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## Outbreaks of *Escherichia coli* O157:H7 Associated with Petting Zoos — North Carolina, Florida, and Arizona, 2004 and 2005

During 2004–2005, three outbreaks of *Escherichia coli* O157:H7 infections occurred among agricultural fair, festival, and petting zoo visitors in North Carolina, Florida, and Arizona. One hundred eight cases, including 15 cases of hemolytic uremic syndrome\* (HUS), were reported in the North Carolina outbreak; 63 cases, including seven HUS cases, were reported in the Florida outbreak; and two cases were reported in Arizona. No fatalities occurred. Illnesses primarily affected children who visited petting zoos at these events. This report summarizes findings from these outbreak investigations, which indicated the need for adequate control measures to reduce zoonotic transmission of *E. coli* O157:H7.

#### **North Carolina**

On October 29, 2004, the North Carolina Division of Public Health (NCDPH) received a report of a cluster of three HUS cases among children who visited a petting zoo at the North Carolina State Fair (Figure). Approximately 800,000 visitors attended this fair during October 15–24, 2004. The fair had two petting zoos (petting zoos A and B).

NCDPH notified all local health departments to report cases of diarrheal illnesses. Intensified surveillance identified 108 persons who became ill, with onset after fair attendance and without other known cause. Eighty-two (78%) reported visiting a petting zoo at the state fair. Median age was 5 years (range: 1–61 years); 64 (59%) were female. Illness onsets were consistent with exposure during the fair dates. Fifty-two (48%) persons reported bloody diarrhea, and 48 (44%) reported fever. Forty-one cases were laboratory-confirmed Shiga toxin–producing *E. coli* (STEC) infections, of which 38 yielded *E. coli* O157:H7 isolates indistinguishable by pulsed-field gel

FIGURE. A child stands near goats and goat droppings in a petting zoo at the 2004 North Carolina State Fair



Photo/North Carolina Division of Public Health

electrophoresis (PFGE). Twenty patients (19%) were hospitalized, and 15 (14%) had HUS diagnosed.

Systematic environmental sampling of the fairgrounds identified extensive *E. coli* O157:H7 contamination at one of two

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<sup>\*</sup>An acute condition characterized by microangiopathic hemolytic anemia, renal injury, and low platelet count.

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

Patsy A. Hall Deborah A. Adams Lenee Blanton Felicia J. Connor Rosaline Dhara Pearl C. Sharp petting zoos (petting zoo B). Analysis of isolates from 30 systematically obtained environmental samples revealed a PFGE pattern indistinguishable from the predominant clinical isolate pattern. No other PFGE patterns from isolates at this site were noted after systematic sampling.

NCDPH, in collaboration with CDC, conducted a casecontrol study to identify risk factors for infection. Forty-five case-patients and 188 controls were enrolled; these were frequency-matched to cases in three age groups (0–5 years, 6–17 years, and  $\geq$ 18 years). Confirmed cases in the study were those in persons who 1) had laboratory-confirmed E. coli O157:H7 infection or clinically diagnosed HUS with onset after October 15, 2004, 2) reported fair attendance, and 3) had illnesses that were not acquired from secondary transmission. Probable cases were those in persons who reported bloody diarrhea (three or more loose stools per 24-hour period) beginning after fair attendance without other known cause and were determined not to have acquired infections from secondary transmission. Controls attended the fair and reported no diarrheal illness through November 7, 2004. Potential controls were identified from a randomized list of 23,972 persons who purchased tickets to the fair online, at kiosks, or in malls. The study questionnaire included items about human/animal interactions, food and beverage consumption, and hygiene practices. Adjusted odds ratios (AORs) and 95% confidence intervals (CIs) were computed for various exposure variables.

No specific food, beverage, or recreational water exposure was associated with illness. Thirty-six (80%) of 45 casepatients visited petting zoo B, which was noted to have extensive environmental contamination, compared with 64 (34%) of 187 controls (AOR = 8.2; CI = 3.6–18.9). This petting zoo contained approximately 100 goats and sheep in an area where visitors could have extensive contact with animals and their bedding (Figure). Case-patients reported spending a median of 20 minutes in petting zoo B, compared with 15 minutes for controls (p = 0.04). Visits to petting zoo A were not associated with illness.

Among children aged <6 years who visited petting zoo B, illness was associated with touching or stepping in manure (OR = 6.9; CI = 2.2–21.9). Behaviors such as falling or sitting on the ground (OR = 3.2; CI = 1.1–9.1) and use of a pacifier or "sippy" cup or sucking on one's thumb while in petting zoo B (OR = 11.0; CI = 2.0–55) also were associated with illness. Reported alcohol-based hand sanitizer use was not protective (OR = 1.9; CI = 0.3–10.2). Reported awareness (among adults who accompanied children) of risk for disease from contact with livestock was protective (OR = 0.1; CI = 0.03–0.5).

#### Florida

In March 2005, Florida health officials identified a cluster of 22 *E. coli* O157:H7 infections, including seven HUS cases, related to attendance at Florida Fairs and Festivals during February 10–21, 2005, and March 3–13, 2005. Early patient interviews identified no common food or water exposure but did implicate a common animal exposure (i.e., petting zoo attendance). Three implicated fairs had one common animal vendor, an exhibitor of a farm animal petting zoo. The petting zoo owner was contacted on March 24, and the animals (sheep, goats, and cattle) were placed under voluntary quarantine.

Stool samples from suspected cases were sent to the Florida Department of Health (FDOH) Bureau of Laboratories for culture and PFGE typing of *E. coli* O157:H7 isolates. Stool samples also were collected from 36 animals exhibited at two of three implicated petting zoos. Environmental samples were taken from exhibit grounds of implicated petting zoos from the three fairs. Twenty-four human stool samples, six animal stool samples, and 20 environmental samples yielded *E. coli* O157:H7 isolates with an identical PFGE pattern. The implicated farm animals were put under state quarantine by the Florida Department of Agriculture and Consumer Services on April 8.

FDOH intensified surveillance by requesting rapid reporting of suspected *E. coli* O157:H7 infections and HUS cases. Sixty-three patients were identified who had symptoms of *E. coli* O157:H7 infection within 10 days or HUS within 21 days after visiting the implicated fairs and who had no alternate diagnosis to explain their symptoms; of these, 20 (32%) persons had culture-confirmed *E. coli* O157:H7 infection. Four persons had culture-confirmed infection; however, these cases did not meet the case definition.

Median patient age was 4 years (range: 1–63 years); 35 (56%) patients were female. Clinical features included diarrhea in 63 (100%) patients, vomiting in 28 (44%), abdominal cramps in 27 (43%), and fever in 23 (37%). Seventeen patients (27%) were hospitalized, and seven (11%) had diagnoses of HUS (three of the seven patients with HUS did not have *E. coli* O157:H7-positive stool cultures).

Thirty-four ill persons (54%) were reported to have touched at least one cow, sheep, or goat. Twenty (32%) reportedly fed at least one cow, sheep, or goat. Preliminary analysis of a case-control study that included 34 case-patients and 176 controls (identified from credit card receipts from the fairs and defined as persons who went to the petting zoo and remained well) found a positive association between illness and both direct animal contact (e.g., 71% of case-patients and 47% of controls touched a cow [OR = 4.2; CI = 1.7–10.5]) and

indirect (e.g., 33% of case-patients and 12% of controls touched sawdust or shavings [OR = 3.3; CI = 1.4–7.8]) animal contact.

#### **Arizona**

In July 2005, two children hospitalized with *E. coli* O157:H7 infection were reported to the Arizona Department of Health Services. Isolates from the two children had indistinguishable PFGE patterns. Both children had visited a zoo in Arizona that contained a petting zoo. No common food or beverage was consumed by the two children at the zoo, and the children were not related. One child had direct contact with petting zoo animals; the second child only had possible contact with exterior railings at the petting zoo. Both children had played in an area immediately adjacent to and downhill from the petting zoo facility. Fifteen of 25 (60%) fecal specimens from petting zoo animals yielded *E. coli* O157:H7; 12 isolates had PFGE patterns indistinguishable from the clinical isolates. Upon notification of the results, zoo officials immediately closed the petting zoo and adjacent play area.

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Editorial Note: *E. coli* O157:H7 causes approximately 73,000 illnesses in the United States annually, leading to an estimated 2,168 hospitalizations and 61 deaths (1). HUS is a principal cause of acute renal failure among children in the United States and occurs in 3%–7% of *E. coli* O157:H7 infections (2). Among patients with HUS, approximately 3%–5% die as a result (2). Most cases of diarrhea-associated HUS are caused by STEC, of which *E. coli* O157:H7 has the strongest association with HUS worldwide (3). At least 80% of childhood HUS is attributable to infection with STEC, primarily *E. coli* O157:H7 (4).

The primary animal reservoir for *E. coli* O157:H7 is ruminant livestock, which are asymptomatically colonized. The primary route of transmission for *E. coli* O157:H7 is foodborne; however, among 350 *E. coli* O157:H7 outbreaks reported in the United States during 1982–2002, the transmission route for 11 (3%), accounting for 319 cases, was animal contact (5). The three *E. coli* O157:H7 outbreaks

described in this report, accounting for 173 cases and associated with direct and indirect animal contact at petting zoos, emphasize the need for adequate control measures to reduce zoonotic transmission.

In the North Carolina outbreak, extensive direct animal contact occurred in an area contaminated with manure. In the Florida outbreak, illness was associated with touching and feeding animals and indirect animal contact (e.g., touching sawdust or shavings or visibly soiled clothes or shoes). In the Arizona outbreak, at least one case likely resulted from exposure in the play area adjacent to the petting zoo, where contamination via drainage from the petting zoo was suspected. In certain instances, exposure to *E. coli* O157:H7 might have occurred before petting zoo patrons could practice hand hygiene. Also, exposure from contaminated clothes, shoes, strollers, or other fomites might have occurred before or after hand-hygiene practice.

Experience from these and previous outbreaks (6,7) underscores the necessity of using sensitive laboratory isolation methods, such as those used in these outbreaks, for detecting *E. coli* O157:H7 from livestock feces and agricultural environmental samples. Had direct plating methods used for human stool been the only method used to recover *E. coli* O157:H7 from environmental samples, many positive specimens would have been undetected. Because of the multiple, competing microorganisms in livestock fecal material and soil, selective culture conditions, including selective broth enrichment, immunomagnetic separation, and plating on selective media, should be used (6).

In 2001, CDC issued guidelines to reduce the risk for transmission of enteric pathogens at venues where the public has contact with animals (8). In March 2005, the National Association of State Public Health Veterinarians (NASPHV) published recommendations on hand washing, venue design, animal care and management, and risk communication regarding disease transmission for staff and visitors (9).

Petting zoos are minimally regulated. Guidelines based on the NASPHV compendium were adopted by the North Carolina Department of Agriculture and Consumer Services (NCDACS) after the outbreak. In addition, a law<sup>†</sup> was enacted in North Carolina in July 2005 that requires sanctioned agricultural fairs to obtain a permit from NCDACS for all animal exhibitions open to the public. The Arizona Department of Health Services adapted the NASPHV compendium recommendations into educational packets distributed to petting zoo operators statewide.

These recent petting zoo-associated *E. coli* O157:H7 outbreaks highlight the need to strengthen control measures for such exhibits to reduce disease transmission and prevent

similar outbreaks. To reduce human exposure to manure, revised control measures should be considered, particularly those restricting young children from directly entering open-interaction areas of petting zoos.

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# Mycobacterium tuberculosis Transmission in a Newborn Nursery and Maternity Ward — New York City, 2003

Evaluating young children recently exposed to airborne *Mycobacterium tuberculosis* is a public health priority. If infected, children aged <2 years are at high risk for severe tuberculosis (TB) disease (e.g., TB meningitis) (1). In December 2003, infectious pulmonary TB disease was diagnosed in a foreign-born nurse working in the newborn nursery and maternity ward of a New York City hospital (hospital A); the nurse had declined treatment for latent TB infection

<sup>†</sup> Available at http://www.ncleg.net/sessions/2005/bills/senate/pdf/s268v4.pdf.

(LTBI) after testing positive 11 years earlier. An investigation including medical evaluation of contacts in the nursery and maternity ward was conducted by the Bureau of TB Control (BTBC) at the New York City Department of Health and Mental Hygiene, hospital A, and CDC. This report summarizes the results of that investigation, which determined that approximately 1,500 patients had been exposed to the nurse but the majority could not be located for evaluation. Among those who were tested, four infants had positive tuberculin skin test (TST) results, likely attributable to recent transmission of *M. tuberculosis*. The findings emphasize the difficulty of conducting contact investigations in certain settings and the importance of effective LTBI testing and treatment programs for health-care workers (HCWs) to prevent TB disease and subsequent health-care—associated transmission.

