) patients developed empyema, and two (13%) developed generalized sepsis.

Eighty (66%) of the 121 patients had an uneventful clinical course with full recovery, 40 (33%) patients had a complicated

TABLE. Number and percentage of human tularemia cases among children (aged ≤18 years) and adults, by year of diagnosis, exposure source, primary clinical form, treatment prescribed, and outcome — Missouri, 2000–2007*

| | Chi | ldren | Ac | dults | T | otal |
|---|-----|---------|-----|-------|-----|-------|
| Characteristic | No. | (%) | No. | (%) | No. | (%) |
| Year of diagnosis | 73 | (100) | 117 | (100) | 190 | (100) |
| 2000 | 9 | (12) | 14 | (12) | 23 | (12) |
| 2001 | 11 | (15) | 14 | (11) | 25 | (13) |
| 2002 | 6 | (8) | 10 | (9) | 16 | (9) |
| 2003 | 15 | (21) | 15 | (13) | 30 | (16) |
| 2004 | 8 | (11) | 18 | (16) | 26 | (14) |
| 2005 | 6 | (8) | 19 | (16) | 25 | (13) |
| 2006 | 4 | (6) | 9 | (8) | 13 | (7) |
| 2007 | 14 | (19) | 18 | (16) | 32 | (17) |
| Exposure source [†] | 34 | (100) | 44 | (100) | 78 | (100) |
| Tick bite | 26 | (76) | 30 | (68) | 56 | (72) |
| Animal/animal tissue contact | 2 | (6) | 4 | (9) | 6 | (8) |
| Agricultural or lawnmowing aerosols§ | 0 | (0) | 6 | (14) | 6 | (8) |
| Multiple exposure sources | 6 | (18) | 4 | (9) | 10 | (13) |
| Primary clinical form ¹ | 45 | (100)** | 62 | (100) | 107 | (100) |
| Ulceroglandular | 19 | (42) | 26 | (42) | 45 | (42) |
| Glandular | 20 | (44) | 10 | (16) | 30 | (28) |
| Pneumonic | 2 | (4) | 24 | (39) | 26 | (24) |
| Oculoglandular | 3 | (7) | 1 | (2) | 4 | (4) |
| Oropharyngeal | 1 | (2) | 1 | (2) | 2 | (2) |
| Treatment prescribed†† | 47 | (100) | 62 | (100) | 109 | (100) |
| Tetracyclines | 8 | (17) | 45 | (71) | 53 | (49) |
| Aminoglycosides | 29 | (62) | 22 | (35) | 51 | (47) |
| Fluoroquinolones | 18 | (38) | 27 | (44) | 45 | (41) |
| Ineffective antibiotics§§ | 40 | (82) | 42 | (58) | 82 | (75) |
| Outcome | 49 | (100) | 72 | (100) | 121 | (100) |
| No complications | 35 | (71) | 45 | (63) | 80 | (66) |
| Required surgical intervention | 9 | (18) | 8 | (11) | 17 | (14) |
| Developed more severe secondary form of tularemia | 0 | (0) | 7 | (10) | 7 | (6) |
| Recurrence of disease¶¶ | 4 | (8) | 3 | (4) | 7 | (6) |
| Severe organ dysfunction | 0 | (0) | 6 | (8) | 6 | (5) |
| Multiple complications | 1 | (2) | 2 | (3) | 3 | (2) |
| Died | 0 | (0) | 1 | (1) | 1 | (1) |

^{*} Data on year of diagnosis are for 190 tularemia cases reported to the Missouri Department of Health and Senior Services during 2000–2007. Data on exposure source, primary clinical form, treatment prescribed, and outcome were abstracted from available clinical charts of 121 of these cases. Reports were included in this analysis if the diagnosis of tularemia met the National Notifiable Disease Surveillance System case definition. A confirmed case was defined as clinically compatible illness with isolation of *F. tularensis* from a clinical specimen or a fourfold or greater change in paired serum antibody titers to *F. tularensis* antigen between acute and convalescent samples. A probable case was defined as clinically compatible illness with detection of *F. tularensis* in a clinical specimen by fluorescent assay or a single elevated serum antibody titer to *F. tularensis* antigen, as determined by individual laboratory cutoff values. Case definitions available at http://www.cdc.gov/ncphi/disss/nndss/casedef/tularemia_current.htm.

[†] Exposure source as documented by the health-care provider in the patient chart.

[§] Lawnmowing aerosols generated by mowing over an animal carcass.

¹ Categorization of primary clinical form based on the recorded history, examination, and health-care provider assessment.

^{**} Percentages do not sum to 100% because of rounding.

^{††} Treatment by antimicrobial class; not mutually exclusive.

^{§§} Beta-lactams, macrolides, and lincosamides are not considered effective for treatment of tularemia (4).

The Recurrence of disease after a course of an effective antimicrobial drug.

clinical course, and one patient died of sepsis (Table). Sixty-three (52%) of the 121 patients were hospitalized (median duration: 4 days [range: 1–27 days]). Three patients with pneumonic and one patient with ulceroglandular tularemia were admitted to an intensive-care unit. Six patients with glandular and two with pneumonic tularemia were rehospitalized because of relapse or other complications. Among 17 (14%) patients who required surgical intervention, 15 had suppurated lymph nodes requiring incision and drainage, and two developed a loculated empyema requiring thoracotomy and decortication.

Information on antimicrobial treatment was available for 109 patients; 97 (89%) received at least one appropriate antibiotic to treat tularemia (4) (Table), and the remaining 12 (11%) were treated with combinations of antibiotics that are considered ineffective against tularemia. Among 14 patients initially treated with 10 days of ciprofloxacin monotherapy, 12 (86%) recovered completely, whereas two (14%) experienced persistence of symptoms. Of 73 patients for whom sufficient data were available, the median interval between onset of symptoms and commencement of an effective antimicrobial was 14 days (range: 0–82 days). The incidence of complications was not related to age, sex, or the timing of effective therapy.

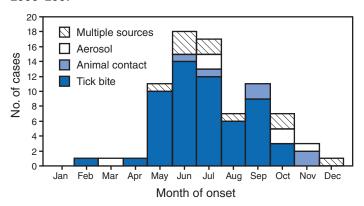
The total number of specimens submitted for culture and serology could not be determined; however, of the 57 confirmed cases, 39 (68%) had positive cultures, most commonly from blood, lymph nodes, or lesions, and 18 (32%) had a fourfold or greater difference in paired serum antibody titers. All probable cases were diagnosed based on a single elevated serum antibody titer to *E. tularensis*. Among the 39 culture-confirmed cases, 33 (85%) laboratory results were available before the health-care provider documented a suspicion of tularemia in the clinical record.

Among 78 cases for which exposure was known, tick bites were the most commonly noted exposures (72%) (Table), and 80% of tick bite exposures occurred during May–September. Cases associated with other exposures did not show a distinct seasonal trend (Figure 2). Animal and aerosol exposures accounted for 16% of cases, with aerosol exposures reported only for adults.

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Editorial Note: With fewer than 200 incident cases reported annually in the United States, tularemia is an uncommon but serious human illness that is best prevented through the use of personal protective measures. The seasonal, age, and sex distributions of cases described in this report are consistent with

FIGURE 2. Number of tularemia cases (N = 78), by month of onset and presumptive exposure source* — Missouri, 2000–2007



* Data on presumptive exposure source were abstracted as available from clinical charts of 121 cases reported in Missouri during 2000–2007. Reports were included in this analysis if the diagnosis of tularemia met the National Notifiable Disease Surveillance System case definition. A confirmed case was defined as clinically compatible illness with isolation of *F. tularensis* from a clinical specimen or a fourfold or greater change in paired serum antibody titers to *F. tularensis* antigen between acute and convalescent samples. A probable case was defined as clinically compatible illness with detection of *F. tularensis* in a clinical specimen by fluorescent assay or a single elevated serum antibody titer to *F. tularensis* antigen, as determined by individual laboratory cutoff values. Case definitions available at http://www.cdc.gov/ncphi/disss/nndss/casedef/tularemia_current.htm.

national surveillance data (1). However, this report identifies age-specific differences in diagnosed clinical form that have not been documented previously, and suggests a higher proportion of tick-associated cases than earlier studies of tularemia in this region (5,6). The observed peaks in tick-associated cases in June and September coincide with periods of activity of questing nymphal ticks in spring and adults in late summer in Missouri. The findings in this report might not be representative of other areas of the United States because of differences in clinician or public awareness and exposure risk. Patients reporting fever and tick, animal, or aerosol (e.g., agricultural, lawnmowing, and laboratory aerosols) exposure should be evaluated promptly for infection with F. tularensis. Because F. tularensis takes several days to culture and seroconversion occurs 10-20 days after infection (4), the initiation of empiric antimicrobial therapy should not be delayed pending laboratory confirmation. Naturally occurring tularemia usually is sporadic, occurs in rural areas, and manifests as either ulceroglandular or glandular illness. An intentional aerosolized release might result in clusters of illness, occur in urban areas, and be characterized by a higher proportion of pneumonic disease (7). For this reason, cases of pneumonic tularemia should be reported urgently to local and state health departments and CDC.

F. tularensis is highly infectious when grown in culture (8); therefore, appropriate infection-control measures are needed to prevent laboratory-acquired infection. Although 85% of

culture-confirmed cases described in this report were handled and processed before documented clinical concern for tularemia, no laboratory-acquired cases were identified. Diagnostic procedures with clinical materials can be performed in biosafety level 2 conditions; however, all work with suspect cultures of *F. tularensis* should be performed in a biosafety cabinet (*9*). Manipulation of cultures and other procedures that might produce aerosols or droplets (e.g., grinding, centrifuging, vigorous shaking, and animal studies) should be conducted under biosafety level 3 conditions (*9*). The state public health laboratory and public health department should be consulted immediately if tularemia is suspected (*9*). Moreover, laboratorians are encouraged to take appropriate precautions when processing culture specimens from endemic regions, even if suspicion of tularemia is not noted on the request form.

Currently, only aminoglycosides, tetracyclines, chloramphenicol, and rifampin are approved by the Food and Drug Administration for treatment of tularemia. Studies conducted in vitro and in animals suggest that fluoroquinolone antimicrobials are effective for treatment of *F. tularensis* infections (10), and drugs of this class have been included in the Strategic National Stockpile for potential use in the event of a bioterrorist attack (2). Although additional systematic information is needed regarding the efficacy of fluoroquinolones for treatment of tularemia, the 86% cure rate among patients receiving fluoroquinolone monotherapy described in this report is comparable with rates previously reported for gentamicin and doxycycline (10).

The findings in this report are subject to at least three limitations. First, although no differences were noted with respect to age, sex, year of diagnosis, or county of residence between patients for whom clinical records were and were not available, these groups might have differed with respect to other variables. Second, data on the full range of exposure and clinical variables were not available for all clinical charts. Finally, inter-laboratory thresholds for titer levels reported as positive might have led to variability in case detection across counties.

In 2003, MDHSS initiated a public awareness campaign on tick bite prevention. Outreach to hunters included billboard placement near state parks and an educational mailing to all hunting and fishing license registration sites. Tularemia experts participated in public media awareness events, and additional radio and print materials were made available to local public health agencies, a network of senior citizen sites, and the general public.

The prevention of tularemia requires educating those at greatest risk for exposure (e.g., hikers, campers, and hunters). The use of protective clothing, repellents containing DEET (N,N-dimethyl-meta-toluamide), and pesticides (e.g., permethrin) on clothing can help reduce the risk for exposure

through tick and arthropod bites (*3*). Hunters and others who handle potentially infected animals should wear gloves to avoid introduction of *F. tularensis* through cuts or abrasions, and game meat should always be cooked thoroughly. To reduce the risk for aerosol exposures, grassy areas should be surveyed before mowing and any dead animals removed. Persons facing potential occupational risks such as agricultural and laboratory workers should follow safe practice guidelines.§

Acknowledgments

This report is based, in part, on contributions by D Pratt, F Fick, J Bos, P Franklin, A Grimm, C Butler, P Kishore Molakatalla, and A Turner of the Missouri Dept of Health and Senior Svcs; and K Kugeler and J Petersen, Div of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases, CDC.

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[§] Additional information available at http://www.cdc.gov/niosh/topics/tick-borne.

Intensive-Care Patients With Severe Novel Influenza A (H1N1) Virus Infection — Michigan, June 2009

On July 10, 2009, this report was posted as an MMWR Dispatch on the MMWR website (http://www.cdc.gov/mmwr).

In April 2009, CDC reported the first two cases in the United States of human infection with a novel influenza A (H1N1) virus (1). As of July 6, a total of 122 countries had reported 94,512 cases of novel influenza A (H1N1) virus infection, 429 of which were fatal; in the United States, a total of 33,902 cases were reported, 170 of which were fatal.* Cases of novel influenza A (H1N1) virus infection have included rapidly progressive lower respiratory tract disease resulting in respiratory failure, development of acute respiratory distress syndrome (ARDS), and prolonged intensive care unit (ICU) admission (2). Since April 26, communitywide transmission of novel influenza A (H1N1) virus has occurred in Michigan, with 655 probable and confirmed cases reported as of June 18 (Michigan Department of Community Health [MDCH], unpublished data, 2009). This report summarizes the clinical characteristics of a series of 10 patients with novel influenza A (H1N1) virus infection and ARDS at a tertiary-care ICU in Michigan. Of the 10 patients, nine were obese (body mass index [BMI] ≥30), including seven who were extremely obese (BMI ≥40); five had pulmonary emboli; and nine had multiorgan dysfunction syndrome (MODS). Three patients died. Clinicians should be aware of the potential for severe complications of novel influenza A (H1N1) virus infection, particularly in extremely obese patients.

The surgical intensive care unit (SICU) at the University of Michigan Health System (UMHS) specializes in the evaluation of adult patients with severe ARDS for advanced mechanical ventilation and possible extracorporeal membrane oxygenation (ECMO). During May 26–June 18, the unit received 13 patients for evaluation from outlying hospitals, 10 of whom were confirmed to have novel influenza A (H1N1) virus infection by testing of respiratory specimens with real-time reverse transcription–polymerase chain reaction (rRT-PCR) at MDCH and CDC. Direct immunofluorescent antibody staining at UMHS was negative for influenza A in all 10 patients. Viral culture at UMHS was positive for influenza A in two patients. All 10 patients were referred to the SICU because of

severe hypoxemia, ARDS, and an inability to achieve adequate oxygenation with conventional ventilation modalities. Medical records of all 10 patients were reviewed for demographics, case characteristics, clinical findings, and clinical course.

Illness onset of the 10 patients occurred during May 22–June 13. The median age was 46 years (range: 21–53 years); nine patients were obese, including seven who were extremely obese (Table). In the three fatal cases, the time from illness onset to death ranged from 17 to 30 days. Four patients received steroids during their illness before transfer to the SICU; two with asthma received oral steroids as outpatients during the initial evaluation and treatment of their acute respiratory illness (one was on chronic oral steroids for underlying lung disease, and one without chronic pulmonary disease was prescribed oral steroids and oral antimicrobials). Five patients received intravenous corticosteroids during their SICU hospitalization: four for treatment of severe vasopressor-dependent refractory septic shock, and one for continuation of therapy for chronic pulmonary disease.

All 10 patients required initial advanced mechanical ventilation (high-frequency oscillatory or bilevel ventilation with high mean airway pressures [32–55 cm H₂0]). Two patients required veno-venous ECMO support. Six required continuous renal replacement therapy (CRRT) for acute renal failure. Upon transfer to the SICU, five had elevated white blood cell counts, and one had a decreased white blood cell count. The median white blood cell count (WBC) was 9,500 cells/mm³ (range: 3,700–19,700 cells/mm³; normal: 4,000–10,000 cells/mm³). All ten patients had elevated aspartate transaminase (AST) levels. The median AST level was 83.5 IU/L (range: 41-109 IU/L; normal: 8–30 IU/L). Six of the nine patients who were tested had elevated creatine phosphokinase (CPK) levels. The median CPK level was 999 IU/L (range: 51-6,572 IU/L; normal: 38-240 IU/L). Nine patients were admitted to the SICU with MODS, and nine manifested septic shock requiring vasopressor support. All 10 patients required tracheostomy.

