



# MMWR<sup>TM</sup>

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### Severe *Clostridium difficile*-Associated Disease in Populations Previously at Low Risk — Four States, 2005

*Clostridium difficile* is a spore-forming, gram-positive bacillus that produces exotoxins that are pathogenic to humans. *C. difficile*-associated disease (CDAD) ranges in severity from mild diarrhea to fulminant colitis and death. Antimicrobial use is the primary risk factor for development of CDAD because it disrupts normal bowel flora and promotes *C. difficile* overgrowth. *C. difficile* typically has affected older or severely ill patients who are hospital inpatients or residents of long-term-care facilities. Recently, however, both the frequency and severity of health-care-associated CDAD has increased; from 2000 to 2001, the rate of U.S. hospital discharge diagnoses of CDAD increased by 26% (1). One possible explanation for these increases is the emergence of a previously uncommon strain of *C. difficile* responsible for severe hospital outbreaks (2). Although individual cases of CDAD are not nationally reportable, in 2005, the Pennsylvania Department of Health (PADOH) and CDC received several case reports of serious CDAD in otherwise healthy patients with minimal or no exposure to a health-care setting. An investigation was initiated by the Philadelphia Department of Public Health (PDPH), PADOH, and CDC to determine the scope of the problem and explore a possible change in CDAD epidemiology. This report summarizes the results of the investigation in Pennsylvania and three other states, which indicated the presence of severe CDAD in healthy persons living in the community and peripartum women, two populations previously thought to be at low risk. The findings underscore the importance of judicious antimicrobial use, the need for community clinicians to maintain a higher index of suspicion for CDAD, and the need for surveillance to better understand the changing epidemiology of CDAD.

#### Case Reports

**Case 1.** A woman aged 31 years who was 14 weeks pregnant with twins went to a local emergency department (ED) after 3 weeks of intermittent diarrhea, followed by 3 days of cramping and watery, black stools 4–5 times daily. Stools specimens tested positive for *C. difficile* toxin, and the patient was admitted. Her only antimicrobial exposure during the preceding year was trimethoprim-sulfamethoxazole (for a urinary tract infection) approximately 3 months before admission. She was treated with metronidazole and discharged but was readmitted the next day for 18 days with severe colitis, receiving metronidazole, cholestyramine, and oral vancomycin. She improved on vancomycin and was allowed to return home. However, 4 days later she was readmitted with diarrhea and hypotension. She spontaneously aborted her fetuses. Despite aggressive treatment including a subtotal colectomy, intubation, and inotropic medication, the patient died on the third hospital day. Histopathologic examination of the colon demonstrated megacolon with evidence of pseudomembranous colitis.

**Case 2.** A girl aged 10 years (unrelated and without contact with case 1) went to a children's hospital ED because of intractable diarrhea, projectile vomiting, and abdominal pain. She had not taken antimicrobials during the preceding year.

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#### Notifiable Disease Morbidity and 122 Cities Mortality Data

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Stool specimens were positive for *C. difficile* toxin. The child had been healthy until 2 weeks before the ED visit, when she became symptomatic within days of her younger brother having a febrile diarrheal illness. The boy was not on antimicrobials when he became ill. His symptoms resolved within 2–3 days without medical treatment, but his sister had fever as high as 102°F (39°C), abdominal pain, and diarrhea. One week into her illness, she was examined by a clinician, who performed a rapid streptococcal antigen test on a swab from her oropharynx; the result was positive. The patient was prescribed amoxicillin but was unable to take it because of her stomach cramps and diarrhea; her symptoms worsened until she was having liquid stools up to 14 times daily. Symptoms resolved with hospital admission and the administration of intravenous fluids, electrolytes, and metronidazole.

## Epidemiologic and Laboratory Investigations

In May and June 2005, a request for voluntary reports of peripartum CDAD (i.e., 4 weeks before and after delivery) was initiated by PDPH; case definitions for peripartum CDAD were developed and distributed nationally through the *Epidemic Information Exchange (Epi-X)* and locally through the PDPH Health Alert Network (HAN). The New Jersey Department of Health and Senior Services also distributed the alert statewide through its HAN system. A separate request for reporting of community-associated CDAD (CA-CDAD) along with a case definition was developed and distributed in June in Philadelphia and four surrounding Pennsylvania counties (Bucks, Chester, Delaware, and Montgomery) through local and statewide HANs (Box).

Detailed, open-ended interviews were conducted with patients who were reported by hospital personnel to state and local health departments after distribution of the notices. Medical details, such as type of antimicrobial agent and duration, were confirmed with treating clinicians whenever possible. To determine the minimum population rate and rate per antimicrobial prescription of CA-CDAD, the number of cases reported from Philadelphia and four surrounding counties were divided by 2004 U.S. census population estimates for these five areas. The number of antimicrobial prescriptions were calculated on the basis of census estimates of the population surveyed, multiplied by national prescribing rate estimates (3). Available toxin-positive stool samples were cultured for *C. difficile* using standard methods. Isolates underwent pulsed-field gel electrophoresis (PFGE), toxinotyping, and detection of binary toxin and deletions in *tcdC*, a putative negative regulator of toxin production (2,4).

**BOX. Case definition for *Clostridium difficile*-associated disease (CDAD)****Confirmed case of community-associated CDAD**

Any adult or child with each of the following:

- Diarrhea
- No serious, chronic underlying illness (e.g., severe chronic liver or kidney disease)
- No overnight stay in a health-care facility for  $\geq 3$  months before diarrhea onset
- Evidence of CDAD by any of the following:
  - positive assay for *C. difficile* toxin
  - colonic histopathology characteristic of *C. difficile* infection
  - pseudomembranous colitis observed on lower gastrointestinal endoscopy
  - positive stool culture for *C. difficile*

**Confirmed case of peripartum CDAD**

Any peripartum female (defined for this purpose as 4 weeks before and 4 weeks after delivery) with each of the following:

- Diarrhea
- No serious, chronic underlying illness
- Evidence of CDAD by any of the following:
  - positive assay for *C. difficile* toxin
  - colonic histopathology characteristic of *C. difficile* infection
  - pseudomembranous colitis observed on lower gastrointestinal endoscopy
  - positive stool culture for *C. difficile*

Ten peripartum and 23 CA-CDAD cases were reported from four states during May–June 2005 (Table 1), with onset dates ranging from February 26, 2003, to June 28, 2005. All but one of the cases occurred during 2004–2005. Age of nonperipartum cases ranged from 6 months to 72 years (mean:

26 years; median: 23 years). Peripartum cases occurred in patients from New Hampshire, New Jersey, Ohio, and Pennsylvania; because CA-CDAD surveillance was conducted only in the greater Philadelphia area, these cases were only from this area. Transmission to close contacts was evident for four cases: two were in children of CDAD patients with peripartum exposures, one was in an adult caring for a hospitalized parent with confirmed CDAD, and one was in an adult who visited a parent with confirmed CDAD in a nursing home. One peripartum mother who transmitted *C. difficile* to her child also transmitted CDAD to a family friend.

Eight (24%) of 33 patients reported no exposure to antimicrobial agents within 3 months before CDAD onset. Five of these were children, three of whom required hospitalization. Three of the eight cases without exposure to antimicrobial agents occurred in patients who had close contact with a person with diarrheal illness; two of these persons had confirmed CDAD. An additional three (9%) of 33 patients contracted CDAD after receiving  $\leq 3$  doses of antimicrobials; two received only 1 dose of clindamycin for group B streptococcus prophylaxis before CDAD onset. Clindamycin was the most common antimicrobial exposure noted; overall, 10 (30%) of 33 cases were in patients who reported exposure to the drug before disease onset; these 10 patients included the two who had  $\leq 3$  doses of antimicrobials. Fifteen (46%) patients required hospitalization or an ED visit. Thirteen (39%) patients had a relapse of disease and required antimicrobials.

The estimated minimum annual incidence of CA-CDAD in Philadelphia and its surrounding four counties during July 2004–June 2005 was 7.6 cases per 100,000 population, with one case of CDAD for every 5,549 outpatient antimicrobial prescriptions; this figure is based on national estimates of antimicrobial prescribing in ambulatory settings applied to the Philadelphia area. Two patient isolates were available for characterization and were compared with the recently described “epidemic strain” that has been detected as the cause of either

**TABLE 1. Clinical features of *Clostridium difficile*-associated disease (CDAD) in patients\* with community and peripartum exposures, by case type and selected characteristics — New Hampshire, New Jersey, Ohio, and Pennsylvania, 2005**

| Type         | Characteristic     |             |              |             |   |             |  |             |                 |             |  |             |                                      |             |              |             |
|--------------|--------------------|-------------|--------------|-------------|---|-------------|--|-------------|-----------------|-------------|--|-------------|--------------------------------------|-------------|--------------|-------------|
|              | Aged $\leq 18$ yrs |             | Female sex   |             | Previous antimicrobial use <sup>†</sup> |             | Contact with gastrointestinal illness <sup>§</sup> |             | Bloody diarrhea |             | Hospitalization necessary for CDAD treatment |             | Emergency department visit necessary |             | Relapse      |             |
|              | No.                | (%)         | No.          | (%)         | No.                                     | (%)         | No.  | (%)         | No.             | (%)         | No.  | (%)         | No.                                  | (%)         | No.          | (%)         |
| Community    | 11/23              | (48)        | 15/23        | (65)        | 15/23                                   | (65)        | 7/23   | (30)        | 6/23            | (26)        | 6/23   | (26)        | 3/23                                 | (13)        | 8/23         | (35)        |
| Peripartum   | 0/10               | (0)         | 10/10        | (100)       | 9/10                                    | (90)        | 0/10   | (0)         | 2/10            | (20)        | 4/10   | (40)        | 2/10                                 | (20)        | 5/10         | (50)        |
| <b>Total</b> | <b>11/33</b>       | <b>(33)</b> | <b>25/33</b> | <b>(76)</b> | <b>24/33</b>                            | <b>(73)</b> | <b>7/23</b>  | <b>(30)</b> | <b>8/33</b>     | <b>(24)</b> | <b>10/33</b>                                 | <b>(30)</b> | <b>5/33</b>                          | <b>(15)</b> | <b>13/33</b> | <b>(39)</b> |

\* N = 33.

<sup>†</sup> Defined as receipt of an antimicrobial within 3 months before diarrhea onset.

<sup>§</sup> Defined as direct or household contact with another person with diarrheal illness.

severe hospital outbreaks or hospital-endemic cases of CDAD in 16 states (2; CDC, unpublished data, 2005). Neither shared the same toxinotype as the epidemic strain, but both were binary toxin positive; one isolate, from an Ohio peripartum CDAD case, was >80% related by PFGE to the epidemic strain, and the other, from a Philadelphia-area CA-CDAD case, had an 18-bp deletion in *tcdC* (Table 2).

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**Editorial Note:** Considered in the context of recent high-morbidity, hospital-associated outbreaks in North America, Great Britain, and the Netherlands (5), these cases of severe CDAD disease in populations previously thought to be at low risk might further reflect the changing epidemiology of CDAD. Certain features of CDAD that have been uncommon in the past, such as close-contact transmission, high recurrence rate, young patient age, bloody diarrhea, and lack of antimicrobial exposure, might be changing.

*C. difficile* exotoxins A and B cause colonic dysfunction and cell death. The epidemic strain produces 16 times more toxin A and 23 times more toxin B compared with other common strains (5). The increased severity of epidemic CDAD might result from this level of toxin production; however, the actual role of *tcdC* deletions in increased toxin production has not been determined. *C. difficile* toxinotype 0 is the historical standard type; variant toxinotypes have previously accounted for <20% of U.S. hospital isolates (6). Although the role of this binary toxin in human disease is unknown, it was previously detected in only 6% of clinical isolates but now is found

uniformly in the epidemic strain (6). The isolates recovered during this investigation were both variant toxinotypes and carried the gene for binary toxin; one also carried the same 18-bp deletion in *tcdC* as the epidemic strain.

Virulent strains, which cause more severe disease in populations at high risk, might also cause more frequent, severe disease in populations previously at low risk (e.g., otherwise healthy persons with little or no exposure to health-care settings or antimicrobial use). Although the minimum annual incidence cited in this report is similar to previous estimates in ambulatory populations (eight to 12 cases per 100,000 population), the CA-CDAD case definition more stringently excluded hospital-acquired CDAD (7,8). The estimated case rate per antimicrobial prescription is twice as high as the <1 case per 10,000 incidence cited in these earlier studies (7,8). Because reporting in this investigation was voluntary, the true incidence of community CDAD is probably higher. Because historic surveillance data are not available, determining whether CDAD rates in peripartum women are changing is not possible; however, the only available report suggests a low baseline incidence, with only three obstetric cases identified among 74,120 obstetrics and gynecology admissions to one North Carolina hospital during 1985–1995 (9).

The findings in this report are subject to at least two limitations. First, because the report describes a convenience sample, the results are subject to reporting and selection biases. Second, because this sample was collected in a limited geographic region, results might not be generalizable to other regions. Moreover, although a single national estimate for ambulatory prescribing rates was applied to this region, substantial variation in these rates might exist.

Further investigation into the scope of CA-CDAD acquisition and related risk factors is warranted. Nonetheless, the cases described in this report demonstrate the need for clinicians to consider the diagnosis of CDAD in patients with severe diarrhea even if the patients do not necessarily have traditional risk factors such as recent hospitalization or antimicrobial use. Patients should seek medical attention for diarrhea lasting longer than 3 days or accompanied by blood or high fever. The findings underscore the fact that antimicrobial exposure is not benign and that judicious antimicrobial use in all health-care settings should continue to be emphasized.

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**TABLE 2. Comparison of molecular characteristics of two *Clostridium difficile* isolates with historical standard-type strains and a recently recognized epidemic strain, by selected characteristics — Ohio and Pennsylvania, 2005**

| Characteristic                | Strain                |          |                     |                     |
|-------------------------------|-----------------------|----------|---------------------|---------------------|
|                               | Standard              | Epidemic | Ohio                | Pennsylvania        |
| Toxinotype                    | 0                     | III      | IX                  | XIV/XV              |
| PFGE* pattern                 | <80% related to NAP1† | NAP1     | 85% related to NAP1 | 64% related to NAP1 |
| Binary toxin                  | -                     | +        | +                   | +                   |
| 18-bp deletion in <i>tcdC</i> | -                     | +        | -                   | +                   |

\* Pulsed-field gel electrophoresis.

† North American pulsed-field type 1.

**SOURCE:** McDonald LC, Killgore GE, Thompson A, et al. Emergence of an epidemic, toxin gene variant strain of *Clostridium difficile* responsible for outbreaks in the United States between 2000 and 2004. *N Engl J Med* 2005 (in press).



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## Early-Onset and Late-Onset Neonatal Group B Streptococcal Disease — United States, 1996–2004

In 2002, CDC, the American College of Obstetricians and Gynecologists (ACOG), and the American Academy of Pediatrics (AAP) issued revised guidelines for prevention of perinatal invasive group B streptococcal (GBS) disease (1,2). These guidelines recommend universal screening of pregnant women for rectovaginal GBS colonization at 35–37 weeks' gestation and administering intrapartum antimicrobial prophylaxis to carriers. To assess the impact of the guidelines on multistate trends in neonatal GBS disease incidence, CDC analyzed data from the Active Bacterial Core surveillance (ABCs) system from 1996–2004. This report summarizes the results of that analysis, which determined that incidence of GBS disease in infants aged 0–6 days (i.e., early-onset disease) in 2004 had decreased by 31% from 2000–2001, the period immediately before universal screening was implemented. Incidence of GBS disease in infants aged 7–89 days (i.e., late-onset disease) remained unchanged during the 9-year period reviewed. Continued monitoring is needed to assess the impact of the

2002 guidelines on early-onset disease and the long-term effect of widespread intrapartum use of antimicrobial agents on neonatal GBS disease.

ABCs, part of CDC's Emerging Infections Program (EIP) Network, conducts active, population-based surveillance for invasive GBS disease, defined as isolation of GBS from a normally sterile site. The surveillance areas represented approximately 337,000 live births in 1996 and approximately 427,000 live births in 2004.\* ABCs collects data from standardized case-report forms that capture demographic, obstetric, and neonatal data from medical records. For this analysis, infants were classified by race and by Hispanic ethnicity independently.† Where race or ethnicity was missing from the case-report form, race or ethnicity as recorded on the birth certificate was used. Otherwise, race was imputed (for 15% of cases) using a multiple imputation method (3). To calculate annual incidence, natality data reported by state vital records or national vital statistics reports (4) were used as denominators. Incidence for 2004 was calculated using 2003 natality data in the denominator. The Cochran-Armitage chi-square test was conducted to determine trend significance.

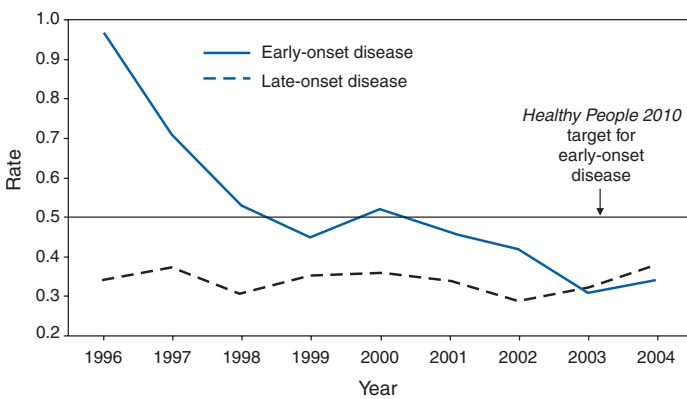
In 2004, a total of 308 cases of neonatal GBS disease were reported in EIP surveillance areas participating since 2001, including 146 (47%) early-onset cases and 162 (53%) late-onset cases. By race, 55% of infants with neonatal disease (early-onset and late-onset) were white, 42% were black, and 3% were of other races; by ethnicity, 19% were Hispanic, 48% were non-Hispanic, and 33% were of unknown ethnicity. Overall, 51% of the infants were female. Among early-onset cases with complete data, the proportion born at <37 weeks' gestation increased significantly from 20% (40 of 204) in 2000 to 29% (41 of 141) in 2004 ( $p < 0.01$ ). Among late-onset cases with complete data in 2004, 55% (81 of 147) were born preterm. Among both early-onset and late-onset cases, case-fatality ratios remained highest for preterm infants, at 23% (nine of 40) and 9% (seven of 80) for early-onset and late-onset cases, respectively. Among term infants, the case-fatality ratio was 4% (four of 100) for early-onset cases, and no deaths were reported for 66 late-onset cases.

\* In 1996, the ABCs system included surveillance areas in California (three-county San Francisco Bay area), Connecticut, Georgia (eight-county Atlanta area), Maryland, Minnesota (seven-county Minneapolis-St. Paul area), Oregon (three-county Portland area), and Tennessee (five urban counties). By 2000, surveillance had expanded to include 12 additional counties in the Atlanta area of Georgia, all of Minnesota, seven counties in the Rochester area and eight counties in the Albany area of New York, and six additional urban counties in Tennessee. The five-county Denver area of Colorado was added in 2001, and the state of New Mexico joined in 2004.

† In this report, infants classified as white, black, or of other races include both those classified as Hispanic and non-Hispanic. Conversely, infants classified as Hispanic or non-Hispanic include infants from all racial classifications.

Incidence of early-onset disease remained stable during 1999–2001, averaging 0.47 cases per 1,000 live births (5); incidence declined to 0.32 in 2003 and was stable at 0.34 in 2004 (Figure 1). During 1996–2004, late-onset disease incidence varied little, averaging 0.35 per 1,000 live births, with annual rates ranging from 0.29–0.39 per 1,000 live births (Figure 1). The rate of late-onset disease surpassed that of early-onset disease for the first time in 2003, a trend that continued in 2004. Incidence of both early-onset and late-onset disease varied by site (Table).

**FIGURE 1. Rate\* of early-onset and late-onset† invasive group B streptococcal disease in infants, by year — Active Bacterial Core surveillance system,§ United States, 1996–2004**



\* Per 1,000 live births.  
 † Ages 0–6 days for early-onset; ages 7–89 days for late-onset.  
 § Rates for 1996–1999 correspond to surveillance areas participating in 1996. Rates for 2000–2004 correspond to surveillance areas participating in 2000, with the addition of Colorado in 2001.