In December 2003, a female nurse (nurse A) working in the newborn nursery and maternity ward at hospital A received a diagnosis of acid-fast bacilli (AFB) sputum smearpositive, noncavitary pulmonary TB disease. Eleven years earlier, nurse A had LTBI diagnosed with a TST result of 15 mm induration during screening for employment at hospital A, after emigrating from the Philippines. She had elected not to take the isoniazid prescribed for treatment. The reason nurse A gave for declining treatment was that most adults from the Philippines, where TB is endemic, have positive TST results and generally do not take treatment for LTBI. She also stated that the positive TST result might have been caused by her bacille Calmette-Guérin (BCG) vaccination for TB disease at birth or potential exposures while she was employed as a nurse in the Philippines. Nurse A had an annual TB symptom screen on eight other occasions and had one other chest radiograph (when she began work in a different area of the hospital) without evidence of TB disease.

Nurse A's symptoms began in September 2003 as a productive cough, wheezing, and shortness of breath. Her initial chest radiograph was interpreted as "normal heart and lungs" by a radiologist at hospital A. She was symptomatically treated for asthma with inhaled beta-agonists, inhaled steroids, oral steroids, antihistamines, and a cough suppressant. After her symptoms persisted for approximately 8 weeks, she underwent a chest computed tomography scan (CT) and, approximately 1 week later, bronchoscopy. The CT revealed bilateral upperlobe disease with volume loss and calcified mediastinal lymph nodes. The leading diagnosis at the time was hypersensitivity pneumonitis. Specimens from a transbronchial biopsy, routinely sent for microscopic examination, revealed rare AFB; culture of bronchial alveolar lavage subsequently yielded M. tuberculosis that was susceptible to the four first-line anti-TB drugs. Genotyping of the M. tuberculosis isolate did not match any pattern in the New York City or national databases. Nurse A subsequently was screened for human immunodeficiency virus (HIV) and had a negative HIV test result.

On the basis of nurse A's AFB smear status at start of treatment, her infectious period was defined as September 1-November 29, 2003. Work schedules and hospital records for all coworkers and patients in the newborn nursery and maternity ward who were contacts of nurse A during this period were reviewed to identify and prioritize contacts and to assess risk factors for transmission. During her infectious period, nurse A worked 60 night shifts at hospital A and potentially exposed 32 coworkers, 613 infants in the newborn nursery, and 900 patients in the maternity ward. During a 7-month period, hospital A and BTBC took the following measures to notify contacts: 1) mailing certified letters, making telephone calls, and attempting home visits to hospital patients and to mothers and guardians of all infants; 2) faxing notifications to all pediatric providers in the area; and 3) crossmatching the list of exposed infants with names in the city's immunization registry. All contacts were offered a free medical evaluation, including a TST; if indicated, contacts also were offered chest radiography and sputum specimen collection to exclude a diagnosis of TB disease. Results were reviewed to estimate the extent of transmission.

Of the 32 potentially exposed coworkers, 25 (78%) had a previously documented positive TST baseline result, and none had taken treatment for LTBI. On screening, none of these 25 persons had symptoms for TB; they were offered LTBI treatment, but all 25 declined. TSTs were administered to the remaining seven coworkers, all with negative results.

The majority of patients in the maternity ward had received TSTs and HIV screening during the prenatal period. Extensive outreach by the hospital and city health department workers resulted in medical evaluation of 227 (37%) of the 613 infant contacts and 216 (24%) of the 900 female contacts. None of these contacts were determined to have TB disease. TST results were positive (≥5 mm) for five (2%) of 227 infants, including one who had received BCG vaccination during a family trip to the Dominican Republic. A positive TST result among infants was determined to be associated with cesarean delivery (relative risk [RR] = 11.8, 95% confidence interval [CI] = 1.3–103.1). TST results of 19 (9%) of 216 women with a prior negative test changed to positive (≥5 mm). Change in TST result was associated with foreign birth among women (RR = 5.9, CI = 1.4-24.5). No association was evident between a positive TST result or change in TST result and duration of contact (e.g., estimated time in the hospital while nurse A was working) or type of contact (e.g., receiving direct care) with nurse A.

Of the 900 patients admitted to the maternity ward during nurse A's infectious period, 807 were admitted for postpartum care and 93 for gynecologic indications or complications during pregnancy. Documentation of HIV test results were available for 806 of the 807 postpartum patients; 16 (2%) tested positive for HIV infection. Of these HIV-infected females, 13 delivered infants admitted to the newborn nursery (12 single infants and one twin birth). These 16 women and 14 infants were assigned the highest priority for follow-up testing. Three of the women and seven of the infants were located and tested for TB; none had evidence of LTBI or TB disease.

BTBC recommended LTBI treatment with isoniazid daily for 9 months for all contacts with a positive TST result, after TB disease was excluded. BTBC also recommended LTBI treatment for all HIV-infected persons exposed to nurse A and infants whose mothers had known HIV infection, regardless of their TST results, after TB disease was excluded (2).

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Editorial Note: The findings in this report underscore the difficulty and substantial resources required to conduct contact investigations and provide appropriate follow-up for patients exposed to *M. tuberculosis* in health-care settings. Despite extensive outreach efforts, approximately 70% of nurse A's patient contacts could not be traced. Hospital A was located in an economically depressed community. Hospital records of telephone numbers and addresses for many of the patients were incorrect. Nonetheless, evidence indicated that limited transmission of *M. tuberculosis* had occurred in hospital A. The strongest evidence of transmission was that four infants had positive TST results (a fifth infant tested positive but had recently received BCG vaccination), which in children is a sentinel indicator for recent transmission of *M. tuberculosis*.

In this investigation, the only risk factor significantly associated with *M. tuberculosis* transmission to the infants was cesarean delivery. Post-cesarean infants might have required more nursing care, thus resulting in more exposure. A major limitation of this investigation was the incomplete follow-up of all exposed patients. In addition, the extent of *M. tuberculosis* transmission to the most heavily exposed group, nurse A's coworkers, was difficult to ascertain because 78% had positive TST baseline results.

Nurse A underwent bronchoscopy before TB disease was clinically suspected. Because bronchoscopy is a cough-inducing procedure that can result in increased transmission

of *M. tuberculosis*, diagnosis of TB disease and microscopic examination of sputum for AFB should be considered before bronchoscopy (3). CDC recommends avoiding bronchoscopy if possible for patients with suspected or confirmed TB disease or postponing the procedure until the patient is determined to be noninfectious by confirmation of three negative AFB sputum smear results. If the patient cannot produce sputum, CDC recommends considering sputum induction before bronchoscopy (3).

Eleven years after her LTBI was detected, nurse A had infectious pulmonary TB disease diagnosed. An opportunity to prevent TB disease was missed when she did not complete treatment for LTBI. In light of the investigation described in this report, hospital A began exploring ways to promote LTBI treatment for employees with positive TST results during annual screenings for TB. Although the nurse did not have HIV infection, it is the greatest risk factor for progression from LTBI to TB disease (2). Therefore, voluntary HIV counseling, testing, and referral should be routinely offered to all persons at risk for LTBI. Health-care settings should be particularly aware of the need to prevent transmission of *M. tuberculosis* in settings where persons infected with HIV might be encountered or might work.

In 2002, the incidence of TB disease among foreign-born HCWs in the state of New York was 17.5 per 100,000, compared with 2.0 among U.S.-born HCWs (4). During 1998–2002, among 297 HCWs (employed in hospitals, home health care, nursing homes, and ambulatory care facilities) who were reported to have TB disease, 221 (74%) had had LTBI diagnosed previously. Of these, 111 (50%) had met criteria for treatment for LTBI, but only 26 (23%) of these received treatment (4). Those data and the circumstances described in this report support the need for effective LTBI testing and treatment programs among HCWs, particularly those born outside the United States.

Studies have demonstrated poor adherence to LTBI treatment among HCWs (5). HCWs might attribute a positive TST result to BCG vaccination (6). Compared with U.S.-born physicians, foreign-born physicians in one U.S. medical residency program were less likely to recommend LTBI treatment for themselves, their family members, or recent immigrants if they had received BCG vaccination (7). However, in the absence of M. tuberculosis infection, tuberculin reactivity caused by BCG vaccination wanes over time and is unlikely to persist >10 years after vaccination (8). Current guidelines recommend considering treatment for HCWs who have a TST result of  $\geq 10$  mm, especially if they emigrated from a country with high TB prevalence during the preceding 5 years (3). A history of vaccination with BCG should not influence the decision to treat LTBI.

The proportion of HCWs in the United States who were born outside the country is growing (9,10). Approximately 25% of all U.S. practicing physicians graduated from medical schools outside of the United States (9). Moreover, the shortage of registered nurses in the United States is anticipated to increase from 6% in 2000 to 29% by 2020, and foreign-born nurses likely will increasingly be sought to fill this gap (10). All HCWs in the United States, particularly those foreignborn or foreign-trained, should be encouraged to follow U.S. guidelines for LTBI treatment. Guidelines for preventing transmission of *M. tuberculosis* in health-care settings, including baseline and periodic TB screening and effective LTBI treatment programs for HCWs in high-risk settings, should be followed (3). In addition, infection-control programs in healthcare settings should implement interventions to increase adherence to treatment for infected HCWs working in highrisk settings. On-site, directly observed preventive therapy is one such option.

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#### Pertussis — United States, 2001–2003

Pertussis is a highly contagious, vaccine-preventable bacterial illness characterized by paroxysmal cough, posttussive vomiting, and inspiratory whoop. Pertussis also can occur as a mild or moderate cough illness in persons who are partially immune (1). In the United States, most hospitalizations and nearly all deaths from pertussis are reported in infants aged <6 months, but substantial morbidity does occur in other age groups. Infant/childhood vaccination has contributed to a reduction of more than 90% in pertussis-related morbidity and mortality since the early 1940s in the United States (1). Estimates of childhood vaccination coverage with >3 doses of pertussis-containing vaccine have exceeded 90% since 1994; however, reported pertussis cases increased from a historic low of 1,010 in 1976 to 11,647 cases in 2003 (2). A substantial increase in reported cases has occurred among adolescents, who become susceptible to pertussis approximately 6–10 years after childhood vaccination (3,4). Recently, booster vaccines for adolescents and adults combining pertussis antigens with tetanus and diphtheria toxoids (Tdap) were approved by the Food and Drug Administration (FDA).\* On June 30, 2005, the Advisory Committee on Immunization Practices (ACIP) recommended Tdap for all persons aged 11-18 years. This report summarizes national surveillance data on pertussis reported to CDC during 2001-2003 and focuses on pertussis reported among persons aged 10–19 years before implementation of national recommendations for adolescent pertussis vaccination.

Pertussis cases are reported weekly by state health departments to CDC through the National Notifiable Diseases Surveillance System (NNDSS); more detailed information about cases is provided through the linked Supplementary Pertussis Surveillance System (SPSS). Probable and confirmed cases are reported; however, six states do not report probable cases. A clinical case is defined as an acute cough illness lasting ≥14 days in a person with at least one symptom characteristic of pertussis (i.e., paroxysmal cough, posttussive vomiting, or inspiratory whoop) or ≥14 days of cough in an outbreak setting. A confirmed case is defined as 1) a cough illness of any duration with isolation by culture of *Bordetella pertussis* or 2) a case that is consistent with the clinical case definition and is confirmed by polymerase chain reaction (PCR) testing or epidemiologic linkage to a laboratory-confirmed case. In addition, Massachusetts uses an in-state, standardized serologic assay for persons aged ≥11 years as a confirmatory test. A probable

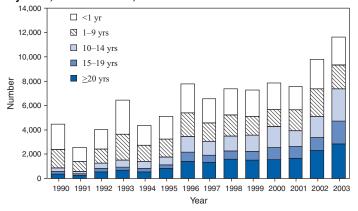
<sup>\*</sup>BOOSTRIX<sup>®</sup> (GlaxoSmithKline Biologicals, Rixensart, Belgium) was licensed May 3, 2005, for use in persons aged 10–18 years, and ADACEL<sup>TM</sup> (Sanofi Pasteur, Toronto, Canada) was licensed June 10, 2005, for use in persons aged 11–64 years.

case is defined as a case that is consistent with the clinical case definition but does not have laboratory confirmation or an epidemiologic link. Direct fluorescent antibody (DFA) assays are no longer recommended for pertussis testing; however, cases continue to be reported as confirmed by DFA. For this report, age-specific and race-specific incidence rates were calculated using U.S. Census Bureau population estimates for 2001–2003.