Chest radiograph findings in all 10 patients were abnormal, with bilateral infiltrates consistent with severe multilobar pneumonia or ARDS. Computed tomography (CT) of the chest confirmed pulmonary emboli in four patients at admission to the SICU and in one additional patient who deteriorated 6 days after admission to the SICU. A hypercoagulable state was evident in two additional patients. One of these patients had frequent clotting of the CRRT circuit despite regional citrate anticoagulation. Another patient had bilateral iliofemoral deep venous thromboses, necessitating systemic heparin anticoagulation. None of the 10 patients had evidence of concomitant disseminated intravascular coagulation by laboratory studies.

As of July 8, none of the 10 patients had evidence of bacterial infection after admission to the SICU or in subsequent blood,

^{*}Information on the number of cases of novel influenza A (H1N1) virus infection worldwide is available from the World Health Organization at http://www.who.int/csr/don/2009_07_06/en/index.html. Information on the number of cases of novel influenza A (H1N1) virus infection in the United States is available from CDC at http://www.cdc.gov/h1n1flu/update.htm.

TABLE. Selected characteristics of intensive-care patients with severe novel influenza A (H1N1) virus infection — Michigan, June 2009

| | | | | | | No. days between onset | No. days between illness | | | | | |
|---------|-----|-----|------------------------------------|---|------|------------------------------|--------------------------------|---------------------|-----|--------|----------|--------------------------|
| | Age | | Underlying | | | and first hospital- | onset and SICU [†] | Advanced mechanical | Dia | gnosis | Vaso- | |
| Patient | | Sex | conditions | Initial signs or symptoms | ВМІ* | ization | admission | ventilation | PE§ | MODS | pressors | Outcome** |
| 1 | 28 | М | Asthma | High fever, cough, sore throat that progressed to blood-tinged sputum, decreasing mental status | 34.2 | 7 | 8 | HFOV†† | Yes | Yes | Yes | Death |
| 2 | 21 | М | None | Fever, sore throat, dry cough, sneezing; progressed to tachypnea and dyspnea | 50.5 | 7 | 8 | Bilevel | Yes | Yes | Yes | Improved, transferred |
| 3 | 48 | F | Asthma, smoker | Shortness of breath, rhinorrhea, non-productive cough | 58.9 | 5 | 9 | HFOV | No | Yes | Yes | Improved, transferred |
| 4 | 35 | М | None | Upper respiratory tract illness symptoms | 51.7 | 6 | 8 | HFOV | Yes | No | No | Improved, transferred |
| 5 | 43 | М | None | Fever, cough, malaise, chills, sweats | 48.7 | 4 | 5 | HFOV to ECMO§§ | Yes | Yes | Yes | Death |
| 6 | 52 | М | None | Sinus drainage, cough with clear sputum production, decreased appetite | NA¶ | 6 | 13 | HFOV | Yes | Yes | Yes | Improved, transferred |
| 7 | 44 | М | None | Fever, productive cough with black/red sputum, nausea, vomiting, diarrhea | 50.2 | 5 | 7 | HFOV | No | Yes | Yes | Death |
| 8 | 51 | M | Granulomatous chronic lung disease | Fever, worsening dyspnea, rigors, nausea, vomiting, malaise | 39.7 | 1 | 9 | HFOV to ECMO | No | Yes | Yes | ECMO plus ventilator |
| 9 | 53 | М | None | Fever, chills, cough, shortness of breath | 38.5 | 7 | 16 | HFOV | No | Yes | Yes | Improved, transferred |
| 10 | 53 | М | None | Fever, cough | 47.8 | 6 | 6 | HFOV | No | Yes | Yes | HFOV |

^{*} Body mass index. Based on admitting weight at University of Michigan Health System surgical intensive care unit.

bronchoalveolar lavage, or urine cultures. All patients received antibiotic therapy upon admission to the initial hospitals, and broad spectrum antibiotics were continued upon transfer to the SICU.

The timing of antiviral treatment initiation was difficult to determine because patients were transferred from other hospitals; however, the estimated median number of days from illness onset to initiation of antiviral treatment was 8 days (range: 5–12 days). During their care at the SICU, all 10 patients were administered oseltamivir and amantadine beyond the standard 5-day course, including higher-dose oseltamivir (up to 150 mg orally twice a day), with dose adjustment for decreased renal function.

As of July 8, one patient remained in the SICU requiring ECMO, one remained on advanced mechanical ventilation, five were transferred back to the referring facility in stable condition, and three had died. Autopsies were performed on two patients; results in both patients confirmed bilateral severe hemorrhagic viral pneumonitis with interstitial inflam-

mation and diffuse alveolar damage and concurrent bilateral pulmonary emboli.

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Editorial Note: This report describes the clinical findings of a limited series of patients with novel influenza A (H1N1) virus infection and refractory ARDS admitted to a tertiary-care ICU for advanced mechanical ventilation. This patient group represents the most severely ill subset of persons with novel influenza A (H1N1) virus infection and is notable for the predominance of males, the high prevalence of obesity (especially extreme obesity), and the frequency of clinically significant pulmonary emboli and MODS. All required advanced mechanical ventilator support, reflecting severe pulmonary

[†] Surgical intensive care unit.

[§] Pulmonary emboli.

[¶] Multiorgan dysfunction syndrome.

^{**} As of July 8, 2009.

^{††} High-frequency oscillatory ventilation.

^{§§} Extracorporeal membrane oxygenation.
¶Not available. Height unknown; weight = 72 kg.

damage. The pulmonary compromise described in this report suggests that severe pulmonary damage occurred as a result of primary viral pneumonia. Although data are not available, this damage also might be attributable to secondary host immune responses (e.g., through cytokine dysregulation triggered by high viral replication). However, bacterial coinfection in the lung not identified by blood culture or bronchoalveolar lavage cannot be excluded.

Only three of the patients in this series had underlying conditions associated with a higher risk for seasonal influenza complications. Conditions associated with an increased risk for complications from seasonal influenza include extremes of age, pregnancy, chronic underlying medical conditions (e.g., pulmonary, cardiovascular, hepatic, hematologic, neurologic, and neuromuscular conditions and metabolic disorders or immunosuppression), long-term aspirin therapy in persons aged ≤ 18 years, and being a resident of a nursing home or other chronic-care facility (3). However, fatal disease associated with novel influenza A (H1N1) virus infection has occurred among persons without these conditions who previously were healthy (2).

The high prevalence of obesity in this case series is striking. Whether obesity is an independent risk factor for severe complications of novel influenza A (H1N1) virus infection is unknown. Obesity has not been identified previously as a risk factor for severe complications of seasonal influenza. In a mouse model, diet-induced obese mice had significantly higher mortality when infected with seasonal influenza virus compared with their leaner counterparts (4). In addition, extremely obese patients have a higher prevalence of comorbid conditions that confer higher risk for influenza complications, including chronic heart, lung, liver, and metabolic diseases.

One study of patients admitted to critical-care units indicated that obesity was an independent risk factor for mortality (5). A meta-analysis concluded that prolonged duration of mechanical ventilation and longer SICU length of stay, but not mortality, are associated with obesity (6). Another study reported that extremely obese ICU patients had higher rates of mortality, nursing home admission, and ICU complications compared with moderately obese patients (BMI 30–39) (7). Further investigations of the role of extreme obesity and accompanying comorbidities in severely ill patients with novel influenza A (H1N1) virus infection are needed.

Pulmonary emboli are not known to be a common complication of ARDS or of sepsis syndrome, but both ARDS and sepsis represent hypercoagulable states (8). Pulmonary emboli were not noted in patients hospitalized with novel influenza A (H1N1) virus infection in Mexico (3). One clinical study did not identify any increased risk for pulmonary embolism

with seasonal influenza virus infection (9). However, a report of two patients with rapidly progressive hypoxemia associated with influenza A (H3N2) virus infection noted that they received a diagnosis of acute pulmonary embolism (10). Clinicians providing care to patients with novel influenza A (H1N1) virus infection should be aware of the potential for patients with ARDS to develop a hypercoagulable state and for pulmonary emboli to cause severe complications, including fatal outcomes.

Two observational studies have demonstrated a reduction in mortality with oseltamivir treatment among hospitalized patients with seasonal influenza compared with untreated patients (11,12). Although early antiviral treatment (<48 hours from illness onset) is optimal to reduce illness among outpatients with seasonal influenza (13), a reduction in mortality of hospitalized persons with seasonal influenza or avian influenza A (H5N1) virus infection was reported even when oseltamivir treatment was initiated later (11,14). Early antiviral treatment of hospitalized patients with suspected influenza is recommended, including for patients admitted ≥ 48 hours after illness onset (13).

The patients in this series received higher oseltamivir dosing and longer duration of treatment than standard therapy. Data to inform clinical guidance are needed on viral shedding, pharmacokinetics, and clinical effectiveness of standard versus higher-dose oseltamivir treatment and on optimal duration of therapy for patients, including obese persons, with severe or progressive novel influenza A (H1N1) virus infection. Limited data for seasonal influenza treatment suggest that doubling the oseltamivir dose is well-tolerated with a comparable adverse event profile as the standard adult dose (75 mg orally twice a day) (15). Higher oseltamivir dosing and longer duration of treatment has been suggested for H5N1 (avian influenza) patients with severe pulmonary disease (14). Until additional data are available, higher oseltamivir dosage (e.g., 150 mg orally twice a day for adults) or extending the duration of treatment can be considered for severely ill hospitalized patients with novel influenza A (H1N1) virus infection.

Further characterization of severe cases of novel influenza A (H1N1) virus infection in the United States and worldwide is needed to determine the frequency of the findings from this limited case-series. Clinicians caring for patients with suspected novel influenza A (H1N1) virus infection should monitor them closely for rapid clinical deterioration, especially with regard to increasing oxygenation requirements and potential for development of complications (e.g., respiratory failure, ARDS, multiorgan failure, septic shock, and pulmonary emboli). Empiric antiviral treatment is recommended for all hospitalized patients at admission with suspected novel influenza A (H1N1) virus

infection, † including persons who have received a diagnosis of community-acquired pneumonia. Empiric antibiotic agents also should be used as appropriate for suspected bacterial infection. Depending on the antiviral susceptibilities of circulating influenza A virus strains, either zanamivir monotherapy or combination therapy with oseltamivir (for treatment of novel influenza A [H1N1] virus infection) and rimantadine (for treatment of oseltamivir-resistant seasonal influenza A [H1N1]) might be indicated in hospitalized patients until final virus identification is available. In communities in which novel influenza A (H1N1) virus is the predominant circulating influenza virus, oseltamivir or zanamivir should be administered as early as possible to hospitalized patients with suspected novel influenza A (H1N1) virus infection, even before diagnostic testing results are available. Clinicians should be aware that negative results of rapid influenza diagnostic tests, immunoflouresence, or viral culture do not exclude the possibility of novel influenza A (H1N1) virus infection. Although five patients in this case-series received corticosteroids, their role in the management of severely ill patients with novel influenza A (H1N1) virus infection is unclear, and routine corticosteroid use is not recommended.§

Many hospitalized patients with novel influenza A (H1N1) virus infection have had underlying comorbidities recognized to be high-risk conditions for complications of seasonal influenza. However, clinicians should be aware that severe illness and fatal outcomes also can occur in patients without known risk factors for complications of seasonal influenza, including persons with extreme obesity.

† Interim guidance on antiviral recommendations for patients with novel influenza A (H1N1) virus infection and their close contacts is available from CDC at http://www.cdc.gov/h1n1flu/recommendations.htm.

Acknowledgment

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Notice to Readers

Epidemic Intelligence Service Application Deadline — September 15, 2009

Applications are now being accepted for CDC's July 2010–June 2011 Epidemic Intelligence Service (EIS) program. EIS is a 2-year, postgraduate program of service and on-the-job training for health professionals interested in the practice of epidemiology. Each year, EIS selects approximately 90 persons from applicants around the world and provides them with opportunities to gain hands-on experience in epidemiology at CDC or at state or local health departments. EIS officers, often called CDC's "disease detectives," have gone on to occupy leadership positions at CDC and other public health agencies nationally and internationally. However, the experience also is useful for health professionals who want to gain a population health perspective.

Persons with a strong interest in applied epidemiology who meet at least one of the following qualifications may apply to EIS:

• physicians with at least 1 year of clinical training;

[§] Initial guidance on the clinical management of patients with novel influenza A (H1N1) virus infection is available from the World Heallth Organization at http://www.who.int/csr/resources/publications/swineflu/clinical_management H1N1_21_May_2009.pdf.

- persons with a PhD, DrPH, or other doctoral degree in epidemiology, biostatistics, social or behavioral sciences, natural sciences, or nutrition sciences;
- dentists, physician assistants, or nurses with an MPH or equivalent degree; or
- veterinarians with an MPH or equivalent degree or relevant public health experience.

Information regarding the new EIS online application and program details is available at http://www.cdc.gov/eis/applynow.html; by telephone (404-498-6110); or by e-mail (eis@cdc.gov).

Notice to Readers

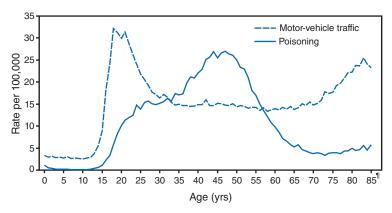
Availability of Provisional Tuberculosis and HIV/AIDS Data in Quarterly Table IV

CDC is in the process of 1) implementing Public Health Information Network tuberculosis (TB) case notification message standards, which will simplify reporting of TB cases, and 2) upgrading the national surveillance data management system for human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS). As a result, the quarterly Table IV scheduled for this issue of *MMWR* is not being published.

QuickStats

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Motor-Vehicle Traffic* and Poisoning† Death Rates,§ by Age — United States, 2005–2006



- * Motor-vehicle traffic deaths include pedestrians, pedal cyclists, or occupants, and involve any type of motor vehicle on public roads.
- [†] Poisoning deaths include those resulting from drug overdose or other misuse of drugs, and those associated with solid or liquid biologic substances, gases or vapors, or other substances.
- § Deaths from injuries, per 100,000 population. Injuries are of any manner, including unintentional, suicide, homicide, undetermined intent, legal intervention, and operations of war.
- ¶ Aggregate death rate for persons aged ≥85 years.

Motor-vehicle traffic and poisoning were the leading causes of injury deaths in the United States during 2005–2006. Motor-vehicle traffic death rates were higher than poisoning death rates among persons aged ≤31 years and those aged ≥58 years. Poisoning death rates were higher than motor-vehicle traffic death rates among adults aged 34–56 years. During 2005–2006, 92% of poisoning deaths involved drugs.

SOURCE: National Vital Statistics System, mortality data, available at http://www.cdc.gov/nchs/deaths.htm.