**TABLE. Number and rate\* of early-onset and late-onset invasive group B streptococcal (GBS) disease in infants, by year and state of surveillance area — Active Bacterial Core surveillance system, United States, 2004**

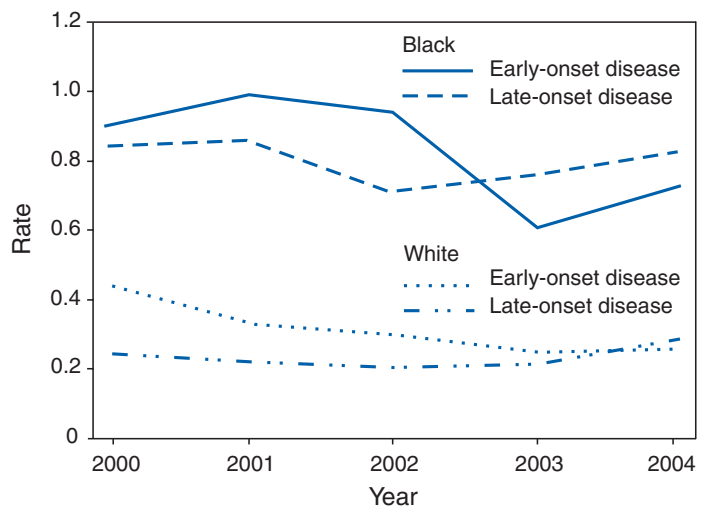
| State         | Early-onset disease (ages 0–6 days) |             | Late-onset disease (ages 7–89 days) |             |
|---------------|-------------------------------------|-------------|-------------------------------------|-------------|
|               | No.                                 | Rate        | No.                                 | Rate        |
| California    | 6                                   | 0.14        | 17                                  | 0.39        |
| Colorado      | 8                                   | 0.22        | 17                                  | 0.47        |
| Connecticut   | 8                                   | 0.19        | 11                                  | 0.26        |
| Georgia       | 32                                  | 0.43        | 31                                  | 0.42        |
| Maryland      | 30                                  | 0.40        | 21                                  | 0.28        |
| Minnesota     | 26                                  | 0.38        | 17                                  | 0.25        |
| New Mexico    | 9                                   | 0.32        | 8                                   | 0.29        |
| New York      | 8                                   | 0.33        | 13                                  | 0.53        |
| Oregon        | 4                                   | 0.19        | 8                                   | 0.38        |
| Tennessee     | 24                                  | 0.57        | 27                                  | 0.64        |
| <b>Total†</b> | <b>146</b>                          | <b>0.34</b> | <b>162</b>                          | <b>0.38</b> |

\* Per 1,000 live births.  
 † To allow for historical comparison, total excludes New Mexico, which began surveillance for neonatal GBS in 2004.

Compared with the pre-prevention era baseline rate in 1993, the absolute difference in early-onset disease incidence between blacks and whites had declined by 68% in 2003 (5). However, racial disparities in the incidence of both early-onset and late-onset GBS disease persist (Figure 2). In 2004, the rates per 1,000 live births for early-onset disease were 0.73 for black infants, 0.26 for white infants, and 0.15 for infants of other races. The rates per 1,000 live births for late-onset disease were 0.83 for blacks, 0.28 for whites, and 0.19 for infants of other races.

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**FIGURE 2. Rate\* of early-onset and late-onset† invasive group B streptococcal disease in infants, by race§ and year — Active Bacterial Core surveillance system,¶ United States, 2000–2004**



\* Per 1,000 live births.  
 † Ages 0–6 days for early-onset; ages 7–89 days for late-onset.  
 § Infants classified as black or white include both Hispanic and non-Hispanic infants.  
 ¶ Rates correspond to surveillance areas participating in 2000, with the addition of Colorado in 2001.

**Editorial Note:** Invasive GBS disease emerged in the 1970s as a leading cause of neonatal morbidity and mortality in the United States. In the mid-1980s, clinical trials demonstrated that administering antimicrobials intrapartum to GBS carriers protected their newborns from early-onset disease. In 1996, CDC, in collaboration with ACOG and AAP, formally recommended intrapartum antimicrobial prophylaxis for women with late antenatal GBS colonization or, as an alternative to screening for colonization, for those women with obstetrical risk factors for transmitting infection (6). A large, population-based cohort study of deliveries during 1998–1999 demonstrated that routine screening and prophylaxis for carriers prevented more cases of early-onset disease than the risk-based method (7). In response to this finding, in 2002, CDC, ACOG, and AAP endorsed revised guidelines that discarded the risk-based approach in favor of universal screening of pregnant women for GBS carriage and administering prophylaxis to carriers (1,2).

Multistate ABCs data indicated a 65% decline in the incidence of early-onset disease from 1993 to 1998, coinciding with increased use of intrapartum prophylaxis, followed by a plateau during 1999–2001 (5,8). Adoption of the 2002 guidelines was expected to result in further reductions in early-onset disease, and a subsequent decline was observed during 2003–2004. Whether the maximum benefit provided by the current prevention strategy has been achieved is unknown. A multistate retrospective cohort study had predicted that universal screening would achieve an incidence of 0.32 per 1,000 live births for early-onset disease, nearly equal to the incidence of 0.34 recorded by ABCs in 2004 (7). However, improved implementation of the screening strategy by clinicians and laboratorians and potential use of a polymerase chain reaction test (approved in 2002) for women whose GBS status is unknown at the time of labor might produce additional gains.

No strategies exist to prevent late-onset disease, although more than half of reported cases of neonatal GBS disease now occur during the late-onset period. In addition, concern continues among health officials that widespread intrapartum antimicrobial use might delay, rather than prevent, GBS disease onset, resulting in increased rates of late-onset disease. No evidence exists to suggest an increase; however, careful monitoring of disease trends remains a priority.

Black infants remain at highest risk for both early-onset and late-onset GBS disease. Although white infants achieved the *Healthy People 2010* target of fewer than 0.5 early-onset cases per 1,000 live births in 1998, the incidence of early-onset disease among black infants remains above the target. This disparity might be associated with less access to prenatal care among black mothers, higher rates of preterm birth (a risk factor for both early-onset and late-onset disease) among black

infants, and higher GBS colonization rates among black mothers (9).

The findings in this report are subject to at least two limitations. First, although incidence trends enable tracking of the effects of prevention measures, these data cannot be directly linked to changes in provider practices. Second, although racial disparities in disease incidence are monitored, the data do not permit evaluation of why these disparities exist.

To characterize provider practices, CDC is collaborating with the EIP Network to abstract a large, population-based sample of maternal labor and delivery records for live births during 2003–2004 in 10 states that participate in ABCs. This effort will 1) provide data on provider adherence to the revised prevention guidelines, 2) identify barriers to adherence, 3) detect missed opportunities for prevention, and 4) increase understanding of racial disparities.

Information for patients, providers, and public health practitioners regarding GBS is available from CDC at <http://www.cdc.gov/groupbstrep>. Brochures explaining GBS testing and prevention are available in both English and Spanish by telephone at 404-639-2215; bulk orders can be placed through the CDC Foundation by telephone at 877-252-1200.

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## Adult Participation in Recommended Levels of Physical Activity — United States, 2001 and 2003

Physical activity is associated with a range of health benefits, and its absence can have harmful effects on health and well being, increasing the risk for coronary heart disease, diabetes, certain cancers, obesity, and hypertension (1). CDC and the American College of Sports Medicine recommend that adults engage in at least 30 minutes of moderate-intensity physical activity on most days, preferably all days, to have a beneficial effect on their health (2). Two *Healthy People 2010* objectives (objectives 22-1 and 22-2) are to increase the proportion of adults who engage in regular moderate or vigorous activity to at least 50% and to decrease the proportion of adults who engage in no leisure-time physical activity to 20% (3). To examine differences from 2001 to 2003 in overall U.S. and state- and territory-specific prevalence estimates of 1) adult participation in the minimum recommended level of physical activity and 2) physical inactivity among adults during lifestyle activities, CDC analyzed data from the Behavioral Risk Factor Surveillance System (BRFSS) surveys for 2001 and 2003. The findings indicated that more than half of U.S. adults continue not to participate in physical activity at a level recommended as beneficial to health. Concerted public health efforts at federal, state, and local levels are needed to improve participation in physical activity.

BRFSS is a population-based, random-digit-dialed telephone survey of the U.S. civilian, noninstitutionalized population aged  $\geq 18$  years in 50 states, the District of Columbia, and certain U.S. territories (Guam, Puerto Rico, and the U.S. Virgin Islands). For this study, CDC analyzed data from

BRFSS surveys for 2001 (214,500 respondents; median response rate: 51.1%; range: 33.3%–81.5%) and 2003 (264,684 respondents; median response rate: 53.2%; range: 34.4%–80.5%).

Since 2001, BRFSS has used six survey questions about physical activity in three domains (household work, transportation, and discretionary/leisure time) to quantify its frequency, duration, and intensity. These questions are asked in all states once every 2 years. Respondents are asked to provide information on overall frequency and duration of time spent in bouts of 10 minutes or more of physical activity of moderate intensity (e.g., brisk walking or gardening) and vigorous intensity (e.g., heavy yard work, running, or aerobics) during a usual week. Moderate-intensity activity is described to respondents as any activity “that causes small increases in breathing and heart rate,” and vigorous-intensity activity is described as any activity “that causes large increases in breathing or heart rate.” Respondents are classified as active at the minimum recommended level if they report moderate-intensity activity at least 30 minutes per day, 5 or more days per week, or vigorous-intensity activity at least 20 minutes per day, 3 or more days per week. Respondents are classified as inactive if they report no activity of 10 minutes or more per week of moderate or vigorous intensity. For this analysis, prevalence estimates were age-adjusted to the 2000 U.S. standard population. Pairwise comparisons for changes in prevalence from 2001 to 2003 were performed for each state and territory to calculate t-statistics. Differences were considered statistically significant at  $p < 0.05$ . Statistical analysis software was used to account for the complex sampling design.

From 2001 to 2003, the age-adjusted prevalence of adults participating in physical activity at the minimum recommended level remained similar (45.3% in 2001 and 45.9% in 2003) (Table 1). Although an increase in prevalence of physical activity was observed in 41 states and territories from 2001 to 2003, the increase was significant only in nine states (Table 1). The prevalence of such activity decreased in 12 states and territories; the decrease was significant in Florida (45.5% in 2001 versus 41.7% in 2003), North Carolina (42.3% versus 37.6%), West Virginia (48.4% versus 43.6%), and Puerto Rico (43.5% versus 34.5%) (Table 1). Nebraska had the largest percentage-point increase in the prevalence of recommended level of physical activity (+10.3%); Puerto Rico had the largest percentage-point decrease (-9.1%) (Table 1). In 2003, the prevalence of physical activity in 22 states and the District of Columbia was equal to or greater than the target (50%) for the national health objective to increase the prevalence of regular moderate- or vigorous-intensity physical activity (Table 1 and Figure) (3).



**TABLE 1. Age-adjusted percentage of respondents aged ≥18 years who engaged in a level of activity consistent with physical activity recommendations,\* by state/territory — Behavioral Risk Factor Surveillance System, United States, 2001 and 2003**

| State/Territory                   | 2001        |                       | 2003        |                    | Percentage-point change |                | % change   |
|-----------------------------------|-------------|-----------------------|-------------|--------------------|-------------------------|----------------|------------|
|                                   | %           | (95% CI) <sup>†</sup> | %           | (95% CI)           |                         | (95% CI)       |            |
| Alabama                           | 42.4        | (40.3–44.6)           | 40.4        | (38.4–42.4)        | -2.0                    | (-5.0–0.9)     | -4.8       |
| Alaska <sup>§</sup>               | 54.6        | (51.6–57.5)           | 56.7        | (53.9–59.5)        | 2.1                     | (-1.9–6.2)     | 3.9        |
| Arizona <sup>§</sup>              | 51.2        | (48.7–53.7)           | 50.0        | (47.3–52.7)        | -1.2                    | (-5.0–2.5)     | -2.4       |
| Arkansas                          | 45.4        | (43.3–47.5)           | 45.4        | (43.6–47.3)        | 0                       | (-2.8–2.8)     | 0          |
| California                        | 45.8        | (44.0–47.7)           | 46.4        | (44.7–48.2)        | 0.6                     | (-1.9–3.2)     | 1.4        |
| Colorado <sup>§</sup>             | 53.0        | (50.4–55.5)           | 54.5        | (52.8–56.3)        | 1.6                     | (-1.5–4.6)     | 2.9        |
| Connecticut <sup>§</sup>          | 48.6        | (47.2–50.0)           | 52.2        | (50.6–53.9)        | 3.7 <sup>¶</sup>        | (1.5–5.8)      | 7.5        |
| Delaware                          | 41.4        | (39.3–43.6)           | 43.8        | (41.7–46.0)        | 2.4                     | (-0.6–5.4)     | 5.8        |
| District of Columbia <sup>§</sup> | 49.7        | (46.9–52.5)           | 51.4        | (48.6–54.1)        | 1.6                     | (-2.3–5.6)     | 3.3        |
| Florida                           | 45.5        | (43.7–47.3)           | 41.7        | (39.4–43.9)        | -3.9 <sup>¶</sup>       | (-6.8– -1.0)   | -8.5       |
| Georgia                           | 39.2        | (37.3–41.1)           | 41.6        | (40.0–43.3)        | 2.4                     | (-0.1–4.9)     | 6.2        |
| Hawaii <sup>§</sup>               | 50.4        | (48.3–52.4)           | 50.1        | (48.2–52.0)        | -0.3                    | (-3.1–2.5)     | -0.6       |
| Idaho <sup>§</sup>                | 54.3        | (52.5–56.1)           | 55.5        | (53.8–57.2)        | 1.2                     | (-1.3–3.6)     | 2.1        |
| Illinois                          | 45.6        | (43.0–48.1)           | 43.4        | (41.9–45.0)        | -2.1                    | (-5.1–0.9)     | -4.6       |
| Indiana                           | 45.9        | (44.1–47.6)           | 46.7        | (45.2–48.2)        | 0.8                     | (-1.5–3.2)     | 1.8        |
| Iowa                              | 43.8        | (41.8–45.7)           | 43.9        | (42.2–45.7)        | 0.2                     | (-2.4–2.8)     | 0.4        |
| Kansas                            | 44.1        | (42.4–45.8)           | 43.8        | (42.1–45.5)        | -0.3                    | (-2.6–2.1)     | -0.6       |
| Kentucky                          | 28.9        | (27.3–30.6)           | 33.7        | (32.0–35.5)        | 4.8 <sup>¶</sup>        | (2.4–7.2)      | 16.6       |
| Louisiana                         | 35.1        | (33.5–36.7)           | 39.9        | (38.3–41.6)        | 4.9 <sup>¶</sup>        | (2.6–7.1)      | 13.9       |
| Maine <sup>§</sup>                | 50.3        | (48.0–52.7)           | 53.6        | (51.2–55.9)        | 3.2                     | (-0.1–6.5)     | 6.4        |
| Maryland                          | 45.0        | (43.1–46.9)           | 48.8        | (46.8–50.8)        | 3.8 <sup>¶</sup>        | (1.0–6.5)      | 8.4        |
| Massachusetts <sup>§</sup>        | 51.4        | (50.1–52.8)           | 52.8        | (51.3–54.3)        | 1.3                     | (-0.7–3.3)     | 2.6        |
| Michigan                          | 45.5        | (43.7–47.3)           | 47.5        | (45.5–49.5)        | 2.0                     | (-0.7–4.7)     | 4.4        |
| Minnesota                         | 48.5        | (46.6–50.3)           | 49.0        | (47.2–50.9)        | 0.6                     | (-2.0–3.2)     | 1.2        |
| Mississippi                       | 37.6        | (35.6–39.7)           | 40.0        | (38.3–41.8)        | 2.4                     | (-0.3–5.1)     | 6.5        |
| Missouri                          | 39.9        | (37.9–42.0)           | 45.3        | (43.2–47.5)        | 5.4 <sup>¶</sup>        | (2.4–8.4)      | 13.5       |
| Montana <sup>§</sup>              | 51.5        | (49.1–53.9)           | 58.6        | (56.4–60.7)        | 7.1 <sup>¶</sup>        | (3.8–10.3)     | 13.7       |
| Nebraska                          | 34.2        | (32.3–36.1)           | 44.5        | (42.9–46.1)        | 10.3 <sup>¶</sup>       | (7.8–12.8)     | 30.2       |
| Nevada <sup>§</sup>               | 49.8        | (46.9–52.7)           | 51.1        | (48.5–53.8)        | 1.3                     | (-2.6–5.2)     | 2.7        |
| New Hampshire <sup>§</sup>        | 50.7        | (48.8–52.5)           | 54.6        | (53.0–56.3)        | 4.0 <sup>¶</sup>        | (1.5–6.4)      | 7.9        |
| New Jersey                        | 44.0        | (42.3–45.8)           | 45.0        | (43.8–46.2)        | 1.0                     | (-1.1–3.1)     | 2.3        |
| New Mexico <sup>§</sup>           | 50.0        | (48.1–52.0)           | 51.2        | (49.5–52.8)        | 1.1                     | (-1.4–3.7)     | 2.3        |
| New York                          | 44.8        | (42.9–46.8)           | 44.5        | (42.9–46.2)        | -0.3                    | (-2.8–2.2)     | -0.7       |
| North Carolina                    | 42.3        | (40.4–44.3)           | 37.6        | (36.1–39.3)        | -4.7 <sup>¶</sup>       | (-7.2– -2.1)   | -11.0      |
| North Dakota <sup>§</sup>         | 46.8        | (44.6–49.0)           | 49.7        | (47.6–51.7)        | 2.9                     | (-0.1–5.9)     | 6.2        |
| Ohio                              | 46.1        | (44.1–48.2)           | 47.3        | (45.3–49.3)        | 1.1                     | (-1.7–4.0)     | 2.5        |
| Oklahoma                          | 38.9        | (37.0–40.8)           | 40.0        | (38.7–41.3)        | 1.1                     | (-1.2–3.4)     | 2.9        |
| Oregon <sup>§</sup>               | 52.9        | (50.7–55.2)           | 54.0        | (52.1–55.8)        | 1.0                     | (-1.9–3.9)     | 1.9        |
| Pennsylvania <sup>§</sup>         | 46.8        | (44.8–48.7)           | 50.1        | (48.2–52.0)        | 3.3 <sup>¶</sup>        | (0.6–6.0)      | 7.1        |
| Rhode Island <sup>§</sup>         | 48.7        | (46.8–50.6)           | 50.5        | (48.6–52.4)        | 1.8                     | (-0.8–4.5)     | 3.8        |
| South Carolina                    | 45.3        | (43.2–47.4)           | 46.1        | (44.6–47.7)        | 0.9                     | (-1.7–3.5)     | 1.9        |
| South Dakota                      | 44.5        | (42.9–46.0)           | 46.8        | (45.1–48.4)        | 2.3                     | (0–4.6)        | 5.2        |
| Tennessee                         | 36.9        | (34.7–39.2)           | 37.5        | (35.3–39.9)        | 0.6                     | (-2.6–3.8)     | 1.7        |
| Texas                             | 42.9        | (41.5–44.4)           | 44.1        | (42.6–45.6)        | 1.2                     | (-0.9–3.3)     | 2.7        |
| Utah <sup>§</sup>                 | 53.1        | (50.9–55.2)           | 55.5        | (53.4–57.5)        | 2.4                     | (-0.6–5.3)     | 4.5        |
| Vermont <sup>§</sup>              | 55.0        | (53.2–56.7)           | 55.8        | (54.1–57.6)        | 0.9                     | (-1.6–3.4)     | 1.6        |
| Virginia                          | 47.6        | (45.4–49.7)           | 49.3        | (47.4–51.2)        | 1.8                     | (-1.1–4.6)     | 3.7        |
| Washington <sup>§</sup>           | 55.5        | (53.8–57.3)           | 54.2        | (53.3–55.2)        | -1.3                    | (-3.3–0.7)     | -2.3       |
| West Virginia                     | 48.4        | (46.4–50.5)           | 43.6        | (41.6–45.6)        | -4.8 <sup>¶</sup>       | (-7.7– -1.9)   | -9.9       |
| Wisconsin <sup>§</sup>            | 52.3        | (50.3–54.3)           | 54.7        | (52.8–56.6)        | 2.3                     | (-0.4–5.1)     | 4.5        |
| Wyoming <sup>§</sup>              | 55.8        | (53.8–57.8)           | 55.3        | (53.5–57.0)        | -0.5                    | (-3.2–2.2)     | -0.9       |
| Guam                              | 46.3        | (42.1–50.6)           | 47.3        | (43.1–51.5)        | 0.9                     | (-5.0–6.9)     | 2.0        |
| Puerto Rico                       | 43.5        | (41.5–45.6)           | 34.5        | (32.5–36.4)        | -9.1 <sup>¶</sup>       | (-11.9– -6.2)  | -20.8      |
| U.S. Virgin Islands               | 38.2        | (35.7–40.9)           | 39.8        | (36.9–42.8)        | 1.6                     | (-2.3–5.5)     | 4.2        |
| <b>Mean</b>                       | <b>45.3</b> | <b>(44.9–45.7)</b>    | <b>45.9</b> | <b>(45.6–46.3)</b> | <b>0.6<sup>¶</sup></b>  | <b>(0–1.1)</b> | <b>1.3</b> |

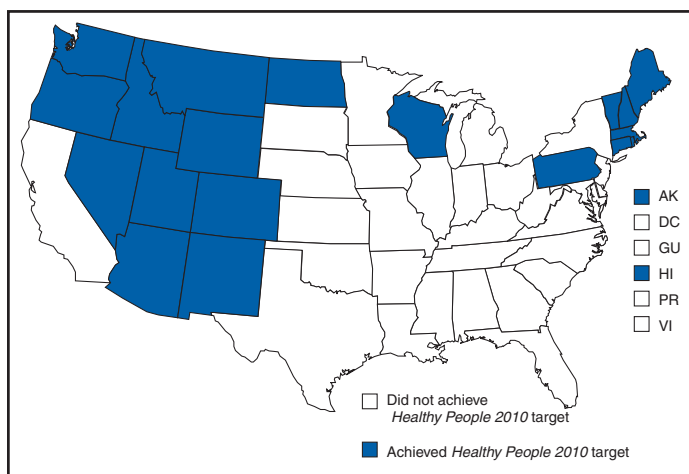
\* Reported moderate-intensity activities (i.e., brisk walking, bicycling, vacuuming, gardening, or any activity that causes small increases in breathing or heart rate) for ≥30 minutes per day, ≥5 days per week, or vigorous-intensity activities (i.e., running, aerobics, heavy yard work, or any activity that causes large increases in breathing or heart rate) for ≥20 minutes per day, ≥3 days per week.