During 2001–2003, a total of 28,998 cases of pertussis were reported to NNDSS from the 50 states and the District of Columbia (7,580 in 2001; 9,771 in 2002; and 11,647 in 2003); 69% of these cases were reported as confirmed. Among all pertussis cases, 15,620 (54%) were in females. Overall in the United States, the average annual incidence was 3.3 cases per 100,000 population (2.7 in 2001, 3.4 in 2002, and 4.0 in 2003). Among 28,923 (99.7%) persons with pertussis for whom age was reported, 6,608 (23%) were aged <1 year (including 5,872 aged <6 months), 3,353 (12%) were aged 1-4 years, 2,553 (9%) were aged 5-9 years, 9,609 (33%) were aged 10-19 years, and 6,800 (23%) were aged ≥20 years (Figure 1). By age group, average annual incidence was highest (55.2 per 100,000 population) among infants aged <1 year; within that group, incidence was 98.2 for infants aged <6 months and 12.3 for infants aged 6–11 months. Incidence was lower for older groups: 7.2 per 100,000 population for children aged 1-4 years, 4.3 for children aged 5-9 years, 7.7 for persons aged 10–19 years, and 1.1 for adults aged ≥20 years. During 2001-2003, the annual incidence of pertussis among persons aged 10-19 years increased from 5.5 per 100,000 in 2001, to 6.7 in 2002, and 10.9 in 2003.

Race and Hispanic ethnicity were considered independently. Data on race were available for 24,024 (83%) persons with pertussis. Of these, 21,597 (90%) were white, 1,621 (7%) were black, 288 (1%) were American Indian/Alaska Native,

FIGURE 1. Number of reported pertussis cases,\* by year and age group — National Notifiable Diseases Surveillance System, United States, 1990–2003



<sup>\*</sup> Confirmed and probable.

337 (1%) were Asian/Pacific Islander, and 181 (1%) were identified as "other race." Among the 7,991 (83%) persons aged 10–19 years whose race was reported, 7,549 (95%) were white and 265 (3%) were black. Among all age groups, the incidence of reported cases was twice as high among whites as among blacks (3.0 versus 1.4 cases per 100,000 population). After stratifying by state, the white-to-black incidence rate ratio was 1.6. Data on Hispanic ethnicity were available for 23,669 (82%) persons with pertussis. Of these, 3,871 (16%) were Hispanic. Among infants aged <6 months, 1,701 (29%) of 5,872 with pertussis were Hispanic; by comparison, an estimated 18% of infants born each year in the United States are Hispanic.

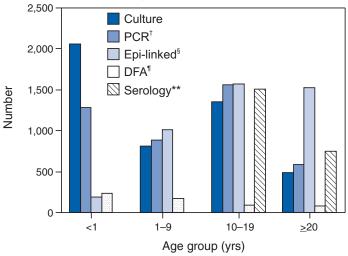
Of 9,609 persons aged 10–19 years with reported pertussis, 116 (1%) of 8,286 for whom information was provided were hospitalized, 148 (2%) of 7,560 had radiographically confirmed pneumonia, and 20 (0.2%) of 8,543 reported seizures as a complication of pertussis. Hospitalization and complications of pertussis were most common among infants aged <6 months. Of the total 5,872 infants aged <6 months, 3,255 (69%) of 4,748 for whom information was provided were hospitalized, 532 (13%) of 4,096 had radiographically confirmed pneumonia, and 79 (2%) of 4,802 had seizures. Among persons of all ages with pertussis, 33 cases of encephalopathy and 56 pertussis-related deaths were reported during 2001–2003. Fifty-one (91%) of the deaths were among infants aged <6 months, and 42 (75%) of the deaths were among infants aged <2 months.

Compared with other age groups, the greatest number of reported cases was among persons aged 10–19 years. Among the 6,090 (63%) of 9,609 persons in this age group reported as having confirmed pertussis, 1,570 cases (26%) were confirmed by an epidemiologic link to a confirmed case, 1,356 (22%) by culture, 1,562 (26%) by PCR, and 1,511 (25%) by the Massachusetts serologic test (Figure 2). Massachusetts alone reported 1,812 cases, accounting for 19% of the total U.S. cases in persons aged 10–19 years; by comparison, Massachusetts has 2% of the U.S. population aged 10–19 years. Massachusetts had the highest state average annual incidence in this age group (78.8 per 100,000 population); the median state average annual incidence for this age group was 3.7 per 100,000 population (range: 0–78.8) (Figure 3).

**Reported by:** K Brown, MM Cortese, MD, K Iqbal, MPH, JS Moran, MD, TV Murphy, MD, VP Sneller, PhD, P Srivastava, MPH, Epidemiology and Surveillance Div, National Immunization Program; AC Cohn, MD, EIS Officer, CDC.

**Editorial Note:** Reported cases of pertussis in the United States have increased since 1976, with a substantial increase among persons aged 10–19 years (5). Compared with the increase observed in reported cases among adolescents, the increases

FIGURE 2. Number of pertussis cases reported as confirmed, by diagnostic method\* and age group — National Notifiable Diseases Surveillance System, United States, 2001–2003

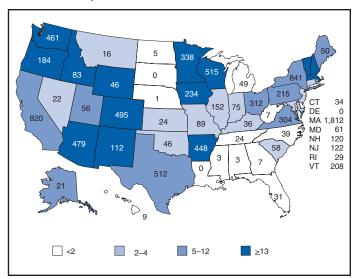


- \* Data from the Supplementary Pertussis Surveillance System.
- † Polymerase chain reaction.
- § Epidemiologically linked to a confirmed case.
- Direct fluorescent antibody assay.
- \*\* Massachusetts serologic test.

in cases reported in age groups that contain recently vaccinated children have been small (5,6). Compared with older age groups, infants aged <6 months continued to have the highest reported incidence of pertussis, and Hispanic infants were overrepresented in this group, as also demonstrated in a previous study (7). Among all age groups, the reported pertussis incidence in whites was higher than the incidence in blacks. However, passive surveillance probably does not equally reflect the relative burden of pertussis in all racial and ethnic groups; even among reported cases, race and ethnicity data were complete in only 74% of cases.

How much the increase in reported cases of pertussis in adolescents reflects a true change in the burden of disease remains unclear. Better recognition, diagnosis, and reporting of pertussis in persons aged 10-19 years likely has contributed to the greater number of cases reported. Although the Council of State and Territorial Epidemiologists has made no changes to the case definition for pertussis since 1996 (when PCR was added as a confirmatory test for cases that also are consistent with the clinical case definition), an increasing number of states now use PCR for confirmatory testing. In addition, heightened recognition of pertussis transmitted in schools and other settings likely adds to the number of cases detected and reported among persons aged 10-19 years. Wide variability was observed in incidence of cases reported by individual states. Massachusetts, for example, has long reported higher incidence in adolescents compared with other states, and Massachusetts data are believed to more closely reflect

FIGURE 3. Average annual incidence\* of reported pertussis cases and total number of reported cases in persons aged 10–19 years,† by state — National Notifiable Diseases Surveillance System, United States, 2001–2003§



- \*Per 100,000 state population for this age group, by quartile. Indicated by shading.
- Confirmed and probable.
- Overall U.S. incidence rates were 5.5, 6.7, and 10.9 per 100,000 U.S. population for this age group during 2001, 2002, and 2003, respectively.

the pertussis burden in U.S. adolescents (8). These results from Massachusetts have been obtained, in part, through the state's enhanced pertussis surveillance among students in middle and high school and through development and availability of a serologic test for pertussis in persons aged ≥11 years. Awareness of pertussis in adolescents, however, is still low in many places, as suggested in part by eight states reporting an average annual incidence of <1 case per 100,000 persons aged 10–19 years during the 3-year period. A population-based, active surveillance study during 1995–1996 estimated pertussis incidence at 507 per 100,000 population aged 10–49 years, demonstrating that passive pertussis surveillance is capturing only a fraction of cases among older persons (9).

Diagnostic testing for pertussis remains inadequate for surveillance and clinical management. Culture is specific but not sensitive. PCR is likely more sensitive, but no FDA-licensed test kit is available and no nationally accepted standardized protocol for test performance exists. Most laboratory validation studies have not sufficiently established the predictive value of a positive PCR test in cases of pertussis; the rate of false-positive tests varies from laboratory to laboratory (10). PCR-confirmed cases contribute a substantial proportion of the total reported cases among persons aged 10–19 years. Moreover, many cases confirmed by epidemiologic linkage to laboratory-confirmed cases are linked to PCR-confirmed cases, potentially multiplying the contribution of PCR testing to the overall number of cases reported. Cases that are PCR

positive should be reported only if they also meet the clinical case definition criteria. DFA is neither specific nor sensitive and is no longer recommended for pertussis testing; nonetheless, 2% of cases were reported as DFA-confirmed.

Implementing the ACIP recommendation to vaccinate persons aged 11–18 years with Tdap should substantially reduce morbidity associated with pertussis among adolescents. In addition, the cost of case investigations and outbreak-control measures by local and state health departments likely will be reduced by an effective vaccination program targeting persons aged 11–18 years. Ensuring high coverage with Tdap in adolescents is an important step to better control pertussis in the United States.

#### **Acknowledgment**

The findings in this report are based, in part, on data contributed by state and local health departments.

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## Update: Public Health Notification Regarding Ralstonia Associated with Vapotherm® Respiratory Gas Administration Devices — United States, 2005

On December 20, this report was posted as an MMWR Early Release on the MMWR website (http://www.cdc.gov/mmwr).

This report updates information previously published regarding contamination of Vapotherm<sup>®</sup> respiratory gas administration devices (Vapotherm, Inc., Stevensville, Maryland) with *Ralstonia* spp. (1,2). The Food and Drug Administration (FDA) has issued an updated Preliminary Public Health Notification, advising health-care providers to use alternative devices until the source of the contamination has been identified.\*

CDC continues to receive information regarding Ralstonia spp. associated with Vapotherm use. Twenty-nine institutions in 16 states have reported recovery of Ralstonia spp. from Vapotherm devices and from approximately 40 pediatric patients. The majority of these cases appear to represent colonization, although one infection has been reported to CDC and other cases remain under investigation. In addition, the recommended disinfecting protocol has reportedly failed to eradicate Ralstonia spp. in three separate tests. Based on pulsed field gel electrophoresis analysis, isolates from facilities in six states were determined closely related genetically, a finding that suggests intrinsic contamination of some part of the device. Cultures of unused Vapotherm cartridges performed by two hospitals have yielded Ralstonia spp. However, cultures of other unused cartridges from some of the same lots did not grow organisms in testing performed by CDC and the cartridge manufacturer.

The source of contamination and the extent to which biofilm growth might be a contributing factor remain unknown. Although the majority of organisms found in Vapotherm devices by CDC and reporting institutions have been *Ralstonia* spp., other bacteria (e.g., *Burkholderia cepacia, Alcaligenes xylosoxidans, Klebsiella pneumoniae, Proteus mirabilis, and Sphingomonas paucimobilis*) have been recovered from used cartridges or machines. CDC continues to work with the manufacturer and FDA to determine the source of contamination of Vapotherm devices.

Ralstonia spp. are gram-negative bacteria found in the environment, primarily in water, soil, and on plants; occasionally Ralstonia spp. are isolated from clinical samples (e.g., respiratory secretions of cystic fibrosis patients). These organisms formerly were included in the genus Pseudomonas or Burkholderia; however, DNA characterization has revealed Ralstonia to be a distinct genus. The organism grows readily on media routinely used by clinical microbiology laboratories (i.e., trypticase soy agar with 5% sheep blood or MacConkey agar) (3). When both biochemical tests and automated identification systems are used, Ralstonia spp. can be misidentified as Burkholderia spp. or, less often, as non-aeruginosa Pseudomo-

<sup>\*</sup> Available at http://www.fda.gov/cdrh/safety/122005-vapotherm.html.

*nas* spp. Signs and symptoms of an infection with *Ralstonia* are similar to those observed in other bacterial infections. Infections caused by *Ralstonia* spp. should be treated on the basis of results of susceptibility testing of the patient's isolate.

The current labeling for the Vapotherm device was cleared for marketing on August 18, 2004, with the indication, "to add moisture to and to warm breathing gases for administration to patients." Other devices are marketed for this general indication. FDA and CDC currently recommend use of alternative devices until the source of contamination can be identified. A list of humidifiers can be found in the FDA 510(k) database, by entering "BTT" in the "Product Code" field. Several heated humidifiers on the list have specifications similar to the Vapotherm device. Humidifiers will require a gas source, connectors, and a patient interface (mask or nasal cannula) to make a complete system for administration of breathing gas.

Clinicians who elect to use Vapotherm are encouraged to weigh the risk of potential bacterial contamination of the device against the benefits Vapotherm might provide patients who require humidified oxygen therapy. Patients who have been exposed to Vapotherm should be monitored for signs and symptoms of infection, and clinicians should consider *Ralstonia* spp. infection in the differential diagnosis of exposed, symptomatic patients.