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending July 11, 2009 (27th week)*

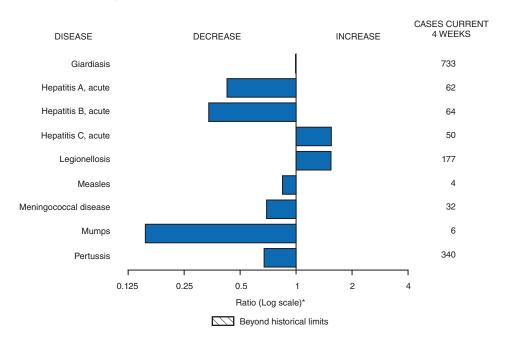
| | Current | Cum | 5-year weekly | | | ases re evious | | | States reporting cases |
|--|------------|----------|----------------------|-----------|-----------|-------------------|----------|----------|--|
| Disease | week | 2009 | average [†] | 2008 | 2007 | 2006 | 2005 | 2004 | during current week (No.) |
| Anthrax | _ | _ | _ | _ | 1 | 1 | _ | _ | |
| Botulism: | | | | | | | | | |
| foodborne | 1 | 10 | 0 | 17 | 32 | 20 | 19 | 16 | WA (1) |
| infant | _ | 27 | 2 | 109 | 85 | 97 | 85 | 87 | |
| other (wound and unspecified) | _ | 13 | 1 | 19 | 27 | 48 | 31 | 30 | |
| Brucellosis | 2 | 46 | 2 | 80 | 131 | 121 | 120 | 114 | CA (2) |
| Chancroid | _ | 18 | 0 | 25 | 23 | 33 | 17 | 30 | |
| Cholera | _ | 2 | 0 | 3 | 7 | 9 | 8 | 6 | |
| Cyclosporiasis§ | 1 | 50 | 10 | 139 | 93 | 137 | 543 | 160 | GA (1) |
| iphtheria | _ | _ | _ | _ | _ | _ | _ | _ | |
| omestic arboviral diseases [§] ,¶: | | | | | | | | | |
| California serogroup | _ | _ | 4 | 62 | 55 | 67 | 80 | 112 | |
| eastern equine | _ | _ | 0 | 4 | 4 | 8 | 21 | 6 | |
| Powassan | _ | _ | 0 | 2 | 7 | 1 | 1 | 1 | |
| St. Louis | _ | 3 | 0 | 13 | 9 | 10 | 13 | 12 | |
| western equine | _ | _ | _ | _ | _ | _ | _ | _ | |
| hrlichiosis/Anaplasmosis§,**: | | | | | | | | | |
| Ehrlichia chaffeensis | 11 | 185 | 25 | 1,137 | 828 | 578 | 506 | 338 | NY (5), OH (2), MD (1), KY (1), TN (2) |
| Ehrlichia ewingii | _ | _ | 0 | 9 | _ | _ | _ | _ | |
| Anaplasma phagocytophilum | 6 | 124 | 29 | 1,026 | 834 | 646 | 786 | 537 | NY (3), OH (1), WI (1), VA (1) |
| undetermined | _ | 34 | 10 | 180 | 337 | 231 | 112 | 59 | |
| laemophilus influenzae,†† | | | | | | | | | |
| nvasive disease (age <5 yrs): | | | | | | | | | |
| serotype b | _ | 13 | 0 | 30 | 22 | 29 | 9 | 19 | |
| nonserotype b | 2 | 108 | 3 | 244 | 199 | 175 | 135 | 135 | FL (2) |
| unknown serotype | 3 | 121 | 3 | 163 | 180 | 179 | 217 | 177 | MN (1), OK (1), CO (1) |
| ansen disease§ | _ | 32 | 2 | 80 | 101 | 66 | 87 | 105 | |
| antavirus pulmonary syndrome§ | _ | 4 | 1 | 18 | 32 | 40 | 26 | 24 | |
| emolytic uremic syndrome, postdiarrheal§ | 6 | 81 | 7 | 330 | 292 | 288 | 221 | 200 | OH (2), NE (1), NC (1), OK (1), CA (1) |
| epatitis C viral, acute | 9 | 453 | 15 | 878 | 845 | 766 | 652 | 720 | MD (1), NC (1), TX (3), WA (1), CA (3) |
| IV infection, pediatric (age <13 years)§§ | _ | _ | 3 | _ | _ | _ | 380 | 436 | |
| nfluenza-associated pediatric mortality [§] ,¶¶ | 1 | 91 | 1 | 85 | 77 | 43 | 45 | _ | MA (1) |
| steriosis | 11 | 263 | 19 | 759 | 808 | 884 | 896 | 753 | NY (2), PA (1), MI (1), MD (1), NC (1), GA (1), FL (1), TN (1), MS (1), CA (1) |
| leasles*** | 1 | 38 | 3 | 140 | 43 | 55 | 66 | 37 | CA (1) |
| Meningococcal disease, invasive†††: | | | | | | | | | |
| A, C, Y, and W-135 | 1 | 150 | 4 | 330 | 325 | 318 | 297 | _ | FL (1) |
| serogroup B | 2 | 80 | 4 | 188 | 167 | 193 | 156 | _ | OH (1), MN (1) |
| other serogroup | _ | 13 | 0 | 38 | 35 | 32 | 27 | _ | |
| unknown serogroup | 9 | 250 | 10 | 616 | 550 | 651 | 765 | _ | NY (2), OH (1), MD (1), TN (1), OK (1), TX (1), CA (2) |
| Mumps | 1 | 176 | 18 | 454 | 800 | 6,584 | 314 | 258 | NY (1) |
| lovel influenza A virus infections§§§ | | 37,246 | _ | 2 | 4 | N | N | N | (.) |
| lague | _ | 4 | 0 | 1 | 7 | 17 | 8 | 3 | |
| oliomyelitis, paralytic | _ | | _ | | <u>.</u> | | 1 | _ | |
| olio virus infection, nonparalytic§ | _ | _ | _ | _ | _ | N | Ň | N | |
| sittacosis§ | _ | 6 | 0 | 8 | 12 | 21 | 16 | 12 | |
| fever total [§] ,¶¶¶: | _ | 39 | 3 | 124 | 171 | 169 | 136 | 70 | |
| acute | _ | 34 | 1 | 110 | | _ | _ | _ | |
| chronic | _ | 5 | <u>.</u> | 14 | _ | _ | _ | _ | |
| abies, human | _ | _ | 0 | 1 | 1 | 3 | 2 | 7 | |
| ubella**** | _ | 1 | 0 | 16 | 12 | 11 | 11 | 10 | |
| ubella, congenital syndrome | _ | i | _ | _ | | 1 | 1 | _ | |
| ARS-CoV [§] ,†††† | _ | | _ | _ | _ | | | _ | |
| mallpox§ | _ | _ | _ | _ | _ | _ | _ | _ | |
| treptococcal toxic-shock syndrome§ | | 83 | 2 | 157 | 132 | 125 | 129 | 132 | |
| yphilis, congenital (age <1 yr) | | 92 | 8 | 422 | 430 | 349 | 329 | 353 | |
| etanus | | 6 | 1 | 19 | 28 | 41 | 27 | 34 | |
| | 2 | 42 | 2 | 71 | 92 | 101 | 90 | 95 | TN (1) CA (1) |
| oxic-shock syndrome (staphylococcal)§ | _ | | 0 | | | | | | TN (1), CA (1) |
| richinellosis ularemia | _ | 10 21 | | 39 | 127 | 15 | 16 | 5 124 | |
| ularemia yphoid fever | | | 6 | 123 | 137 | 95 353 | 154 | 134 | WA (1) CA (1) |
| | 2 | 165 | 7 0 | 447 63 | 434 37 | 353 6 | 324 2 | 322 | WA (1), CA (1) |
| | | | | | | | | | |
| ancomycin-intermediate Staphylococcus aureus§ | _ | 30 | | 03 | | | | | |
| | 10 | 135 | - 7 | 492 | 2 549 | 1 N | 3 N | 1 N | MD (1), GA (3), FL (3), TN (1), WA (1), CA (1) |

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 July 11, 2009 (27th week)*

- —: No reported cases. N: Not reportable. 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. The total sum of incident cases is then divided by 25 weeks. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf.
- § Not reportable in all states. Data from states where the condition is not reportable 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.
- 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. ewingil*).
- †† 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.
- III Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Ninety influenza-associated pediatric deaths occurring during the 2008-09 influenza season have been reported.
- *** The one measles case reported for the current week was imported.
- ††† Data for meningococcal disease (all serogroups) are available in Table II.
- These cases were obtained from state and territorial health departments in response to the pandemic influenza A (H1N1) virus infections and include both confirmed and probable cases in addition to those reported to the National Notifiable Diseases Surveillance System (NNDSS). Because of the volume of cases and the method by which they are being collected, a 5-year weekly average for this disease is not calculated.
- 1111 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.
- **** No rubella cases were reported for the current week.
- ttt 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 July 11, 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 Team

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Rosaline Dhara
Michael S. Wodajo
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TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending July 11, 2009, and July 5, 2008 (27th week)*

| | | | Chlamyd | ia [†] | | | | idiodomy | /cosis | | | | ptosporidi | iosis | |
|---|-----------------|--------------|----------------|------------------|------------------|--------------|--------------|----------|-------------|-------------|--------------|---------|---------------|-------------|-------------|
| | _ | Prev 52 w | | _ | _ | | Prev 52 w | | _ | _ | | | rious veek | _ | _ |
| 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 | 12,097 | 22,758 | 25,700 | 559,244 | 604,484 | 88 | 145 | 469 | 4,697 | 3,461 | 69 | 109 | 482 | 2,378 | 2,276 |
| New England | 869 | 762 | 1,655 | 20,590 | 18,377 | | 0 | 1 | 1 | 1 | 1 | 5 | 23 | 118 | 168 |
| Connecticut Maine§ | 170 49 | 228 48 | 1,306 72 | 6,044 1,307 | 5,215 1,280 | N N | 0 | 0 | N N | N N | _ | 0 | 16 6 | 16 14 | 41 13 |
| Massachusetts | 580 | 323 | 947 | 10,233 | 8,795 | N | 0 | 0 | N | N | _ | 2 | 13 | 35 | 50 |
| New Hampshire Rhode Island [§] | <u> </u> | 32 58 | 63 244 | 663 1,740 | 1,031 1,464 | _ | 0 0 | 1 0 | 1 | 1 | 1 | 1 0 | 4 3 | 19 4 | 35 4 |
| Vermont§ | 18 | 22 | 53 | 603 | 592 | N | Ö | Ö | N | N | _ | ĭ | 7 | 30 | 25 |
| Mid. Atlantic New Jersey | 1,648 | 2,852 422 | 6,734 879 | 77,441 10.184 | 76,678 11.682 | N | 0 | 0 | N | _ N | 12 | 13 0 | 35 4 | 283 1 | 276 18 |
| New York (Upstate) | 579 | 566 | 4,563 | 15,236 | 13,802 | N | 0 | Ö | N | N | 3 | 4 | 17 | 68 | 77 |
| New York City Pennsylvania | 516 553 | 1,120 808 | 3,130 1,072 | 30,205 21,816 | 29,720 21,474 | N N | 0 | 0 | N N | N N | 9 | 1 7 | 8 15 | 29 185 | 50 131 |
| E.N. Central | 1,090 | 3,460 | 4,382 | 81,822 | 99,798 | _ | 0 | 4 | 20 | 31 | 15 | 24 | 126 | 557 | 579 |
| Illinois | · — | 1,104 | 1,356 | 24,317 | 29,905 | N | 0 | Ö | N | N | _ | 2 | 13 | 38 | 57 |
| Indiana Michigan | 290 552 | 405 835 | 713 1,322 | 11,733 23,300 | 11,340 23,790 | N — | 0 | 0 3 | N 10 | N 24 | | 3 5 | 17 13 | 84 109 | 77 110 |
| Ohio | 112 | 787 | 1,300 | 13,863 | 23,641 | _ | 0 | 2 | 10 | 7 | 9 | 8 | 59 | 187 | 116 |
| Wisconsin W.N. Central | 136 815 | 388 1,325 | 494 1,547 | 8,609 33,113 | 11,122 34.068 | N — | 0 | 0 1 | N 2 | N | 4 15 | 8 17 | 46 68 | 139 356 | 219 327 |
| lowa | 131 | 192 | 257 | 5,037 | 4,440 | N | 0 | Ö | N | N | 5 | 4 | 30 | 82 | 79 |
| Kansas Minnesota | 532 1 | 178 267 | 401 331 | 4,812 5,947 | 4,652 7.443 | <u>N</u> | 0 | 0 | N | _N | 9 | 2 4 | 8 14 | 39 89 | 25 76 |
| Missouri | _ | 497 | 583 | 12,864 | 12,511 | _ | 0 | 1 | 2 | _ | _ | 3 | 13 | 53 | 77 |
| Nebraska [§] North Dakota | 71 12 | 98 26 | 219 60 | 2,364 524 | 2,653 948 | N N | 0 0 | 0 | N N | N N | 1 | 2 0 | 8 10 | 37 6 | 45 1 |
| South Dakota | 68 | 58 | 85 | 1,565 | 1,421 | N | 0 | 0 | N | N | _ | 2 | 9 | 50 | 24 |
| S. Atlantic Delaware | 2,068 78 | 4,363 76 | 5,730 180 | 96,480 2,495 | 120,014 1,913 | _ | 0 | 1 | 5 1 | 2 | 15 | 21 0 | 49 1 | 441 1 | 389 7 |
| District of Columbia | _ | 126 | 227 | 3,479 | 3,589 | _ | Ö | Ö | _ | _ | _ | Ö | 2 | _ | 7 |
| Florida Georgia | 586 1 | 1,386 748 | 1,597 1.909 | 36,282 13.168 | 37,158 20.547 | N N | 0 | 0 | N N | N N | 13 2 | 8 6 | 35 20 | 148 178 | 160 113 |
| Maryland§ | 494 | 436 | 772 | 11,023 | 11,864 | _ | 0 | Ĭ | 4 | 2 | _ | 1 | 5 | 19 | 15 |
| North Carolina South Carolina§ | 536 | 167 534 | 1,309 1,448 | 12,306 | 14,072 13,721 | N N | 0 | 0 | N N | N N | _ | 1 | 16 6 | 47 20 | 15 26 |
| Virginia [§] | 346 | 614 | 903 | 15,787 | 15,522 | N | 0 | 0 | N | N | _ | 1 | 4 | 23 | 35 |
| West Virginia E.S. Central | 27 1,500 | 70 1,698 | 101 2,176 | 1,940 45,685 | 1,628 42.417 | N | 0 | 0 | N _ | N | | 0 3 | 3 9 | 5 73 | 11 62 |
| Alabama§ | · — | 473 | 622 | 11,438 | 13,039 | N | Ö | Ö | N | N | _ | 1 | 6 | 20 | 23 |
| Kentucky Mississippi | 421 497 | 245 440 | 458 841 | 6,098 12,553 | 5,738 9,786 | N N | 0 | 0 | N N | N N | _ | 1 0 | 4 2 | 20 4 | 14 7 |
| Tennessee§ | 582 | 565 | 796 | 15,596 | 13,854 | Ň | ő | ő | Ň | N | 2 | 1 | 5 | 29 | 18 |
| W.S. Central | 1,748 | 2,914 | 5,098 | 79,738 | 77,377 | <u> </u> | 0 | 1 | | 2 | 1 | 8 | 271 | 76 | 102 |
| Arkansas [§] Louisiana | 231 148 | 278 435 | 418 1,134 | 7,533 12,570 | 7,279 11,095 | <u>N</u> | 0 0 | 0 1 | N | N 2 | <u>1</u> | 1 1 | 10 5 | 16 10 | 17 23 |
| Oklahoma Texas [§] | 1,369 | 184 1,961 | 2,732 2,528 | 6,009 53,626 | 6,664 52,339 | N N | 0 | 0 | N N | N N | _ | 2 | 16 258 | 36 14 | 20 42 |
| Mountain | 539 | 1,309 | 2,145 | 30.422 | 37.972 | 47 | 95 | 364 | 3,425 | 2,316 | 2 | 9 | 38 | 184 | 189 |
| Arizona Colorado | 60 | 412 | 627 | 6,955 | 12,635 | 46 N | 92 0 | 362 0 | 3,382 | 2,252 | | 1 | 10 | 19 | 22 37 |
| Idaho§ | 56 — | 340 67 | 845 314 | 8,908 1,766 | 9,229 2,008 | N | 0 | 0 | N N | N N | _ | 2 1 | 12 5 | 57 24 | 31 |
| Montana [§] Nevada [§] | 33 192 | 59 174 | 88 365 | 1,552 4,992 | 1,567 5,152 | N 1 | 0 1 | 0 3 | N 34 | N 32 | _ | 0 | 4 4 | 15 7 | 26 8 |
| New Mexico§ | 115 | 159 | 540 | 3,562 | 3,622 | | 0 | 2 | 2 | 21 | = | 2 | 23 | 43 | 37 |
| Utah Wyoming§ | 13 70 | 82 33 | 251 97 | 1,578 1,109 | 3,021 738 | _ | 0 | 2 1 | 7 | 9 2 | _ | 0 | 6 2 | 6 13 | 18 10 |
| Pacific | 1,820 | 3,620 | 4,616 | 93,953 | 97,783 | 41 | 39 | 172 | 1,244 | 1,109 | 6 | 11 | 19 | 290 | 184 |
| Alaska California | 1,358 | 90 2,863 | 199 3,592 | 2,138 74,844 | 2,404 76,005 | N 41 | 0 39 | 0 172 | N 1,244 | N 1,109 | <u> </u> | 0 6 | 1 14 | 2 165 | 1 101 |
| Hawaii | _ | 114 | 247 | 2,805 | 3,011 | N | 0 | 0 | N | N | _ | 0 | 1 | 1 | 1 |
| Oregon§ Washington | 204 258 | 193 393 | 631 557 | 4,996 9,170 | 5,288 11,075 | N N | 0 | 0 | N N | N N | _ 1 | 2 2 | 8 7 | 86 36 | 41 40 |
| American Samoa | | 0 | 3 | J,170 | 70 | N | 0 | 0 | N | N | N | 0 | 0 | N | N N |
| C.N.M.I. | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ |
| Guam Puerto Rico | _ | 3 129 | 8 334 | 3,812 | 103 3,714 | N | 0 | 0 0 | N | N | N | 0 0 | 0 0 | N | N |
| U.S. Virgin Islands | _ | 8 | 17 | 205 | 366 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 11, 2009, and July 5, 2008 (27th week)*