<sup>†</sup> Confidence interval.

<sup>§</sup> Equal to or greater than national *Healthy People 2010* target (objective 22–2) in 2003.

<sup>¶</sup> Significant difference.

**FIGURE. States and territories that achieved or exceeded the national *Healthy People 2010* target\* for adult participation in recommended levels of physical activity — Behavioral Risk Factor Surveillance System, United States, 2003**



\* To increase the proportion of adults who engage in regular moderate- or vigorous-intensity activity to at least 50% (objective 22-2).

In 2001 and 2003, the overall prevalence of lifestyle inactivity (i.e., no activity of at least 10 minutes per week of moderate or vigorous intensity) was similar (16.0% in 2001 versus 15.6% in 2003) (Table 2). A decrease in prevalence of lifestyle inactivity was observed in 32 states and territories (percentage-point change ranging from 0.1% in Arkansas, North Dakota, and Oregon to 12.9% in Nebraska); the decrease was significant in 14 states (Table 2). An increase in prevalence of inactivity was observed in 19 states and territories; these increases were significant in North Carolina (16.9% in 2001 versus 22.5% in 2003), Washington (6.3% versus 9.9%), West Virginia (14.9% versus 17.4%), Wyoming (8.6% versus 10.6%), and Puerto Rico (24.1% versus 33.9%) (Table 2). Inactivity in 2003 ranged from 7.7% (Minnesota) to 33.9% (Puerto Rico).

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**Editorial Note:** The findings in this report indicate that, in 2003, the majority (54.1%) of U.S. adults did not engage in physical activity at the minimum recommended level and that the prevalence of meeting recommend levels of physical activity was similar in 2001 and 2003 (45.3% and 45.9%, respectively). From 2001 to 2003, the prevalence of adults participating in recommended levels of physical activity increased significantly in nine states and decreased significantly in three states and Puerto Rico. The remainder of the states had no statistically significant differences. In addition, the

prevalence of lifestyle physical inactivity was similar for the two years (16.0% in 2001 versus 15.6% in 2003).

Although 2 years is a relatively short period for which to examine state- and territory-specific trends in prevalence of physical activity, this study is valuable as the first national report using 2 years of data to determine whether U.S. adults engaged in the recommended levels of physical activity in any of three domains: household work, transportation, and discretionary/leisure time. Earlier reports examined trends in one domain only (discretionary/leisure time) (4–6).

The findings in this report are subject to at least three limitations. First, BRFSS data are based on self-reports and thus are subject to social desirability and recall biases. Second, the survey misclassifies a small proportion of the sample because the instrument is designed to measure only those who meet the recommendation in one of two intensities, moderate or vigorous, and misses those who would be deemed adequately active when the intensities were combined (e.g., being moderately active 3 days a week and vigorously active 2 days a week). Finally, the response rates were low in 2001 (51.1%) and 2003 (53.2%), indicating possible nonresponse bias.

Promotion of physical activity is integral to national health promotion policies. Physical activity levels can be increased by incorporating physical activity into daily routines, such as being active in housework, walking and biking for transportation, participating in worksite physical activity programs, and pursuing physically active hobbies and recreational activities. *The Guide to Community Preventive Services: Physical Activity* highlights recommended evidence-based strategies for successful physical activity promotion in these settings (7). CDC coordinates multiple programs at state and local levels, including Steps to a HealthierUS, that aim to prevent or control obesity, diabetes, and cardiovascular disease; physical activity is an important component of such programs. Public health agencies should continue to increase and promote opportunities for physical activity among adults in communities and workplaces.

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**TABLE 2. Age-adjusted percentage of respondents aged ≥18 years categorized as physically inactive,\* by state/territory — Behavioral Risk Factor Surveillance System, United States, 2001 and 2003**

| State/Territory      | 2001        |                       | 2003        |                    | Percentage-point        |                 | % change    |
|----------------------|-------------|-----------------------|-------------|--------------------|-------------------------|-----------------|-------------|
|                      | %           | (95% CI) <sup>†</sup> | %           | (95% CI)           | change                  | (95% CI)        |             |
| Alabama              | 16.5        | (15.0–18.0)           | 17.0        | (15.6–18.5)        | 0.6                     | (-1.5–2.6)      | 3.3         |
| Alaska               | 10.0        | (8.4–11.9)            | 12.1        | (10.4–14.0)        | 2.1                     | (-0.4–4.6)      | 20.7        |
| Arizona              | 12.2        | (10.6–13.9)           | 14.5        | (12.6–16.7)        | 2.3                     | (-0.3–4.9)      | 19.1        |
| Arkansas             | 15.6        | (14.2–17.2)           | 15.5        | (14.3–16.8)        | -0.1                    | (-2.0–1.9)      | -0.6        |
| California           | 13.2        | (11.9–14.6)           | 12.5        | (11.3–13.8)        | -0.7                    | (-2.5–1.2)      | -5.1        |
| Colorado             | 10.0        | (8.5–11.7)            | 10.0        | (9.0–11.1)         | 0                       | (-1.9–1.9)      | -0.1        |
| Connecticut          | 14.6        | (13.6–15.7)           | 13.3        | (12.2–14.5)        | -1.3                    | (-2.8–0.2)      | -8.8        |
| Delaware             | 16.4        | (14.9–18.1)           | 16.4        | (14.9–18.1)        | 0                       | (-2.2–2.2)      | 0           |
| District of Columbia | 16.3        | (14.3–18.6)           | 16.3        | (14.4–18.5)        | 0                       | (-3.0–3.0)      | 0           |
| Florida              | 18.4        | (17.1–19.9)           | 17.9        | (16.3–19.7)        | -0.5                    | (-2.7–1.8)      | -2.6        |
| Georgia              | 22.1        | (20.6–23.7)           | 18.3        | (17.1–19.6)        | -3.8 <sup>§</sup>       | (-5.8– -1.9)    | -17.3       |
| Hawaii               | 13.3        | (12.0–14.7)           | 13.5        | (12.3–14.9)        | 0.2                     | (-1.6–2.1)      | 1.9         |
| Idaho                | 10.2        | (9.1–11.4)            | 9.9         | (9.0–10.9)         | -0.3                    | (-1.8–1.2)      | -2.9        |
| Illinois             | 17.8        | (15.9–19.9)           | 16.9        | (15.8–18.2)        | -0.9                    | (-3.2–1.4)      | -5.0        |
| Indiana              | 13.6        | (12.5–14.8)           | 13.9        | (12.9–14.9)        | 0.3                     | (-1.2–1.9)      | 2.3         |
| Iowa                 | 13.7        | (12.5–15.1)           | 13.8        | (12.7–15.0)        | 0.1                     | (-1.6–1.8)      | 0.5         |
| Kansas               | 19.0        | (17.7–20.4)           | 16.7        | (15.5–18.0)        | -2.3 <sup>§</sup>       | (-4.1– -0.5)    | -12.2       |
| Kentucky             | 33.2        | (31.6–34.8)           | 26.2        | (24.8–27.8)        | -6.9 <sup>§</sup>       | (-9.1– -4.7)    | -20.8       |
| Louisiana            | 29.9        | (28.4–31.3)           | 22.6        | (21.3–23.9)        | -7.3 <sup>§</sup>       | (-9.3– -5.3)    | -24.4       |
| Maine                | 13.4        | (11.9–14.9)           | 12.9        | (11.5–14.5)        | -0.5                    | (-2.6–1.6)      | -3.6        |
| Maryland             | 15.5        | (14.1–16.9)           | 13.7        | (12.4–15.2)        | -1.7                    | (-3.7–0.3)      | -11.3       |
| Massachusetts        | 14.1        | (13.2–15.0)           | 13.4        | (12.5–14.4)        | -0.7                    | (-2.0–0.7)      | -4.7        |
| Michigan             | 14.4        | (13.1–15.7)           | 12.4        | (11.2–13.7)        | -2.0 <sup>§</sup>       | (-3.8– -0.2)    | -13.8       |
| Minnesota            | 9.2         | (8.1–10.3)            | 7.7         | (6.8–8.6)          | -1.5 <sup>§</sup>       | (-2.9– -0.1)    | -16.2       |
| Mississippi          | 23.0        | (21.4–24.8)           | 20.7        | (19.3–22.1)        | -2.4 <sup>§</sup>       | (-4.6– -0.2)    | -10.4       |
| Missouri             | 16.8        | (15.2–18.4)           | 13.8        | (12.5–15.3)        | -2.9 <sup>§</sup>       | (-5.0– -0.8)    | -17.4       |
| Montana              | 13.8        | (12.4–15.4)           | 8.9         | (7.9–10.1)         | -4.9 <sup>§</sup>       | (-6.8– -3.0)    | -35.4       |
| Nebraska             | 26.7        | (25.0–28.6)           | 13.9        | (12.8–15.0)        | -12.9 <sup>§</sup>      | (-15.0– -10.8)  | -48.2       |
| Nevada               | 12.9        | (11.1–14.9)           | 15.2        | (13.3–17.3)        | 2.3                     | (-0.4–5.1)      | 18.1        |
| New Hampshire        | 11.7        | (10.7–12.9)           | 10.6        | (9.7–11.6)         | -1.1                    | (-2.6–0.4)      | -9.6        |
| New Jersey           | 16.8        | (15.5–18.1)           | 17.3        | (16.4–18.2)        | 0.5                     | (-1.1–2.0)      | 2.8         |
| New Mexico           | 13.6        | (12.4–15.0)           | 13.1        | (12.0–14.2)        | -0.5                    | (-2.3–1.2)      | -4.0        |
| New York             | 19.0        | (17.5–20.6)           | 19.1        | (17.8–20.6)        | 0.1                     | (-2.0–2.2)      | 0.7         |
| North Carolina       | 16.9        | (15.4–18.4)           | 22.5        | (21.2–23.9)        | 5.6 <sup>§</sup>        | (3.6–7.6)       | 33.2        |
| North Dakota         | 11.3        | (10.0–12.8)           | 11.2        | (10.1–12.4)        | -0.1                    | (-1.9–1.7)      | -0.8        |
| Ohio                 | 15.8        | (14.2–17.5)           | 14.3        | (13.0–15.7)        | -1.5                    | (-3.6–0.7)      | -9.3        |
| Oklahoma             | 21.3        | (19.7–23.0)           | 18.7        | (17.7–19.7)        | -2.6 <sup>§</sup>       | (-4.7– -0.6)    | -12.2       |
| Oregon               | 11.7        | (10.3–13.2)           | 11.5        | (10.4–12.7)        | -0.1                    | (-2.0–1.7)      | -1.3        |
| Pennsylvania         | 13.3        | (12.1–14.6)           | 12.0        | (10.9–13.3)        | -1.3                    | (-3.0–0.5)      | -9.6        |
| Rhode Island         | 15.2        | (13.9–16.6)           | 14.4        | (13.2–15.8)        | -0.8                    | (-2.7–1.0)      | -5.4        |
| South Carolina       | 16.0        | (14.5–17.5)           | 15.0        | (13.9–16.1)        | -1.0                    | (-2.9–0.9)      | -6.3        |
| South Dakota         | 17.9        | (16.8–19.2)           | 14.5        | (13.5–15.6)        | -3.5 <sup>§</sup>       | (-5.0– -1.9)    | -19.3       |
| Tennessee            | 26.0        | (24.3–27.9)           | 21.2        | (19.4–23.0)        | -4.9 <sup>§</sup>       | (-7.4– -2.3)    | -18.7       |
| Texas                | 16.7        | (15.6–17.9)           | 18.3        | (17.1–19.5)        | 1.6                     | (-0.1–3.2)      | 9.5         |
| Utah                 | 8.8         | (7.7–10.1)            | 9.6         | (8.4–10.9)         | 0.8                     | (-0.9–2.5)      | 8.8         |
| Vermont              | 11.5        | (10.5–12.6)           | 9.6         | (8.7–10.5)         | -1.9 <sup>§</sup>       | (-3.3– -0.5)    | -16.7       |
| Virginia             | 13.3        | (11.9–14.8)           | 14.0        | (12.8–15.2)        | 0.7                     | (-1.2–2.5)      | 5.1         |
| Washington           | 6.3         | (5.5–7.2)             | 9.9         | (9.3–10.5)         | 3.6 <sup>§</sup>        | (2.6–4.6)       | 57.0        |
| West Virginia        | 14.9        | (13.6–16.3)           | 17.4        | (16.0–18.8)        | 2.5 <sup>§</sup>        | (0.5–4.4)       | 16.6        |
| Wisconsin            | 8.4         | (7.3–9.5)             | 8.6         | (7.7–9.7)          | 0.3                     | (-1.2–1.7)      | 3.0         |
| Wyoming              | 8.6         | (7.6–9.7)             | 10.6        | (9.6–11.7)         | 2.1 <sup>§</sup>        | (0.6–3.5)       | 23.9        |
| Guam                 | 19.1        | (15.8–22.8)           | 18.6        | (15.3–22.4)        | -0.5                    | (-5.5–4.5)      | -2.6        |
| Puerto Rico          | 24.1        | (22.5–25.9)           | 33.9        | (32.1–35.7)        | 9.7 <sup>§</sup>        | (7.3–12.2)      | 40.3        |
| U.S. Virgin Islands  | 24.5        | (22.2–26.9)           | 25.4        | (22.9–28.2)        | 0.9                     | (-2.6–4.5)      | 3.8         |
| <b>Mean</b>          | <b>16.0</b> | <b>(15.8–16.3)</b>    | <b>15.6</b> | <b>(15.4–15.9)</b> | <b>-0.4<sup>§</sup></b> | <b>(-0.8–0)</b> | <b>-2.6</b> |

\* No bouts of ≥10 minutes of moderate- or vigorous-intensity activity (including household work, transportation, or discretionary/leisure-time activity).

<sup>†</sup> Confidence interval.<sup>§</sup> Significant difference.

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### Notice to Readers

## Licensure of a Combined Live Attenuated Measles, Mumps, Rubella, and Varicella Vaccine

On September 6, 2005, the Food and Drug Administration licensed a combined live attenuated measles, mumps, rubella, and varicella (MMRV) vaccine (ProQuad<sup>®</sup>, Merck & Co., Inc., Whitehouse Station, New Jersey) for use in children aged 12 months–12 years. The attenuated measles, mumps, and rubella vaccine viruses in ProQuad are identical and of equal titer to those in the measles, mumps, and rubella (MMR) vaccine, MMRII<sup>®</sup> (Merck). **The titer of Oka/Merck varicella-zoster virus is higher in MMRV vaccine than in single antigen varicella vaccine, VARIVAX<sup>®</sup> (Merck), a minimum of 3.13 log<sub>10</sub> plaque-forming units (pfu) versus 1,350 pfu (approximately 1.13 log<sub>10</sub>), respectively.**

Advisory Committee on Immunization Practices (ACIP) current recommendations are that children aged 12 months–12 years receive 2 doses of MMR vaccine at least 1 month apart and 1 dose of varicella vaccine (1).<sup>\*</sup> MMRV vaccine can decrease the number of injections received by children when all of the component antigens are indicated for administration. One dose of MMRV vaccine should be administered on or after the first birthday, preferably as soon as the child becomes eligible for vaccination (2).

MMRV vaccine was licensed on the basis of equivalence of immunogenicity of the antigenic components rather than clinical efficacy; the efficacy of the individual components of MMRV has been established previously (3,4). Clinical studies of 7,484 healthy children aged 12–23 months (of whom 5,446 received MMRV vaccine) indicated that those who received 1 dose of MMRV vaccine developed levels of antibody to measles, mumps, rubella, and varicella similar to those of children who received 1 dose of MMR and 1 dose of varicella vaccines concomitantly at separate injection sites. The respective prevalences of detectable antibody (i.e., positive serologic

response) using defined cutoff levels among MMRV vaccine recipients were 97.4% (95% confidence interval [CI] = 96.9%–97.9%) for measles ( $\geq 255$  mIU/mL when compared with the WHO II [66/202] reference immunoglobulin for measles), 95.8% (CI = 95.1%–96.4%) for mumps<sup>†</sup> ( $\geq 10$  enzyme-linked immunosorbent assay [ELISA] units/mL), 98.5% (CI = 98.1%–98.8%) for rubella ( $\geq 10$  IU rubella antibody/mL when compared with the WHO international reference serum for rubella), and 91.2% (CI = 90.3%–92.0%) for varicella ( $\geq 5$  gpELISA units/mL [a response rate highly correlated with long-term protection]) (5).

A subgroup of the children (n = 1,035) who received 1 dose of MMRV vaccine received a second dose of MMRV vaccine approximately 3 months after the first dose. Positive serologic response after 2 doses was 99.4% (CI = 98.6%–99.8%) for measles, 99.9% (CI = 99.4%–100%) for mumps, 98.3% (CI = 97.2%–99.0%) for rubella, and 99.4% (CI = 98.7%–99.8%) for varicella among the children who were seronegative before receipt of the first dose of MMRV vaccine (5). The geometric mean titers (GMTs) after the second dose of MMRV vaccine increased approximately two-fold each for measles, mumps, and rubella and 41-fold for varicella.

To assess the immunogenicity of a second dose of MMRV vaccine at ages 4–6 years, a trial was conducted among 799 healthy children in this age group who had received 1 dose of MMR and 1 dose of varicella vaccine at age  $\geq 12$  months and at least 1 month before enrollment in the study (5). In that study, subjects were administered either 1) MMRV vaccine and placebo (n = 399), 2) MMR and varicella vaccines (n = 195), or 3) MMR vaccine and placebo (n = 205) concomitantly at separate sites. Recipients of MMRV vaccine had seropositivity rates of 99.2% (CI = 97.6%–99.8%) for measles, 99.5% (CI = 98.0%–99.9%) for mumps, 100% (CI = 99.0%–100.0%) for rubella, and 98.9% (CI = 97.2%–99.7%) for varicella and had postvaccination GMT increases, compared with prevaccination GMTs, of 1.2 for measles, 2.4 for mumps, 3.0 for rubella, and 12.0 for varicella.