Hospitals should report cases of colonization or infection with *Ralstonia* or related bacteria (gram-negative rods) in patients exposed to Vapotherm directly to the device manufacturer and local or state public health departments and CDC by telephone 800-893-0485. Adverse events associated with medical devices should be reported to MedWatch, FDA's voluntary reporting program at http://www.fda.gov/Medwatch/report.htm; by telephone, 800-FDA-1088; by fax, 800-FDA-0178; or by mail, MedWatch, Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20852-9787.

#### **References**

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## Supplemental Testing for Confirmation of Reactive Oral Fluid Rapid HIV Antibody Tests

On December 16, this report was posted as an MMWR Dispatch on the MMWR website (http://www.cdc.gov/mmwr). In March 2004, the Food and Drug Administration (FDA) approved the OraQuick<sup>®</sup> Rapid HIV-1 Antibody Test (OraSure Technologies, Bethlehem, Pennsylvania) for use with oral fluid by trained personnel as a point-of-care test to aid in the diagnosis of infection with human immunodeficiency virus (HIV). In June 2004, FDA approved an added claim for detection of HIV-2 antibodies in oral fluid and a change in the name of the device to OraQuick<sup>®</sup> Advance Rapid HIV-1/2 Antibody Test.

A reactive rapid HIV test result is considered preliminary and must be confirmed by supplemental testing (1). Some false positive rapid test results (i.e., reactive rapid test results followed by negative supplemental test results) are to be expected within the range of specificity for the device. However, in late 2005, HIV testing programs in multiple U.S. cities experienced apparent clusters of false-positive rapid HIV test results using oral fluid (but not whole blood) specimens. Counselors at these programs have expressed concern regarding the specificity and positive predictive value of the oral fluid rapid HIV test. The published sensitivity and specificity for the test using oral fluid are 99.3% (95% confidence interval [CI] = 98.4%—99.7%) and 99.8% (CI = 99.6%—99.9%), respectively. CDC has received multiple inquiries concerning whether its guidelines for confirmatory testing for reactive rapid HIV tests on oral fluid specimens have been modified.

CDC is actively working with FDA, state and local health officials, and the product manufacturer to investigate these reports, assess the test's current performance, and consider whether changes in testing protocols should be recommended or any other actions taken. In the meantime, current protocols for confirmation of reactive rapid HIV test results should continue to be followed (2). These protocols ensure that clients with reactive rapid test results receive accurate HIV test results after confirmation. HIV counselors returning reactive (preliminary positive) results from HIV rapid tests to clients should provide the same counseling message that is currently recommended (3), regardless of whether the reactive test result was obtained using oral fluid or whole blood. HIV testing program directors who have noted any problems or who have concerns over the performance of the OraQuick Advance Rapid HIV-1/2 Antibody Test in their particular settings should report these concerns to OraSure Technologies at telephone 800-672-7873.

#### References

CDC. Quality assurance guidelines for testing using the OraQuick<sup>®</sup>
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<sup>&</sup>lt;sup>†</sup> Food and Drug Administration. 510(k) database. Rockville, MD: Food and Drug Administration. Available at http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm.

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#### Notice to Readers

#### Publication of Health, United States, 2005

CDC's National Center for Health Statistics has published *Health, United States, 2005*, the 29th edition of the annual report on the nation's health. The report includes 156 detailed trend tables organized around four broad subject areas: health status and determinants, health-care use, health-care resources, and health-care expenditures. Many of the trend tables provide information on racial, ethnic, and socioeconomic disparities in health.

The report also includes the 2005 Chartbook on Trends in the Health of Americans, which assesses the current state of the nation's health and how it is changing over time, both positively and negatively, by presenting trends and information

on selected determinants and measures of health status. The *Chartbook* includes a special focus on persons aged 55–64 years, a growing segment of the adult population.

Health, United States, 2005 is available online at http://www.cdc.gov/nchs/hus.htm. Information about the report is available from the National Center for Health Statistics Data Dissemination Branch by telephone, 1-866-441-NCHS, or e-mail, nchsquery@cdc.gov.

#### Erratum: Vol. 54, No. RR-15

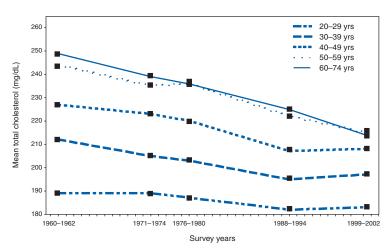
In the MMWR Recommendations and Reports, "Guidelines for Using the QuantiFERON®-TB Gold Test for Detecting Mycobacterium tuberculosis Infection, United States," reference number 18 on page 55 should read:

CDC. Guidelines for the investigation of contacts of persons with infectious tuberculosis: recommendations from the National Tuberculosis Controllers Association and CDC. MMWR 2005;54(No. **RR-15**):1–47.

## **QuickStats**

#### FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Trends in Mean Total Cholesterol Among Adults Aged 20–74 Years, by Age Group — United States, 1960–1962 to 1999–2002\*

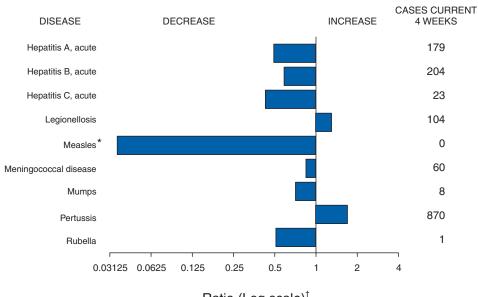


\* Graph points represent serum total cholesterol levels at the midpoint of the survey years for the National Examination Survey conducted during 1960–1962 and the National Health and Nutrition Examination Surveys conducted during 1971–1974, 1976–1980, 1988–1994, and 1999–2002.

From 1960–1962 to 1988–1994, mean total cholesterol declined for all age groups. From 1988–1994 to 1999–2002, total cholesterol levels continued to decline for adults aged ≥50 years. For adults aged 20–49 years, total cholesterol levels changed minimally after 1988–1994.

**SOURCE:** Carroll MD, Lacher DA, Sorlie PD, et al. Trends in serum lipids and lipoproteins of adults, 1960–2002. JAMA 2005;294:1773–81.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals December 17, 2005, with historical data



Ratio (Log scale)

Beyond historical limits

No measles cases were reported for the current 4-week period yielding a ratio for week 50 of zero (0).

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending December 17, 2005 (50th Week)\*

Disease	Cum. 2005	Cum. 2004	Disease	Cum. 2005	Cum. 2004
Anthrax			Hemolytic uremic syndrome, postdiarrheal†	167	168
Botulism:			HIV infection, pediatric <sup>†¶</sup>	255	351
foodborne	13	16	Influenza-associated pediatric mortality†**	48	l –
infant	78	84	Measles	62 <sup>††</sup>	28§
other (wound & unspecified)	27	21	Mumps	255	234
Brucellosis	101	101	Plague	3	3
Chancroid	25	30	Poliomyelitis, paralytic	1	_
Cholera	6	4	Psittacosis <sup>†</sup>	21	11
Cyclosporiasis†	726	205	Q fever <sup>†</sup>	137	63
Diphtheria	-	–	Rabies, human	2	7
Domestic arboviral diseases			Rubella	16	9
(neuroinvasive & non-neuroinvasive):	-	–	Rubella, congenital syndrome	1	_
California serogroup†§	65	116	SARS† **	_	_
eastern equine†§	21	6	Smallpox <sup>†</sup>	_	_
Powassan <sup>†§</sup>	-	1	Staphylococcus aureus:		
St. Louis†§	9	13	Vancomycin-intermediate (VISA)†	1	_
western equine <sup>† §</sup>	-	–	Vancomycin-resistant (VRSA)†	_	1
Ehrlichiosis:	l –	–	Streptococcal toxic-shock syndrome <sup>†</sup>	101	125
human granulocytic (HGE)†	649	438	Tetanus	19	27
human monocytic (HME)†	456	300	Toxic-shock syndrome	92	89
human, other and unspecified †	85	66	Trichinellosis®	17	3
Hansen disease <sup>†</sup>	80	100	Tularemia <sup>†</sup>	131	116
Hantavirus pulmonary syndrome†	22	22	Yellow fever	_	_

No reported cases.

<sup>†</sup> 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.

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

Not notifiable in all states.

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

Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention. Last update September 25, 2005.

<sup>\*\*</sup> Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases. Of the 48 cases reported, four were reported since October 2, 2005 (40th Week). Of these four, only two occurrred during the current 2005-2006 season.

Of 62 cases reported, 51 were indigenous and 11 were imported from another country.

<sup>§§</sup> Of 28 cases reported, 10 were indigenous and 18 were imported from another country.

Formerly Trichinosis.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending December 17, 2005, and December 18, 2004 (50th Week)\*

(50th Week)*		AIDS Chlamydia <sup>†</sup> Coccidioidomycosis Cryptosporidiosis									
		1		T		<del>,                                    </del>		r			
Reporting area	Cum. 2005§	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004			
UNITED STATES	30,568	40,144	877,240	887,380	4,809	5,769	7,212	3,473			
NEW ENGLAND	1,141	1,257	30,129	28,992	<del>_</del>	<del>_</del>	328	164			
Maine N.H.	19 26	48 42	2,165 1,752	2,028 1,677	N	<u>N</u>	26 34	20 30			
Vt. <sup>1</sup>	7	15	916	1,098	_	_	39	24			
Mass.	561	451	13,692	12,871	_	_	138	59			
R.I. Conn.	105 423	131 570	3,050 8,554	3,305 8,013	N	N	13 78	4 27			
MID. ATLANTIC	6,597	10,042	111,606	109,144	_	_	3,313	564			
Upstate N.Y.	891	1,985	22,581	22,290	N	N	2,855	178			
N.Y. City N.J.	3,522 956	4,875 1,766	35,873 17,273	33,159 16,980	N	N	130 64	135 44			
Pa.	1,228	1,416	35,879	36,715	N	N	264	207			
E.N. CENTRAL	2,929	3,174	148,390	156,972	11	14	1,459	1,017			
Ohio	518	585	39,420	38,479	N	N	766	218			
Ind. III.	348 1,504	348 1,474	18,976 44,632	17,922 45,898	<u>N</u>	<u>N</u>	83 145	74 153			
Mich.	439	612	27,637	36,069	11	14	107	155			
Wis.	120	155	17,725	18,604	N	N	358	417			
W.N. CENTRAL	690 176	800	53,722	54,966	5	6 N	576	409			
Minn. Iowa	176 72	215 63	9,986 6,913	11,285 6,741	3 N	N N	148 107	132 88			
Mo.	299	323	21,406	20,500	1	3	244	76			
N. Dak.	9 13	17	1,140	1,700	N	N	1	12			
S. Dak. Nebr. <sup>1</sup>	27	11 58	2,618 4,817	2,442 5,022	1	 3	30 9	42 28			
Kans.	94	113	6,842	7,276	N	N	37	31			
S. ATLANTIC	9,183	12,113	163,715	166,280	2		711	511			
Del. Md.	134 1,370	157 1,363	3,257 17,632	2,863 18,987	N 2	N 	6 40	 24			
D.C.	474	988	3,660	3,402	_	_	16	15			
Va. <sup>1</sup>	441	613	18,916	20,991	<del>_</del>	<del>_</del>	62	58			
W. Va. N.C.	51 636	83 1,063	2,580 29,254	2,689 28,473	N N	N N	17 91	6 76			
S.C. <sup>1</sup>	413	745	19,310	18,046	<u></u>	<u></u>	18	23			
Ga. Fla.	1,701 3,963	1,507 5,594	28,184 40,922	30,130 40,699	 N	N	122 339	173 136			
E.S. CENTRAL	1,546	1,816	65,688	59,007	14	5	209	146			
Ky.	198	217	7,999	6,241	N	N	144	44			
Tenn. <sup>1</sup>	675	739	22,837	21,723	N	N	40	48			
Ala. <sup>¶</sup> Miss.	385 288	433 427	15,520 19,332	12,931 18,112			21 4	24 30			
W.S. CENTRAL	3,543	4,528	99,172	106,256	1	3	182	135			
Ark.	173	184	8,275	7,676	_	1	6	16			
La. Okla.	650 229	849 195	14,534 9,981	21,098 10,032	1 N	2 N	81 43	7 22			
Tex. <sup>¶</sup>	2,491	3,300	66,382	67,450	N	N	52	90			
MOUNTAIN	1,172	1,328	50,376	54,925	3,339	3,603	134	169			
Mont. Idaho <sup>¶</sup>	15 15	5 17	2,089 2,253	2,414 2,714	N N	N N	23 15	34 28			
Wyo.	3	16	1,133	1,050	3	2	3	4			
Colo.	260	294	12,535	13,813	N	N	49	59			
N. Mex. Ariz.	115 473	173 501	5,502 16,993	8,705 16,138	14 3,281	22 3,495	11 10	19 17			
Utah	55	64	4,204	3,661	9	25	14	6			
Nev. <sup>1</sup>	236	258	5,667	6,430	32	59	9	2			
PACIFIC Wash.	3,767 352	5,086 367	154,442 17,804	150,838	1,451	2,138 N	300 48	358 42			
Oreg. <sup>¶</sup>	352 193	277	8,549	16,917 8,270	N —		48 67	31			
Calif.	3,105	4,271	119,243	116,759	1,451	2,138	181	283			
Alaska Hawaii	25 92	48 123	3,714 5,132	3,730 5,162	_	_	3 1				
Guam	2	1		803	_	_	_	_			
P.R.	814	636	3,539	3,441	N	N	N	N			
V.I. Amer. Samoa	10 U	19 U	196 U	333 U	U		U	U			
C.N.M.I.	2	Ü		Ü		Ü		Ü			

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 September 25, 2005.