| | | | Giardiasi | s | | | | Gonorrhe | ea | | Hae | | s <i>infl</i> uenz s, all sero | | ve |
|---|--------------|----------|-------------|--------------|--------------|-----------------|--------------|--------------|-----------------|-----------------|-----------------|--------|-----------------------------------|-------------|-------------|
| | | | rious | | | | | vious | | | | | rious | | |
| Reporting area | Current week | Med | eeks Max | Cum 2009 | Cum 2008 | Current week | Med Med | veeks Max | Cum 2009 | Cum 2008 | Current week | Med | eeks Max | Cum 2009 | Cum 2008 |
| United States | 258 | 318 | 641 | 7,386 | 7,845 | 2,833 | 5,616 | 7,164 | 132,167 | 169,389 | 33 | 50 | 124 | 1,446 | 1,630 |
| New England | _ | 26 | 64 | 472 | 672 | 101 | 97 | 301 | 2,536 | 2,580 | _ | 3 | 16 | 85 | 89 |
| Connecticut Maine [§] | _ | 6 4 | 14 12 | 113 88 | 158 64 | 34 3 | 48 2 | 275 9 | 1,160 74 | 1,149 48 | _ | 0 | 12 2 | 29 12 | 18 8 |
| Massachusetts | _ | 10 | 27 | 150 | 285 | 61 | 37 | 112 | 1,045 | 1,127 | _ | 1 | 5 | 32 | 46 |
| New Hampshire Rhode Island [§] | _ | 2 1 | 10 8 | 44 23 | 58 44 | 3 | 1 6 | 6 19 | 53 181 | 64 173 | _ | 0 | 2 7 | 6 3 | 6 4 |
| Vermont [§] | _ | 3 | 15 | 54 | 63 | _ | 1 | 4 | 23 | 19 | _ | ő | 1 | 3 | 7 |
| Mid. Atlantic | 38 | 59 | 116 | 1,346 | 1,527 | 339 | 592 | 1,138 | 15,210 | 16,736 | 5 | 10 | 25 7 | 302 | 306 |
| New Jersey New York (Upstate) | 28 | 7 24 | 21 81 | 85 586 | 250 503 | 97 | 92 111 | 127 664 | 2,056 2,673 | 2,740 3,099 | 1 | 1 2 | 20 | 31 71 | 48 89 |
| New York City | _ | 15 | 30 | 334 | 424 | 118 | 209 | 577 | 5,634 | 5,213 | _ | 2 | 11 | 73 | 54 |
| Pennsylvania E.N. Central | 10 20 | 16 44 | 46 90 | 341 1,028 | 350 1,216 | 124 369 | 189 1,117 | 267 1,627 | 4,847 25,362 | 5,684 35,363 | 4 3 | 4 7 | 10 27 | 127 185 | 115 263 |
| Illinois | _ | 9 | 32 | 171 | 331 | | 360 | 499 | 7,332 | 10,207 | _ | 2 | 9 | 63 | 81 |
| Indiana Michigan | N 5 | 0 12 | 11 22 | N 284 | N 265 | 101 177 | 152 294 | 256 493 | 3,854 7,712 | 4,555 8,721 | _ 1 | 1 0 | 22 3 | 40 13 | 45 16 |
| Ohio | 14 | 16 | 31 | 391 | 394 | 31 | 245 | 482 | 4,237 | 8,587 | 2 | 1 | 6 | 60 | 81 |
| Wisconsin | 1 | 9 | 19 | 182 | 226 | 60 | 100 | 149 | 2,227 | 3,293 | _ | 0 | 4 | 9 | 40 |
| W.N. Central lowa | 43 5 | 25 6 | 143 18 | 673 139 | 758 142 | 55 22 | 296 32 | 393 53 | 6,965 851 | 8,588 787 | 6 | 3 0 | 15 0 | 85 — | 117 2 |
| Kansas | _ | 3 | 11 | 60 | 59 | 18 | 39 | 83 | 1,042 | 1,132 | _ | Ö | 2 | 11 | 15 |
| Minnesota Missouri | 37 | 0 7 | 106 22 | 174 183 | 191 211 | _ | 46 140 | 78 184 | 961 3,232 | 1,655 4,119 | 3 | 0 1 | 10 4 | 21 31 | 27 49 |
| Nebraska§ | 1 | 3 | 10 | 75 | 99 | 10 | 25 | 51 | 656 | 699 | 3 | 0 | 2 | 17 | 16 |
| North Dakota South Dakota | _ | 0 2 | 16 11 | 8 34 | 10 46 | <u> </u> | 2 8 | 7 20 | 29 194 | 60 136 | _ | 0 | 4 0 | 5 | 8 |
| S. Atlantic | 72 | 66 | 108 | 1,775 | 1,304 | 659 | 1,246 | 2,142 | 27,134 | 41,519 | 7 | 14 | 30 | 427 | 411 |
| Delaware | 1 | 0 | 3 | 16 | 22 | 21 | 16 | 35 | 455 | 595 | _ | 0 | 2 | 3 | 4 |
| District of Columbia Florida | 46 | 0 32 | 5 57 | 888 | 31 573 | 242 | 50 415 | 89 507 | 1,403 10,530 | 1,304 12,540 | 4 | 0 5 | 2 10 | 149 | 3 102 |
| Georgia | 14 | 14 | 67 | 505 | 300 | 1 | 266 | 876 | 4,304 | 7,404 | 2 | 3 | 9 | 87 | 85 |
| Maryland [§] North Carolina | 8 N | 5 0 | 10 0 | 123 N | 122 N | 133 | 119 54 | 212 542 | 2,887 | 3,139 6,174 | 1 | 1 1 | 6 17 | 52 48 | 67 41 |
| South Carolina§ | 2 | 2 | 8 | 45 | 60 | 163 | 167 | 419 | 3,800 | 4,997 | _ | 1 | 5 | 29 | 36 |
| Virginia§ West Virginia | 1 | 8 1 | 31 5 | 178 20 | 163 33 | 94 5 | 153 11 | 308 26 | 3,484 271 | 4,979 387 | _ | 1 0 | 6 3 | 41 18 | 59 14 |
| E.S. Central | 3 | 8 | 22 | 163 | 210 | 404 | 520 | 771 | 13,078 | 15,349 | 2 | 3 | 7 | 88 | 88 |
| Alabama [§] Kentucky | N | 4 0 | 12 0 | 71 N | 116 N | <u> </u> | 152 80 | 216 153 | 3,188 1,747 | 5,184 2,223 | _ | 0 | 4 5 | 23 15 | 14 6 |
| Mississippi | N | 0 | 0 | N | N | 173 | 143 | 253 | 3,906 | 3,609 | _ | 0 | 1 | _ | 11 |
| Tennessee§ | 3 | 4 | 13 | 92 | 94 | 139 | 162 | 301 | 4,237 | 4,333 | 2 | 2 | 5 | 50 | 57 |
| W.S. Central Arkansas§ | 13 8 | 8 2 | 22 8 | 183 65 | 157 58 | 531 96 | 929 85 | 1,319 134 | 23,219 2,300 | 26,563 2,351 | 4 | 2 | 22 2 | 72 13 | 76 8 |
| Louisiana | _ | 2 | 10 | 55 | 60 | 43 | 162 | 420 | 4,062 | 4,969 | _ | 0 | 1 | 11 | 8 |
| Oklahoma Texas§ | 5 N | 3 0 | 18 0 | 63 N | 39 N | 392 | 70 570 | 610 725 | 2,314 14,543 | 2,464 16,779 | 4 | 1 0 | 20 1 | 48 | 54 6 |
| Mountain | 17 | 25 | 62 | 557 | 620 | 90 | 181 | 313 | 3,812 | 6,203 | 6 | 5 | 11 | 142 | 190 |
| Arizona Colorado | 14 | 3 9 | 10 27 | 91 194 | 55 227 | 7 9 | 51 58 | 82 159 | 821 1,379 | 1,827 1,906 | <u> </u> | 1 | 7 5 | 52 47 | 79 36 |
| Idaho§ | 2 | 3 | 14 | 58 | 70 | _ | 2 | 13 | 46 | 86 | _ | 0 | 2 | 2 | 8 |
| Montana [§] Nevada [§] | _ 1 | 2 2 | 9 8 | 46 42 | 33 54 | 1 40 | 2 32 | 6 86 | 42 888 | 58 1,262 | _ | 0 0 | 1 2 | 1 10 | 2 11 |
| New Mexico§ | | 2 | 8 | 38 | 45 | 28 | 23 | 52 | 512 | 724 | _ | 1 | 3 | 15 | 28 |
| Utah Wyoming [§] | _ | 7 1 | 18 4 | 68 20 | 118 18 | 1 4 | 4 2 | 15 8 | 82 42 | 286 54 | _ | 0 | 2 2 | 15 | 26 |
| Wyoming [§] Pacific | — 52 | 53 | 130 | 1,189 | 1,381 | 285 | 559 | 755 | 14,851 | 16,488 | _ | 2 | 7 | 60 | 90 |
| Alaska | _ | 2 | 10 | 33 | 34 | _ | 14 | 24 | 338 | 256 | _ | 0 | 3 | 8 | 11 |
| California Hawaii | 33 | 35 0 | 59 4 | 849 5 | 956 19 | 242 | 474 12 | 657 19 | 12,698 295 | 13,569 310 | _ | 0 | 3 2 | 12 13 | 32 11 |
| Oregon§ | _ | 7 | 17 | 147 | 219 | 21 | 20 | 48 | 526 | 655 | _ | 1 | 3 | 24 | 34 |
| Washington | 19 | 7 | 74 | 155 | 153 | 22 | 48 | 81 | 994 | 1,698 | _ | 0 | 2 | 3 | 2 |
| American Samoa C.N.M.I. | _ | | 0 | _ | _ | _ | | _0 | _ | 3 | _ | 0 | 0 | _ | _ |
| Guam Puerto Rico | _ | 0 3 | 0 | | | _ | 1 | 15 16 | 100 | 45 147 | _ | 0 | 0 | <u> </u> | _ |
| U.S. Virgin Islands | _ | 0 | 15 0 | 48 | 83 | 1 | 4 2 | 16 7 | 109 63 | 147 67 | N | 0 | 1 | I N | N |

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Me
* 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.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 11, 2009, and July 5, 2008 (27th week)*

| | | | | Hepat | itis (viral, | acute), by | type† | | | | | | | | |
|---|--------------|----------|---------|-------------|--------------|-----------------|--------|--------------|--------------|-------------|--------------|---------|--------------|-------------|-------------|
| | | | Α | | | | | В | | | | Le | gionellosi | s | |
| | | Prev | | | | | | /ious | | | | | /ious | | |
| Reporting area | Current week | Med 52 w | Max | Cum 2009 | Cum 2008 | Current week | Med | veeks Max | Cum 2009 | Cum 2008 | Current week | Med Med | veeks Max | Cum 2009 | Cum 2008 |
| United States | 18 | 37 | 89 | 845 | 1,406 | 21 | 72 | 197 | 1,545 | 1,894 | 64 | 48 | 152 | 939 | 1,123 |
| New England | _ | 2 | 8 | 34 | 67 | _ | 1 | 4 | 16 | 43 | 3 | 2 | 18 | 34 | 66 |
| Connecticut Maine§ | _ | 0 | 4 5 | 12 1 | 14 4 | _ | 0 | 3 2 | 7 6 | 16 8 | 3 | 1 0 | 5 2 | 22 | 12 1 |
| Massachusetts | _ | 1 | 3 | 14 | 33 | _ | 0 | 2 | 1 | 12 | _ | 1 | 6 | 6 | 31 |
| New Hampshire Rhode Island [§] | _ | 0 | 2 2 | 3 3 | 5 10 | _ | 0 | 2 1 | 2 | 3 | _ | 0 0 | 5 14 | 3 2 | 8 10 |
| Vermont§ | _ | 0 | 1 | 1 | 1 | _ | 0 | 1 | _ | 1 | _ | 0 | 1 | 1 | 4 |
| Mid. Atlantic New Jersey | 1 | 5 0 | 13 5 | 94 5 | 151 35 | 1 | 6 1 | 17 5 | 144 22 | 242 70 | 31 | 14 1 | 60 14 | 275 11 | 295 38 |
| New York (Upstate) | _ | Ĭ | 4 | 26 | 32 | _ | 1 | 11 | 33 | 34 | 17 | 5 | 24 | 102 | 77 |
| New York City Pennsylvania | _ 1 | 2 1 | 6 4 | 28 35 | 48 36 | 1 | 1 2 | 4 8 | 29 60 | 52 86 | 14 | 2 6 | 12 35 | 35 127 | 43 137 |
| E.N. Central | _ | 4 | 12 | 91 | 197 | _ | 10 | 21 | 216 | 255 | 13 | 8 | 41 | 157 | 241 |
| Illinois Indiana | _ | 1 0 | 4 3 | 21 7 | 75 10 | _ | 2 1 | 7 18 | 24 51 | 90 22 | _ | 1 0 | 13 6 | 8 8 | 35 20 |
| Michigan | _ | 1 | 5 | 34 | 71 | _ | 2 | 8 | 64 | 74 | 3 | 2 | 16 | 40 | 65 |
| Ohio Wisconsin | _ | 1 0 | 4 3 | 24 5 | 22 19 | _ | 2 | 13 4 | 57 20 | 57 12 | 10 | 4 0 | 18 6 | 96 5 | 109 12 |
| W.N. Central | 1 | 2 | 16 | 59 | 172 | _ | 2 | 16 | 69 | 43 | _ | 2 | 8 | 31 | 51 |
| Iowa Kansas | _ | 0 | 3 1 | 14 6 | 83 11 | _ | 0 | 3 2 | 11 4 | 12 6 | _ | 0 0 | 2 1 | 10 2 | 8 1 |
| Minnesota | _ | 0 | 12 | 12 | 18 | _ | Ö | 11 | 11 | 4 | _ | 0 | 4 | 5 | 4 |
| Missouri Nebraska [§] | 1 | 0 0 | 3 2 | 14 11 | 21 37 | _ | 1 0 | 5 2 | 33 9 | 18 3 | _ | 1 0 | 7 3 | 9 4 | 28 9 |
| North Dakota South Dakota | _ | 0 | 2 1 | | _ | _ | 0 | 1 1 | _ 1 | _ | _ | 0 | 3 1 | 1 | _ 1 |
| S. Atlantic | 7 | 7 | 15 | 206 | 184 | 10 | 18 | 31 | 486 | 476 | 11 | 9 | 22 | 212 | 209 |
| Delaware District of Columbia | | 0 | 1 | 3 U | 4 U | Ü | 0 | 1 | Ü | Ü | = | 0 | 4 | 7 | 5 7 |
| Florida | 3 | 4 | 0 8 | 99 | 73 | 4 | 6 | 11 | 162 | 166 | 6 | 0 3 | 2 7 | — 77 | 70 |
| Georgia Maryland [§] | 1 2 | 1 0 | 4 4 | 32 21 | 27 20 | 2 | 3 2 | 9 6 | 75 42 | 87 45 | 1 4 | 1 2 | 5 10 | 27 50 | 17 55 |
| North Carolina | _ | Ĭ | 7 | 22 | 33 | 3 | 1 | 19 | 122 | 47 | _ | 0 | 7 | 30 | 11 |
| South Carolina§ Virginia§ | 1 | 0 1 | 3 6 | 14 15 | 6 18 | 1 | 1 2 | 5 10 | 22 40 | 37 55 | _ | 0 1 | 1 5 | 2 19 | 4 27 |
| West Virginia | _ | 0 | 1 | _ | 3 | _ | 1 | 6 | 23 | 39 | _ | 0 | 3 | _ | 13 |
| E.S. Central Alabama§ | 1 | 1 0 | 5 2 | 22 6 | 42 5 | 3 | 8 2 | 13 7 | 152 46 | 185 49 | 1 | 2 0 | 5 2 | 46 5 | 67 8 |
| Kentucky | _ | 0 | 2 | 4 | 15 | _ | 2 | 7 | 41 | 51 | _ | 1 | 3 | 22 | 32 |
| Mississippi Tennessee [§] | 1 | 0 0 | 1 4 | 5 7 | 4 18 | 3 | 0 2 | 3 8 | 6 59 | 18 67 | 1 | 0 0 | 1 4 | 1 18 | 1 26 |
| W.S. Central | _ | 3 | 43 | 73 | 136 | 3 | 11 | 99 | 218 | 382 | _ | 2 | 21 | 42 | 35 |
| Arkansas [§] Louisiana | _ | 0 0 | 1 2 | 4 2 | 4 7 | _ | 1 1 | 5 4 | 14 22 | 26 53 | _ | 0 | 2 2 | 3 2 | 5 5 |
| Oklahoma Texas [§] | _ | 0 | 6 37 | 1 66 | 3 122 | | 2 6 | 17 76 | 50 132 | 43 260 | _ | 0 | 6 19 | 3 34 | 3 22 |
| Mountain | 4 | 3 | 8 | 81 | 133 | _ | 3 | 10 | 68 | 96 | 1 | 1 2 | 8 | 49 | 38 |
| Arizona | 1 | 1 | 6 | 39 | 70 | _ | 1 | 4 | 27 | 39 | _ | 0 | 3 | 21 | 10 |
| Colorado Idaho [§] | 3 | 0 0 | 5 1 | 23 1 | 23 14 | _ | 0 0 | 3 2 | 12 4 | 14 3 | _ | 0 0 | 2 1 | 4 | 3 2 |
| Montana [§] Nevada [§] | _ | 0 | 1 3 | 4 6 | 3 | _ | 0 | 1 3 | 15 | 22 | <u> </u> | 0 | 2 2 | 4 7 | 3 6 |
| New Mexico§ | _ | 0 | 1 | 5 | 14 | _ | 0 | 2 | 5 | 7 | | 0 | 2 | _ | 3 |
| Utah Wyoming§ | _ | 0 0 | 2 0 | 3 | 6 3 | _ | 0 | 3 1 | 3 2 | 7 4 | _ | 0 | 5 1 | 12 1 | 11 — |
| Pacific | 4 | 8 | 25 | 185 | 324 | 4 | 7 | 36 | 176 | 172 | 4 | 3 | 12 | 93 | 121 |
| Alaska California | <u> </u> | 0 6 | 1 25 | 3 142 | 3 262 | <u> </u> | 0 5 | 1 28 | 3 131 | 6 120 | _ | 0 3 | 1 9 | 2 71 | 1 91 |
| Hawaii | _ | 0 | 2 | 4 | 6 | _ | 0 | 1 | 3 | 3 | _ | 0 | 1 | 1 | 5 |
| Oregon§ Washington | _ | 0 1 | 2 4 | 10 26 | 20 33 | _ | 1 1 | 4 8 | 23 16 | 24 19 | _ | 0 0 | 2 4 | 6 13 | 11 13 |
| American Samoa C.N.M.I. | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | <u>N</u> | 0 | 0 | <u>N</u> | N — |
| Guam Puerto Rico | _ | 0 | 0 2 | 15 | 17 | _ | 0 | 0 5 | 10 | 26 | _ | 0 | 0 | _ | _ |
| U.S. Virgin Islands | _ | 0 | 0 | _ | _ | _ | 0 | 0 | - | _ | _ | 0 | 0 | _ | _ |