The postvaccination GMTs for measles, mumps, rubella, and varicella among MMRV vaccine recipients were comparable to that of the group vaccinated with MMR and varicella vaccines. Likewise, the GMTs were similar for measles, mumps, and rubella among the MMRV vaccine recipients and the group vaccinated with MMR vaccine and placebo (5).

Concomitant administration of MMRV with other vaccines was assessed among 1,913 healthy children aged 12–15 months. A group concomitantly administered at separate sites

<sup>\*</sup> During a varicella outbreak, a second dose of varicella vaccine may be administered to persons who previously received 1 dose of varicella vaccine to provide additional protection from varicella disease, if the appropriate vaccination interval (3 months for persons aged 12 months–12 years) has elapsed since the first dose.

<sup>†</sup> Two separate assays, one based on wild type and one on vaccine type strains, were used to assess mumps immune response rates; the data presented here are the lower values obtained; more detailed information is contained in the package insert.



MMRV vaccine, diphtheria and tetanus toxoids and acellular pertussis adsorbed (DTaP) vaccine, *Haemophilus influenzae* type b conjugate (meningococcal protein conjugate) (Hib) vaccine, and hepatitis B (recombinant) (HepB) vaccine (n = 949) was compared with 1) a group receiving MMRV at the initial visit, followed by DTaP, Hib, and HepB vaccines administered concomitantly 6 weeks later (n = 485), and 2) a group receiving MMR and varicella vaccines concomitantly (n = 479) (5). Seroconversion rates and antibody titers were comparable for the measles, mumps, rubella, and varicella components for all three groups; the Hib and HepB seroconversion rates for the two groups that received those vaccines also were comparable.

The safety profile of MMRV vaccine without concomitant administration of other vaccines was studied in healthy children aged 12–23 months who were monitored for 42 days postvaccination. Rates of most local and systemic adverse events for children vaccinated with MMRV (n = 4,497 recipients) were comparable to rates for MMR and varicella vaccines administered concomitantly (n = 2,038 recipients). Two systemic vaccine-related adverse events were reported at significantly greater rates among MMRV vaccine recipients; fever of  $\geq 102^{\circ}\text{F}$  ( $\geq 38.9^{\circ}\text{C}$ ) was observed in 21.5% of MMRV recipients versus 14.9% of MMR and varicella vaccine recipients, and measles-like rash was observed in 3.0% of recipients of MMRV vaccine recipients versus 2.1% of those administered MMR and varicella vaccines (5). Both of these adverse events were reported to occur more frequently during day 5 through day 12 postvaccination and typically resolved spontaneously without sequelae. Rash at the injection site was the only local vaccine-related adverse event reported more commonly among MMRV recipients (2.3%) than among MMR and varicella vaccine recipients (1.5%). Among 2,108 healthy children aged 12–23 months who received MMRV vaccine and were followed for up to 1 year, two cases of herpes zoster were reported; both cases were unremarkable and resolved without sequelae. In two studies of 1,035 vaccinees aged 12–23 months who received 2 doses of MMRV vaccine, the rates of adverse events after the second dose were generally similar or lower than those observed with the first dose (5).

## Indications and Usage

1. MMRV vaccine is indicated for simultaneous vaccination against measles, mumps, rubella, and varicella among children aged 12 months–12 years; MMRV is not indicated for persons outside of this age group. Use of licensed combination vaccines, such as MMRV vaccine, is preferred over separate injection of equivalent component vaccines (6). MMRV

vaccine can reduce the number of injections when administered to children aged 12 months–12 years for whom 1) the first dose of MMR and varicella vaccines is indicated and 2) the second dose of MMR and either the first or second dose (e.g., during a varicella outbreak) of varicella vaccine is indicated. MMRV vaccine is administered subcutaneously as a single 0.5-mL dose.

2. MMRV vaccine may be used whenever any components of the combination vaccine are indicated and the other components are not contraindicated. Using combination vaccines containing some antigens not indicated at the time of administration might be justified when 1) products that contain only the needed antigens are not readily available or would result in extra injections and 2) potential benefits to the child outweigh the risk of adverse events associated with the extra antigen(s).

3. At least 1 month should elapse between a dose of measles-containing vaccine, such as MMR vaccine, and a dose of MMRV vaccine. Should a second dose of varicella vaccine be indicated for children aged 12 months–12 years (e.g., during a varicella outbreak), at least 3 months should elapse between administration of any 2 doses of varicella-containing vaccine, including single antigen varicella vaccine or MMRV vaccine.

4. Simultaneous administration of the most widely used live and inactivated vaccines have produced seroconversion rates and rates of adverse reactions similar to those observed when the vaccines are administered separately (7). Therefore, MMRV may be administered simultaneously with other vaccines recommended at ages 12 month–12 years, although data are absent or limited for the concomitant use of MMRV vaccine with DTaP, inactivated polio, pneumococcal conjugate, influenza, and hepatitis A vaccines.

5. MMRV vaccine must be stored frozen at an average temperature  $\leq 5^{\circ}\text{F}$  ( $\leq -15^{\circ}\text{C}$ ) for up to 18 months. Adequacy of the freezer should be checked before obtaining or storing MMRV vaccine. Unlike single antigen varicella vaccine, MMRV vaccine cannot be stored at refrigerator temperature. Once reconstituted, the vaccine should be used immediately to minimize loss of potency and should be discarded if not used within 30 minutes. The diluent should be stored separately at room temperature or in the refrigerator.

6. MMRV vaccine should not be administered as a substitute for the component vaccines when vaccinating children with human immunodeficiency virus (HIV) infection until revised recommendations can be considered for the use of MMRV vaccine in this population; current recommendations for vaccination of HIV-infected children with MMR and varicella vaccines are available (3,8).

ACIP recommendations for MMR and varicella vaccines have been previously published (3,4,8,9) and are applicable for the respective components of MMRV vaccine. Additional information regarding ProQuad is available from the package insert (5) provided by the manufacturer (<http://www.merck.com>).

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#### Notice to Readers

### National Drunk and Drugged Driving Prevention Month — December 2005

December is National Drunk and Drugged Driving Prevention Month (3D Month). During 2004, alcohol-related motor-vehicle crashes resulted in 16,694 deaths in the United States, accounting for 39% of all traffic fatalities. This amounts to one alcohol-related death every 31 minutes (1). Moreover, approximately 21% of all crashes that killed children aged ≤14 years in 2004 were alcohol-related (1), and nearly two thirds of children killed in alcohol-related crashes were in the same car as the drinking driver (2).

To decrease alcohol-related traffic fatalities, communities must implement and enforce strategies that are known to be effective, such as sobriety checkpoints, 0.08% blood alcohol concentration laws, minimum legal drinking age laws, and “zero tolerance” laws for young drivers. Information about such interventions is available at <http://www.thecommunityguide.org/mvoi>. Information about National 3D Month is available at <http://www.nhtsa.dot.gov> and <http://www.stopimpaireddriving.org/holidayplanner2005/planner/index.cfm>.

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#### Notice to Readers

### MMWR Subscriber Survey

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### Errata: Vol. 54, No. 31

In the Final 2004 Reports of Notifiable Diseases, multiple errors occurred in Table 2, titled “Reported cases of notifiable diseases, by geographic division and area — United States, 2004.” The corrected Table 2, with corrections highlighted, is available at <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5447a7.htm>.

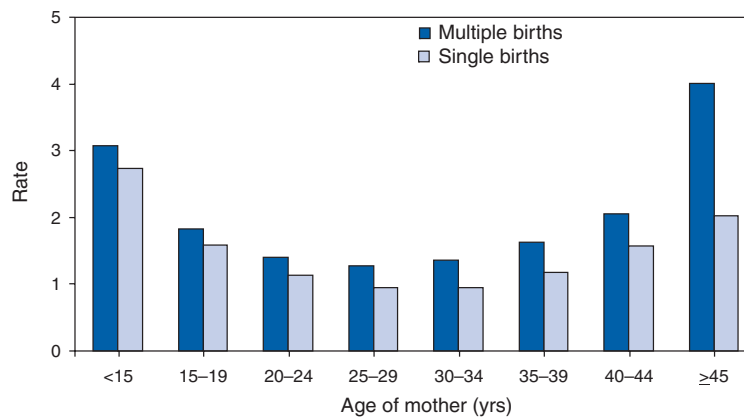
### Errata: Vol 54, No. SS-6

In the *MMWR Surveillance Summary*, “Contraceptive Use — United States and Territories, Behavioral Risk Factor Surveillance System, 2002,” two errors occurred in Table 1. On page 11, in the column labeled “Oral contraceptives (pill),” the prevalence for Connecticut should be 35.8. On page 13, in the column labeled “Rhythm,” the prevalence for Alabama should be 2.1.

## QuickStats

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

### Rate\* of Very Low Birthweight,† by Age of Mother and Multiple-Birth Status — United States, 2003



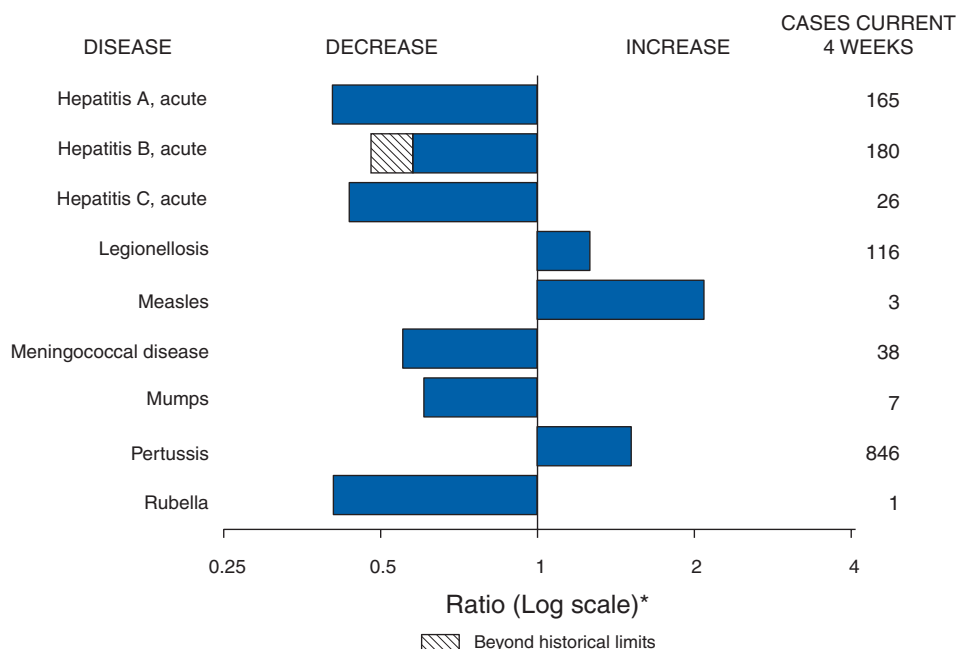
\* Per 100 live births.

† Defined as <1,500 g (<3 lbs, 4 oz).

The risk of giving birth to a very low birthweight infant is higher for both younger and older mothers. Much of the added risk among older women is attributable to higher multiple birth rates. On average, infants born in multiple births are smaller than infants born in single births.

**SOURCES:** National Vital Statistics System, 2003 natality file; Martin JA, Hamilton BE, Sutton PD, et al. Births: final data for 2003. Natl Vital Stat Rep 2005;54(2). Available at [http://www.cdc.gov/nchs/data/nvsr/nvsr54/nvsr54\\_02.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr54/nvsr54_02.pdf).

**FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals November 26, 2005, 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.

**TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending November 26, 2005 (47th Week)\***

| Disease                                    | Cum. 2005 | Cum. 2004 | Disease   | Cum. 2005        | Cum. 2004        |
|--|-----------|-----------|---|------------------|------------------|
| Anthrax                                    | —         | —         | Hemolytic uremic syndrome, postdiarrheal <sup>†</sup>   | 157              | 161              |
| Botulism:                                  |           |           | HIV infection, pediatric <sup>¶¶</sup>                  | 181              | 339              |
| foodborne                                  | 13        | 9         | Influenza-associated pediatric mortality <sup>†**</sup> | 45               | —                |
| infant                                     | 75        | 78        | Measles   | 64 <sup>††</sup> | 26 <sup>§§</sup> |
| other (wound & unspecified)                | 25        | 14        | Mumps   | 237              | 213              |
| Brucellosis                                | 97        | 94        | Plague  | 3                | 2                |
| Chancroid                                  | 25        | 25        | Poliomyelitis, paralytic                                | 1                | —                |
| Cholera                                    | 6         | 4         | Psittacosis <sup>†</sup>                                | 20               | 11               |
| Cyclosporiasis <sup>†</sup>                | 720       | 201       | Q fever <sup>†</sup>                                    | 129              | 57               |
| Diphtheria                                 | —         | —         | Rabies, human   | 2                | 6                |
| Domestic arboviral diseases                |           |           | Rubella   | 17               | 9                |
| (neuroinvasive & non-neuroinvasive):       |           |           | Rubella, congenital syndrome                            | 1                | —                |
| California serogroup <sup>†§</sup>         | 64        | 116       | SARS <sup>†**</sup>                                     | —                | —                |
| eastern equine <sup>†§</sup>               | 21        | 5         | Smallpox <sup>†</sup>                                   | —                | —                |
| Powassan <sup>†§</sup>                     | —         | 1         | <i>Staphylococcus aureus</i> :                          |                  |                  |
| St. Louis <sup>†§</sup>                    | 8         | 13        | Vancomycin-intermediate (VISA) <sup>†</sup>             | 1                | —                |
| western equine <sup>†§</sup>               | —         | —         | Vancomycin-resistant (VRSA) <sup>†</sup>                | —                | 1                |
| Ehrlichiosis:                              |           |           | Streptococcal toxic-shock syndrome <sup>†</sup>         | 97               | 119              |
| human granulocytic (HGE) <sup>†</sup>      | 558       | 390       | Tetanus   | 18               | 22               |
| human monocytic (HME) <sup>†</sup>         | 425       | 288       | Toxic-shock syndrome                                    | 86               | 82               |
| human, other and unspecified <sup>†</sup>  | 80        | 66        | Trichinellosis <sup>¶¶</sup>                            | 16               | 2                |
| Hansen disease <sup>†</sup>                | 69        | 94        | Tularemia <sup>†</sup>                                  | 134              | 105              |
| Hantavirus pulmonary syndrome <sup>†</sup> | 22        | 21        | Yellow fever  | —                | —                |

—: No reported cases.

\* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

<sup>†</sup> Not notifiable in all states.

<sup>§</sup> Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

<sup>¶</sup> Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention. Last update June 26, 2005.

<sup>\*\*</sup> Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases. Of the 45 cases reported, one was reported since October 2, 2005 (40th Week).

<sup>††</sup> Of 64 cases reported, 53 were indigenous and 11 were imported from another country.

<sup>§§</sup> Of 26 cases reported, nine were indigenous and 17 were imported from another country.

<sup>¶¶</sup> Formerly Trichinosis.



**TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending November 26, 2005, and November 27, 2004 (47th Week)\***

| Reporting area | AIDS       |           | Chlamydia† |           | Coccidioidomycosis |           | Cryptosporidiosis |           |
|----------------|------------|-----------|------------|-----------|--------------------|-----------|-------------------|-----------|
|                | Cum. 2005§ | Cum. 2004 | Cum. 2005  | Cum. 2004 | Cum. 2005          | Cum. 2004 | Cum. 2005         | Cum. 2004 |
| UNITED STATES  | 20,405     | 35,513    | 822,513    | 826,334   | 4,281              | 5,398     | 6,838             | 3,294     |
| NEW ENGLAND    | 778        | 1,129     | 28,633     | 26,951    | —                  | —         | 312               | 161       |
| Maine          | 11         | 23        | 2,003      | 1,880     | N                  | N         | 25                | 18        |
| N.H.           | 20         | 39        | 1,632      | 1,557     | —                  | —         | 33                | 30        |
| Vt.¶           | 4          | 14        | 846        | 1,016     | —                  | —         | 35                | 23        |
| Mass.          | 368        | 425       | 12,984     | 12,023    | —                  | —         | 130               | 59        |
| R.I.           | 68         | 114       | 2,838      | 3,064     | —                  | —         | 13                | 4         |
| Conn.          | 307        | 514       | 8,330      | 7,411     | N                  | N         | 76                | 27        |
| MID. ATLANTIC  | 4,352      | 7,866     | 103,783    | 101,690   | —                  | —         | 3,121             | 537       |
| Upstate N.Y.   | 800        | 855       | 20,906     | 20,535    | N                  | N         | 2,691             | 170       |
| N.Y. City      | 2,327      | 4,452     | 33,440     | 31,157    | —                  | —         | 121               | 129       |
| N.J.           | 574        | 1,302     | 15,984     | 15,776    | N                  | N         | 63                | 43        |
| Pa.            | 651        | 1,257     | 33,453     | 34,222    | N                  | N         | 246               | 195       |
| E.N. CENTRAL   | 1,938      | 2,818     | 135,862    | 145,700   | 11                 | 13        | 1,404             | 982       |
| Ohio           | 312        | 541       | 36,579     | 35,948    | N                  | N         | 751               | 211       |
| Ind.           | 236        | 327       | 18,137     | 16,709    | N                  | N         | 77                | 70        |
| Ill.           | 983        | 1,274     | 40,565     | 43,027    | —                  | —         | 134               | 150       |
| Mich.          | 322        | 535       | 24,184     | 32,583    | 11                 | 13        | 101               | 144       |
| Wis.           | 85         | 141       | 16,397     | 17,433    | N                  | N         | 341               | 407       |
| W.N. CENTRAL   | 463        | 720       | 50,663     | 51,460    | 5                  | 6         | 547               | 376       |
| Minn.          | 123        | 190       | 9,702      | 10,626    | 3                  | N         | 131               | 123       |
| Iowa           | 50         | 57        | 6,461      | 6,271     | N                  | N         | 105               | 81        |
| Mo.            | 198        | 297       | 20,016     | 19,140    | 1                  | 3         | 244               | 66        |
| N. Dak.        | 5          | 16        | 1,066      | 1,616     | N                  | N         | 1                 | 12        |
| S. Dak.        | 10         | 8         | 2,496      | 2,294     | —                  | —         | 24                | 37        |
| Nebr.¶         | 18         | 44        | 4,559      | 4,768     | 1                  | 3         | 9                 | 27        |
| Kans.          | 59         | 108       | 6,363      | 6,745     | N                  | N         | 33                | 30        |
| S. ATLANTIC    | 6,473      | 11,141    | 156,225    | 154,760   | 2                  | —         | 663               | 490       |
| Del.           | 100        | 136       | 3,068      | 2,658     | N                  | N         | 5                 | —         |
| Md.            | 812        | 1,293     | 16,599     | 17,350    | 2                  | —         | 34                | 22        |
| D.C.           | 467        | 785       | 3,415      | 3,208     | —                  | —         | 15                | 15        |
| Va.¶           | 307        | 565       | 18,495     | 19,545    | —                  | —         | 60                | 57        |
| W. Va.         | 36         | 71        | 2,455      | 2,517     | N                  | N         | 14                | 6         |
| N.C.           | 531        | 1,015     | 28,137     | 25,924    | N                  | N         | 84                | 75        |
| S.C.¶          | 386        | 643       | 18,983     | 17,005    | —                  | —         | 17                | 22        |
| Ga.            | 1,103      | 1,410     | 26,997     | 28,553    | —                  | —         | 111               | 171       |
| Fla.           | 2,731      | 5,223     | 38,076     | 38,000    | N                  | N         | 323               | 122       |
| E.S. CENTRAL   | 1,093      | 1,647     | 62,070     | 54,513    | —                  | 5         | 202               | 134       |
| Ky.            | 135        | 212       | 7,724      | 5,643     | N                  | N         | 138               | 43        |
| Tenn.¶         | 434        | 684       | 21,377     | 20,109    | N                  | N         | 40                | 41        |
| Ala.¶          | 295        | 382       | 14,324     | 12,127    | —                  | —         | 20                | 22        |
| Miss.          | 229        | 369       | 18,645     | 16,634    | —                  | 5         | 4                 | 28        |
| W.S. CENTRAL   | 2,206      | 4,223     | 94,438     | 99,841    | 1                  | 3         | 180               | 127       |
| Ark.           | 72         | 183       | 7,798      | 7,210     | —                  | 1         | 6                 | 15        |
| La.            | 436        | 799       | 14,484     | 20,066    | 1                  | 2         | 81                | 5         |
| Okla.          | 167        | 169       | 9,570      | 9,494     | N                  | N         | 41                | 22        |
| Tex.¶          | 1,531      | 3,072     | 62,586     | 63,071    | N                  | N         | 52                | 85        |
| MOUNTAIN       | 789        | 1,242     | 46,338     | 50,858    | 2,944              | 3,396     | 124               | 160       |
| Mont.          | 4          | 5         | 2,019      | 2,230     | N                  | N         | 18                | 34        |
| Idaho¶         | 9          | 17        | 2,253      | 2,555     | N                  | N         | 15                | 27        |
| Wyo.           | 2          | 14        | 1,028      | 973       | 3                  | 2         | 3                 | 4         |
| Colo.          | 163        | 278       | 11,712     | 13,047    | N                  | N         | 48                | 55        |
| N. Mex.        | 72         | 164       | 5,135      | 8,088     | 14                 | 21        | 8                 | 18        |
| Ariz.          | 329        | 454       | 15,034     | 14,791    | 2,889              | 3,292     | 9                 | 15        |
| Utah           | 33         | 62        | 3,831      | 3,399     | 6                  | 23        | 14                | 5         |
| Nev.¶          | 177        | 248       | 5,326      | 5,775     | 32                 | 58        | 9                 | 2         |
| PACIFIC        | 2,313      | 4,727     | 144,501    | 140,561   | 1,318              | 1,975     | 285               | 327       |
| Wash.          | 229        | 348       | 16,762     | 15,872    | N                  | N         | 43                | 42        |
| Oreg.¶         | 136        | 249       | 8,088      | 7,598     | —                  | —         | 65                | 29        |
| Calif.         | 1,874      | 3,981     | 113,024    | 108,753   | 1,318              | 1,975     | 173               | 254       |
| Alaska         | 14         | 43        | 3,547      | 3,481     | —                  | —         | 3                 | —         |
| Hawaii         | 60         | 106       | 3,080      | 4,857     | —                  | —         | 1                 | 2         |
| Guam           | 1          | 1         | —          | 803       | —                  | —         | —                 | —         |
| P.R.           | 537        | 635       | 3,413      | 3,141     | N                  | N         | N                 | N         |
| V.I.           | 10         | 18        | 196        | 308       | —                  | —         | —                 | —         |
| Amer. Samoa    | U          | U         | U          | U         | U                  | U         | U                 | U         |
| C.N.M.I.       | 2          | U         | —          | U         | —                  | U         | —                 | U         |

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

\* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

† Chlamydia refers to genital infections caused by *C. trachomatis*.

§ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention. Last update June 26, 2005.

¶ Contains data reported through National Electronic Disease Surveillance System (NEDSS). Due to a technical problem with hardware, data from these states are not included this week.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 26, 2005, and November 27, 2004 (47th Week)\*

| Reporting area | <i>Escherichia coli</i> , Enterohemorrhagic (EHEC) |           |  |           |                                       |           | Giardiasis |           | Gonorrhea |           |
|----------------|--|-----------|--|-----------|---------------------------------------|-----------|------------|-----------|-----------|-----------|
|                | O157:H7  |           | Shiga toxin positive, serogroup non-O157 |           | Shiga toxin positive, not serogrouped |           | Cum. 2005  | Cum. 2004 | Cum. 2005 | Cum. 2004 |
|                | Cum. 2005  | Cum. 2004 | Cum. 2005                                | Cum. 2004 | Cum. 2005                             | Cum. 2004 |            |           |           |           |
| UNITED STATES  | 2,250  | 2,333     | 326                                      | 278       | 296                                   | 179       | 16,194     | 17,861    | 284,975   | 293,325   |
| NEW ENGLAND    | 153  | 154       | 53                                       | 42        | 23                                    | 14        | 1,494      | 1,617     | 5,170     | 6,155     |
| Maine          | 14   | 14        | 11                                       | —         | —                                     | —         | 190        | 137       | 122       | 198       |
| N.H.           | 12   | 21        | 2  | 5         | —                                     | —         | 48         | 44        | 160       | 116       |
| Vt.            | 13   | 13        | 4  | —         | —                                     | —         | 166        | 156       | 54        | 82        |
| Mass.          | 62   | 69        | 12                                       | 13        | 23                                    | 14        | 636        | 727       | 2,287     | 2,801     |
| R.I.           | 7  | 9         | —  | 1         | —                                     | —         | 107        | 107       | 384       | 762       |
| Conn.          | 45   | 28        | 24                                       | 23        | —                                     | —         | 347        | 446       | 2,163     | 2,196     |
| MID. ATLANTIC  | 287  | 279       | 37                                       | 61        | 30                                    | 34        | 2,995      | 3,687     | 30,174    | 32,905    |
| Upstate N.Y.   | 129  | 119       | 19                                       | 42        | 9                                     | 17        | 1,100      | 1,281     | 6,272     | 6,683     |
| N.Y. City      | 14   | 35        | —  | —         | —                                     | —         | 760        | 993       | 9,067     | 9,982     |
| N.J.           | 49   | 56        | 3  | 6         | 11                                    | 6         | 362        | 461       | 4,855     | 6,115     |
| Pa.            | 95   | 69        | 15                                       | 13        | 10                                    | 11        | 773        | 952       | 9,980     | 10,125    |
| E.N. CENTRAL   | 432  | 446       | 33                                       | 46        | 25                                    | 32        | 2,572      | 3,002     | 55,517    | 61,993    |
| Ohio           | 141  | 92        | 6  | 9         | 16                                    | 18        | 734        | 725       | 17,201    | 18,831    |
| Ind.           | 62   | 48        | —  | —         | —                                     | —         | N          | N         | 7,265     | 6,111     |
| Ill.           | 46   | 101       | 1  | 7         | 1                                     | 8         | 578        | 756       | 16,475    | 18,790    |
| Mich.          | 74   | 81        | 2  | 11        | 6                                     | 6         | 698        | 663       | 9,857     | 13,717    |
| Wis.           | 109  | 124       | 24                                       | 19        | 2                                     | —         | 562        | 858       | 4,719     | 4,544     |
| W.N. CENTRAL   | 395  | 463       | 38                                       | 38        | 59                                    | 21        | 1,968      | 1,967     | 16,266    | 15,698    |
| Minn.          | 125  | 105       | 21                                       | 15        | 32                                    | 4         | 898        | 744       | 2,759     | 2,642     |
| Iowa           | 92   | 117       | —  | —         | —                                     | —         | 248        | 278       | 1,429     | 1,130     |
| Mo.            | 73   | 93        | 11                                       | 17        | 13                                    | 6         | 457        | 521       | 8,416     | 8,281     |
| N. Dak.        | 7  | 14        | —  | —         | 1                                     | 7         | 15         | 22        | 74        | 99        |
| S. Dak.        | 26   | 31        | 3  | 2         | —                                     | —         | 85         | 58        | 313       | 265       |
| Nebr.          | 30   | 62        | 3  | 4         | 4                                     | —         | 85         | 139       | 1,032     | 996       |
| Kans.          | 42   | 41        | —  | —         | 9                                     | 4         | 180        | 205       | 2,243     | 2,285     |
| S. ATLANTIC    | 185  | 165       | 78                                       | 33        | 110                                   | 54        | 2,310      | 2,695     | 68,777    | 70,529    |
| Del.           | 7  | 3         | N  | N         | N                                     | N         | 52         | 44        | 806       | 803       |
| Md.            | 30   | 21        | 30                                       | 6         | 11                                    | 3         | 184        | 135       | 6,358     | 7,349     |
| D.C.           | 1  | 1         | —  | —         | —                                     | —         | 51         | 66        | 1,920     | 2,369     |
| Va.            | 39   | 33        | 27                                       | 17        | 21                                    | —         | 478        | 471       | 6,867     | 7,789     |
| W. Va.         | 3  | 2         | —  | —         | 1                                     | —         | 42         | 41        | 664       | 818       |
| N.C.           | —  | —         | —  | —         | 60                                    | 44        | N          | N         | 13,526    | 13,838    |
| S.C.           | 6  | 12        | 1  | —         | 1                                     | —         | 94         | 109       | 8,470     | 8,457     |
| Ga.            | 28   | 22        | 16                                       | 7         | —                                     | —         | 528        | 828       | 12,589    | 12,704    |
| Fla.           | 71   | 71        | 4  | 3         | 16                                    | 7         | 881        | 1,001     | 17,577    | 16,402    |
| E.S. CENTRAL   | 130  | 100       | 10                                       | 5         | 31                                    | 15        | 385        | 381       | 25,023    | 23,901    |
| Ky.            | 47   | 25        | 7  | 1         | 20                                    | 9         | N          | N         | 2,715     | 2,475     |
| Tenn.          | 47   | 38        | 2  | 2         | 11                                    | 6         | 195        | 205       | 7,957     | 7,633     |
| Ala.           | 29   | 26        | —  | —         | —                                     | —         | 190        | 176       | 8,105     | 7,431     |
| Miss.          | 7  | 11        | 1  | 2         | —                                     | —         | —          | —         | 6,246     | 6,362     |
| W.S. CENTRAL   | 48   | 82        | 14                                       | 3         | 8                                     | 9         | 293        | 309       | 38,483    | 39,160    |
| Ark.           | 8  | 17        | —  | —         | —                                     | —         | 77         | 119       | 4,085     | 3,810     |
| La.            | 4  | 4         | 11                                       | 1         | 3                                     | 3         | 54         | 49        | 8,147     | 9,578     |
| Okla.          | 22   | 18        | 2  | —         | 1                                     | —         | 162        | 141       | 3,854     | 4,047     |
| Tex.           | 14   | 43        | 1  | 2         | 4                                     | 6         | N          | N         | 22,397    | 21,725    |
| MOUNTAIN       | 218  | 232       | 55                                       | 49        | 10                                    | —         | 1,360      | 1,395     | 9,864     | 10,826    |
| Mont.          | 16   | 16        | —  | —         | —                                     | —         | 67         | 76        | 122       | 76        |
| Idaho          | 27   | 53        | 13                                       | 13        | 7                                     | —         | 142        | 181       | 95        | 88        |
| Wyo.           | 6  | 9         | 2  | 5         | —                                     | —         | 26         | 23        | 72        | 58        |
| Colo.          | 65   | 51        | 3  | 1         | 1                                     | —         | 495        | 480       | 2,569     | 2,747     |
| N. Mex.        | 12   | 10        | 9  | 9         | —                                     | —         | 76         | 68        | 985       | 1,145     |
| Ariz.          | 44   | 23        | N  | N         | N                                     | N         | 138        | 158       | 3,342     | 3,552     |
| Utah           | 38   | 43        | 26                                       | 20        | —                                     | —         | 367        | 294       | 627       | 520       |
| Nev.           | 10   | 27        | 2  | 1         | 2                                     | —         | 49         | 115       | 2,052     | 2,640     |
| PACIFIC        | 402  | 412       | 8  | 1         | —                                     | —         | 2,817      | 2,808     | 35,701    | 32,158    |
| Wash.          | 104  | 137       | —  | —         | —                                     | —         | 319        | 348       | 3,326     | 2,486     |
| Oreg.          | 144  | 68        | 8  | 1         | —                                     | —         | 355        | 411       | 1,415     | 1,148     |
| Calif.         | 129  | 196       | —  | —         | —                                     | —         | 1,986      | 1,885     | 29,891    | 26,890    |
| Alaska         | 12   | 1         | —  | —         | —                                     | —         | 98         | 91        | 487       | 517       |
| Hawaii         | 13   | 10        | —  | —         | —                                     | —         | 59         | 73        | 582       | 1,117     |
| Guam           | N  | N         | —  | —         | —                                     | —         | —          | 4         | —         | 125       |
| P.R.           | 2  | 2         | —  | —         | —                                     | —         | 186        | 263       | 316       | 225       |
| V.I.           | —  | —         | —  | —         | —                                     | —         | —          | —         | 45        | 82        |
| Amer. Samoa    | U  | U         | U  | U         | U                                     | U         | U          | U         | U         | U         |
| C.N.M.I.       | —  | U         | —  | U         | —                                     | U         | —          | U         | —         | U         |

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

\* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 26, 2005, and November 27, 2004 (47th Week)\*

| Reporting area | <i>Haemophilus influenzae</i> , invasive |           |              |           |                |           |                  |           |
|----------------|--|-----------|--------------|-----------|----------------|-----------|------------------|-----------|
|                | All ages                                 |           | Age <5 years |           |                |           |                  |           |
|                | All serotypes                            |           | Serotype b   |           | Non-serotype b |           | Unknown serotype |           |
|                | Cum. 2005                                | Cum. 2004 | Cum. 2005    | Cum. 2004 | Cum. 2005      | Cum. 2004 | Cum. 2005        | Cum. 2004 |
| UNITED STATES  | 1,855                                    | 1,796     | 4            | 14        | 98             | 109       | 179              | 159       |
| NEW ENGLAND    | 147                                      | 169       | —            | 1         | 10             | 10        | 5                | 2         |
| Maine          | 6  | 12        | —            | —         | —              | —         | 1                | —         |
| N.H.           | 8  | 19        | —            | —         | —              | 2         | —                | 1         |
| Vt.            | 9  | 8         | —            | —         | —              | —         | 2                | 1         |
| Mass.          | 72                                       | 76        | —            | 1         | 3              | 4         | 1                | —         |
| R.I.           | 7  | 6         | —            | —         | 2              | 1         | —                | —         |
| Conn.          | 45                                       | 48        | —            | —         | 5              | 3         | 1                | —         |
| MID. ATLANTIC  | 380                                      | 378       | —            | 2         | 1              | 5         | 38               | 36        |
| Upstate N.Y.   | 108                                      | 118       | —            | 2         | —              | 5         | 8                | 5         |
| N.Y. City      | 69                                       | 81        | —            | —         | —              | —         | 11               | 15        |
| N.J.           | 79                                       | 71        | —            | —         | —              | —         | 10               | 3         |
| Pa.            | 124                                      | 108       | —            | —         | 1              | —         | 9                | 13        |
| E.N. CENTRAL   | 266                                      | 340       | 1            | 2         | 4              | 8         | 19               | 47        |
| Ohio           | 103                                      | 93        | —            | 1         | —              | 2         | 9                | 15        |
| Ind.           | 59                                       | 49        | —            | —         | 4              | 4         | —                | 1         |
| Ill.           | 62                                       | 120       | —            | —         | —              | —         | 7                | 21        |
| Mich.          | 19                                       | 21        | 1            | 1         | —              | 2         | 2                | 4         |
| Wis.           | 23                                       | 57        | —            | —         | —              | —         | 1                | 6         |
| W.N. CENTRAL   | 102                                      | 99        | —            | 2         | 3              | 3         | 9                | 11        |
| Minn.          | 40                                       | 43        | —            | 1         | 3              | 3         | 2                | 1         |
| Iowa           | 1  | 1         | —            | 1         | —              | —         | —                | —         |
| Mo.            | 34                                       | 38        | —            | —         | —              | —         | 5                | 7         |
| N. Dak.        | 4  | 4         | —            | —         | —              | —         | 1                | —         |
| S. Dak.        | —  | —         | —            | —         | —              | —         | —                | —         |
| Nebr.          | 9  | 5         | —            | —         | —              | —         | 1                | 2         |
| Kans.          | 14                                       | 8         | —            | —         | —              | —         | —                | 1         |
| S. ATLANTIC    | 443                                      | 396       | 1            | 1         | 26             | 26        | 32               | 26        |
| Del.           | —  | —         | —            | —         | —              | —         | —                | —         |
| Md.            | 66                                       | 62        | —            | —         | 5              | 6         | —                | —         |
| D.C.           | —  | 3         | —            | —         | —              | —         | —                | 1         |
| Va.            | 40                                       | 39        | —            | —         | —              | —         | 2                | 5         |
| W. Va.         | 26                                       | 16        | —            | —         | 1              | 4         | 6                | —         |
| N.C.           | 72                                       | 54        | 1            | 1         | 8              | 6         | —                | 1         |
| S.C.           | 30                                       | 13        | —            | —         | —              | —         | 3                | 1         |
| Ga.            | 89                                       | 103       | —            | —         | —              | —         | 14               | 17        |
| Fla.           | 120                                      | 106       | —            | —         | 12             | 10        | 7                | 1         |
| E.S. CENTRAL   | 101                                      | 69        | —            | 1         | 1              | 2         | 19               | 11        |
| Ky.            | 8  | 11        | —            | —         | 1              | 2         | 2                | 1         |
| Tenn.          | 75                                       | 43        | —            | —         | —              | —         | 13               | 8         |
| Ala.           | 18                                       | 13        | —            | 1         | —              | —         | 4                | 2         |
| Miss.          | —  | 2         | —            | —         | —              | —         | —                | —         |
| W.S. CENTRAL   | 94                                       | 74        | 1            | 1         | 8              | 9         | 7                | 1         |
| Ark.           | 5  | 2         | —            | —         | 1              | 1         | —                | —         |
| La.            | 31                                       | 15        | 1            | —         | 2              | —         | 7                | 1         |
| Okla.          | 56                                       | 56        | —            | —         | 5              | 8         | —                | —         |
| Tex.           | 2  | 1         | —            | 1         | —              | —         | —                | —         |
| MOUNTAIN       | 199                                      | 175       | —            | 4         | 15             | 25        | 34               | 18        |
| Mont.          | —  | —         | —            | —         | —              | —         | —                | —         |
| Idaho          | 5  | 5         | —            | —         | —              | —         | —                | 2         |
| Wyo.           | 6  | 1         | —            | —         | —              | 1         | 1                | —         |
| Colo.          | 39                                       | 44        | —            | —         | 1              | —         | 9                | 5         |
| N. Mex.        | 20                                       | 37        | —            | 1         | 4              | 8         | 2                | 6         |
| Ariz.          | 98                                       | 59        | —            | —         | 7              | 11        | 12               | 2         |
| Utah           | 17                                       | 16        | —            | 2         | 1              | 2         | 7                | 2         |
| Nev.           | 14                                       | 13        | —            | 1         | 2              | 3         | 3                | 1         |
| PACIFIC        | 123                                      | 96        | 1            | —         | 30             | 21        | 16               | 7         |
| Wash.          | 4  | 1         | —            | —         | —              | —         | 3                | 1         |
| Oreg.          | 29                                       | 43        | —            | —         | —              | —         | 5                | 3         |
| Calif.         | 54                                       | 38        | 1            | —         | 30             | 21        | 2                | 1         |
| Alaska         | 26                                       | 5         | —            | —         | —              | —         | 6                | 1         |
| Hawaii         | 10                                       | 9         | —            | —         | —              | —         | —                | 1         |
| Guam           | —  | —         | —            | —         | —              | —         | —                | —         |
| P.R.           | 3  | 2         | —            | —         | —              | —         | 1                | 2         |
| V.I.           | —  | —         | —            | —         | —              | —         | —                | —         |
| Amer. Samoa    | U  | U         | U            | U         | U              | U         | U                | U         |
| C.N.M.I.       | —  | U         | —            | U         | —              | U         | —                | U         |

N: Not notifiable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.  
 \* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

**TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 26, 2005, and November 27, 2004 (47th Week)\***

| Reporting area | Hepatitis (viral, acute), by type |           |           |           |           |           |
|----------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
|                | A                                 |           | B         |           | C         |           |
|                | Cum. 2005                         | Cum. 2004 | Cum. 2005 | Cum. 2004 | Cum. 2005 | Cum. 2004 |
| UNITED STATES  | 3,682                             | 5,364     | 4,915     | 5,616     | 643       | 727       |
| NEW ENGLAND    | 486                               | 945       | 263       | 349       | 17        | 16        |
| Maine          | 4                                 | 13        | 16        | 5         | —         | —         |
| N.H.           | 76                                | 25        | 26        | 33        | —         | —         |
| Vt.            | 6                                 | 8         | 5         | 6         | 13        | 8         |
| Mass.          | 337                               | 808       | 185       | 198       | 1         | 7         |
| R.I.           | 15                                | 21        | 3         | 5         | —         | —         |
| Conn.          | 48                                | 70        | 28        | 102       | 3         | 1         |
| MID. ATLANTIC  | 622                               | 747       | 948       | 688       | 97        | 133       |
| Upstate N.Y.   | 100                               | 103       | 87        | 73        | 18        | 11        |
| N.Y. City      | 271                               | 325       | 109       | 143       | —         | —         |
| N.J.           | 158                               | 169       | 558       | 194       | —         | —         |
| Pa.            | 93                                | 150       | 194       | 278       | 79        | 122       |
| E.N. CENTRAL   | 356                               | 481       | 473       | 506       | 124       | 106       |
| Ohio           | 49                                | 47        | 123       | 103       | 8         | 6         |
| Ind.           | 51                                | 55        | 55        | 40        | 23        | 9         |
| Ill.           | 87                                | 140       | 103       | 86        | —         | 15        |
| Mich.          | 138                               | 133       | 161       | 238       | 93        | 76        |
| Wis.           | 31                                | 106       | 31        | 39        | —         | —         |
| W.N. CENTRAL   | 84                                | 143       | 243       | 296       | 27        | 20        |
| Minn.          | 3                                 | 32        | 29        | 44        | 5         | 17        |
| Iowa           | 20                                | 46        | 18        | 14        | —         | —         |
| Mo.            | 39                                | 29        | 147       | 175       | 20        | 3         |
| N. Dak.        | —                                 | 1         | —         | 4         | 1         | —         |
| S. Dak.        | —                                 | 3         | 3         | 1         | —         | —         |
| Nebr.          | 6                                 | 12        | 21        | 41        | 1         | —         |
| Kans.          | 16                                | 20        | 25        | 17        | —         | —         |
| S. ATLANTIC    | 647                               | 939       | 1,222     | 1,678     | 137       | 180       |
| Del.           | 5                                 | 6         | 47        | 48        | 7         | 33        |
| Md.            | 68                                | 100       | 141       | 147       | 23        | 10        |
| D.C.           | 4                                 | 7         | 11        | 19        | —         | 4         |
| Va.            | 72                                | 113       | 125       | 237       | 12        | 13        |
| W. Va.         | 5                                 | 5         | 37        | 40        | 21        | 23        |
| N.C.           | 82                                | 98        | 150       | 171       | 21        | 11        |
| S.C.           | 37                                | 40        | 126       | 130       | 3         | 15        |
| Ga.            | 104                               | 302       | 143       | 425       | 8         | 15        |
| Fla.           | 270                               | 268       | 442       | 461       | 42        | 56        |
| E. S. CENTRAL  | 226                               | 143       | 322       | 448       | 75        | 84        |
| Ky.            | 24                                | 29        | 55        | 66        | 9         | 23        |
| Tenn.          | 147                               | 91        | 129       | 212       | 17        | 29        |
| Ala.           | 35                                | 8         | 85        | 71        | 14        | 5         |
| Miss.          | 20                                | 15        | 53        | 99        | 35        | 27        |
| W.S. CENTRAL   | 242                               | 625       | 460       | 630       | 81        | 101       |
| Ark.           | 13                                | 60        | 45        | 104       | 1         | 3         |
| La.            | 63                                | 45        | 66        | 64        | 14        | 3         |
| Okla.          | 5                                 | 20        | 34        | 64        | 6         | 3         |
| Tex.           | 161                               | 500       | 315       | 398       | 60        | 92        |
| MOUNTAIN       | 326                               | 388       | 505       | 441       | 43        | 42        |
| Mont.          | 9                                 | 6         | 3         | 1         | 1         | 2         |
| Idaho          | 22                                | 19        | 13        | 10        | 1         | 1         |
| Wyo.           | —                                 | 5         | 2         | 7         | 1         | 2         |
| Colo.          | 40                                | 47        | 53        | 54        | 23        | 14        |
| N. Mex.        | 23                                | 23        | 9         | 17        | —         | U         |
| Ariz.          | 203                               | 237       | 356       | 240       | —         | 5         |
| Utah           | 19                                | 35        | 41        | 42        | 8         | 5         |
| Nev.           | 10                                | 16        | 28        | 70        | 9         | 13        |
| PACIFIC        | 693                               | 953       | 479       | 580       | 42        | 45        |
| Wash.          | 44                                | 57        | 58        | 48        | U         | U         |
| Oreg.          | 40                                | 62        | 92        | 102       | 17        | 15        |
| Calif.         | 583                               | 803       | 317       | 409       | 24        | 28        |
| Alaska         | 4                                 | 4         | 7         | 11        | —         | —         |
| Hawaii         | 22                                | 27        | 5         | 10        | 1         | 2         |
| Guam           | —                                 | 1         | —         | 12        | —         | 9         |
| P.R.           | 58                                | 45        | 41        | 72        | —         | —         |
| V.I.           | —                                 | —         | —         | —         | —         | —         |
| Amer. Samoa    | U                                 | U         | U         | U         | U         | U         |
| C.N.M.I.       | —                                 | U         | —         | U         | —         | U         |

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\* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).



TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 26, 2005, and November 27, 2004 (47th Week)\*

| Reporting area | Legionellosis |           | Listeriosis |           | Lyme disease |           | Malaria   |           |
|----------------|---------------|-----------|-------------|-----------|--------------|-----------|-----------|-----------|
|                | Cum. 2005     | Cum. 2004 | Cum. 2005   | Cum. 2004 | Cum. 2005    | Cum. 2004 | Cum. 2005 | Cum. 2004 |
| UNITED STATES  | 1,800         | 1,855     | 717         | 665       | 19,088       | 17,046    | 1,132     | 1,293     |
| NEW ENGLAND    | 121           | 86        | 54          | 48        | 2,376        | 3,086     | 61        | 84        |
| Maine          | 6             | 1         | 3           | 8         | 207          | 29        | 4         | 7         |
| N.H.           | 8             | 10        | 7           | 3         | 195          | 203       | 5         | 5         |
| Vt.            | 9             | 6         | 2           | 2         | 46           | 48        | 1         | 4         |
| Mass.          | 46            | 39        | 16          | 18        | 1,004        | 1,488     | 31        | 49        |
| R.I.           | 19            | 15        | 6           | 1         | 32           | 201       | 2         | 4         |
| Conn.          | 33            | 15        | 20          | 16        | 892          | 1,117     | 18        | 15        |
| MID. ATLANTIC  | 628           | 517       | 182         | 161       | 12,105       | 10,368    | 308       | 351       |
| Upstate N.Y.   | 176           | 112       | 56          | 44        | 3,727        | 3,653     | 48        | 48        |
| N.Y. City      | 85            | 67        | 35          | 25        | —            | 345       | 158       | 192       |
| N.J.           | 94            | 83        | 33          | 35        | 3,300        | 2,582     | 70        | 68        |
| Pa.            | 273           | 255       | 58          | 57        | 5,078        | 3,788     | 32        | 43        |
| E.N. CENTRAL   | 340           | 450       | 76          | 114       | 1,373        | 1,297     | 89        | 116       |
| Ohio           | 183           | 207       | 31          | 39        | 61           | 48        | 24        | 28        |
| Ind.           | 22            | 45        | 5           | 17        | 33           | 27        | 4         | 16        |
| Ill.           | 15            | 48        | 2           | 24        | —            | 87        | 29        | 39        |
| Mich.          | 102           | 130       | 27          | 26        | 58           | 26        | 21        | 19        |
| Wis.           | 18            | 20        | 11          | 8         | 1,221        | 1,109     | 11        | 14        |
| W.N. CENTRAL   | 93            | 59        | 41          | 19        | 885          | 539       | 44        | 65        |
| Minn.          | 26            | 7         | 13          | 5         | 774          | 454       | 11        | 24        |
| Iowa           | 6             | 6         | 8           | 3         | 82           | 49        | 8         | 4         |
| Mo.            | 33            | 30        | 6           | 7         | 23           | 24        | 17        | 20        |
| N. Dak.        | 2             | 2         | 4           | —         | —            | —         | —         | 3         |
| S. Dak.        | 21            | 4         | —           | 1         | 1            | 1         | —         | 1         |
| Nebr.          | 3             | 4         | 5           | 3         | 2            | 8         | 3         | 4         |
| Kans.          | 2             | 6         | 5           | —         | 3            | 3         | 5         | 9         |
| S. ATLANTIC    | 360           | 378       | 151         | 112       | 2,098        | 1,547     | 275       | 319       |
| Del.           | 16            | 13        | N           | N         | 594          | 317       | 3         | 6         |
| Md.            | 103           | 76        | 19          | 17        | 1,103        | 830       | 97        | 74        |
| D.C.           | 12            | 11        | —           | 5         | 8            | 13        | 8         | 13        |
| Va.            | 37            | 48        | 14          | 17        | 219          | 166       | 27        | 50        |
| W. Va.         | 18            | 10        | 4           | 4         | 17           | 28        | 3         | 2         |
| N.C.           | 31            | 37        | 32          | 24        | 44           | 111       | 30        | 19        |
| S.C.           | 13            | 15        | 12          | 10        | 19           | 26        | 8         | 11        |
| Ga.            | 24            | 41        | 21          | 14        | 5            | 12        | 41        | 59        |
| Fla.           | 106           | 127       | 49          | 21        | 89           | 44        | 58        | 85        |
| E.S. CENTRAL   | 79            | 95        | 28          | 23        | 35           | 44        | 28        | 32        |
| Ky.            | 28            | 39        | 4           | 4         | 5            | 15        | 9         | 4         |
| Tenn.          | 35            | 40        | 12          | 12        | 28           | 24        | 13        | 11        |
| Ala.           | 13            | 12        | 8           | 5         | 2            | 5         | 6         | 12        |
| Miss.          | 3             | 4         | 4           | 2         | —            | —         | —         | 5         |
| W.S. CENTRAL   | 25            | 129       | 31          | 39        | 59           | 67        | 80        | 122       |
| Ark.           | 4             | 1         | 2           | 3         | 4            | 8         | 6         | 8         |
| La.            | 1             | 8         | 10          | 3         | 7            | 2         | 3         | 6         |
| Okla.          | 7             | 6         | 5           | 1         | —            | —         | 10        | 7         |
| Tex.           | 13            | 114       | 14          | 32        | 48           | 57        | 61        | 101       |
| MOUNTAIN       | 82            | 77        | 16          | 23        | 21           | 17        | 52        | 50        |
| Mont.          | 5             | 2         | —           | —         | —            | —         | —         | 1         |
| Idaho          | 3             | 9         | —           | 1         | 2            | 6         | —         | 1         |
| Wyo.           | 4             | 6         | —           | —         | 3            | 3         | 2         | —         |
| Colo.          | 21            | 20        | 7           | 12        | 3            | —         | 23        | 18        |
| N. Mex.        | 2             | 4         | 4           | 1         | 1            | 1         | 2         | 4         |
| Ariz.          | 24            | 11        | —           | —         | 8            | 6         | 14        | 13        |
| Utah           | 15            | 21        | 3           | 1         | 2            | 1         | 9         | 8         |
| Nev.           | 8             | 4         | 2           | 8         | 2            | —         | 2         | 5         |
| PACIFIC        | 72            | 64        | 138         | 126       | 136          | 81        | 195       | 154       |
| Wash.          | —             | 9         | 9           | 9         | 9            | 12        | 15        | 16        |
| Oreg.          | N             | N         | 11          | 7         | 19           | 26        | 11        | 17        |
| Calif.         | 69            | 54        | 117         | 106       | 105          | 41        | 148       | 115       |
| Alaska         | —             | 1         | —           | —         | 3            | 2         | 5         | 2         |
| Hawaii         | 3             | —         | 1           | 4         | N            | N         | 16        | 4         |
| Guam           | —             | —         | —           | —         | —            | —         | —         | —         |
| P.R.           | —             | —         | —           | —         | N            | N         | 2         | —         |
| V.I.           | —             | —         | —           | —         | —            | —         | —         | —         |
| Amer. Samoa    | U             | U         | U           | U         | U            | U         | U         | U         |
| C.N.M.I.       | —             | U         | —           | U         | —            | U         | —         | U         |

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 \* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

**TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 26, 2005, and November 27, 2004 (47th Week)\***

| Reporting area | Meningococcal disease |           |                              |           |             |           |                 |           |                   |           |
|----------------|-----------------------|-----------|------------------------------|-----------|-------------|-----------|-----------------|-----------|-------------------|-----------|
|                | All serogroups        |           | Serogroup A, C, Y, and W-135 |           | Serogroup B |           | Other serogroup |           | Serogroup unknown |           |
|                | Cum. 2005             | Cum. 2004 | Cum. 2005                    | Cum. 2004 | Cum. 2005   | Cum. 2004 | Cum. 2005       | Cum. 2004 | Cum. 2005         | Cum. 2004 |
| UNITED STATES  | 1,033                 | 1,078     | 84                           | 85        | 51          | 41        | —               | 1         | 898               | 951       |
| NEW ENGLAND    | 65                    | 67        | 1                            | 6         | —           | 6         | —               | 1         | 64                | 54        |
| Maine          | 2                     | 10        | —                            | —         | —           | 1         | —               | —         | 2                 | 9         |
| N.H.           | 12                    | 7         | —                            | —         | —           | —         | —               | —         | 12                | 7         |
| Vt.            | 5                     | 3         | —                            | —         | —           | —         | —               | —         | 5                 | 3         |
| Mass.          | 31                    | 35        | —                            | 5         | —           | 5         | —               | —         | 31                | 25        |
| R.I.           | 3                     | 2         | —                            | 1         | —           | —         | —               | —         | 3                 | 1         |
| Conn.          | 12                    | 10        | 1                            | —         | —           | —         | —               | 1         | 11                | 9         |
| MID. ATLANTIC  | 137                   | 148       | 37                           | 40        | 9           | 5         | —               | —         | 91                | 103       |
| Upstate N.Y.   | 36                    | 39        | 4                            | 6         | 6           | 3         | —               | —         | 26                | 30        |
| N.Y. City      | 20                    | 26        | —                            | —         | —           | —         | —               | —         | 20                | 26        |
| N.J.           | 34                    | 31        | —                            | —         | —           | —         | —               | —         | 34                | 31        |
| Pa.            | 47                    | 52        | 33                           | 34        | 3           | 2         | —               | —         | 11                | 16        |
| E.N. CENTRAL   | 117                   | 122       | 32                           | 29        | 11          | 6         | —               | —         | 74                | 87        |
| Ohio           | 42                    | 62        | —                            | 4         | 7           | 5         | —               | —         | 35                | 53        |
| Ind.           | 18                    | 18        | —                            | 1         | 4           | 1         | —               | —         | 14                | 16        |
| Ill.           | 15                    | 1         | —                            | —         | —           | —         | —               | —         | 15                | 1         |
| Mich.          | 32                    | 24        | 32                           | 24        | —           | —         | —               | —         | —                 | —         |
| Wis.           | 10                    | 17        | —                            | —         | —           | —         | —               | —         | 10                | 17        |
| W.N. CENTRAL   | 74                    | 74        | 3                            | —         | 1           | 5         | —               | —         | 70                | 69        |
| Minn.          | 15                    | 23        | 1                            | —         | —           | —         | —               | —         | 14                | 23        |
| Iowa           | 16                    | 17        | —                            | —         | 1           | 3         | —               | —         | 15                | 14        |
| Mo.            | 26                    | 19        | 1                            | —         | —           | 1         | —               | —         | 25                | 18        |
| N. Dak.        | 1                     | 2         | —                            | —         | —           | —         | —               | —         | 1                 | 2         |
| S. Dak.        | 4                     | 2         | 1                            | —         | —           | 1         | —               | —         | 3                 | 1         |
| Nebr.          | 5                     | 4         | —                            | —         | —           | —         | —               | —         | 5                 | 4         |
| Kans.          | 7                     | 7         | —                            | —         | —           | —         | —               | —         | 7                 | 7         |
| S. ATLANTIC    | 198                   | 203       | 6                            | 2         | 9           | 4         | —               | —         | 183               | 197       |
| Del.           | 4                     | 6         | —                            | —         | —           | —         | —               | —         | 4                 | 6         |
| Md.            | 21                    | 10        | 3                            | —         | 2           | —         | —               | —         | 16                | 10        |
| D.C.           | —                     | 5         | —                            | 2         | —           | —         | —               | —         | —                 | 3         |
| Va.            | 30                    | 20        | —                            | —         | —           | —         | —               | —         | 30                | 20        |
| W. Va.         | 6                     | 5         | 1                            | —         | —           | —         | —               | —         | 5                 | 5         |
| N.C.           | 32                    | 28        | 2                            | —         | 7           | 4         | —               | —         | 23                | 24        |
| S.C.           | 15                    | 15        | —                            | —         | —           | —         | —               | —         | 15                | 15        |
| Ga.            | 15                    | 14        | —                            | —         | —           | —         | —               | —         | 15                | 14        |
| Fla.           | 75                    | 100       | —                            | —         | —           | —         | —               | —         | 75                | 100       |
| E.S. CENTRAL   | 52                    | 64        | 1                            | 1         | 3           | 1         | —               | —         | 48                | 62        |
| Ky.            | 16                    | 11        | —                            | 1         | 3           | 1         | —               | —         | 13                | 9         |
| Tenn.          | 24                    | 22        | —                            | —         | —           | —         | —               | —         | 24                | 22        |
| Ala.           | 6                     | 16        | 1                            | —         | —           | —         | —               | —         | 5                 | 16        |
| Miss.          | 6                     | 15        | —                            | —         | —           | —         | —               | —         | 6                 | 15        |
| W.S. CENTRAL   | 89                    | 66        | 1                            | 3         | 5           | 2         | —               | —         | 83                | 61        |
| Ark.           | 14                    | 15        | —                            | —         | —           | 1         | —               | —         | 14                | 14        |
| La.            | 27                    | 31        | —                            | 1         | 2           | —         | —               | —         | 25                | 30        |
| Okla.          | 13                    | 10        | 1                            | 2         | 3           | 1         | —               | —         | 9                 | 7         |
| Tex.           | 35                    | 10        | —                            | —         | —           | —         | —               | —         | 35                | 10        |
| MOUNTAIN       | 80                    | 60        | 2                            | 1         | 6           | 5         | —               | —         | 72                | 54        |
| Mont.          | —                     | 3         | —                            | —         | —           | —         | —               | —         | —                 | 3         |
| Idaho          | 6                     | 7         | —                            | —         | —           | —         | —               | —         | 6                 | 7         |
| Wyo.           | —                     | 4         | —                            | —         | —           | —         | —               | —         | —                 | 4         |
| Colo.          | 17                    | 15        | 1                            | —         | 1           | —         | —               | —         | 15                | 15        |
| N. Mex.        | 3                     | 8         | —                            | 1         | —           | 3         | —               | —         | 3                 | 4         |
| Ariz.          | 36                    | 11        | —                            | —         | 2           | 1         | —               | —         | 34                | 10        |
| Utah           | 10                    | 5         | 1                            | —         | 2           | —         | —               | —         | 7                 | 5         |
| Nev.           | 8                     | 7         | —                            | —         | 1           | 1         | —               | —         | 7                 | 6         |
| PACIFIC        | 221                   | 274       | 1                            | 3         | 7           | 7         | —               | —         | 213               | 264       |
| Wash.          | 42                    | 28        | 1                            | 3         | 4           | 7         | —               | —         | 37                | 18        |
| Oreg.          | 28                    | 52        | —                            | —         | —           | —         | —               | —         | 28                | 52        |
| Calif.         | 136                   | 181       | —                            | —         | —           | —         | —               | —         | 136               | 181       |
| Alaska         | 3                     | 4         | —                            | —         | —           | —         | —               | —         | 3                 | 4         |
| Hawaii         | 12                    | 9         | —                            | —         | 3           | —         | —               | —         | 9                 | 9         |
| Guam           | —                     | 1         | —                            | —         | —           | —         | —               | —         | —                 | 1         |
| P.R.           | 6                     | 17        | —                            | —         | —           | —         | —               | —         | 6                 | 17        |
| V.I.           | —                     | —         | —                            | —         | —           | —         | —               | —         | —                 | —         |
| Amer. Samoa    | 1                     | 1         | —                            | —         | —           | —         | —               | —         | 1                 | 1         |
| C.N.M.I.       | —                     | —         | —                            | —         | —           | —         | —               | —         | —                 | —         |