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending December 17, 2005, and December 18, 2004 (50th Week)\*

(50th Week)*		Escher	ichia coli, Ente	rohemorrhagio	(EHEC)					
				n positive,	Shiga toxi	n positive,				
		7:H7	<del></del>	non-O157	not sero	grouped	Giardi	$\overline{}$		orrhea
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004
UNITED STATES	2,368	2,452	347	293	315	240	17,256	19,029	304,393	314,995
NEW ENGLAND	159	165	56	43	25	16	1,585	1,697	5,452	6,581
Maine	15	15	12	1	_	_	195	147	137	210
N.H. Vt.	12 15	23 13	2 5	5 —	_	_	53 181	45 166	171 58	127 84
Mass.	63	72	12	13	25	16	680	764	2,445	2,974
R.I. Conn.	7 47	13 29	 25	1 23	_	_	107 369	120 455	423 2,218	800 2,386
MID. ATLANTIC	298	289	42	64	35	38	3,231	3,894	32,270	35,120
Upstate N.Y.	135	121	22	43	13	20	1,172	1,351	6,721	7,106
N.Y. City N.J.	15 50	35 59	 5	<u> </u>	 12	<u> </u>	829 399	1,051 491	9,681 5,248	10,631 6,541
Pa.	98	74	15	15	10	12	831	1,001	10,620	10,842
E.N. CENTRAL Ohio	463 146	464 95	34 10	47 9	20 12	32 18	2,716 782	3,196 775	60,840 18,681	66,747 20,066
Ind.	71	52	<del>-</del>	_	_	<del>-</del>	N	N N	7,635	6,655
III.	47	107	1	7	1	8	608	789	18,185	20,055
Mich. Wis.	78 121	84 126	2 21	11 20	6 1	<u>6</u>	736 590	708 924	11,235 5,104	15,071 4,900
W.N. CENTRAL	407	476	36	40	67	23	2,147	2,091	17,386	16,859
Minn. Iowa	131 95	107 119	21 —	15 —	39	5 —	975 265	797 288	2,860 1,524	2,833 1,204
Mo.	75	97	9	<u> </u>	13	7	496	546	9,085	8,865
N. Dak.	7	14	_	_	1	7	17	23	92	105
S. Dak. Nebr.	26 30	33 63	3 3	2 4	4	_	113 85	74 149	340 1,083	291 1,085
Kans.	43	43	_	_	10	4	196	214	2,402	2,476
S. ATLANTIC	199	176	87	35	116	103	2,460	2,893	72,467	75,587
Del. Md.	7 32	3 23	N 32	N 6	N 11	N 4	54 191	46 147	855 6,735	865 7,909
D.C.	1	1	_	_	_	_	53	70	2,109	2,502
Va. W. Va.	46 3	37 3	33 1	18	20 1	_	524 48	515 48	7,109 708	8,238 873
N.C.	_	_	_	_	64	92	N	N	14,065	15,033
S.C. Ga.	7 30	13 23	1 17	7	1	_	96 561	120 877	8,646 13,194	9,016 13,471
Fla.	73	73	3	4	19	7	933	1,070	19,046	17,680
E.S. CENTRAL	130	117	10	5	33	15	407	410	26,499	25,743
Ky. Tenn.	47 47	30 41	7 2	1 2	22 11	9 6	N 208	N 226	2,832 8,469	2,698 8,209
Ala.	29	31	_	_	<u></u>	_	199	184	8,711	7,922
Miss.	7	15	1	2	_	_	_	_	6,487	6,914
W.S. CENTRAL Ark.	52 10	88 18	14	3	9	13	301 81	325 122	40,381 4,351	41,905 4,064
La.	4	4	11	1	3	3	55	54	8,176	10,119
Okla. Tex.	24 14	21 45	2 1		2 4	4 6	165 N	149 N	4,010 23,844	4,292 23,430
MOUNTAIN	226	242	58	54	10	_	1,444	1,497	10,887	11,880
Mont.	16	16	_	_	_	_	77	81	126	81
Idaho Wyo.	29 8	57 9	13 2	16 7	7	_	151 28	201 25	95 82	100 58
Colo.	66	51	3	1	1	_	516	504	2,810	2,953
N. Mex. Ariz.	13 46	10 26	10 N	9 N	 N	N	84 149	72 167	1,065 3,815	1,264 3,896
Utah	38	46	28	20	_	<u></u>	390	321	682	562
Nev.	10	27	2	1	2	_	49	126	2,212	2,966
PACIFIC Wash.	434 115	435 142	10	2	_	_	2,965 352	3,026 386	38,211 3,591	34,573 2,667
Oreg.	151	68	10	2	_	_	378	429	1,508	1,258
Calif. Alaska	143 12	213 2	_	_	_	_	2,075 99	2,035 98	31,626 514	28,946 539
Hawaii	13	10	_	_	_	_	61	98 78	972	1,163
Guam	N	N	_	_	_	_	_	5	_	125
P.R. V.I.	2	4	_	_	_	_	186	279	332 45	253 87
Amer. Samoa	U	U	U	_ U	U	U	U	U	45 U	87 U
Amer. Samoa	U	U	0	Ŭ	0	U	O	0	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 December 17, 2005, and December 18, 2004 (50th Week)\*

(50th Week)*	-							
				Haemophilus infl	<i>uenzae</i> , invasiv	re		
	All a	ges		-	Age <	5 years		
	All sero	otypes	Sero	type b	Non-se	erotype b	Unknown	serotype
B	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting area UNITED STATES	<b>2005</b> 1,955	2004 1,910	<b>2005</b>	<b>2004</b>	<b>2005</b> 107	<b>2004</b>	<b>2005</b> 183	<b>2004</b> 164
NEW ENGLAND	149	177	_	1	10	10	5	2
Maine	7	13		_	_	_	1	_
N.H. Vt.	8 9	19 8	_	_	_	2	2	1 1
Mass.	72	79	_	1	3	4	1	<u>.</u>
R.I. Conn.	7 46	6 52	_	_	2 5	1 3	<u> </u>	_
MID. ATLANTIC	409	401	_	2	1	5	41	37
Upstate N.Y.	120	125	_	2	_	5	8	5
N.Y. City N.J.	71 84	84 78	_	_	_	_	12 11	16 3
Pa.	134	114	_	_	1	_	10	13
E.N. CENTRAL Ohio	286 106	365 101	1	2 1	6	8 2	19 9	48 16
Ind.	66	54	_		6	4	_	1
III. Mich.	66 22	129 22	_ 1	<del>_</del> 1	_		7 2	21 4
Wis.	26	59			=	_	1	6
W.N. CENTRAL	106	105	_	2	3	4	10	11
Minn. Iowa	43 1	45 1	_	1 1	3	4	2	<u>1</u>
Mo.	34	41		<u>.</u>	_	_	6	7
N. Dak. S. Dak.	4	4	_	_	_	_	1	_
Nebr.	10	6	_	_	_	_	1	2
Kans.	14	8	_	_	_	_	_	1
S. ATLANTIC Del.	471 —	422 —	<u>1</u>	<u>1</u>	33	27 —	30	27 —
Md.	70	67	_	_	5	7	_	<del>_</del>
D.C. Va.	— 45	3 43	_	_	_	_		1 5
W. Va.	27	17 58	_ 1	_	6	4	1	<del>_</del> 1
N.C. S.C.	74 32	13		1	<u>8</u>	<u>6</u> —	3	1
Ga. Fla.	94 129	113 108	_	_	— 14	 10	16 8	18 1
E.S. CENTRAL	104	80	_	1	1	2	19	12
Ky.	8	13	_		i	2	2	1
Tenn. Ala.	78 18	51 14	_	<del>_</del> 1	_	_	13 4	9 2
Miss.	<del>-</del>	2		<u>.</u>	_	_	_	_
W.S. CENTRAL	101	80	1	1	8	9	8	1
Ark. La.	5 32	2 17	<u> </u>	_	1 2	1	8	<u> </u>
Okla.	60	60	_	_	5	8	_	_
Tex.	4	1	_	1	_	_	_	_
MOUNTAIN Mont.	206	180	1	<u>4</u>	15 —	28 —	35 —	19 —
Idaho	5	5	_	_	_	_	_	2
Wyo. Colo.	6 41	1 44	_	_	<u>_</u>	<u>1</u>	1 9	<u> </u>
N. Mex.	23 98	38 61	1	1	4	8	2	5 6
Ariz. Utah	19	18	_		7 1	13 3	12 8	2 3
Nev.	14	13	_	1	2	3	3	1
PACIFIC Wash.	123 4	100 1	1	_	30	21 —	16 3	7 1
Oreg.	29	45	_	_	_	_	5	3
Calif. Alaska	54 26	39 6	1	_	30	21 —	2 6	1 1
Hawaii	10	9	_	_	_	_	_	1
Guam	_	_	_	_	_	_	<del>_</del>	_
P.R. V.I.	3	2	_	_	_	_	1	2
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 December 17, 2005, and December 18, 2004

	Hepatitis (viral, acute), by type												
		A		В		С							
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004							
JNITED STATES	3,895	5,640	5,318	6,037	664	793							
IEW ENGLAND	498	989	277	371	19	18							
Maine (	4	13	12	7	_	_							
.H.	76 6	25 8	26	34		_							
′t. ⁄lass.	348	850	5 203	6 212	15 1	8 8							
R.I.	15	23	3	6	_	<del></del>							
Conn.	49	70	28	106	3	2							
IID. ATLANTIC	670	788	1,047	743	102	141							
lpstate N.Y. I.Y. City	103 284	110 340	94 121	80 159	20	13							
l. T. Oily l.J.	187	183	620	207	_	_							
a.	96	155	212	297	82	128							
.N. CENTRAL	353	508	522	531	135	117							
Ohio	50	49	130	114	9	6							
nd. I.	54 91	57 144	56 128	43 87	24 —	10 18							
ı. 1ich.	123	144 142	174	87 247	102	83							
Vis.	35	116	34	40	—	_							
V.N. CENTRAL	118	155	253	313	16	22							
/linn.	34	32	29	47	7	18							
owa Mo	20	49	26 142	15 195	<del>-</del> 7	_							
Ло. I. Dak.	39 —	34 1	143	185 4	1	<u>3</u>							
S. Dak.	1	4	4	i	<u>.</u>	_							
lebr.	8	13	21	44	1	1							
lans.	16	22	30	17	_	_							
S. ATLANTIC	680	979	1,300	1,821	137	203							
0el. 1d.	5 74	6 102	46 153	51 155	7 22	47 14							
).C.	4	7	11	19	_	4							
<b>′</b> a.	79	122	128	269	13	13							
V. Va. I.C.	6 84	5 100	40 162	40 182	21 21	23 11							
S.C.	39	42	130	140	3	15							
àa.	107	315	150	463	8	17							
la.	282	280	480	502	42	59							
S. CENTRAL	228	152	335	481	77	92							
ίy. ēnn.	24 147	30 95	61 131	73 231	11 17	24 33							
la.	36	9	85	76	14	5							
liss.	21	18	58	101	35	30							
V.S. CENTRAL	248	646	534	666	90	108							
ırk.	18	60	49	113	1	3							
a. Okla.	64 5	49 20	68 42	67 69	16 7	3 3							
ex.	161	517	375	417	66	99							
MOUNTAIN	365	420	546	488	45	46							
1ont.	10	8	3	1	1	2							
daho	22	20	14	11	1	1							
Vyo. Colo.	<del></del> 47	5 52	2 56	9 57	1 24	2 16							
I. Mex.	24	23	12	18	_	Ü							
riz.	231	260	387	271	_	5							
Itah Iev.	21 10	35 17	44 28	49 72	9 9	5 15							
ACIFIC	735	1,003	504	623	43	46							
Vash.	735 49	1,003	504 64	52	43 U	46 U							
Oreg.	42	66	98	110	17	15							
Calif.	616	846	330	439	25	29							
laska Iawaii	4 24	4 27	7 5	11 11	_ 1								
Guam				12									
luam !R.	— 58	1 46	— 41	12 77	_	9							
<u>'.l.</u>	_	_	_	_	_	_							
Amer. Samoa	U	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 December 17, 2005, and December 18, 2004 (50th Week)\*