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 11, 2009, and July 5, 2008 (27th week)*

| | | | yme disea | se | | | | Malaria | | | Me | | cal diseas All groups | | /e ¹ |
|--|-----------------|----------|----------------|--------------|--------------|--------------|--------|----------------|-------------|-------------|--------------|--------|--------------------------|-------------|-----------------|
| | | | vious veeks | _ | _ | | | rious reeks | _ | | | | rious reeks | _ | |
| 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 | 439 | 461 | 1,915 | 6,268 | 11,556 | 20 | 22 | 46 | 463 | 496 | 12 | 17 | 48 | 493 | 734 |
| New England | 4 | 50 | 799 | 664 | 4,705 | _ | 1 | 5 | 15 | 25 | _ | 0 | 4 | 15 | 21 |
| Connecticut Maine [§] | 4 | 6 6 | 264 73 | 160 | 1,851 88 | _ | 0 | 4 1 | 4 1 | 5 1 | _ | 0 | 1 1 | 1 2 | 1 4 |
| Massachusetts | | 13 | 375 | 117 | 1,995 | _ | 0 | 4 | 6 | 14 | _ | 0 | 3 | 9 | 13 |
| New Hampshire Rhode Island [§] | _ | 13 0 | 143 78 | 267 33 | 607 105 | _ | 0 0 | 1 1 | 1 1 | 2 1 | _ | 0 0 | 1 | 1 | 2 1 |
| Vermont§ | _ | 5 | 41 | 87 | 59 | _ | 0 | 1 | 2 | 2 | _ | Ö | i | i | |
| Mid. Atlantic | 373 | 229 | 1,401 | 3,869 | 4,230 | 3 | 5 | 17 | 110 | 126 | 2 | 2 | 5 | 52 | 77 |
| New Jersey New York (Upstate) | 144 | 25 87 | 231 1,368 | 509 1,298 | 1,858 943 | 1 | 0 | 4 10 | 25 | 26 14 | _ | 0 | 1 2 | 2 14 | 10 19 |
| New York City | _ | 1 | 54 | · — | 237 | _ | 3 | 11 | 61 | 68 | _ | 0 | 2 | 9 | 15 |
| Pennsylvania | 229 | 53 | 338 | 2,062 | 1,192 | 2 | 1 | 4 | 24 | 18 | _ | 1 | 4 | 27 | 33 |
| E.N. Central Illinois | 2 | 15 0 | 155 11 | 270 4 | 900 55 | 1 | 3 1 | 6 5 | 56 20 | 79 38 | 2 | 3 1 | 8 6 | 84 17 | 125 45 |
| Indiana | _ | 0 | . 8 | . 9 | 8 | _ | 0 | 1 | 8 | 3 | _ | 0 | 4 | 20 | 16 |
| Michigan Ohio | 1 | 1 0 | 10 6 | 19 13 | 10 8 | <u> </u> | 0 | 3 2 | 10 15 | 9 19 | | 0 | 4 3 | 16 25 | 17 30 |
| Wisconsin | i | 12 | 140 | 225 | 819 | | ő | 2 | 3 | 10 | _ | ő | 1 | 6 | 17 |
| W.N. Central | 3 | 6 | 336 | 77 | 153 | 2 | 1 | 10 | 29 | 21 | 1 | 1 | 9 | 40 | 66 |
| lowa Kansas | | 1 0 | 7 4 | 30 10 | 62 5 | _ | 0 | 3 2 | 5 2 | 2 | _ | 0 | 1 2 | 4 8 | 13 3 |
| Minnesota | _ | 2 | 326 | 28 | 81 | 1 | Ö | 8 | 13 | 6 | 1 | Ō | 4 | 9 | 18 |
| Missouri Nebraska§ | | 0 | 1 2 | 2 6 | 2 | _ 1 | 0 0 | 2 1 | 5 3 | 5 5 | _ | 0 0 | 2 1 | 13 4 | 21 9 |
| North Dakota | _ | 0 | 10 | _ | _ | | 0 | Ö | _ | _ | _ | Ö | 3 | _ | 1 |
| South Dakota | _ | 0 | 1 | 1 | 1 | _ | 0 | 1 | 1 | _ | _ | 0 | 1 | 2 | 1 |
| S. Atlantic Delaware | 53 14 | 64 12 | 223 36 | 1,256 346 | 1,444 416 | 9 | 6 0 | 15 1 | 158 1 | 138 1 | 2 | 2 | 9 1 | 94 2 | 103 1 |
| District of Columbia | _ | 0 | 5 | _ | 29 | _ | Ö | 2 | _ | i | _ | Ö | Ö | _ | _ |
| Florida Georgia | 2 | 1 0 | 6 6 | 19 20 | 16 19 | 4 3 | 1 | 7 4 | 42 36 | 24 30 | 1 | 1 0 | 4 2 | 32 19 | 36 13 |
| Maryland [§] | 36 | 30 | 163 | 611 | 670 | 2 | i | 8 | 41 | 39 | 1 | 0 | 1 | 5 | 12 |
| North Carolina | 1 | 1 0 | 7 | 35 | 2 | _ | 0 | 5 1 | 18 | 15 | _ | 0 | 5 1 | 16 | 9 |
| South Carolina [§] Virginia [§] | _ | 12 | 3 61 | 13 178 | 12 209 | _ | 1 | 4 | 1 18 | 5 22 | _ | 0 0 | 2 | 7 9 | 15 13 |
| West Virginia | _ | 1 | 17 | 34 | 71 | _ | 0 | 1 | 1 | 1 | _ | 0 | 2 | 4 | 4 |
| E.S. Central Alabama§ | _ | 0 | 5 1 | 10 1 | 22 8 | 2 | 0 | 3 3 | 17 6 | 8 3 | 1 | 0 | 3 1 | 17 4 | 37 4 |
| Kentucky | _ | 0 | 2 | 1 | 1 | 2 | 0 | 2 | 7 | 3 | _ | 0 | i | 3 | 7 |
| Mississippi | _ | 0 | 0 | _ | 1 | _ | 0 | 1 | _ | _ | _ | 0 | 1 | 1 | 9 |
| Tennessee§ W.S. Central | _ | 0 2 | 3 21 | 8 | 12 | _ | 0 1 | 2 10 | 4 | 2 | 1 | 0 1 | 1 12 | 9 44 | 17 76 |
| Arkansas§ | _ | 0 | 0 | 18 | 41 | _ | 0 | 10 | 11 | 23 | | 0 | 2 | 5 | 11 |
| Louisiana | _ | 0 | 1 | _ | _ | _ | 0 | 1 | 1 | 2 | _ | 0 | 3 | 9 | 17 |
| Oklahoma Texas [§] | _ | 0 2 | 2 21 | 18 | 41 | _ | 0 1 | 2 10 | 1 9 | 2 19 | 1 1 | 0 1 | 3 9 | 4 26 | 10 38 |
| Mountain | _ | 1 | 13 | 15 | 17 | _ | 0 | 3 | 7 | 13 | _ | 1 | 4 | 41 | 40 |
| Arizona Colorado | _ | 0 0 | 2 1 | 2 1 | 2 | _ | 0 | 2 1 | 2 2 | 5 3 | _ | 0 | 2 2 | 8 13 | 5 8 |
| Idaho§ | _ | 0 | 2 | 5 | 3 | _ | 0 | i | 1 | _ | _ | 0 | 1 | 5 | 4 |
| Montana [§] Nevada [§] | _ | 0 | 13 | 1 | 2 | _ | 0 | 1 | 1 | _ | _ | 0 | 2 | 4 | 4 |
| Nevadas New Mexico§ | _ | 0 | 2 2 | 6 | 2 5 | _ | 0 | 1 | _ | 4 1 | _ | 0 | 2 1 | 3 3 | 7 5 |
| Utah | _ | 0 | 1 | _ | _ | _ | 0 | 1 | 1 | _ | _ | 0 | 1 | 1 | 5 |
| Wyoming§ | _ | 0 | 1 | _ | 1 | _ | 0 | 0 | _ | _ | _ | 0 | 2 | 4 | 2 |
| Pacific Alaska | <u>4</u> | 3 0 | 13 2 | 89 1 | 44 1 | 3 | 2 | 10 1 | 60 1 | 63 3 | | 4 0 | 14 2 | 106 2 | 189 3 |
| California | 4 | 2 | 6 | 79 | 28 | 3 | 2 | 8 | 48 | 50 | 2 | 2 | 8 | 71 | 144 |
| Hawaii Oregon [§] | N — | 0 | 0 3 | N 6 | N 15 | _ | 0 | 1 2 | 1 5 | 2 4 | _ | 0 | 1 7 | 3 21 | 2 22 |
| Washington | _ | ő | 12 | 3 | _ | _ | Ö | 3 | 5 | 4 | _ | ŏ | 6 | 9 | 18 |
| American Samoa | N | 0 | 0 | N | N | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| C.N.M.I. Guam | _ | | | _ | = | _ | | _ | _ | _ 1 | _ | | | _ | _ |
| Puerto Rico | N | 0 | 0 | N | N | _ | 0 | 1 | 1 | 2 | _ | 0 | 1 | _ | 2 |
| U.S. Virgin Islands | N | 0 | 0 | N | N | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 11, 2009, and July 5, 2008 (27th week)*