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\* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 26, 2005, and November 27, 2004 (47th Week)\*

| Reporting area | Pertussis |           | Rabies, animal |           | Rocky Mountain spotted fever |           | Salmonellosis |           | Shigellosis |           |
|----------------|-----------|-----------|----------------|-----------|------------------------------|-----------|---------------|-----------|-------------|-----------|
|                | Cum. 2005 | Cum. 2004 | Cum. 2005      | Cum. 2004 | Cum. 2005                    | Cum. 2004 | Cum. 2005     | Cum. 2004 | Cum. 2005   | Cum. 2004 |
| UNITED STATES  | 18,388    | 19,447    | 4,932          | 5,954     | 1,611                        | 1,436     | 38,016        | 38,000    | 12,365      | 12,371    |
| NEW ENGLAND    | 1,104     | 1,845     | 638            | 649       | 3                            | 20        | 1,934         | 1,887     | 271         | 276       |
| Maine          | 30        | 40        | 49             | 52        | N                            | N         | 139           | 96        | 9           | 8         |
| N.H.           | 65        | 93        | 12             | 30        | 1                            | —         | 152           | 129       | 8           | 9         |
| Vt.            | 76        | 95        | 53             | 35        | —                            | 1         | 89            | 57        | 16          | 3         |
| Mass.          | 857       | 1,518     | 312            | 275       | 1                            | 15        | 1,028         | 1,083     | 172         | 173       |
| R.I.           | 34        | 38        | 22             | 43        | 1                            | 1         | 87            | 108       | 14          | 18        |
| Conn.          | 42        | 61        | 190            | 214       | —                            | 3         | 439           | 414       | 52          | 65        |
| MID. ATLANTIC  | 1,200     | 2,573     | 877            | 906       | 100                          | 74        | 4,514         | 5,221     | 1,120       | 1,085     |
| Upstate N.Y.   | 484       | 1,771     | 511            | 499       | 5                            | 1         | 1,153         | 1,145     | 249         | 389       |
| N.Y. City      | 85        | 180       | 27             | 12        | 8                            | 23        | 1,077         | 1,185     | 367         | 375       |
| N.J.           | 192       | 190       | N              | N         | 31                           | 14        | 770           | 983       | 279         | 221       |
| Pa.            | 439       | 432       | 339            | 395       | 56                           | 36        | 1,514         | 1,908     | 225         | 100       |
| E.N. CENTRAL   | 3,211     | 7,434     | 196            | 184       | 34                           | 34        | 4,757         | 4,681     | 887         | 1,123     |
| Ohio           | 1,063     | 552       | 69             | 74        | 21                           | 10        | 1,220         | 1,115     | 112         | 153       |
| Ind.           | 302       | 223       | 11             | 10        | 3                            | 6         | 557           | 441       | 164         | 189       |
| Ill.           | 580       | 1,322     | 50             | 50        | 1                            | 14        | 1,410         | 1,500     | 269         | 382       |
| Mich.          | 274       | 273       | 37             | 41        | 7                            | 2         | 808           | 771       | 208         | 197       |
| Wis.           | 992       | 5,064     | 29             | 9         | 2                            | 2         | 762           | 854       | 134         | 202       |
| W.N. CENTRAL   | 3,044     | 2,307     | 393            | 583       | 162                          | 122       | 2,310         | 2,193     | 1,477       | 391       |
| Minn.          | 1,025     | 438       | 67             | 84        | 3                            | 4         | 523           | 569       | 86          | 63        |
| Iowa           | 614       | 495       | 104            | 97        | 4                            | 2         | 396           | 405       | 96          | 60        |
| Mo.            | 474       | 349       | 75             | 58        | 141                          | 97        | 763           | 562       | 935         | 155       |
| N. Dak.        | 139       | 710       | 25             | 58        | —                            | —         | 39            | 40        | 4           | 3         |
| S. Dak.        | 153       | 124       | 48             | 93        | 5                            | 4         | 139           | 112       | 45          | 10        |
| Nebr.          | 177       | 59        | —              | 96        | 4                            | 15        | 120           | 158       | 79          | 28        |
| Kans.          | 462       | 132       | 74             | 97        | 5                            | —         | 330           | 347       | 232         | 72        |
| S. ATLANTIC    | 1,236     | 736       | 1,509          | 2,045     | 810                          | 750       | 11,450        | 10,305    | 2,150       | 2,668     |
| Del.           | 15        | 5         | —              | 9         | 4                            | 6         | 114           | 103       | 11          | 10        |
| Md.            | 167       | 137       | 303            | 295       | 84                           | 69        | 760           | 770       | 99          | 140       |
| D.C.           | 8         | 9         | —              | —         | 2                            | —         | 53            | 59        | 13          | 38        |
| Va.            | 315       | 196       | 481            | 446       | 99                           | 30        | 1,001         | 1,060     | 114         | 145       |
| W. Va.         | 43        | 22        | 52             | 63        | 7                            | 5         | 169           | 221       | 1           | 9         |
| N.C.           | 118       | 79        | 445            | 550       | 468                          | 484       | 1,556         | 1,526     | 184         | 341       |
| S.C.           | 341       | 143       | 5              | 156       | 62                           | 60        | 1,215         | 909       | 91          | 501       |
| Ga.            | 40        | 24        | 216            | 321       | 66                           | 78        | 1,749         | 1,808     | 567         | 602       |
| Fla.           | 189       | 121       | 7              | 205       | 18                           | 18        | 4,833         | 3,849     | 1,070       | 882       |
| E. S. CENTRAL  | 443       | 272       | 131            | 145       | 260                          | 193       | 2,711         | 2,508     | 1,104       | 853       |
| Ky.            | 127       | 67        | 16             | 22        | 3                            | 2         | 449           | 319       | 294         | 72        |
| Tenn.          | 191       | 150       | 43             | 50        | 190                          | 109       | 721           | 645       | 504         | 443       |
| Ala.           | 80        | 39        | 70             | 62        | 63                           | 54        | 700           | 690       | 216         | 288       |
| Miss.          | 45        | 16        | 2              | 11        | 4                            | 28        | 841           | 854       | 90          | 50        |
| W.S. CENTRAL   | 1,571     | 864       | 803            | 1,033     | 197                          | 218       | 3,306         | 3,979     | 2,397       | 3,373     |
| Ark.           | 268       | 78        | 33             | 50        | 121                          | 134       | 692           | 528       | 59          | 74        |
| La.            | 35        | 19        | —              | 4         | 5                            | 5         | 777           | 898       | 128         | 283       |
| Okla.          | —         | 38        | 72             | 106       | 52                           | 71        | 371           | 367       | 596         | 430       |
| Tex.           | 1,268     | 729       | 698            | 873       | 19                           | 8         | 1,466         | 2,186     | 1,614       | 2,586     |
| MOUNTAIN       | 3,709     | 1,552     | 217            | 214       | 36                           | 21        | 2,116         | 2,162     | 852         | 771       |
| Mont.          | 547       | 54        | 15             | 26        | 1                            | 3         | 124           | 179       | 5           | 4         |
| Idaho          | 223       | 37        | —              | 8         | 3                            | 4         | 138           | 144       | 17          | 13        |
| Wyo.           | 47        | 31        | 17             | 6         | 2                            | 5         | 79            | 49        | 5           | 5         |
| Colo.          | 1,260     | 860       | 16             | 47        | 5                            | 4         | 543           | 504       | 154         | 147       |
| N. Mex.        | 127       | 149       | 10             | 5         | 3                            | 2         | 215           | 265       | 117         | 132       |
| Ariz.          | 910       | 207       | 131            | 111       | 18                           | 2         | 626           | 633       | 483         | 372       |
| Utah           | 563       | 172       | 15             | 8         | 4                            | 1         | 305           | 222       | 43          | 43        |
| Nev.           | 32        | 42        | 13             | 3         | —                            | —         | 86            | 166       | 28          | 55        |
| PACIFIC        | 2,870     | 1,864     | 168            | 195       | 9                            | 4         | 4,918         | 5,064     | 2,107       | 1,831     |
| Wash.          | 782       | 675       | U              | U         | —                            | —         | 494           | 505       | 126         | 99        |
| Oreg.          | 568       | 482       | 7              | 6         | 2                            | 2         | 350           | 395       | 117         | 81        |
| Calif.         | 1,261     | 667       | 160            | 178       | 7                            | 2         | 3,743         | 3,766     | 1,824       | 1,600     |
| Alaska         | 115       | 14        | 1              | 11        | —                            | —         | 56            | 57        | 7           | 6         |
| Hawaii         | 144       | 26        | —              | —         | —                            | —         | 275           | 341       | 33          | 45        |
| Guam           | —         | —         | —              | —         | —                            | —         | —             | 50        | —           | 42        |
| P.R.           | 6         | 5         | 59             | 57        | N                            | N         | 422           | 456       | 5           | 32        |
| V.I.           | —         | —         | —              | —         | —                            | —         | —             | —         | —           | —         |
| Amer. Samoa    | U         | U         | U              | U         | U                            | U         | U             | U         | U           | U         |
| C.N.M.I.       | —         | U         | —              | U         | —                            | U         | —             | U         | —           | U         |

N: Not notifiable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.  
 \* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 26, 2005, and November 27, 2004 (47th Week)\*

| Reporting area | Streptococcal disease, invasive, group A |           | Streptococcus pneumoniae, invasive disease |           |              |           | Syphilis            |           |            |           |
|----------------|--|-----------|--|-----------|--------------|-----------|---------------------|-----------|------------|-----------|
|                |  |           | Drug resistant, all ages                   |           | Age <5 years |           | Primary & secondary |           | Congenital |           |
|                | Cum. 2005                                | Cum. 2004 | Cum. 2005                                  | Cum. 2004 | Cum. 2005    | Cum. 2004 | Cum. 2005           | Cum. 2004 | Cum. 2005  | Cum. 2004 |
| UNITED STATES  | 3,818                                    | 3,961     | 1,938                                      | 2,006     | 814          | 737       | 7,239               | 7,009     | 240        | 344       |
| NEW ENGLAND    | 156                                      | 254       | 108  | 154       | 61           | 103       | 194                 | 174       | 1          | 4         |
| Maine          | 10                                       | 11        | N  | N         | —            | 7         | 1                   | 2         | —          | —         |
| N.H.           | 14                                       | 18        | —  | —         | 4            | N         | 14                  | 4         | —          | 3         |
| Vt.            | 10                                       | 9         | 12   | 7         | 6            | 3         | 1                   | —         | —          | —         |
| Mass.          | 113                                      | 111       | 80   | 49        | 50           | 58        | 115                 | 107       | —          | —         |
| R.I.           | 9  | 21        | 16   | 20        | 1            | 6         | 20                  | 25        | —          | 1         |
| Conn.          | U  | 84        | U  | 78        | U            | 29        | 43                  | 36        | 1          | —         |
| MID. ATLANTIC  | 780                                      | 653       | 179  | 139       | 128          | 113       | 899                 | 909       | 30         | 34        |
| Upstate N.Y.   | 233                                      | 211       | 70   | 57        | 56           | 77        | 78                  | 83        | 7          | 4         |
| N.Y. City      | 146                                      | 111       | U  | U         | 20           | U         | 551                 | 578       | 5          | 15        |
| N.J.           | 155                                      | 133       | N  | N         | 24           | 10        | 117                 | 133       | 18         | 14        |
| Pa.            | 246                                      | 198       | 109  | 82        | 28           | 26        | 153                 | 115       | —          | 1         |
| E.N. CENTRAL   | 754                                      | 891       | 552  | 448       | 247          | 175       | 765                 | 801       | 32         | 54        |
| Ohio           | 177                                      | 207       | 328  | 308       | 74           | 71        | 199                 | 215       | 1          | 2         |
| Ind.           | 92                                       | 93        | 174  | 140       | 47           | 42        | 56                  | 55        | 1          | 3         |
| Ill.           | 168                                      | 232       | 14   | —         | 58           | 12        | 403                 | 339       | 12         | 18        |
| Mich.          | 281                                      | 272       | 36   | N         | 51           | N         | 75                  | 163       | 15         | 30        |
| Wis.           | 36                                       | 87        | N  | N         | 17           | 50        | 32                  | 29        | 3          | 1         |
| W.N. CENTRAL   | 243                                      | 285       | 45   | 19        | 84           | 98        | 214                 | 143       | 5          | 5         |
| Minn.          | 96                                       | 137       | —  | —         | 49           | 65        | 54                  | 24        | 1          | 1         |
| Iowa           | N  | N         | N  | N         | —            | N         | 4                   | 5         | —          | —         |
| Mo.            | 62                                       | 59        | 37   | 14        | 9            | 13        | 132                 | 85        | 4          | 2         |
| N. Dak.        | 9  | 12        | 3  | —         | 4            | 4         | 1                   | —         | —          | —         |
| S. Dak.        | 20                                       | 17        | 3  | 5         | —            | —         | 1                   | —         | —          | —         |
| Nebr.          | 21                                       | 20        | 2  | —         | 7            | 8         | 4                   | 6         | —          | —         |
| Kans.          | 35                                       | 40        | N  | N         | 15           | 8         | 18                  | 23        | —          | 2         |
| S. ATLANTIC    | 845                                      | 793       | 744  | 995       | 76           | 53        | 1,829               | 1,779     | 38         | 56        |
| Del.           | 5  | 3         | 1  | 4         | —            | N         | 10                  | 8         | —          | 1         |
| Md.            | 186                                      | 134       | —  | —         | 51           | 38        | 278                 | 328       | 13         | 9         |
| D.C.           | 10                                       | 10        | 15   | 9         | 3            | 4         | 90                  | 61        | —          | 1         |
| Va.            | 77                                       | 67        | N  | N         | —            | N         | 123                 | 94        | 4          | 3         |
| W. Va.         | 22                                       | 24        | 104  | 99        | 22           | 11        | 4                   | 3         | —          | —         |
| N.C.           | 118                                      | 118       | N  | N         | U            | U         | 242                 | 177       | 9          | 10        |
| S.C.           | 30                                       | 51        | —  | 83        | —            | N         | 72                  | 109       | 4          | 12        |
| Ga.            | 166                                      | 184       | 116  | 269       | —            | N         | 352                 | 345       | 1          | 4         |
| Fla.           | 231                                      | 202       | 508  | 531       | —            | N         | 658                 | 654       | 7          | 16        |
| E.S. CENTRAL   | 159                                      | 200       | 152  | 147       | 13           | 16        | 423                 | 365       | 24         | 21        |
| Ky.            | 32                                       | 58        | 25   | 30        | N            | N         | 47                  | 44        | —          | 1         |
| Tenn.          | 127                                      | 142       | 127  | 115       | —            | N         | 196                 | 117       | 17         | 8         |
| Ala.           | —  | —         | —  | —         | —            | N         | 140                 | 152       | 6          | 10        |
| Miss.          | —  | —         | —  | 2         | 13           | 16        | 40                  | 52        | 1          | 2         |
| W.S. CENTRAL   | 239                                      | 314       | 102  | 75        | 147          | 142       | 1,152               | 1,108     | 67         | 69        |
| Ark.           | 21                                       | 16        | 13   | 10        | 15           | 8         | 44                  | 46        | 1          | 3         |
| La.            | 7  | 2         | 89   | 65        | 24           | 31        | 230                 | 291       | 11         | 6         |
| Okla.          | 104                                      | 63        | N  | N         | 29           | 44        | 37                  | 25        | 1          | 2         |
| Tex.           | 107                                      | 233       | N  | N         | 79           | 59        | 841                 | 746       | 54         | 58        |
| MOUNTAIN       | 543                                      | 448       | 56   | 28        | 49           | 34        | 346                 | 355       | 17         | 45        |
| Mont.          | —  | —         | —  | —         | —            | —         | 5                   | 1         | —          | —         |
| Idaho          | 3  | 9         | N  | N         | —            | N         | 20                  | 22        | 1          | 2         |
| Wyo.           | 4  | 9         | 23   | 11        | —            | —         | —                   | 3         | —          | —         |
| Colo.          | 187                                      | 101       | N  | N         | 48           | 34        | 38                  | 57        | 1          | 1         |
| N. Mex.        | 42                                       | 88        | —  | N         | —            | —         | 44                  | 76        | 2          | 2         |
| Ariz.          | 231                                      | 201       | N  | N         | —            | N         | 155                 | 149       | 12         | 39        |
| Utah           | 75                                       | 36        | 31   | 15        | 1            | —         | 6                   | 11        | —          | 1         |
| Nev.           | 1  | 4         | 2  | 2         | —            | —         | 78                  | 36        | 1          | —         |
| PACIFIC        | 99                                       | 123       | —  | 1         | 9            | 3         | 1,417               | 1,375     | 26         | 56        |
| Wash.          | N  | N         | N  | N         | N            | N         | 137                 | 127       | —          | —         |
| Oreg.          | N  | N         | N  | N         | 6            | N         | 32                  | 25        | —          | —         |
| Calif.         | —  | —         | N  | N         | N            | N         | 1,233               | 1,215     | 26         | 56        |
| Alaska         | —  | —         | —  | —         | —            | N         | 6                   | 1         | —          | —         |
| Hawaii         | 99                                       | 123       | —  | 1         | 3            | 3         | 9                   | 7         | —          | —         |
| Guam           | —  | —         | —  | —         | —            | —         | —                   | 2         | —          | —         |
| P.R.           | N  | N         | N  | N         | —            | N         | 196                 | 156       | 9          | 5         |
| V.I.           | —  | —         | —  | —         | —            | —         | —                   | 4         | —          | —         |
| Amer. Samoa    | U  | U         | U  | U         | U            | U         | U                   | U         | U          | U         |
| C.N.M.I.       | —  | U         | —  | U         | —            | U         | —                   | U         | —          | U         |

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\* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).



TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 26, 2005, and November 27, 2004 (47th Week)\*

| Reporting area | Tuberculosis |              | Typhoid fever |              | Varicella<br>(chickenpox) |              | West Nile virus disease <sup>†</sup> |              |                                |
|----------------|--------------|--------------|---------------|--------------|---------------------------|--------------|--------------------------------------|--------------|--------------------------------|
|                | Cum.<br>2005 | Cum.<br>2004 | Cum.<br>2005  | Cum.<br>2004 | Cum.<br>2005              | Cum.<br>2004 | Neuroinvasive                        |              | Non-neuroinvasive <sup>§</sup> |
|                |              |              |               |              |                           |              | Cum.<br>2005                         | Cum.<br>2004 | Cum.<br>2005                   |
| UNITED STATES  | 10,195       | 11,967       | 240           | 292          | 22,918                    | 25,757       | 1,146                                | 1,139        | 1,427                          |
| NEW ENGLAND    | 310          | 395          | 23            | 21           | 2,227                     | 3,089        | 9                                    | —            | 4                              |
| Maine          | 14           | 18           | 1             | —            | 213                       | 226          | —                                    | —            | —                              |
| N.H.           | 6            | 16           | —             | —            | 1,382                     | —            | —                                    | —            | —                              |
| Vt.            | 5            | 3            | —             | —            | 90                        | 413          | —                                    | —            | —                              |
| Mass.          | 204          | 225          | 13            | 15           | 542                       | 743          | 4                                    | —            | 2                              |
| R.I.           | 29           | 48           | 1             | 1            | —                         | —            | 1                                    | —            | —                              |
| Conn.          | 52           | 85           | 8             | 5            | U                         | 1,707        | 4                                    | —            | 2                              |
| MID. ATLANTIC  | 1,808        | 1,867        | 46            | 71           | 4,228                     | 86           | 26                                   | 17           | 17                             |
| Upstate N.Y.   | 227          | 262          | 5             | 10           | —                         | —            | —                                    | 5            | —                              |
| N.Y. City      | 885          | 923          | 20            | 29           | —                         | —            | 10                                   | 2            | 4                              |
| N.J.           | 425          | 416          | 13            | 17           | —                         | —            | 2                                    | 1            | 2                              |
| Pa.            | 271          | 266          | 8             | 15           | 4,228                     | 86           | 14                                   | 9            | 11                             |
| E.N. CENTRAL   | 1,095        | 1,047        | 22            | 34           | 5,777                     | 11,348       | 233                                  | 66           | 115                            |
| Ohio           | 219          | 178          | 2             | 6            | 1,359                     | 1,291        | 46                                   | 11           | 15                             |
| Ind.           | 118          | 113          | 1             | —            | 482                       | N            | 10                                   | 8            | 1                              |
| Ill.           | 509          | 470          | 8             | 16           | 72                        | 5,750        | 130                                  | 29           | 88                             |
| Mich.          | 181          | 205          | 6             | 9            | 3,502                     | 3,689        | 36                                   | 13           | 5                              |
| Wis.           | 68           | 81           | 5             | 3            | 362                       | 618          | 11                                   | 5            | 6                              |
| W.N. CENTRAL   | 390          | 418          | 6             | 8            | 536                       | 169          | 141                                  | 86           | 417                            |
| Minn.          | 163          | 159          | 5             | 4            | —                         | —            | 16                                   | 13           | 27                             |
| Iowa           | 38           | 42           | —             | —            | N                         | N            | 12                                   | 13           | 18                             |
| Mo.            | 93           | 111          | —             | 2            | 394                       | 5            | 17                                   | 27           | 13                             |
| N. Dak.        | 2            | 4            | —             | —            | 55                        | 82           | 12                                   | 2            | 74                             |
| S. Dak.        | 13           | 8            | —             | —            | 87                        | 82           | 35                                   | 6            | 197                            |
| Nebr.          | 29           | 34           | —             | 2            | —                         | —            | 36                                   | 7            | 80                             |
| Kans.          | 52           | 60           | 1             | —            | —                         | —            | 13                                   | 18           | 8                              |
| S. ATLANTIC    | 2,214        | 2,535        | 48            | 43           | 2,092                     | 2,098        | 30                                   | 65           | 22                             |
| Del.           | 19           | 17           | 1             | —            | 28                        | 5            | 1                                    | —            | —                              |
| Md.            | 236          | 250          | 11            | 12           | —                         | —            | 4                                    | 10           | 1                              |
| D.C.           | 47           | 75           | —             | —            | 37                        | 23           | —                                    | 1            | —                              |
| Va.            | 264          | 248          | 17            | 9            | 558                       | 481          | —                                    | 4            | —                              |
| W. Va.         | 24           | 21           | —             | —            | 1,016                     | 1,194        | —                                    | —            | N                              |
| N.C.           | 248          | 299          | 5             | 8            | —                         | N            | 2                                    | 3            | 2                              |
| S.C.           | 199          | 163          | —             | —            | 453                       | 395          | 5                                    | —            | —                              |
| Ga.            | 343          | 516          | 3             | 4            | —                         | —            | 9                                    | 14           | 7                              |
| Fla.           | 834          | 946          | 11            | 10           | —                         | —            | 9                                    | 33           | 12                             |
| E. S. CENTRAL  | 503          | 583          | 6             | 8            | —                         | 48           | 63                                   | 60           | 38                             |
| Ky.            | 97           | 103          | 2             | 3            | N                         | N            | 5                                    | 1            | —                              |
| Tenn.          | 233          | 197          | 1             | 5            | —                         | —            | 13                                   | 13           | 3                              |
| Ala.           | 173          | 179          | 1             | —            | —                         | 48           | 6                                    | 15           | 4                              |
| Miss.          | —            | 104          | 2             | —            | —                         | —            | 39                                   | 31           | 31                             |
| W. S. CENTRAL  | 1,310        | 1,734        | 16            | 26           | 5,753                     | 6,656        | 231                                  | 234          | 115                            |
| Ark.           | 94           | 106          | —             | —            | 19                        | —            | 11                                   | 17           | 15                             |
| La.            | —            | —            | 1             | —            | 111                       | 54           | 100                                  | 82           | 38                             |
| Okla.          | 126          | 149          | 1             | 1            | —                         | —            | 13                                   | 16           | 11                             |
| Tex.           | 1,090        | 1,479        | 14            | 25           | 5,623                     | 6,602        | 107                                  | 119          | 51                             |
| MOUNTAIN       | 335          | 461          | 9             | 7            | 2,305                     | 2,263        | 134                                  | 322          | 205                            |
| Mont.          | 8            | 4            | —             | —            | —                         | —            | 8                                    | 2            | 17                             |
| Idaho          | —            | 3            | —             | —            | —                         | —            | 2                                    | 1            | 7                              |
| Wyo.           | —            | 4            | —             | —            | 52                        | 55           | 6                                    | 2            | 6                              |
| Colo.          | 51           | 112          | 5             | 2            | 1,655                     | 1,797        | 19                                   | 41           | 72                             |
| N. Mex.        | 19           | 32           | —             | —            | 153                       | U            | 20                                   | 31           | 13                             |
| Ariz.          | 200          | 187          | 2             | 2            | —                         | —            | 44                                   | 214          | 44                             |
| Utah           | 26           | 35           | 1             | 1            | 445                       | 411          | 21                                   | 6            | 31                             |
| Nev.           | 31           | 84           | 1             | 2            | —                         | —            | 14                                   | 25           | 15                             |
| PACIFIC        | 2,230        | 2,927        | 64            | 74           | —                         | —            | 279                                  | 289          | 494                            |
| Wash.          | 222          | 203          | 5             | 6            | N                         | N            | —                                    | —            | —                              |
| Oreg.          | 54           | 92           | 3             | 1            | —                         | —            | 1                                    | —            | 6                              |
| Calif.         | 1,812        | 2,498        | 44            | 61           | —                         | —            | 278                                  | 289          | 488                            |
| Alaska         | 38           | 33           | —             | —            | —                         | —            | —                                    | —            | —                              |
| Hawaii         | 104          | 101          | 12            | 6            | —                         | —            | —                                    | —            | —                              |
| Guam           | —            | 49           | —             | —            | —                         | 209          | —                                    | —            | —                              |
| P.R.           | —            | 98           | —             | —            | 565                       | 368          | —                                    | —            | —                              |
| V.I.           | —            | —            | —             | —            | —                         | —            | —                                    | —            | —                              |
| Amer. Samoa    | U            | U            | U             | U            | U                         | U            | U                                    | U            | —                              |
| C.N.M.I.       | —            | U            | —             | U            | —                         | U            | —                                    | U            | —                              |

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

\* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

† Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

§ Not previously notifiable.

TABLE III. Deaths in 122 U.S. cities,\* week ending November 26, 2005 (47th Week)

| Reporting Area      | All causes, by age (years) |       |       |       |      |    |            | Reporting Area        | All causes, by age (years) |       |       |       |      |     |            |
|---------------------|----------------------------|-------|-------|-------|------|----|------------|-----------------------|----------------------------|-------|-------|-------|------|-----|------------|
|                     | All Ages                   | ≥65   | 45-64 | 25-44 | 1-24 | <1 | P&I† Total |                       | All Ages                   | ≥65   | 45-64 | 25-44 | 1-24 | <1  | P&I† Total |
| NEW ENGLAND         | 423                        | 286   | 104   | 14    | 9    | 10 | 38         | S. ATLANTIC           | 771                        | 449   | 204   | 77    | 22   | 19  | 35         |
| Boston, Mass.       | 118                        | 79    | 30    | 4     | 2    | 3  | 11         | Atlanta, Ga.          | 135                        | 70    | 37    | 22    | 4    | 2   | 8          |
| Bridgeport, Conn.   | 34                         | 27    | 5     | 1     | —    | 1  | 5          | Baltimore, Md.        | 156                        | 78    | 49    | 21    | 3    | 5   | 10         |
| Cambridge, Mass.    | 12                         | 9     | 2     | —     | 1    | —  | 1          | Charlotte, N.C.       | 63                         | 46    | 13    | 3     | —    | 1   | 2          |
| Fall River, Mass.   | 15                         | 11    | 4     | —     | —    | —  | 1          | Jacksonville, Fla.    | 117                        | 79    | 25    | 8     | 3    | 2   | 6          |
| Hartford, Conn.     | 41                         | 22    | 12    | 4     | 1    | 2  | 3          | Miami, Fla.           | U                          | U     | U     | U     | U    | U   | U          |
| Lowell, Mass.       | 21                         | 15    | 6     | —     | —    | —  | 3          | Norfolk, Va.          | 37                         | 22    | 8     | 2     | 3    | 2   | 2          |
| Lynn, Mass.         | 10                         | 7     | 3     | —     | —    | —  | —          | Richmond, Va.         | 36                         | 18    | 12    | 1     | 3    | 2   | 2          |
| New Bedford, Mass.  | 13                         | 8     | 3     | 2     | —    | —  | 1          | Savannah, Ga.         | 32                         | 19    | 8     | 2     | 2    | 1   | —          |
| New Haven, Conn.    | 18                         | 12    | 4     | —     | 1    | 1  | 2          | St. Petersburg, Fla.  | 22                         | 15    | 6     | 1     | —    | —   | 2          |
| Providence, R.I.    | 58                         | 33    | 19    | 1     | 3    | 2  | 5          | Tampa, Fla.           | 87                         | 55    | 22    | 6     | 2    | 2   | 2          |
| Somerville, Mass.   | 4                          | 3     | 1     | —     | —    | —  | —          | Washington, D.C.      | 76                         | 38    | 23    | 11    | 2    | 2   | 1          |
| Springfield, Mass.  | 32                         | 23    | 8     | —     | 1    | —  | 3          | Wilmington, Del.      | 10                         | 9     | 1     | —     | —    | —   | —          |
| Waterbury, Conn.    | 10                         | 7     | 3     | —     | —    | —  | 1          | E.S. CENTRAL          | 594                        | 386   | 136   | 46    | 13   | 13  | 37         |
| Worcester, Mass.    | 37                         | 30    | 4     | 2     | —    | 1  | 2          | Birmingham, Ala.      | 104                        | 69    | 21    | 8     | 3    | 3   | 8          |
| MID. ATLANTIC       | 1,786                      | 1,244 | 388   | 97    | 30   | 24 | 117        | Chattanooga, Tenn.    | 40                         | 29    | 10    | 1     | —    | —   | 3          |
| Albany, N.Y.        | 42                         | 31    | 8     | 1     | —    | 2  | 3          | Knoxville, Tenn.      | 73                         | 49    | 16    | 5     | 2    | 1   | —          |
| Allentown, Pa.      | 29                         | 22    | 5     | —     | 2    | —  | 3          | Lexington, Ky.        | 35                         | 24    | 7     | 2     | —    | 2   | 3          |
| Buffalo, N.Y.       | 80                         | 50    | 26    | 3     | 1    | —  | 10         | Memphis, Tenn.        | 192                        | 126   | 41    | 13    | 7    | 5   | 13         |
| Camden, N.J.        | 23                         | 14    | 7     | —     | 2    | —  | 4          | Mobile, Ala.          | 27                         | 19    | 5     | 2     | —    | 1   | —          |
| Elizabeth, N.J.     | 14                         | 9     | 2     | 3     | —    | —  | 3          | Montgomery, Ala.      | 29                         | 19    | 6     | 4     | —    | —   | 2          |
| Erie, Pa.           | 32                         | 27    | 4     | 1     | —    | —  | 3          | Nashville, Tenn.      | 94                         | 51    | 30    | 11    | 1    | 1   | 8          |
| Jersey City, N.J.   | 16                         | 11    | 3     | 1     | 1    | —  | —          | W.S. CENTRAL          | 958                        | 589   | 254   | 72    | 19   | 24  | 53         |
| New York City, N.Y. | 916                        | 645   | 190   | 52    | 15   | 11 | 46         | Austin, Tex.          | 67                         | 40    | 19    | 6     | 1    | 1   | 5          |
| Newark, N.J.        | 33                         | 15    | 9     | 4     | —    | 5  | 2          | Baton Rouge, La.      | 30                         | 20    | 8     | 2     | —    | —   | 2          |
| Paterson, N.J.      | 8                          | 5     | 2     | —     | 1    | —  | —          | Corpus Christi, Tex.  | 34                         | 22    | 7     | 4     | 1    | —   | 2          |
| Philadelphia, Pa.   | 261                        | 168   | 70    | 15    | 6    | 2  | 16         | Dallas, Tex.          | 108                        | 61    | 30    | 12    | 1    | 4   | 6          |
| Pittsburgh, Pa.‡    | 14                         | 9     | 3     | 1     | 1    | —  | 2          | El Paso, Tex.         | 69                         | 47    | 13    | 5     | 2    | 2   | 4          |
| Reading, Pa.        | 28                         | 20    | 7     | 1     | —    | —  | 2          | Ft. Worth, Tex.       | 96                         | 57    | 25    | 9     | 3    | 2   | 2          |
| Rochester, N.Y.     | 92                         | 69    | 18    | 3     | —    | 2  | 11         | Houston, Tex.         | 264                        | 149   | 78    | 18    | 6    | 13  | 19         |
| Schenectady, N.Y.   | 19                         | 16    | 3     | —     | —    | —  | 1          | Little Rock, Ark.     | 35                         | 25    | 7     | 3     | —    | —   | 1          |
| Scranton, Pa.       | 32                         | 26    | 4     | 2     | —    | —  | 1          | New Orleans, La.¶     | U                          | U     | U     | U     | U    | U   | U          |
| Syracuse, N.Y.      | 86                         | 62    | 15    | 6     | 1    | 2  | 8          | San Antonio, Tex.     | 160                        | 105   | 41    | 10    | 2    | 2   | 10         |
| Trenton, N.J.       | 19                         | 14    | 4     | 1     | —    | —  | —          | Shreveport, La.       | 24                         | 22    | —     | 2     | —    | —   | 1          |
| Utica, N.Y.         | 20                         | 18    | 2     | —     | —    | —  | 1          | Tulsa, Okla.          | 71                         | 41    | 26    | 1     | 3    | —   | 1          |
| Yonkers, N.Y.       | 22                         | 13    | 6     | 3     | —    | —  | 1          | MOUNTAIN              | 765                        | 487   | 172   | 64    | 26   | 16  | 49         |
| E.N. CENTRAL        | 1,746                      | 1,149 | 396   | 128   | 38   | 35 | 140        | Albuquerque, N.M.     | 106                        | 69    | 24    | 8     | 5    | —   | 9          |
| Akron, Ohio         | 37                         | 26    | 6     | 3     | 2    | —  | 2          | Boise, Idaho          | 24                         | 19    | 3     | 1     | —    | 1   | —          |
| Canton, Ohio        | 35                         | 23    | 9     | 1     | —    | 2  | 6          | Colo. Springs, Colo.  | 55                         | 40    | 9     | 2     | 2    | 2   | 2          |
| Chicago, Ill.       | 378                        | 203   | 105   | 48    | 10   | 12 | 22         | Denver, Colo.         | 80                         | 48    | 19    | 8     | 1    | 4   | 6          |
| Cincinnati, Ohio    | 116                        | 82    | 17    | 5     | 5    | 7  | 16         | Las Vegas, Nev.       | 214                        | 133   | 51    | 22    | 4    | 4   | 18         |
| Cleveland, Ohio     | 233                        | 168   | 44    | 13    | 3    | 5  | 15         | Ogden, Utah           | 17                         | 14    | 1     | 2     | —    | —   | —          |
| Columbus, Ohio      | 150                        | 104   | 29    | 11    | 5    | 1  | 15         | Phoenix, Ariz.        | 131                        | 79    | 34    | 11    | 4    | 3   | 6          |
| Dayton, Ohio        | 88                         | 57    | 22    | 7     | 2    | —  | 9          | Pueblo, Colo.         | 33                         | 22    | 11    | —     | —    | —   | 2          |
| Detroit, Mich.      | 103                        | 52    | 38    | 12    | —    | 1  | 11         | Salt Lake City, Utah  | 105                        | 63    | 20    | 10    | 10   | 2   | 6          |
| Evansville, Ind.    | 42                         | 26    | 8     | 5     | 2    | 1  | 3          | Tucson, Ariz.         | U                          | U     | U     | U     | U    | U   | U          |
| Fort Wayne, Ind.    | 39                         | 30    | 7     | 1     | —    | 1  | 2          | PACIFIC               | 901                        | 613   | 187   | 56    | 23   | 22  | 75         |
| Gary, Ind.          | 10                         | 6     | 3     | 1     | —    | —  | —          | Berkeley, Calif.      | 9                          | 6     | 2     | 1     | —    | —   | —          |
| Grand Rapids, Mich. | 34                         | 25    | 5     | 1     | 2    | 1  | 3          | Fresno, Calif.        | U                          | U     | U     | U     | U    | U   | U          |
| Indianapolis, Ind.  | 155                        | 114   | 29    | 7     | 3    | 2  | 6          | Glendale, Calif.      | 8                          | 7     | 1     | —     | —    | —   | 1          |
| Lansing, Mich.      | 32                         | 22    | 10    | —     | —    | —  | 3          | Honolulu, Hawaii      | 49                         | 31    | 11    | 1     | 2    | 4   | 4          |
| Milwaukee, Wis.     | 62                         | 40    | 16    | 3     | 1    | 2  | 7          | Long Beach, Calif.    | 57                         | 40    | 10    | 5     | 2    | —   | 7          |
| Peoria, Ill.        | 38                         | 25    | 10    | 2     | 1    | —  | 3          | Los Angeles, Calif.   | 101                        | 65    | 28    | 6     | —    | 2   | 5          |
| Rockford, Ill.      | 37                         | 28    | 7     | 2     | —    | —  | 1          | Pasadena, Calif.      | 20                         | 12    | 5     | 1     | —    | 2   | 1          |
| South Bend, Ind.    | 15                         | 10    | 5     | —     | —    | —  | —          | Portland, Oreg.       | 115                        | 76    | 25    | 7     | 1    | 6   | 6          |
| Toledo, Ohio        | 100                        | 73    | 19    | 6     | 2    | —  | 10         | Sacramento, Calif.    | U                          | U     | U     | U     | U    | U   | U          |
| Youngstown, Ohio    | 42                         | 35    | 7     | —     | —    | —  | 6          | San Diego, Calif.     | 96                         | 60    | 22    | 6     | 4    | 4   | 9          |
| W.N. CENTRAL        | 480                        | 320   | 107   | 28    | 12   | 13 | 29         | San Francisco, Calif. | 86                         | 62    | 14    | 6     | 1    | 3   | 14         |
| Des Moines, Iowa    | 98                         | 72    | 16    | 7     | 1    | 2  | 7          | San Jose, Calif.      | 149                        | 106   | 29    | 8     | 6    | —   | 20         |
| Duluth, Minn.       | 15                         | 13    | 1     | 1     | —    | —  | —          | Santa Cruz, Calif.    | 18                         | 11    | 6     | 1     | —    | —   | —          |
| Kansas City, Kans.  | 16                         | 9     | 6     | —     | 1    | —  | 2          | Seattle, Wash.        | 84                         | 58    | 17    | 5     | 3    | 1   | 4          |
| Kansas City, Mo.    | 91                         | 49    | 25    | 10    | 3    | 4  | 1          | Spokane, Wash.        | 41                         | 34    | 4     | 2     | 1    | —   | 1          |
| Lincoln, Nebr.      | 27                         | 20    | 5     | —     | 2    | —  | 2          | Tacoma, Wash.         | 68                         | 45    | 13    | 7     | 3    | —   | 3          |
| Minneapolis, Minn.  | 36                         | 23    | 11    | —     | 2    | —  | 3          | TOTAL                 | 8,424**                    | 5,523 | 1,948 | 582   | 192  | 176 | 573        |
| Omaha, Nebr.        | 59                         | 37    | 14    | 4     | —    | 4  | 6          |                       |                            |       |       |       |      |     |            |
| St. Louis, Mo.      | 51                         | 25    | 18    | 5     | —    | 3  | 3          |                       |                            |       |       |       |      |     |            |
| St. Paul, Minn.     | 34                         | 30    | 4     | —     | —    | —  | 2          |                       |                            |       |       |       |      |     |            |
| Wichita, Kans.      | 53                         | 42    | 7     | 1     | 3    | —  | 3          |                       |                            |       |       |       |      |     |            |

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.

¶ Because of Hurricane Katrina, weekly reporting of deaths has been temporarily disrupted.

\*\* Total includes unknown ages.



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