(50th Week)*	Legionellosis Listeriosis Lyme disease Malaria									
				1		1 1		1		
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004		
UNITED STATES	1,952	1,967	769	710	20,444	18,063	1,201	1,347		
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	125 6 8 11 46 19 35	94 1 11 6 43 18	55 3 8 2 16 6 20	52 8 4 2 18 2 18	2,806 223 211 49 1,185 32 1,106	3,222 29 206 50 1,522 238 1,177	67 4 5 3 33 2 20	87 7 5 4 49 7 15		
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	708 213 96 107 292	544 115 71 92 266	195 61 37 35 62	168 48 25 36 59	12,785 3,896 — 3,542 5,347	10,935 3,983 352 2,661 3,939	324 51 167 72 34	366 51 202 68 45		
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	361 190 27 15 111 18	474 218 46 50 136 24	83 35 6 2 29 11	117 40 18 24 26 9	1,426 60 34 — 60 1,272	1,320 48 29 87 26 1,130	99 28 5 33 21 12	121 29 16 41 21 14		
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	95 27 6 34 2 21 3	65 7 8 32 2 5 5 6	41 15 8 5 4 — 5 4	22 5 3 8 2 1 3	940 829 85 19 — 2 2	733 646 49 26 — 1 8 3	44 11 8 17 — 3 5	65 24 4 20 3 1 4		
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga.	392 16 107 12 44 21 36 14 30 112	398 13 79 12 52 10 39 16 43	168 N 19 — 15 5 34 13 26 56	122 N 18 5 18 5 26 11 15	2,210 612 1,174 8 235 17 44 20 6	1,633 335 880 14 172 30 119 26 12 45	301 3 100 11 30 3 38 10 41 65	333 6 76 13 51 2 21 11 63 90		
E.S. CENTRAL Ky. Tenn. Ala. Miss.	80 30 34 13 3	101 40 44 13 4	29 5 12 8 4	25 4 14 5 2	36 5 29 2	48 15 26 7 —	28 9 13 6	32 4 11 12 5		
W.S. CENTRAL Ark. La. Okla. Tex.	25 4 1 7 13	139 1 9 11 118	35 2 12 5 16	42 3 3 2 34	60 5 7 — 48	69 8 2 — 59	80 6 3 10 61	125 8 6 7 104		
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	86 6 3 4 22 2 25 16 8	80 3 9 7 20 4 11 22 4	16 — — 7 4 — 3 2	27 1 1  13 2  2 8	21 2 3 3 1 8 2 2	19 6 4 — 1 6 1 1	53 — 2 24 2 14 9 2	53 1 1 1 18 5 13 8		
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	80 — N 76 1 3	72 12 N 59 1	147 10 11 125 —	135 11 7 112 — 5	160 9 19 129 3 N	84 12 26 44 2 N	205 16 12 155 5 17	165 19 18 122 2 4		
Guam P.R.	_	_	_	_	N	N		_		
V.I. Amer. Samoa C.N.M.I.	U	U U	U	U U		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 December 17, 2005, and December 18, 2004 (50th Week)\*

Maine    2   12	(50th Week)*					Meningoco	ccal disease					
Reporting area   Cum		All sero	ogroupe			Serog	roup B	Other se	rogroup	Serogroup unknown		
UNITED STATES	Poporting area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	
NEW ENGLAND  9 73 16 32 8 17 2 1 4 43 23  N.H.  12 7 7 1 2 7  N.H.  12 7 7 1 2 7  N.H.  13 7 2 1 2 7  N.H.  12 7 7 1 2 7  R.I.  14 2 1 1 1 3 1 1 - 1 18  R.I.  2 1 1 1 3 1 1 - 1 18  R.I.  3 2 39 2 39 5 5 21 4 4 7 1 1 1 5			•			•	•					
Maine 2 112 — 6 — 2 — — 2 — — 2 4 NH. 15 7 2 — — 6 — 2 — — — 2 4 NH. 15 7 3 2 — — — 2 — — — 12 7 Mass. 32 39 5 21 4 7 7 11 — 22 11 Mass. 32 39 5 21 4 7 7 11 — 22 11 Mass. 32 39 5 21 1 4 7 7 11 — 22 11 Mass. 32 39 5 21 1 3 1 — — — — — — — — — — — — — — — —	NEW ENGLAND											
VL 5 3 3 2	Maine					_		_				
Mass. 32 39 5 21 4 7 7 1 — 22 11 PIL. 4 1 2 0 1 1 1 5 — 1 — 1 PIL. 4 1 2 0 1 1 1 5 — 1 — 2 1 — 1 PIL. 4 1 2 0 1 1 1 5 — 1 — 2 1 — 1 PIL. 4 1 2 0 1 1 1 5 — 1 — 2 1	N.H. Vt.											
Month   Martin   Ma	Mass.	32	39	5			7			22		
Upstate NY.  39	R.I. Conn.										_	
N.Y.CIGN N.J. N.J. N.J. N.J. N.J. N.J. N.J. N.	MID. ATLANTIC	145	159	19	29	7	13	1	_	118	117	
N.J.   34   35   -	Upstate N.Y.											
EN CENTRAL  120 131 20 131 20 23 9 18 3 3 88 67 Onlio 43 66 4 6 2 5 5 - 2 37 7 37 - 8 9 111 15 1 8 9 111 15 1 1 8 9 111 15 1 1	N. Y. City N.J.											
Onio	Pa.	49	55			1		1	_	42	39	
Ind.	E.N. CENTRAL											
III.	Ind.											
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Fla. 77 103 — — — — — — — — — 77 103  E.S. CENTRAL 53 68 7 6 7 6 — 1 39 55  Ky. 16 111 1 2 2 2 3 3 — — 13 6  Tenn. 24 23 5 — 4 3 — — 15 20  Ala. 6 17 1 4 1 — — 1 4 12  Miss. 7 17 — — — — — — — — 1 4 4 12  Miss. 7 17 — — — — — — — — — 7 7 17  W.S. CENTRAL 91 72 37 21 25 18 4 6 6 25 27  Ark. 15 16 8 4 5 4 — — 2 2 8  La. 28 32 14 8 7 13 — 2 7 9  Colla. 13 10 5 5 5 2 — 4 4 4 2 2 1  Tex. 35 14 10 4 11 1 1 — — 14 9  MOUNTAIN 84 63 23 18 5 3 2 5 5 4 4 9  MONTAIN 84 63 23 18 5 5 3 2 5 5 4 37  Mont. — 3 — 1 — — — — — — — — — — — 2  Idaho 6 7 1 1 — — — — — — — — — — — — 2  Idaho 6 7 1 1 — — — — — — — — — — — — 4  Colo. 17 15 — — — — — — — — — — — — — 4  Colo. 17 15 — — — — — — — — — — — — 3 3  Ulah 11 6 5 3 3 2 — 1 1 3 25 3 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 3 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 25 5 3  Ulah 11 6 5 5 3 2 — 1 1 3 3 25 3  Ulah 11 6 5 5 3 2 — 1 1 1 1 1 1 1  PACIFIC 231 288 16 15 34 14 2 2 1 1 179 258  Wash. 46 29 7 12 200 14 — 1 1 19 2  Corg. 28 54 7 — 13 — — — — — — — — — — — — — — 5 4  Alaska 5 4 — — — — — — — — — — — — — — — 5 4  Alaska 5 4 — — — — — — — — — — — — — — — — — 5 4  Alaska 5 4 — — — — — — — — — — — — — — — — — —												
Ky.         16         11         1         2         2         3         —         —         13         6           Ala.         6         17         1         4         1         —         —         15         20           Ala.         6         17         1         4         1         —         —         —         15         20           MISS.         7         17         —         —         —         —         —         14         12           MISS.         7         17         —         —         —         —         —         15         14         12           MISS.         15         16         8         4         5         4         —         —         2         2         7           Ark.         15         16         8         4         5         4         —         —         2         2         7         9           Okla.         13         10         5         5         2         —         4         4         2         1         —         —         —         2         7         9           Okla.	Fla.											
Tenn. 24 23 5 — 4 3 — — 15 20 Ala. 6 17 1 4 1 — — — 1 4 12 Miss. 7 17 — — — — — — — — 7 17 W.S. CENTRAL Miss. 7 17 — — — — — — — — — 7 17 W.S. CENTRAL Miss. 7 17 — — — — — — — — — 1 4 12 Ark. 15 16 8 4 5 4 — — — 2 8 Ark. 15 16 8 4 5 4 — — — 2 7 9 Okla. 13 10 5 5 5 2 — 4 4 4 2 1 Tex. 35 14 10 4 11 1 — — 14 9  MOUNTAIN	E.S. CENTRAL											
Ala.  Ala.  Ala.  Ala.  Ala.  Biss.  Ala.												
W.S. CENTRAL  91 72 37 21 25 18 4 6 25 27  Ark. 15 16 8 4 5 4 — — 2 8  La. 28 32 14 8 7 13 — 2 7 9  Okla. 13 10 5 5 5 2 — 4 4 4 2 1  Tex. 35 14 10 4 11 1 — — 14 9  MOUNTAIN  MOUNTAIN  84 63 23 18 5 3 2 5 54 37  Mont. — 3 — 1 — — — — — — — — — — — — — — — —	Ala.	6	17		4		_	_	1	4	12	
Ark.     15     16     8     4     5     4     —     —     2     8       La.     28     32     14     8     7     13     —     2     7     9       Okla.     13     10     5     5     2     —     4     4     2     1       Tex.     35     14     10     4     11     1     —     —     14     9       MOUNTAIN     84     63     23     18     5     3     2     5     54     37       Mont.     —     3     —     1     —     —     —     —     —     —       Idaho     6     7     1     — </td <td></td>												
La. 28 32 14 8 7 13 — 2 7 9 Okla. 13 10 5 5 5 2 — 4 4 2 1 Tex. 35 14 10 4 11 1 — — 14 9  MOUNTAIN 84 63 23 18 5 3 2 5 54 37 Mont. — 3 — 1 — — — — 5 7 Wyo. — 4 — — — — — — 5 7 Wyo. — 4 — — — — — — — — 17 15 Colo. 17 15 — — — — — — 1 3 2 4 Ariz. 39 12 11 6 2 — 1 1 3 25 3 Utah 11 6 5 3 2 2 — 1 3 3 2  Nev. 8 7 6 3 1 2 — 1 1 1 1  PACIFIC 231 288 16 15 34 14 2 1 179 258 Wash. 46 29 7 12 20 14 — 1 19 2 Oreg. 28 54 7 — 13 — — — 8 54 Calif. 140 192 — — — — — — — 140 192 Alaska 5 4 — — — — — — — — 140 192 Alaska 5 4 — — — — — — — — 6 17 Amer. Samoa 1 1 1 — — — — — — — — — — — 6 17 V.I. — — — — — — — — — — — — — 6 17 V.I. — — — — — — — — — — — — — — — — — 1												
Tex.         35         14         10         4         11         1         —         —         14         9           MOUNTAIN         84         63         23         18         5         3         2         5         54         37           Mont.         —         3         —         1         — </td <td>La.</td> <td>28</td> <td>32</td> <td>14</td> <td>8</td> <td>7</td> <td></td> <td>_</td> <td>2</td> <td>7</td> <td>9</td>	La.	28	32	14	8	7		_	2	7	9	
MOUNTAIN         84         63         23         18         5         3         2         5         54         37           Mont.         —         3         —         1         —												
Mont.         —         3         —         1         —         —         —         —         —         2           Idaho         6         7         1         —								2				
Wyo.         —         4         —         —         —         —         —         —         4           Colo.         17         15         —         —         —         —         —         —         17         15           N. Mex.         3         9         —         5         —         1         —         —         11         3         2           Ariz.         39         12         11         6         2         —         1         1         3         25         3           Utah         11         6         5         3         2         —         1         —         3         3           Nev.         8         7         6         3         1         2         —         1         1         1         1           PACIFIC         231         288         16         15         34         14         2         1         179         258           Wash.         46         29         7         12         20         14         —         1         199         2           Calif.         140         192         —         —	Mont.	_	3	_	1	_	_	_	_	_	2	
Colo.         17         15         —         —         —         —         —         —         —         17         15           N. Mex.         3         9         —         5         —         1         —         1         3         2           Ariz.         39         12         11         6         2         —         1         3         25         3           Utah         11         6         5         3         2         —         1         —         3         3           Nev.         8         7         6         3         1         2         —         1         1         1         1           PACIFIC         231         288         16         15         34         14         2         1         179         258           Wash.         46         29         7         12         20         14         —         1         19         2           Oreg.         28         54         7         —         13         —         —         —         8         54           Calif.         140         192         —         —				1		_	_	_	_			
Ariz.     39     12     11     6     2     —     1     3     25     3       Utah     11     6     5     3     2     —     1     —     3     3       Nev.     8     7     6     3     1     2     —     1     1     1     1       PACIFIC     231     288     16     15     34     14     2     1     179     258       Wash.     46     29     7     12     20     14     —     1     19     2       Oreg.     28     54     7     —     13     —     —     —     8     54       Calif.     140     192     —     —     —     —     —     —     140     192       Alaska     5     4     —     —     —     —     —     —     —     140     192       Alawaii     12     9     2     3     1     —     2     —     7     6       Guam     —     1     —     —     —     —     —     —     —     —     1       P.R.     6     17     —     —     —     —	Colo.	17	15	_	_			_		17	15	
Utah         11         6         5         3         2         —         1         —         3         3           Nev.         8         7         6         3         1         2         —         1         —         3         3           PACIFIC         231         288         16         15         34         14         2         1         179         258           Wash.         46         29         7         12         20         14         —         1         19         2           Oreg.         28         54         7         —         13         —         —         —         8         54           Calif.         140         192         —         —         —         —         —         —         —         140         192           Alaska         5         4         —         —         —         —         —         —         —         5         4           Hawaii         12         9         2         3         1         —         2         —         —         —         —         —         —         —         — <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td></th<>											2	
PACIFIC         231         288         16         15         34         14         2         1         179         258           Wash.         46         29         7         12         20         14         —         1         19         2           Oreg.         28         54         7         —         13         —         —         —         8         54           Calif.         140         192         —         —         —         —         —         140         192           Alaska         5         4         —         —         —         —         —         —         140         192           Hawaii         12         9         2         3         1         —         2         —         7         6           Guam         —         1         —         —         —         —         —         —         —         —         —         1         1           P.R.         6         17         —         —         —         —         —         —         —         —         —         —         —         —         —         —	Utah	11	6	5	3	2	_		_	3	3	
Wash.     46     29     7     12     20     14     —     1     19     2       Oreg.     28     54     7     —     13     —     —     —     8     54       Calif.     140     192     —     —     —     —     —     140     192       Alaska     5     4     —     —     —     —     —     5     4       Hawaii     12     9     2     3     1     —     2     —     7     6       Guam     —     1     —     —     —     —     —     —     —     1       P.R.     6     17     —     1     1     —												
Oreg.     28     54     7     —     13     —     —     —     8     54       Calif.     140     192     —     —     —     —     —     140     192       Alaska     5     4     —     —     —     —     —     5     4       Hawaii     12     9     2     3     1     —     2     —     7     6       Guam     —     1     —     —     —     —     —     —     —     1       P.R.     6     17     —     —     —     —     —     6     17       V.I.     —     —     —     —     —     —     —     —     —       Amer. Samoa     1     1     —     —     —     —     —     —     —     1     1			288 29		15 12	34 20					258 2	
Alaska     5     4     —     —     —     —     —     5     4       Hawaii     12     9     2     3     1     —     2     —     7     6       Guam     —     1     —     —     —     —     —     —     —     —     1       P.R.     6     17     —     —     —     —     —     6     17       V.I.     —     —     —     —     —     —     —     —     —       Amer. Samoa     1     1     —     —     —     —     —     —     1     1	Oreg.	28	54	7	_	13		_	_	8	54	
Hawaii     12     9     2     3     1     —     2     —     7     6       Guam     —     1     —     —     —     —     —     —     1       P.R.     6     17     —     —     —     —     —     6     17       V.I.     —     —     —     —     —     —     —     —     —     —       Amer. Samoa     1     1     —     —     —     —     —     —     1     1							_				192 4	
P.R.     6     17     —     —     —     —     —     6     17       V.I.     —     —     —     —     —     —     —     —     —     —       Amer. Samoa     1     1     —     —     —     —     —     —     1     1     1	Hawaii						_			7		
V.I. — — — — — — — — — — — — — — — — — —	Guam			_	_	_	_	_	_			
Amer. Samoa 1 1 1 1	P.R. V.I.			_	_	_	_	_	_		1/ —	
	Amer. Samoa C.N.M.I.	<u>1</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 December 17, 2005, and December 18, 2004 (50th Week)\*