| | | | Pertussis | | | | Ra | bies, anin | nal | | R | ocky Mou | ıntain spo | tted fever | · |
|---|-----------------|----------|----------------|--------------|-------------|-----------------|---------|--------------|-------------|-------------|-----------------|----------|--------------|--------------|-------------|
| | _ | | vious veeks | | _ | _ | | ious eeks | | _ | | | ious eeks | | _ |
| 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 | 101 | 243 | 1,697 | 5,651 | 4,022 | 43 | 69 | 128 | 1,677 | 2,040 | 34 | 29 | 179 | 570 | 681 |
| New England | _ | 16 | 33 | 232 | 474 | 7 | 8 3 | 15 | 173 | 197 | _ | 0 | 2 | 4 | 3 |
| Connecticut Maine [†] | _ | 0 1 | 4 10 | 13 57 | 32 14 | 6 | 3 1 | 10 5 | 79 27 | 96 31 | _ | 0 0 | 2 | 4 | _ |
| Massachusetts | _ | 10 | 26 | 105 | 376 | _ | 0 | 0 | _ | _ | _ | 0 | 1 | _ | 1 |
| New Hampshire Rhode Island [†] | _ | 1 1 | 6 6 | 38 11 | 16 30 | 1 | 1 0 | 7 3 | 19 20 | 19 17 | _ | 0 | 0 2 | _ | 1 1 |
| Vermont [†] | _ | Ö | 2 | 8 | 6 | _ | ĭ | 6 | 28 | 34 | _ | ŏ | ō | _ | <u>.</u> |
| Mid. Atlantic | 14 | 24 | 64 | 507 | 459 | 6 | 16 | 30 | 316 | 423 | 1 | 1 | 29 | 22 | 56 |
| New Jersey New York (Upstate) | <u> </u> | 3 6 | 12 41 | 56 99 | 96 141 | <u> </u> | 0 8 | 0 20 | 198 | 217 | 1 | 0 | 6 29 | 3 | 38 6 |
| New York City | 1 | 0 | 21 | 48 | 45 | _ | 0 | 2 | _ | 10 | _ | 0 | 4 | 12 | 6 |
| Pennsylvania | 8 | 11 | 33 | 304 | 177 | _ | 7 | 17 | 118 | 196 | _ | 0 | 2 | 7 | 6 |
| E.N. Central Illinois | 34 | 46 14 | 238 45 | 1,246 234 | 718 92 | 4 | 2 1 | 28 20 | 74 26 | 77 30 | _ | 1 1 | 15 10 | 23 9 | 46 34 |
| Indiana | _ | 3 | 158 | 113 | 22 | _ | Ö | 6 | 6 | 2 | _ | 0 | 3 | 1 | 1 |
| Michigan Ohio | 5 29 | 9 15 | 21 57 | 278 564 | 99 453 | <u> </u> | 1 0 | 9 7 | 23 19 | 27 18 | _ | 0 | 1 3 | 3 10 | 2 9 |
| Wisconsin | | 4 | 10 | 57 | 52 | N A | 0 | 0 | N | N | _ | 0 | 0 | - | _ |
| W.N. Central | 3 | 32 | 872 | 931 | 357 | 6 | 5 | 17 | 132 | 134 | _ | 3 | 33 | 59 | 165 |
| lowa | _ 1 | 5 | 21 | 82 | 60 | _ | 0 1 | 5 | 9 | 10 | _ | 0 | 1 1 | 1 | 5 |
| Kansas Minnesota | | 3 0 | 12 808 | 104 165 | 31 99 | 6 | 0 | 6 11 | 49 26 | 43 18 | _ | 0 0 | 0 | 2 | _ |
| Missouri | | 14 | 51 | 479 | 123 | _ | 1 | 8 | 17 | 18 | _ | 3 | 32 | 52 | 154 |
| Nebraska† North Dakota | 1 1 | 4 0 | 32 24 | 88 2 | 32 1 | _ | 0 0 | 2 9 | 4 | 20 13 | _ | 0 | 4 1 | 4 | 3 |
| South Dakota | | 0 | 10 | 11 | 11 | _ | 1 | 4 | 27 | 12 | _ | Ö | Ö | _ | 3 |
| S. Atlantic | 32 | 26 | 71 | 826 | 378 | 10 | 25 | 101 | 730 | 948 | 3 | 15 | 54 | 279 | 210 |
| Delaware District of Columbia | 1 | 0 | 3 2 | 7 | 5 1 | _ | 0 | 0 0 | _ | _ | _ | 0 0 | 3 1 | 3 | 12 4 |
| Florida | 12 | 8 | 33 | 268 | 94 | _ | 0 | 85 | 85 | 138 | _ | 0 | 3 | 4 | 3 |
| Georgia | _ | 3 | 11 | 106 | 37 | _ | 5 | 52 | 154 | 206 | 1 | 1 | 5 | 21 | 33 |
| Maryland [†] North Carolina | 4 | 3 0 | 10 65 | 53 199 | 50 76 | N | 6 4 | 13 4 | 146 N | 238 N | | 1 10 | 7 36 | 24 190 | 26 77 |
| South Carolina† | 12 | 3 | 16 | 107 | 52 | _ | 0 | 0 | _ | _ | _ | 0 | 9 | 12 | 15 |
| Virginia [†] West Virginia | 2 1 | 3 0 | 24 2 | 79 7 | 57 6 | 6 4 | 11 1 | 24 6 | 282 63 | 307 59 | _ | 2 | 15 1 | 23 2 | 34 6 |
| E.S. Central | 5 | 12 | 33 | 356 | 142 | _ | 3 | 7 | 63 | 90 | 3 | 4 | 23 | 97 | 104 |
| Alabama† | _ | 3 | 19 | 127 | 19 | _ | ő | ó | _ | _ | _ | 1 | 7 | 20 | 30 |
| Kentucky Mississippi | 3 | 4 1 | 15 4 | 110 24 | 29 61 | _ | 1 0 | 4 2 | 29 | 16 2 | _ | 0 0 | 0 3 | 4 | 1 4 |
| Mississippi Tennessee [†] | 2 | 2 | 14 | 95 | 33 | _ | 2 | 6 | 34 | 72 | 3 | 3 | 19 | 73 | 69 |
| W.S. Central | 1 | 40 | 389 | 785 | 458 | 4 | 0 | 9 | 31 | 52 | 27 | 2 | 161 | 72 | 81 |
| Arkansas† | _ | 2 | 38 | 35 | 43 | 1 | 0 | 5 | 23 | 34 | _ | 0 | 61 | 22 | 8 |
| Louisiana Oklahoma | 1 | 2 0 | 7 45 | 50 16 | 27 13 | 3 | 0 | 0 9 | 7 | 16 | 27 | 0 0 | 2 98 | 2 37 | 3 54 |
| Texas [†] | _ | 33 | 304 | 684 | 375 | _ | 0 | 1 | 1 | 2 | _ | 1 | 6 | 11 | 16 |
| Mountain | 3 | 15 | 31 | 410 | 475 | 1 N | 2 | 9 0 | 51 N | 32 | _ | 1 | 3 | 12 2 | 14 |
| Arizona Colorado | 3 | 3 4 | 8 12 | 95 151 | 136 78 | | 0 | 0 | | N | _ | 0 | 2 1 | _ | 5 |
| Idaho† | _ | 1 | 5 | 41 | 20 | _ | 0 | 2 | | 2 | _ | 0 | 1 | _ | _ |
| Montana [†] Nevada [†] | _ | 0 0 | 4 3 | 9 7 | 61 18 | 1 | 0 0 | 4 5 | 14 2 | 1 3 | _ | 0 | 2 2 | 7 1 | 2 |
| New Mexico† | _ | 1 | 10 | 30 | 26 | | 0 | 2 | 15 | 18 | _ | ő | 1 | i | 1 |
| Utah Wyomina [†] | _ | 3 0 | 19 2 | 76 1 | 128 8 | _ | 0 | 6 4 | 3 17 | 2 6 | _ | 0 0 | 1 2 | 1 | 2 4 |
| Wyoming [†] Pacific | 9 | 19 | 98 | 358 | 561 | 5 | 4 | 13 | 107 | 87 | _ | 0 | 1 | _ | 2 |
| Alaska | _ | 3 | 21 | 28 | 48 | _ | Ó | 2 | 9 | 12 | N | 0 | Ö | 2 N | N |
| California | _ | 5 | 19 | 58 | 283 | 5 | 4 | 12 | 98 | 73 | | 0 | 1 | 2 | N |
| Hawaii Oregon [†] | _ | 0 3 | 3 14 | 16 110 | 6 88 | _ | 0 0 | 0 2 | _ | | <u>N</u> | 0 0 | 0 1 | N | N 2 |
| Washington | 9 | 6 | 76 | 146 | 136 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| American Samoa | _ | 0 | 0 | _ | _ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| C.N.M.I. Guam | _ | | | _ | _ | _ | | | _ | _ | N | 0 | | N | N |
| Puerto Rico | _ | 0 | 1 | 1 | _ | _ | 1 | 5 | 22 | 30 | N | 0 | ő | N | N |
| U.S. Virgin Islands | _ | 0 | 0 | _ | _ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |

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U: Unavailable. —: No reported cases. N: Not reportable. 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).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 11, 2009, and July 5, 2008 (27th week)*

| | | s | almonello | sis | | Shi | ga toxin-pı | oducing | E. coli (ST | EC)† | | | Shigellosis | | |
|--|------------------------|----------------------------|-----------------------------|-----------------------------------|-----------------------------------|---------------|-----------------------|--------------------------|---------------------------|-----------------------------|-----------------------|--------------------------|----------------------------|-----------------------------------|----------------------------------|
| | | | vious | | | | | ious | | | | | vious | | |
| Reporting area | Current week | Med Med | weeks Max | Cum 2009 | Cum 2008 | Current week | Med | eeks Max | Cum 2009 | Cum 2008 | Current week | Med | veeks Max | Cum 2009 | Cum 2008 |
| United States | 652 | 778 | 2,324 | 16,959 | 19.012 | 39 | 74 | 255 | 1,482 | 1,821 | 179 | 388 | 1,268 | 7,395 | 8,995 |
| New England Connecticut Maine§ | 1 | 26 0 2 | 215 189 8 | 755 189 52 | 1,218 491 68 | 1 — | 3 0 0 | 30 30 3 | 77 30 9 | 119 47 3 | _ | 3 0 0 | 21 16 6 | 69 16 2 | 112 40 3 |
| Massachusetts New Hampshire Rhode Island§ | <u>1</u> | 17 3 2 | 51 42 9 | 263 160 63 | 510 67 41 | _ 1 _ | 1 1 0 | 11 3 1 | 15 18 — | 45 12 7 | | 2 0 0 | 9 1 1 | 40 1 7 | 58 3 7 |
| Vermont§ | _ | 1 | 7 | 28 | 41 | _ | 0 | 6 | 5 | 5 | _ | 0 | 2 | 3 | 1 |
| Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania | 66 40 26 | 85 12 24 18 29 | 201 55 65 49 78 | 1,867 122 531 453 761 | 2,376 571 563 555 687 | $\frac{3}{3}$ | 6 1 3 1 0 | 27 12 12 5 8 | 99 14 47 32 6 | 191 64 51 25 51 | 25 4 21 | 54 18 6 9 18 | 93 38 23 23 47 | 1,349 249 103 209 788 | 1,157 318 337 436 66 |
| E.N. Central | 45 | 87 25 | 168 50 | 2,058 460 | 2,370 704 | 7 | 12 1 | 74 10 | 242 34 | 280 44 | 42 | 84 15 | 132 34 | 1,414 284 | 1,607 512 |
| Indiana Michigan | | 6 18 | 50 50 38 | 127 454 | 240 434 | 3 | 1 3 | 14 43 | 23 67 | 19 61 | _ _ 2 | 1 5 | 21 24 | 26 126 | 401 53 |
| Ohio Wisconsin | 38 | 27 13 | 52 30 | 721 296 | 631 361 | 4 | 3 | 15 16 | 60 58 | 69 87 | 40 | 42 11 | 80 42 | 741 237 | 472 169 |
| W.N. Central lowa | 32 4 | 50 7 | 148 16 | 1,243 198 | 1,211 216 | 11 4 | 12 3 | 58 21 | 253 76 | 290 72 | 6 | 14 3 | 49 12 | 376 43 | 437 79 |
| Kansas Minnesota | 6 14 | 7 12 | 29 69 | 176 299 | 189 278 | 2 1 | 1 2 | 7 21 | 22 67 | 22 53 | 3 2 | 3 | 11 25 | 129 36 | 9 |
| Missouri Nebraska [§] | _ 8 | 11 5 | 48 41 | 209 205 | 317 124 | - | 2 2 | 11 30 | 41 36 | 82 37 | _ 1 | 3 | 33 3 | 151 12 | 134 |
| North Dakota South Dakota | _ | 0 | 30 22 | 32 124 | 21 66 | _ | 0 | 28 4 | 3 | 1 23 | _ | 0 | 9 | 3 2 | 28 74 |
| S. Atlantic Delaware | 258 2 | 238 2 | 457 9 | 4,623 36 | 4,524 66 | 1 | 13 0 | 48 2 | 295 8 | 320 7 | 25 — | 48 0 | 85 8 | 1,172 41 | 1,764 7 |
| District of Columbia Florida | 148 | 0 100 | 2 174 | 1,997 | 37 1,948 | _ | 0 2 | 1 10 | <u> </u> | 4 75 | | 0 10 | 2 26 | 217 | 8 478 |
| Georgia Maryland [§] | 60 26 | 39 16 | 96 35 | 833 348 | 824 368 | _ | 1 2 | 8 11 | 33 41 | 38 48 | 9 5 | 13 5 | 30 12 | 325 183 | 707 33 |
| North Carolina South Carolina§ | 11 8 | 29 16 | 106 57 | 695 275 | 388 394 | 1 | 2 0 | 21 3 | 67 9 | 33 21 | 2 4 | 6 4 | 27 17 | 235 69 | 54 367 |
| Virginia [§] West Virginia | 3 — | 19 4 | 88 23 | 345 94 | 394 105 | _ | 3 0 | 27 3 | 47 9 | 70 24 | 3 | 4 0 | 59 3 | 97 5 | 90 20 |
| E.S. Central Alabama [§] | 31 3 | 51 15 | 140 49 | 1,036 277 | 1,197 316 | _ | 5 1 | 12 4 | 103 23 | 122 39 | 13 1 | 22 4 | 58 12 | 497 83 | 1,092 259 |
| Kentucky Mississippi | 3 5 | 10 12 | 18 57 | 216 235 | 196 367 | 1 | 2 0 | 7 1 | 33 6 | 28 3 | 3 1 | 2 1 | 25 6 | 128 16 | 193 240 |
| Tennessee [§] W.S. Central | 20 46 | 14 84 | 62 1,334 | 308 1,326 | 318 2,348 | 1 3 | 2 5 | 6 139 | 41 59 | 52 156 | 8 33 | 13 88 | 48 967 | 270 1,395 | 400 1,860 |
| Arkansas [§] Louisiana | 21 10 | 12 16 | 39 54 | 246 277 | 230 396 | ž — | 1 0 | 5 1 | 14 | 26 5 | 5 1 | 10 5 | 25 26 | 182 76 | 222 340 |
| Oklahoma Texas [§] | 15 | 14 51 | 102 1,205 | 258 545 | 263 1,459 | 1 | 0 | 82 55 | 10 35 | 15 110 | 6 21 | 4 60 | 61 889 | 116 1,021 | 52 1,246 |
| Mountain Arizona | 36 11 | 56 20 | 109 43 | 1,263 450 | 1,515 421 | 2 | 10 1 | 40 4 | 192 23 | 212 33 | 14 9 | 28 17 | 54 35 | 563 418 | 351 158 |
| Colorado Idaho§ | 21 — | 12 3 | 23 12 | 301 77 | 392 79 | 1 | 3 2 | 18 15 | 78 28 | 59 41 | 4 | 2 | 11 2 | 45 4 | 39 5 |
| Montana [§] Nevada [§] | _ 3 | 2 4 | 7 12 | 60 118 | 48 112 | <u> </u> | 0 | 3 | 9 12 | 20 10 | <u> </u> | 0 2 | 5 13 | 13 32 | 2 103 |
| New Mexico [§] Utah | 1 | 6 7 | 25 19 | 110 125 | 280 144 | | 1 2 | 4 9 | 16 25 | 22 20 | <u> </u> | 3 | 12 | 46 5 | 30 11 |
| Wyoming§ | _ | 1 | 5 | 22 | 39 | _ | 0 | 2 | 1 | 7 | _ | 0 | 1 | _ | 3 |
| Pacific Alaska | 137 | 121 1 | 537 4 | 2,788 25 | 2,253 | 9 | 10 0 | 31 1 | 162 | 131 3 | 21 — | 29 0 | 82 1 | 560 2 | 615 |
| California Hawaii | 106 | 94 5 | 516 15 | 2,166 113 | 1,641 111 | _ | 5 0 | 15 2 | 96 2 | 73 5 | 17 — | 25 1 | 75 3 | 448 13 | 532 21 |
| Oregon [§] Washington | 31 | 7 11 | 20 85 | 181 303 | 204 275 | 7 | 1 3 | 7 16 | 12 52 | 17 33 | 4 | 1 2 | 10 12 | 17 80 | 28 34 |
| American Samoa C.N.M.I. | _ | 0 | 1 | _ | 1 | _ | | 0 | _ | _ | _ | 0 | | 3 | 1 |
| Guam Puerto Rico | _ | 0 13 | 2 40 | 185 | 8 303 | _ | 0 | 0 | _ | _ | _ | 0 | 1 4 | 5 | 14 10 |
| U.S. Virgin Islands | | 0 | 0 | | | | 0 | 0 | _ | | | 0 | 0 | | |

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

* 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).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 11, 2009, and July 5, 2008 (27th week)*

| | ; | Streptococcal | diseases, inv | asive, group A | | Streptococc | us pneumonia | e, invasive di Age <5 years | | ıg resistant [†] |
|--|----------|---------------|---------------|----------------|------------|--------------|--------------|--------------------------------|---------------|---------------------------|
| | Current | Prev 52 w | | Cum | Cum | Current | Prev 52 w | | Cum | Cum |
| Reporting area | week | Med | Max | 2009 | 2008 | week | Med | Max | 2009 | 2008 |
| United States | 57 | 98 | 239 | 3,126 | 3,462 | 22 | 33 | 122 | 949 | 1,063 |
| New England | _ | 5 | 28 | 169 | 253 | _ | 1 | 12 | 24 | 53 |
| Connecticut Maine [§] | _ | 0 0 | 21 3 | 49 10 | 66 17 | _ | 0 0 | 11 1 | | 1 |
| Massachusetts | _ | 2 | 10 | 60 | 123 | _ | 1 | 2 | 15 | 41 |
| New Hampshire Rhode Island [§] | _ | 1 0 | 4 2 | 28 9 | 16 20 | _ | 0 0 | 1 2 | 5 | 7 4 |
| Vermont§ | = | 0 | 3 | 13 | 11 | _ | 0 | 1 | | _ |
| Mid. Atlantic | 9 | 18 | 38 | 600 | 721 | 6 | 4 | 33 | 143 | 139 |
| New Jersey New York (Upstate) | 7 | 1 6 | 6 25 | 5 231 | 130 228 | _ 1 | 1 2 | 4 17 | 14 72 | 40 63 |
| New York City | _ | 4 | 12 | 124 | 134 | 5 | 0 | 31 | 72 57 | 36 |
| Pennsylvania | 2 | 6 | 18 | 240 | 229 | N | 0 | 2 | N | N |
| E.N. Central | 11 | 16 | 42 | 631 | 692 | 2 | 5 | 18 | 140 | 197 |
| Illinois Indiana | _ | 4 3 | 12 23 | 163 107 | 189 86 | _ | 1 0 | 5 13 | 15 19 | 57 20 |
| Michigan | _ | 3 | 11 | 106 | 118 | _ | 1 | 5 | 43 | 53 |
| Ohio Wisconsin | 2 9 | 4 2 | 13 10 | 161 94 | 188 | | 1 1 | 6 4 | 44 19 | 36 31 |
| W.N. Central | 2 | 6 | 37 | 274 | 111 258 | 10 | 2 | 11 | 79 | 50 |
| lowa | _ | 0 | 0 | | 256 | - | 0 | 0 | 79 | |
| Kansas | _ | 1 | 5 | 37 | 28 | N | 0 | 1 | N | N |
| Minnesota Missouri | _ | 0 2 | 34 8 | 118 61 | 122 62 | 10 | 0 0 | 7 4 | 41 26 | 11 23 |
| Nebraska§ | 1 | 1 | 3 | 30 | 23 | _ | 0 | 1 | 4 | 6 |
| North Dakota South Dakota | 1 | 0 0 | 4 3 | 11 17 | 8 15 | _ | 0 | 3 2 | 4 4 | 5 5 |
| S. Atlantic | <u> </u> | | 3 47 | 698 | 681 | _ | 6 | 16 | 193 | |
| Delaware | <u> </u> | 22 0 | 47 1 | 8 | 6 | _ | 0 | 0 | 193 | 205 |
| District of Columbia | _ | 0 | 2 | _ | 8 | N | 0 | 0 | N | N |
| Florida Georgia | 5 3 | 6 5 | 12 13 | 167 164 | 150 154 | _ | 1 2 | 6 6 | 46 49 | 39 55 |
| Maryland [§] | 8 | 3 | 10 | 108 | 125 | _ | 1 | 3 | 40 | 40 |
| North Carolina | 3 | 2 1 | 12 | 76 | 86 | N | 0 | 0 | N | N |
| South Carolina [§] Virginia [§] | <u>2</u> | 3 | 5 9 | 43 104 | 40 85 | _ | 1 0 | 6 4 | 32 18 | 32 34 |
| West Virginia | _ | 1 | 4 | 28 | 27 | _ | 0 | 2 | 8 | 5 |
| E.S. Central | 1 | 4 | 10 | 126 | 115 | 2 | 1 | 6 | 37 | 56 |
| Alabama [§] Kentucky | <u>N</u> | 0 1 | 0 5 | N 23 | N 25 | N N | 0 0 | 0 | N N | N N |
| Mississippi | N | 0 | 0 | N | N | _ | ő | 2 | _ | 7 |
| Tennessee§ | 1 | 3 | 9 | 103 | 90 | 2 | 1 | 6 | 37 | 49 |
| W.S. Central Arkansas§ | 7 | 9 | 79 2 | 273 12 | 290 7 | _ | 6 0 | 46 4 | 172 17 | 158 10 |
| Louisiana | _ | 0 | 3 | 9 | 11 | = | 0 | 3 | 17 | 8 |
| Oklahoma | 3 | 2 | 20 | 95 | 68 | _ | 1 | 7 | 33 | 47 |
| Texas [§] | 4 | 6 | 59 | 157 | 204 | _ | 4 | 34 | 109 | 93 |
| Mountain Arizona | 6 5 | 10 3 | 22 7 | 276 95 | 375 129 | 2 | 4 2 | 16 10 | 143 79 | 173 79 |
| Colorado | 1 | 3 | 9 | 97 | 95 | 2 | 1 | 4 | 30 | 40 |
| Idaho [§] Montana [§] | N | 0 0 | 2 0 | 3 N | 12 N | N | 0 0 | 2 0 | 6 N | 3 N |
| Nevada§ | <u> </u> | 0 | 1 | 5 | 6 | <u> </u> | 0 | 1 | | 2 |
| New Mexico§ | _ | 2 | 7 | 49 | 93 | _ | 0 | 4 | 15 | 25 |
| Utah Wyoming [§] | _ | 1 0 | 6 1 | 26 1 | 34 6 | _ | 0 0 | 4 1 | 13 | 23 1 |
| Pacific | _ | 3 | 9 | 79 | 77 | _ | 0 | 3 | 18 | 32 |
| Alaska | _ | 0 | 4 | 10 | 16 | _ | 0 | 2 | 13 | 21 |
| California Hawaii | <u>N</u> | 0 3 | 0 8 | N 69 | N 61 | <u>N</u> | 0 | 0 2 | N 5 | N 11 |
| Oregon§ | N | 0 | 0 | N | N | N | 0 | 0 | o N | N |
| Washington | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| American Samoa | _ | 0 | 0 | _ | 30 | N | 0 | 0 | N | N |
| C.N.M.I. Guam | _ | | | _ | _ | _ | | | _ | _ |
| Puerto Rico | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| U.S. Virgin Islands | _ | 0 | 0 | _ | _ | N | 0 | 0 | N | N |

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

U: Unavailable. —: No reported cases. N: Not reportable. 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).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 11, 2009, and July 5, 2008 (27th week)*

| (27th Week) | | s | treptococ | cus pneur | noniae, in | vasive dise | ease, dru | g resistan | t [†] | | - | | | | |
|---|-----------------|----------|----------------|-------------|-------------|-----------------|----------------|----------------|----------------|-------------|---------------------------------|----------|---------------|-------------|-------------|
| | All ages | | | | | Aged <5 years | | | | | Syphilis, primary and secondary | | | | |
| | Cumant | | rious reeks | C | C | Commont | | rious reeks | C | 0 | Cumant | | rious eeks | C | |
| 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 | 23 | 58 | 276 | 1,732 | 1,983 | 4 | 9 | 21 | 267 | 290 | 134 | 265 | 452 | 6,461 | 6,316 |
| New England Connecticut | _ | 1 0 | 48 48 | 30 | 42 | _ | 0 | 5 5 | 1 | 5 | 4 | 5 1 | 15 5 | 162 32 | 160 11 |
| Maine§ | _ | 0 | 2 | 8 | 14 | _ | Ö | 1 | _ | _ | _ | Ö | 2 | 1 | 6 |
| Massachusetts New Hampshire | _ | 0 0 | 1 3 | 1 5 | _ | _ | 0 0 | 1 0 | 1 | _ | 4 | 4 0 | 11 2 | 115 10 | 124 8 |
| Rhode Island [§] Vermont [§] | _ | 0 | 6 1 | 7 9 | 15 13 | _ | 0 | 1 0 | _ | 3 2 | _ | 0 | 5 2 | 4 | 6 5 |
| Mid. Atlantic | 2 | 4 | 14 | 104 | 201 | _ | 0 | 3 | 19 | 16 | 25 | 33 | 51 | 928 | 875 |
| New Jersey New York (Upstate) | 1 | 0 1 | 0 10 | <u>-</u> | 39 | _ | 0 0 | 0 2 | 10 | 5 | _ | 4 2 | 13 8 | 101 56 | 109 76 |
| New York City Pennsylvania | <u> </u> | 0 1 | 4 8 | 2 57 | 85 77 | _ | 0 | 2 | 9 | 11 | 21 4 | 22 6 | 36 12 | 589 182 | 540 150 |
| E.N. Central | 5 | 10 | 41 | 388 | 435 | 2 | 1 | 7 | 55 | 59 | 3 | 24 | 44 | 488 | 565 |
| Illinois Indiana | <u>N</u> | 0 2 | 0 32 | N 124 | N 150 | N — | 0 | 0 6 | N 18 | N 18 | _ 1 | 9 2 | 19 10 | 126 76 | 214 70 |
| Michigan Ohio | 5 | 0 7 | 2 18 | 17 247 | 15 270 | | 0 | 1 4 | 2 35 | 2 39 | 1 | 4 6 | 18 15 | 125 137 | 108 147 |
| Wisconsin | _ | 0 | 0 | _ | _ | _ | Ó | 0 | _ | _ | | 1 | 4 | 24 | 26 |
| W.N. Central lowa | _ | 2 | 161 0 | 87 | 145 | _ | 1 0 | 3 0 | 20 | 28 | 1 | 6 0 | 14 2 | 155 12 | 213 10 |
| Kansas | _ | 1 | 5 | 38 | 57 | _ | 0 | 2 | 13 | 3 | _ | 0 | 3 | 13 | 17 |
| Minnesota Missouri | _ | 0 1 | 156 5 | 37 | 20 63 | _ | 0 0 | 3 1 | 5 | 20 2 | _ | 2 3 | 6 10 | 34 76 | 52 127 |
| Nebraska [§] North Dakota | _ | 0 | 0 3 | 10 | _ 2 | _ | 0 | 0 0 | _ | _ | 1 | 0 | 2 1 | 16 3 | 7 |
| South Dakota | _ | ő | 2 | 2 | 3 | _ | Ö | 2 | 2 | 3 | _ | Ö | i | 1 | _ |
| S. Atlantic Delaware | 14 | 25 0 | 53 2 | 825 10 | 783 2 | 1 | 4 0 | 14 0 | 123 | 119 | 37 3 | 63 0 | 262 3 | 1,543 20 | 1,345 8 |
| District of Columbia | N | 0 | 0 | N | N | N | 0 | 0 | N | N | _ | 3 | 9 | 88 | 68 |
| Florida Georgia | 8 6 | 15 8 | 36 25 | 498 239 | 426 272 | 1 | 3 1 | 13 5 | 79 37 | 75 37 | 3 | 20 13 | 31 227 | 489 303 | 520 250 |
| Maryland [§] North Carolina | N | 0 | 1 0 | 4 N | 4 N | N | 0 0 | 0 0 | N | 1 N | 4 16 | 6 8 | 16 19 | 150 280 | 171 145 |
| South Carolina§ Virginia§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 2 | 2 5 | 6 16 | 58 152 | 45 133 |
| West Virginia | | 2 | 13 | 74 | 79 | <u> </u> | Ö | 3 | 7 | 6 | _ | 0 | 1 | 3 | 5 |
| E.S. Central Alabama§ | 1 N | 5 0 | 25 0 | 182 N | 223 N | 1 N | 1 0 | 3 0 | 27 N | 41 N | 14 | 22 8 | 36 16 | 575 222 | 535 231 |
| Kentucky | | 1 | 5 | 51 | 55 | _ | 0 | 2 | 7 | 9 | 2 | 1 | 10 | 28 | 46 |
| Mississippi Tennessee§ | <u></u> | 0 3 | 3 22 | 131 | 26 142 | <u> </u> | 0 | 1 3 | 20 | 8 24 | 5 7 | 3 8 | 18 19 | 103 222 | 72 186 |
| W.S. Central | 1 | 1 | 6 | 57 | 71 | _ | 0 | 3 | 10 | 12 | 40 | 51 | 80 | 1,304 | 1,046 |
| Arkansas [§] Louisiana | <u>1</u> | 0 1 | 5 5 | 34 23 | 13 58 | _ | 0 0 | 3 1 | 7 3 | 3 9 | 8 6 | 4 14 | 35 40 | 107 297 | 73 260 |
| Oklahoma Texas§ | N | 0 | 0 | N | N | N — | 0 | 0 | N | N | 26 | 1 31 | 7 46 | 29 871 | 42 671 |
| Mountain | _ | 2 | 7 | 57 | 82 | _ | 0 | 3 | 11 | 9 | 3 | 8 | 18 | 155 | 335 |
| Arizona Colorado | _ | 0 | 0 0 | _ | _ | _ | 0 | 0 0 | _ | _ | _ | 3 1 | 11 5 | 21 48 | 170 91 |
| Idaho [§] Montana [§] | N | 0 | 1 | N | N | N | 0 | 1 | N | N | _ | 0 | 2 | 3 | 2 |
| Nevada [§] | _ | 1 | 4 | 27 | 40 | _ | 0 | 2 | 6 | 4 | 1 | 2 | 7 | 56 | 39 |
| New Mexico§ Utah | _ | 0 1 | 0 6 | 23 | 42 | _ | 0 | 0 3 | 4 | <u> </u> | 1 | 1 0 | 5 2 | 25 — | 17 14 |
| Wyoming§ | _ | 0 | 2 | 7 | _ | _ | 0 | 1 | 1 | _ | 1 | 0 | 1 | 2 | 2 |
| Pacific Alaska | _ | 0 0 | 1 0 | 2 | 1 | | 0 0 | 1 0 | 1 | 1 | 7 | 46 0 | 67 1 | 1,151 — | 1,242 |
| California Hawaii | N | 0 | 0 | N 2 | N 1 | N | 0 | 0 | N 1 | N 1 | 4 | 43 0 | 60 3 | 1,056 16 | 1,123 13 |
| Oregon§ | N | 0 | Ö | N | Ň | N | 0 | Ô | Ň | N | 2 | 0 | 4 | 23 | 7 |
| Washington American Samoa | N N | 0 0 | 0 0 | N N | N N | N N | 0 0 | 0 0 | N N | N N | 1 — | 2 0 | 9 0 | 56 — | 99 |
| C.N.M.I. Guam | = | <u>_</u> | - | = | | <u></u> | - 0 | - | | _ | _ | <u>_</u> | <u>_</u> | _ | _ |
| Puerto Rico | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 3 | 11 | 107 | 88 |
| U.S. Virgin Islands | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | |

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

U: Unavailable. —: No reported cases. N: Not reportable. 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 caused by drug-resistant *S. pneumoniae* (DRSP) (NNDSS event code 11720).

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 11, 2009, and July 5, 2008 (27th week)*