·	Pert	ussis	Rabies,	animal		lountain d fever	Salmoi	nellosis	Shigellosis		
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	
UNITED STATES	19,980	21,805	5,205	6,190	1,742	1,520	40,327	40,263	13,195	13,327	
NEW ENGLAND Maine N.H. Vt. Mass.	1,226 33 90 82 943	2,047 64 96 146 1,638	674 56 13 55 325	699 65 31 36 303	3 N 1 —	22 N — 1 15	2,038 151 161 94 1,088	2,014 106 139 60 1,138	292 9 13 17 184	289 12 9 4 176	
R.I. Conn.	34 44	40 63	23 202	45 219	i —	3	87 457	135 436	14 55	20 68	
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	1,291 542 85 213 451	2,783 1,868 192 214 509	949 542 27 N 380	942 520 13 N 409	104 5 8 33 58	77 1 23 14 39	4,820 1,235 1,156 838 1,591	5,454 1,204 1,233 1,024 1,993	1,177 273 386 286 232	1,132 395 400 234 103	
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	3,405 1,128 327 631 290 1,029	8,113 634 276 1,486 291 5,426	200 70 12 50 39 29	187 76 10 51 41 9	36 23 3 1 7 2	34 10 6 14 2 2	5,073 1,307 581 1,502 883 800	4,950 1,179 487 1,573 821 890	976 141 173 298 222 142	1,214 167 210 396 230 211	
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	3,438 1,086 800 557 139 161 177 518	2,722 466 530 522 738 167 85 214	417 68 108 78 25 64 — 74	604 89 100 59 63 94 100	155 2 7 132 — 5 4 5	132 4 2 105 — 4 17	2,409 560 409 778 39 143 121 359	2,354 608 419 599 41 136 169 382	1,583 92 97 971 4 70 82 267	438 65 62 178 3 13 37 80	
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	1,306 15 181 8 335 45 127 353 42 200	861 10 147 11 233 30 96 178 27	1,591 — 320 — 504 68 450 5 243 1	2,134 9 320 — 460 67 572 167 334 205	918 4 92 2 104 8 560 62 67 19	796 6 73 — 37 5 514 63 78 20	12,330 115 794 54 1,078 181 1,670 1,289 1,878 5,271	10,948 111 798 63 1,120 228 1,631 996 1,909 4,092	2,339 11 105 15 124 1 195 98 610 1,180	2,824 11 147 41 158 10 372 520 643 922	
E.S. CENTRAL Ky. Tenn. Ala. Miss.	466 136 196 83 51	303 81 159 46 17	138 17 46 73 2	150 23 51 65 11	271 3 198 66 4	200 2 116 54 28	2,854 468 744 738 904	2,655 344 689 736 886	1,140 308 510 222 100	924 74 491 305 54	
W.S. CENTRAL Ark. La. Okla. Tex.	1,841 287 37 — 1,517	977 81 22 38 836	827 33 — 73 721	1,060 51 4 110 895	207 130 5 52 20	232 147 5 71 9	3,376 711 794 390 1,481	4,211 554 964 390 2,303	2,531 61 129 614 1,727	3,741 77 306 498 2,860	
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	3,930 567 231 48 1,348 153 945 606 32	1,911 70 53 35 1,093 154 242 219 45	235 15 12 17 16 10 137 15	216 26 8 6 47 5 113 8 3	39 1 3 2 5 3 21 4	23 3 4 5 4 2 4 1	2,259 142 147 81 578 223 682 320 86	2,279 183 149 53 528 277 679 229 181	931 5 17 5 165 127 538 46 28	822 4 17 6 155 136 395 46 63	
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	3,077 812 574 1,415 123 153	2,088 720 579 747 14 28	174 U 7 166 1	198 U 6 181 11	9 -2 7 	4 - 2 2 -	5,168 508 376 3,944 57 283	5,398 541 406 4,022 64 365	2,226 134 123 1,929 7 33	1,943 106 85 1,699 6 47	
Guam P.R. V.I.			68 —	 58 	N	N	422 —	50 481 —		42 32 —	
Amer. Samoa C.N.M.I.	U	U U	<u>U</u>	U U	U —	U U	U —	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 December 17, 2005, and December 18, 2004 (50th Week)\*

(50th Week)*			Strepto	coccus pneum	oniae. invasiv	/e disease	1			
		cal disease,	Drug res	sistant,	, , , , , , , , , ,		1		hilis	
		, group A	all a		Age <5		<del>                                     </del>	secondary	Cong	
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004
UNITED STATES	4,085	4,163	2,079	2,171	885	797	7,722	7,497	269	371
NEW ENGLAND	166	273	113	169	66	110	208	180	1	4
Maine N.H.	12 15	14 21	<u>N</u>	N 	1 5	7 N	1 14	2 5	_	3
Vt.	10	10	13	10	6	3	1	_	_	_
Mass. R.I.	120 9	119 21	84 16	54 20	53 1	62 8	127 20	111 25	_	_ 1
Conn.	Ű	88	Ü	85	ΰ	30	45	37	1	
MID. ATLANTIC	824	691	185	153	139	124	956	946	35	34
Upstate N.Y. N.Y. City	247 152	222 118	73 U	62 U	62 20	83 U	83 583	93 591	9 5	4 15
N.J.	160	139	N	N	27 27	12	127	144	21	14
Pa.	265	212	112	91	30	29	163	118	_	1
E.N. CENTRAL Ohio	820 183	924 213	580 346	482 330	273 79	191 80	822 205	864 232	34 1	59
Ind.	99	94	179	152	50	45	205 57	232 57	i	2 3
III.	169	244	17	<del>_</del>	64	15	440	371	13	23
Mich. Wis.	304 65	284 89	38 N	N N	56 24	N 51	84 36	175 29	15 4	30 1
W.N. CENTRAL	261	293	43	22	96	107	231	148	5	5
Minn.	105	137	 N		60	71 N	61	26	1	1
lowa Mo.	N 65	N 61	35	N 17	10	N 14	4 140	5 88	4	
N. Dak.	12	14	3	_	4	4	1	_	_	_
S. Dak. Nebr.	22 21	21 20	3 2	5	7	9	1 5	<u> </u>	_	_
Kans.	36	40	N	N	15	9	19	23	_	2
S. ATLANTIC	900	830	821	1,071	82	61	1,987	1,907	42	59
Del. Md.	6 192	3 147	2	4	— 56	N 44	10 302	9 366	 14	1 9
D.C.	11	10	17	11	3	4	92	65	_	1
Va. W. Va.	91 24	68 26	N 112	N 109	 23	N 13	130 4	94 3	4	3
N.C.	124	124	N	N	U	U	254	188	11	12
S.C. Ga.	30 175	52 190	— 142	83 306	_	N N	81 405	114 365	4 1	12 5
Fla.	247	210	548	558	_	N	709	703	8	16
E.S. CENTRAL	164	209	170	159	14	17	459	390	27	23
Ky. Tenn.	32 132	60 149	31 139	31 126	N —	N N	52 210	47 128	 20	1 8
Ala.	_	_	_	_	_	N	153	161	6	11
Miss.	_	_	_	2	14	17	44	54	1	3
W.S. CENTRAL Ark.	255 22	330 17	105 15	83 10	156 18	147 8	1,204 50	1,197 47	71 1	75 4
La.	7	3	90	73	24	31	235	315	12	9
Okla. Tex.	109 117	67 243	N N	N N	35 79	45 63	40 879	25 810	1 57	2 60
MOUNTAIN	580	483	62	31	50	37	370	376	28	48
Mont.	_	_	1	_	_	_	5	4	_	_
Idaho Wyo.	3 5	9 10	N 23	N 11	_	N —	20	23 3	1	2
Colo.	200	112	N	N	49	37	44	62	1	2
N. Mex. Ariz.	43 246	90 217	N	N N	_	N	47 167	79 155	2 23	2 41
Utah	82	40	36	18	1	_	6	11	_	1
Nev.	1	5	2	2	_	_	81	39	1	_
PACIFIC Wash.	115 N	130 N	 N	1 N	9 N	3 N	1,485 149	1,489 137	26	64
Oreg.	N	N	N	N	6	N	38	27	-	-
Calif. Alaska		_	N	<u>N</u>	N	N N	1,280 6	1,312 6	26	64
Hawaii	115	130	_	1	3	3	12	7	_	_
Guam		<del></del>	<del></del>	<del></del>	_	<del>-</del>	_	2	_	_
P.R. V.I.	<u>N</u>	N —	N —	N —	_	N —	207	159 4	9	5 —
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 December 17, 2005, and December 18, 2004 (50th Week)\*