| | | | | West Nile virus disease [†] | | | | | | | | | | | |
|--|------------------------|-----------|----------------|--------------------------------------|----------------|---------------|--------------|---------|-------------|-------------|-------------------------------|--------|----------------|-------------|-------------|
| | Varicella (chickenpox) | | | | | Neuroinvasive | | | | | Nonneuroinvasive [§] | | | | |
| | | | vious veeks | | | | Prev 52 w | | | | | | rious reeks | | |
| 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 | 52 | 449 | 1,035 | 11,033 | 19,047 | | 0 | 75 | 5 | 31 | _ | 0 | 77 | 3 | 54 |
| New England | _ | 13 | 46 | 164 | 1,002 | _ | 0 | 2 | _ | _ | _ | 0 | 1 | _ | 2 |
| Connecticut Maine [¶] | _ | 0 0 | 21 11 | _ | 501 160 | _ | 0 0 | 2 0 | _ | _ | _ | 0 0 | 1 0 | _ | _2 |
| Massachusetts | _ | 0 | 0 | - | _ | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ |
| New Hampshire Rhode Island [¶] | _ | 4 0 | 11 1 | 117 4 | 164 | _ | 0 | 0 1 | _ | _ | _ | 0 | 0 0 | _ | _ |
| Vermont [¶] | _ | 3 | 17 | 43 | 177 | _ | Ö | Ó | _ | _ | _ | 0 | Ö | _ | _ |
| Mid. Atlantic | 13 | 38 | 58 | 941 | 1,499 | _ | 0 | 8 | _ | _ | _ | 0 | 4 | _ | _ |
| New Jersey New York (Upstate) | N N | 0 | 0 | N N | N N | _ | 0 | 2 5 | _ | _ | _ | 0 | 1 2 | _ | _ |
| New York City | _ | 0 | 0 | _ | _ | _ | Ō | 2 | _ | _ | _ | 0 | 2 | _ | _ |
| Pennsylvania | 13 | 38 | 58 | 941 | 1,499 | _ | 0 | 2 | _ | _ | _ | 0 | 1 | _ | _ |
| E.N. Central Illinois | 11 | 151 33 | 254 73 | 3,938 822 | 4,653 643 | _ | 0 | 8 4 | _ | _ | _ | 0 | 3 2 | _ | _ |
| Indiana | 4 | 0 | 19 | 172 | _ | _ | 0 | 1 | _ | _ | _ | 0 | 1 | _ | _ |
| Michigan Ohio | 5 2 | 48 42 | 90 91 | 1,250 1,344 | 1,983 1,503 | _ | 0 | 4 3 | _ | _ | _ | 0 0 | 2 1 | _ | _ |
| Wisconsin | _ | 13 | 54 | 350 | 524 | _ | 0 | 2 | | _ | | 0 | i | _ | _ |
| W.N. Central | 2 | 22 | 114 | 631 | 740 | _ | 0 | 6 | _ | 3 | _ | 0 | 21 | 2 | 13 |
| Iowa Kansas | N 1 | 0 6 | 0 22 | N 176 | N 295 | _ | 0 0 | 2 2 | _ | _ | _ | 0 0 | 1 3 | _ | <u> </u> |
| Minnesota | | 0 | 0 | | | _ | 0 | 2 | | _ | | 0 | 4 | _ | _ |
| Missouri | _ | 11 | 51 | 400 | 417 | _ | 0 | 3 | _ | 1 | _ | 0 | 1 | _ | _ |
| Nebraska [¶] North Dakota | N 1 | 0 0 | 0 108 | N 55 | N | _ | 0 | 1 2 | _ | _ | _ | 0 | 6 11 | _ | 1 5 |
| South Dakota | | ő | 4 | _ | 28 | _ | ő | 5 | _ | _ | _ | ő | 6 | 2 | 3 |
| S. Atlantic | 13 | 56 | 146 | 1,291 | 3,028 | _ | 0 | 4 | _ | 2 | _ | 0 | 4 | _ | 1 |
| Delaware District of Columbia | _ | 0 | 4 3 | 2 | 22 17 | _ | 0 0 | 0 2 | _ | _ | _ | 0 0 | 1 | _ | _ |
| Florida | 12 | 28 | 67 | 858 | 1,087 | _ | 0 | 2 | _ | _ | _ | 0 | 0 | _ | _ |
| Georgia Maryland¶ | N N | 0 | 0 | N N | N N | _ | 0 0 | 1 2 | _ | _ | _ | 0 0 | 1 3 | _ | 1 |
| North Carolina | N | ő | 0 | N | N | _ | 0 | 1 | _ | 1 | _ | 0 | 1 | _ | _ |
| South Carolina [¶] Virginia [¶] | _ | 4 6 | 54 119 | 154 28 | 563 902 | _ | 0 0 | 0 0 | _ | _ | _ | 0 | 1 1 | _ | _ |
| West Virginia | 1 | 9 | 32 | 249 | 437 | _ | 0 | 0 | _ | 1 | _ | 0 | 0 | _ | _ |
| E.S. Central | _ | 14 | 28 | 364 | 821 | _ | 0 | 7 | 1 | 5 | _ | 0 | 9 | _ | 9 |
| Alabama [¶] Kentucky | N | 14 0 | 28 0 | 363 N | 811 N | _ | 0 | 3 1 | _ | _ | _ | 0 0 | 2 0 | _ | 1 |
| Mississippi | _ | Ö | 1 | 1 | 10 | _ | 0 | 4 | | 2 | | 0 | 8 | _ | 6 |
| Tennessee [¶] | N | 0 | 0 | N | N | _ | 0 | 2 | 1 | 3 | _ | 0 | 3 | _ | 2 |
| W.S. Central Arkansas [¶] | 1 | 93 4 | 747 47 | 2,895 96 | 5,833 429 | _ | 0 | 8 1 | 2 1 | 8 3 | _ | 0 | 7 1 | _ | 9 |
| Louisiana | 1 | 1 | 6 | 48 | 50 | _ | 0 | 3 | | _ | _ | 0 | 5 | _ | 1 |
| Oklahoma Texas [¶] | N | 0 85 | 0 721 | N 2,751 | N = 254 | _ | 0 0 | 1 6 | _ 1 | 2 | _ | 0 0 | 1 4 | _ | 3 5 |
| Mountain | 12 | 29 | 83 | 748 | 5,354 1,398 | _ | 0 | 12 | 2 | 2 | _ | 0 | 22 | 1 | 13 |
| Arizona | _ | 0 | 0 | _ | ´ — | _ | 0 | 10 | 1 | 1 | _ | 0 | 8 | <u>.</u> | _ |
| Colorado Idaho [¶] | 12 N | 13 0 | 44 0 | 339 N | 556 N | _ | 0 0 | 4 1 | _ 1 | _ 1 | _ | 0 | 10 6 | _ | 10 1 |
| Montana [¶] | _ | 3 | 20 | 105 | 213 | _ | 0 | 0 | | | _ | 0 | 2 | _ | |
| Nevada [¶] New Mexico [¶] | N | 0 | 0 | N | N | _ | 0 | 2 | _ | _ | _ | 0 | 3 | 1 | _ |
| Utah | _ | 4 10 | 20 31 | 114 190 | 140 480 | _ | 0 0 | 1 2 | _ | _ | _ | 0 0 | 1 5 | _ | 1 |
| Wyoming [¶] | _ | 0 | 1 | _ | 9 | _ | 0 | 0 | _ | _ | _ | Ō | 2 | _ | 1 |
| Pacific Alaska | _ | 2 1 | 7 6 | 61 | 73 32 | _ | 0 | 38 0 | _ | 11 | _ | 0 | 23 0 | _ | 7 |
| California | _ | 0 | 0 | 40 | 32 | _ | 0 | 37 | _ | 11 | _ | 0 | 20 | _ | 7 |
| Hawaii | | 1 | 4 | 21 | 41 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Oregon [¶] Washington | N N | 0 | 0 | N N | N N | _ | 0 | 2 1 | _ | _ | _ | 0 0 | 4 | _ | _ |
| American Samoa | N | 0 | 0 | N | N | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| C.N.M.I. | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Guam Puerto Rico | | 1 9 | 3 23 | 273 | 55 349 | _ | 0 | 0 0 | _ | _ | _ | 0 | 0 | _ | _ |
| | | _ | | _, , | 0.0 | | - | _ | | | | _ | | | |

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

U: Unavailable. —: No reported cases. N: Not reportable. 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.

† 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 reportable in all states. Data from states where the condition is not reportable 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 July 11, 2009 (27th week)

| | | All cau | ises, by a | age (year | rs) | | | | 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 | 555 | 378 | 123 | 28 | 15 | 11 | 50 | S. Atlantic | 1,261 | 779 | 317 | 98 | 40 | 27 | 75 |
| Boston, MA | 127 | 71 | 36 | 5 | 8 | 7 | 11 | Atlanta, GA | 151 | 93 | 38 | 14 | 3 | 3 | 9 |
| Bridgeport, CT | 30 | 26 | 3 | _ | _ | 1 | 3 | Baltimore, MD | 135 | 78 | 32 | 14 | 5 | 6 | 18 |
| Cambridge, MA | 11 | 9 | 2 | _ | _ | _ | 2 | Charlotte, NC | 147 | 106 | 25 | 8 | 5 | 3 | 9 |
| Fall River, MA Hartford, CT | 23 47 | 17 29 | 4 13 | 2 4 | _ | _ 1 | 4 2 | Jacksonville, FL Miami, FL | 191 119 | 117 74 | 55 28 | 12 9 | 4 3 | 3 5 | 7 6 |
| Lowell, MA | 23 | 13 | 5 | 4 | 1 | | 1 | Norfolk, VA | 45 | 74 27 | 12 | 2 | 3 | 1 | 1 |
| Lynn, MA | 10 | 6 | 3 | 1 | | _ | i | Richmond, VA | 60 | 32 | 23 | 2 | 2 | i | 3 |
| New Bedford, MA | 24 | 17 | 6 | | 1 | _ | 4 | Savannah, GA | 53 | 34 | 12 | 4 | 3 | | 4 |
| New Haven, CT | 35 | 28 | 4 | 3 | _ | _ | 7 | St. Petersburg, FL | 62 | 48 | 8 | 3 | 2 | 1 | 5 |
| Providence, RI | 79 | 58 | 16 | 3 | 1 | 1 | 4 | Tampa, FL | 208 | 132 | 51 | 17 | 6 | 2 | 12 |
| Somerville, MA | 2 | 1 | 1 | _ | _ | _ | _ | Washington, D.C. | 74 | 26 | 29 | 13 | 4 | 2 | _ |
| Springfield, MA | 32 | 20 | 9 | 1 | 2 | _ | 3 | Wilmington, DE | 16 | 12 | 4 | _ | _ | _ | 1 |
| Waterbury, CT | 47 | 40 | 7 | _ | _ | _ | 1 | E.S. Central | 697 | 469 | 154 | 51 | 11 | 12 | 57 |
| Worcester, MA | 65 | 43 | 14 | 5 | 2 | 1 | 7 | Birmingham, AL | 170 | 109 | 42 | 14 | 3 | 2 | 21 |
| Mid. Atlantic | 1,883 | 1,277 | 413 | 119 | 37 | 36 | 99 | Chattanooga, TN | 93 | 62 | 23 | 6 | 2 | _ | 4 |
| Albany, NY Allentown, PA | 36 24 | 28 15 | 7 6 | _ 1 | 1 1 | 1 | 2 2 | Knoxville, TN | 111 72 | 84 47 | 20 17 | 6 6 | _ | 1 2 | 9 4 |
| Buffalo, NY | 24 74 | 45 | 19 | 5 | 2 | 3 | 9 | Lexington, KY Memphis, TN | /2 U | 47 U | U U | Ü | U | U | U U |
| Camden, NJ | 37 | 26 | 8 | 2 | 1 | _ | 3 | Mobile. AL | 63 | 41 | 14 | 7 | 1 | _ | 2 |
| Elizabeth, NJ | 14 | 7 | 4 | 1 | 2 | _ | _ | Montgomery, AL | 42 | 23 | 12 | 3 | 2 | 2 | 6 |
| Erie, PA | 66 | 51 | 12 | 3 | _ | _ | 5 | Nashville, TN | 146 | 103 | 26 | 9 | 3 | 5 | 11 |
| Jersey City, NJ | 10 | 8 | 2 | _ | _ | _ | 2 | W.S. Central | 1,182 | 748 | 300 | 70 | 38 | 25 | 53 |
| New York City, NY | 1,068 | 731 | 236 | 66 | 18 | 16 | 36 | Austin, TX | 66 | 39 | 17 | 6 | 4 | _ | 3 |
| Newark, NJ | 54 | 22 | 11 | 15 | _ | 6 | 2 | Baton Rouge, LA | U | U | U | U | U | U | U |
| Paterson, NJ | 13 | 8 | 4 | 1 | _ | _ | 2 | Corpus Christi, TX | U | U | U | U | U | U | U |
| Philadelphia, PA | 122 | 72 | 30 | 11 | 5 | 4 | 10 | Dallas, TX | 178 | 106 | 52 | 13 | 3 | 4 | 6 |
| Pittsburgh, PA | 34 | 25 | 4 7 | 1 | 2 | 2 | 4 | El Paso, TX | 69 | 51 | 14 | _ U | 3 | 1 U | 3 |
| Reading, PA Rochester, NY | 28 155 | 18 111 | 7 36 | 1 5 | _ | 2 1 | 1 10 | Fort Worth, TX Houston, TX | U 400 | U 233 | U 115 | 26 | U 17 | 9 | U 15 |
| Schenectady, NY | 21 | 13 | 4 | 4 | _ | | 2 | Little Rock, AR | 400 U | 233 U | U | U | Ü | U | Ü |
| Scranton, PA | 22 | 19 | 1 | 1 | 1 | _ | 2 | New Orleans, LA | Ü | Ŭ | Ü | Ŭ | Ŭ | ŭ | Ŭ |
| Syracuse, NY | 50 | 35 | 13 | | 1 | 1 | 3 | San Antonio, TX | 256 | 174 | 55 | 18 | 6 | 3 | 17 |
| Trenton, NJ | 26 | 18 | 5 | 2 | 1 | _ | _ | Shreveport, LA | 69 | 47 | 14 | 3 | 1 | 4 | 4 |
| Utica, NY | 16 | 13 | 3 | _ | _ | _ | 3 | Tulsa, OK | 144 | 98 | 33 | 4 | 4 | 4 | 5 |
| Yonkers, NY | 13 | 12 | 1 | _ | _ | _ | 1 | Mountain | 1,112 | 731 | 247 | 96 | 20 | 18 | 63 |
| E.N. Central | 1,978 | 1,280 | 457 | 132 | 49 | 53 | 120 | Albuquerque, NM | 126 | 88 | 26 | 10 | 2 | _ | 3 |
| Akron, OH | 51 | 31 | 14 | 5 | 1 | _ | 2 | Boise, ID | 53 | 36 | 9 | 4 | 3 | 1 | 2 |
| Canton, OH | 38 | 23 | 10 | 3 | 1 | 1 | 6 | Colorado Springs, CO | 99 | 63 | 25 | 8 | 1 | 2 | _ |
| Chicago, IL | 384 | 174 | 124 | 47 7 | 17 5 | 16 | 30 7 | Denver, CO | 76 | 49 | 18 | 7 | 1 | 1 1 | 5 |
| Cincinnati, OH Cleveland, OH | 95 262 | 54 199 | 21 41 | 13 | 5 4 | 8 5 | 12 | Las Vegas, NV Ogden, UT | 211 34 | 138 27 | 46 4 | 20 2 | 6 | 1 | 18 |
| Columbus, OH | 219 | 136 | 56 | 17 | 8 | 2 | 8 | Phoenix, AZ | 192 | 112 | 52 | 19 | 3 | 6 | 9 |
| Dayton, OH | 126 | 97 | 21 | 4 | 3 | 1 | 7 | Pueblo, CO | 46 | 33 | 11 | 1 | 1 | _ | 1 |
| Detroit, MI | Ü | Ü | U | Ú | Ü | Ú | Ú | Salt Lake City, UT | 141 | 92 | 30 | 14 | 1 | 4 | 15 |
| Evansville, IN | 50 | 33 | 11 | 2 | 1 | 3 | 5 | Tucson, AZ | 134 | 93 | 26 | 11 | 2 | 2 | 10 |
| Fort Wayne, IN | 50 | 31 | 14 | 3 | _ | 2 | 3 | Pacific | 1,749 | 1,178 | 402 | 104 | 36 | 29 | 169 |
| Gary, IN | 8 | 3 | 4 | 1 | _ | _ | - | Berkeley, CA | 15 | 12 | 1 | 1 | _ | 1 | 5 |
| Grand Rapids, MI | 33 | 20 | 10 | 1 | 1 | 1 | 1 | Fresno, CA | 119 | 79 | 25 | 8 | 5 | 2 | 14 |
| Indianapolis, IN | 203 | 133 | 51 | 9 | 2 | 8 | 13 | Glendale, CA | 34 | 25 | 7 | 1 | _ | 1 | 7 |
| Lansing, MI | 45 | 37 60 | 6 | 2 | _ | _ | 7 | Honolulu, HI | 79 | 64 46 | 9 | 3 | 3 | _ | 11 |
| Milwaukee, WI Peoria. IL | 102 48 | 69 34 | 24 6 | 6 3 | 3 1 | 4 | 7 3 | Long Beach, CA Los Angeles, CA | 69 263 | 46 146 | 18 74 | 2 23 | 3 9 | 11 | 7 29 |
| Rockford, IL | 48 45 | 30 | 11 | 2 | 2 | 4 | 4 | Pasadena. CA | 203 20 | 146 | 74 5 | ∠3 1 | 9 | | 29 |
| South Bend, IN | 61 | 45 | 12 | 2 | _ | 1 | 3 | Portland, OR | 121 | 93 | 24 | 2 | 1 | 1 | 6 |
| Toledo, OH | 94 | 71 | 18 | 5 | _ | | 4 | Sacramento, CA | 208 | 142 | 56 | 8 | 1 | 1 | 13 |
| Youngstown, OH | 64 | 60 | 3 | _ | _ | 1 | 5 | San Diego, CA | 171 | 117 | 38 | 13 | 2 | 1 | 17 |
| W.N. Central | 544 | 329 | 147 | 35 | 18 | 15 | 24 | San Francisco, CA | 100 | 65 | 22 | 10 | 2 | 1 | 16 |
| Des Moines, IA | 12 | 7 | 5 | _ | _ | _ | 3 | San Jose, CA | 194 | 134 | 36 | 12 | 7 | 5 | 26 |
| Duluth, MN | 26 | 19 | 7 | _ | _ | _ | _ | Santa Cruz, CA | 32 | 21 | 11 | _ | _ | _ | 4 |
| Kansas City, KS | 28 | 16 | 9 | 2 | 1 | _ | _ | Seattle, WA | 118 | 76 | 33 | 5 | 1 | 3 | 6 |
| Kansas City, MO | 115 | 65 | 35 | 3 | 6 | 6 | 3 | Spokane, WA | 81 | 55 | 18 | 6 | _ | 2 | 3 |
| Lincoln, NE | 28 | 23 | 4 | _ | | 1 | 2 | Tacoma, WA | 125 | 89 | 25 | 9 | 2 | _ | 3 |
| Minneapolis, MN | 50 | 27 | 14 | 7 | 1 | 1 | 2 | Total [¶] | 10,961 | 7,169 | 2,560 | 733 | 264 | 226 | 710 |
| Omaha, NE | 81 | 53 | 20 | 6 | 2 | | 3 | | | | | | | | |
| St. Louis, MO | 88 | 41 25 | 25 7 | 14 2 | 3 | 5 | 5 2 | | | | | | | | |
| St. Paul, MN Wichita, KS | 48 68 | 35 43 | 21 | 1 | 3 2 | 1 1 | 4 | | | | | | | | |
| vvicinia, NO | 00 | 40 | | | | | 4 | • | | | | | | | |

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.

[§] 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. ¶ Total includes unknown ages.

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