(50th Week)*					Var	icella		West Nile virus disease <sup>†</sup>			
		rculosis		id fever	<del>                                      </del>	(enpox)	1 -	nvasive	Non-neuroinvasive§		
Reporting area	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005	Cum. 2004	Cum. 2005		
UNITED STATES	11,149	13,205	261	304	25,464	28,319	1,168	1,142	1,474		
NEW ENGLAND Maine	348 17	440 20	24 1	22	2,285 213	3,451 330	9	_	4		
N.H.	6	17	_	_	1,409	_	_	_	_		
Vt. Mass.	7 229	6 255	 14	— 15	120 543	413 910	4	_			
R.I. Conn.	37 52	51 91	1 8	1 6	 U	 1,798	1 4	_			
MID. ATLANTIC	1,950	2,017	52	73	4,678	93	27	17	18		
Upstate N.Y.	242	283	6	10	· —	_	_	5	_		
N.Y. City N.J.	953 453	986 448	24 14	30 18	_	_	10 3	2 1	4 3		
Pa.	302	300	8	15	4,678	93	14	9	11		
E.N. CENTRAL Ohio	1,186 229	1,140 191	25 2	35 7	6,551 1,547	12,577 1,532	235 46	66 11	116 15		
Ind. III.	127 546	124 515	1 11	 16	597 75	N 6,215	10 132	8 29	2 88		
Mich.	209	222	6	9	3,898	4,136	36	13	5		
Wis.	75	88	5	3	434	694	11	5	6		
W.N. CENTRAL Minn.	421 174	445 174	6 5	10 6	657 —	183	150 17	86 13	426 27		
Iowa Mo.	47 99	47 114	_		N 474	N 5	13 17	13 27	21 14		
N. Dak.	2	4	_	_	55	82	12	2	74		
S. Dak. Nebr.	15 29	8 37	_		128 —	96 —	35 43	6 7	192 90		
Kans.	55	61	1	_	_	_	13	18	8		
S. ATLANTIC Del.	2,373 19	2,676 17	52 1	44	2,578 28	2,340 5	30 1	65 —	22 —		
Md. D.C.	244 48	268 77	12 —	12	38	<u> </u>	4	10 1	1		
Va.	281	279	18	10	918	555	_	4	_		
W. Va. N.C.	26 269	22 362	<u> </u>	 8	1,107	1,292 N		3	N 2		
S.C. Ga.	205 352	168 535	<del>-</del>	<u> </u>	487	462	5 9	— 14	<del>_</del> 7		
Fla.	929	948	11	10	_	_	9	33	12		
E.S. CENTRAL	525	649	7	8		53	64	60	38		
Ky. Tenn.	110 233	120 231	2 2	3 5	<u>N</u>	<u>N</u>	5 14	1 13	3		
Ala. Miss.	182	188 110	1 2	_	_	53 —	6 39	15 31	4 31		
W.S. CENTRAL	1,500	1,858	16	26	6,243	7,101	234	237	118		
Ark. La.	111	114	_ 1	_	35 111		11 100	17 85	15 38		
Okla.	134	164	1	1	_	_	16	16	14		
Tex. MOUNTAIN	1,255 369	1,580 519	14 11	25 8	6,097 2,472	7,045 2,521	107 135	119 322	51 217		
Mont.	8	14		_		Z,521 —	8	2	17		
Idaho Wyo.	_	3 5	_	_	— 52	— 56	2 6	1 2	7 6		
Colo. N. Mex.	62 33	120 39	7	3	1,772	2,008	20 20	41 31	81 13		
Ariz.	209	209	2		174 —	<u>U</u>	44	214	47		
Utah Nev.	26 31	36 93	1 1	1 2	474	457 —	21 14	6 25	31 15		
PACIFIC	2,477	3,461	68	78	_	_	284	289	515		
Wash. Oreg.	240 54	225 102	5 4	6 1	N —	N —	_ 1	_	<del></del> 6		
Calif.	2,034	2,989	47	65	_	_	283	289	509		
Alaska Hawaii	38 111	36 109	12	6	_	_	_	_	_		
Guam	_	50	_	_	_	263	_	_	_		
P.R. V.I.	_	104	_	_	565 —	388	_	_	_		
Amer. Samoa C.N.M.I.	<u>U</u>	U U	U	U U	<u>U</u>	U U	U	U U	_		
O.14.IVI.1.		<u> </u>		- 0		<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.

	l	J.S. cities,* week ending December 17, 2005 (50th Week)  All causes, by age (years)  All causes, by age (years)								1					
Reporting Area	All Ages	<u>≥</u> 65	45–64	25–44	1–24	<1	P&I <sup>†</sup> Total	Reporting Area	All Ages	≥65	45–64	25–44	1–24	<1	P&I <sup>†</sup> Total
NEW ENGLAND	601	428	128	27	10	8	57	S. ATLANTIC	1,340	825	332	104	48	31	70
Boston, Mass.	159	110	37	8	4	_	10	Atlanta, Ga.	151	81	52	15	2	1	3
Bridgeport, Conn. Cambridge, Mass.	35 14	26 12	8 2	1	_	_	6 2	Baltimore, Md. Charlotte, N.C.	161 116	88 74	52 21	13 13	3 6	5 2	10 14
Fall River, Mass.	23	19	4	_			1	Jacksonville, Fla.	180	117	45	7	6	5	7
Hartford, Conn.	56	34	13	6	3	_	9	Miami, Fla.	239	144	54	23	12	6	7
Lowell, Mass.	20	15	4	_	_	1	_	Norfolk, Va.	47	31	12	1	2	1	3
Lynn, Mass.	12	10	1	1	_	_	_	Richmond, Va.	57	38	12	4	3	_	3
New Bedford, Mass.	26	20	2	3	_	1	3	Savannah, Ga.	39	29	6	2	_	2	4
New Haven, Conn. Providence, R.I.	40 71	25 55	8 15	4 1	1	2	3 7	St. Petersburg, Fla. Tampa, Fla.	45 184	31 124	10 40	3 9	1 8	3	4 8
Somerville, Mass.	3	1	2					Washington, D.C.	101	52	26	12	5	6	4
Springfield, Mass.	39	26	10	2	1	_	4	Wilmington, Del.	20	16	2	2	_	_	3
Waterbury, Conn.	41	34	6	1	_	_	5	E.S. CENTRAL	948	621	224	64	22	17	70
Worcester, Mass.	62	41	16	_	1	4	7	Birmingham, Ala.	232	151	48	16	7	10	18
MID. ATLANTIC	2,088	1,434	443	137	41	31	98	Chattanooga, Tenn.	84	62	15	5	2	_	8
Albany, N.Y.	39	28	8	1	_	2	3	Knoxville, Tenn.	106	73	22	8	2	1	3
Allentown, Pa.	28	24	. 3	1	_	_	3	Lexington, Ky.	73	45	21	.5	2	_	6
Buffalo, N.Y.	77 27	54	15 9	4 2	1 1	3 1	6 2	Memphis, Tenn.	166 103	106	43	11 8	4	2	19
Camden, N.J. Elizabeth, N.J.	20	14 16	9 4	_			1	Mobile, Ala. Montgomery, Ala.	46	66 32	26 12	2	3	_	3 5
Erie, Pa.	58	39	11	4	4		6	Nashville, Tenn.	138	86	37	9	2	4	8
Jersey City, N.J.	42	26	13	2	1	_	_	· ·					52	44	
New York City, N.Y.	1,081	727	240	76	22	14	37	W.S. CENTRAL Austin, Tex.	1,656 124	1,046 76	385 21	129 19	52 4	44	91 10
Newark, N.J.	48	23	12	8	2	3	4	Baton Rouge, La.	35	29	3	2	1	_	<del>-</del>
Paterson, N.J.	U	U	U	U 25	U 7	Ū	U 15	Corpus Christi, Tex.	62	41	12	3	1	5	1
Philadelphia, Pa. Pittsburgh, Pa.§	301 21	200 14	64 4	25 2	1	5	— —	Dallas, Tex.	224	114	66	22	12	10	14
Reading, Pa.	22	20	1	1		_	1	El Paso, Tex.	96	66	20	7	1	2	4
Rochester, N.Y.	120	94	20	4	_	2	5	Ft. Worth, Tex.	150 457	92 278	47	6	2 18	3 14	4
Schenectady, N.Y.	25	20	4	1	_	_	_	Houston, Tex. Little Rock, Ark.	457 76	278 49	108 22	39 4	10	14 —	31
Scranton, Pa.	39	32	5	2	_	_	1	New Orleans, La. <sup>¶</sup>	Ű	Ü	Ü	Ū	ΰ	U	U
Syracuse, N.Y. Trenton, N.J.	81 31	61 20	18 7	3	2	_ 1	10 2	San Antonio, Tex.	251	172	49	19	7	4	13
Utica, N.Y.	9	6	3	_			1	Shreveport, La.	48	37	7	1_	3	_	7
Yonkers, N.Y.	19	16	2	1	_	_	1	Tulsa, Okla.	133	92	30	7	2	2	7
E.N. CENTRAL	1,955	1,278	477	110	30	60	122	MOUNTAIN Albuquerque, N.M.	1,192 137	814 94	247 29	74 10	25 3	30 1	85 13
Akron, Ohio	47 39	33 27	10	1	3	_ 1	2	Boise, Idaho	42	32	6	1	2	1	2
Canton, Ohio Chicago, III.	259	27 167	10 69	18	1 1	4	2 23	Colo. Springs, Colo.	92	66	18	8	_	_	7
Cincinnati, Ohio	90	58	25	3		4	10	Denver, Colo.	102	61	22	7	3	9	.4
Cleveland, Ohio	232	165	52	8	3	4	9	Las Vegas, Nev. Ogden, Utah	251	175 24	56	13	3 1	4	17
Columbus, Ohio	224	142	60	16	1	5	9	Phoenix, Ariz.	31 175	100	6 44	 17	7	6	1 19
Dayton, Ohio	125	92	26	6	1	_	9	Pueblo, Colo.	32	26	2	3	1	_	2
Detroit, Mich.	172 52	85 34	55 13	11 4	3 1	18	8 6	Salt Lake City, Utah	129	88	32	3	3	3	7
Evansville, Ind. Fort Wayne, Ind.	64	38	12	6	2	6	7	Tucson, Ariz.	201	148	32	12	2	6	13
Gary, Ind.	15	9	5	_	1	_	_	PACIFIC	1,743	1,228	357	91	38	28	155
Grand Rapids, Mich.	59	42	11	2	_	4	8	Berkeley, Calif.	21	15	3	3	_	_	2
Indianapolis, Ind.	162	101	33	13	4	11	3	Fresno, Calif.	120	90	24	5	_	1	7
Lansing, Mich.	41	27	11	2	_	1	3	Glendale, Calif.	11	9	1	_	1	_	2
Milwaukee, Wis. Peoria, III.	104 42	62 32	30 5	7 3	4 2	1	14 1	Honolulu, Hawaii Long Beach, Calif.	73 68	53 49	14 13	3 3	3	3	14
Rockford, III.	49	34	12	2	1	_	i	Los Angeles, Calif.	216	140	51	17	4	4	21
South Bend, Ind.	35	26	8	1	_	_	1	Pasadena, Calif.	36	29	3	_	2	2	7
Toledo, Ohio	94	61	24	6	2	1	4	Portland, Oreg.	142	101	30	8	2	1	7
Youngstown, Ohio	50	43	6	1	_	_	2	Sacramento, Calif.	205	143	46	10	4	2	21
W.N. CENTRAL	683	432	161	47	23	20	46	San Diego, Calif. San Francisco, Calif.	170 182	119 112	33 47	10 12	4 4	3 7	13 18
Des Moines, Iowa	108	69	30	6	3	_	8	San Francisco, Calif. San Jose, Calif.	149	112	47 26	5	3	1	23
Duluth, Minn.	28	21	6	_	1	_	3	Santa Cruz, Calif.	32	26	5	1	_		3
Kansas City, Kans.	32	17	11	4			_	Seattle, Wash.	137	97	22	7	8	3	4
Kansas City, Mo. Lincoln, Nebr.	100 41	64 33	18 7	10	4	4 1	3 6	Spokane, Wash.	64	45	13	5	_	1	7
Minneapolis, Minn.	78	47	16	10	2	3	2	Tacoma, Wash.	117	86	26	2	3	_	6
Omaha, Nebr.	82	59	16	1	3	3	8	TOTAL	12,206**	8,106	2,754	783	289	269	794
St. Louis, Mo.	76	28	27	12	7	2	3								
St. Paul, Minn.	57	40	11	1	3	2	5								
Wichita, Kans.	81	54	19	3	_	5	8								

U: Unavailable. —: No reported cases.

<sup>\*</sup>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.

<sup>†</sup>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.

<sup>\*\*</sup> Total includes unknown ages.

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