



# **Morbidity and Mortality Weekly Report**

Weekly

October 18, 2002 / Vol. 51 / No. 41

# Local Transmission of Plasmodium vivax Malaria — Virginia, 2002

Malaria transmission in the United States was largely eliminated during the mid-20th century; however, sporadic cases of locally acquired mosquito-transmitted malaria continue to occur. Since 1997, four separate probable mosquito-transmitted malaria outbreaks have been reported to CDC, including one from Virginia (1–3). This report describes the investigation of two cases of *Plasmodium vivax* malaria that occurred in northern Virginia in August 2002, and underscores the need for clinicians to consider the possibility of malaria in patients with fever of unknown origin.

## **Case Reports**

Case 1. On August 23, 2002, a person aged 19 years from northern Virginia sought medical care at a family health clinic with a 4-day history of fatigue, fever, and chills. The patient also complained of muscle aches and sinus pain. A sinus infection was diagnosed, and the patient was prescribed azithromycin and desloratadine. Four days later, the patient returned to the clinic with additional symptoms, dizziness, and nausea. On physical examination, the patient had a temperature of 103.5° F (39.7° C) and tachycardia. Laboratory results revealed pancytopenia (platelet count: 61,000/µL [normal: 130,000–400,000/µL], hemoglobin: 10 g/dL [normal: 11.5–16.0 g/dL], and white blood cell count:  $3,300/\mu$ L [normal:  $4,000-11,000/\mu$ L]). The patient's therapy was changed to oral levofloxacin. Malaria parasites were identified subsequently on a routine complete blood count smear taken 4 days after the initial clinic visit. The patient was contacted and administered chloroquine. A review of the initial malaria smear by a local university hospital confirmed the diagnosis of *P. vivax* malaria. The patient completed a 3-day course of chloroquine therapy and after a normal glucose-6phosphate dehydrogenase (G6PD) test result was placed on primaquine for 14 days. The patient had complete resolution of symptoms.

Case 2. On August 25, a person aged 15 years from northern Virginia was taken to a local emergency department for treatment of 2 weeks of headaches and 4 days of fever, nausea, vomiting, malaise, and nose bleeds. On physical examination, the patient had a temperature of 105.0° F (40.6° C), tachycardia, splenomegaly, and jaundice. Laboratory values revealed pancytopenia (platelet count: 48,000/µL, hemoglobin: 11.6 g/dL, and white blood cell count: 3,200/µL). A malaria smear revealed Plasmodium sp. parasites reported initially as nonfalciparum. The patient was admitted to the hospital and administered quinine and clindamycin. The smear was confirmed subsequently as P. vivax by the Virginia Department of Health. The patient's physician contacted CDC for treatment recommendations on August 28 because the patient had tinnitus, requiring discontinuation of the quinine. The patient completed a 3-day course of chloroquine therapy and was discharged with complete resolution of symptoms on August 31. After a normal G6PD test result, the patient was placed on primaquine for 14 days.

# **Epidemiologic Investigation**

The two patients had no risk factors for malaria, including international travel, blood transfusion, organ transplantation,

#### INSIDE

- 924 Q Fever California, Georgia, Pennsylvania, and Tennessee, 2000–2001
- 927 Probable Variant Creutzfeldt-Jakob Disease in a U.S. Resident Florida, 2002
- 929 West Nile Virus Activity United States, October 10– 16, 2002, and Update on West Nile Virus Infections in Recipients of Blood Transfusions
- 931 Pneumococcal Vaccination for Cochlear Implant Recipients

The MMWR series of publications is published by the Epidemiology Program Office, Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30333.

#### **SUGGESTED CITATION**

Centers for Disease Control and Prevention. [Article Title]. MMWR 2002;51:[inclusive page numbers].

#### **Centers for Disease Control and Prevention**

Julie L. Gerberding, M.D., M.P.H. *Director* 

David W. Fleming, M.D.

Deputy Director for Science and Public Health

Dixie E. Snider, Jr., M.D., M.P.H.

Associate Director for Science

#### **Epidemiology Program Office**

Stephen B. Thacker, M.D., M.Sc. *Director* 

#### Office of Scientific and Health Communications

John W. Ward, M.D. Director Editor, MMWR Series

David C. Johnson

Acting Managing Editor, MMWR (Weekly)

Jude C. Rutledge Teresa F. Rutledge Jeffrey D. Sokolow, M.A. Writers/Editors, MMWR (Weekly)

Lynda G. Cupell Malbea A. Heilman Beverly J. Holland Visual Information Specialists

Quang M. Doan Erica R. Shaver Information Technology Specialists

# Division of Public Health Surveillance and Informatics

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

Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Patsy A. Hall Pearl C. Sharp or needle sharing. The patients lived approximately 0.5 miles apart; however, the 19-year-old patient reported numerous visits to friends who lived directly across the street from the 15-year-old patient. Residents in the neighborhood surrounding the patients' homes were asked about recent febrile illnesses. Medical records from two hospitals serving residents in the patients' neighborhood also were reviewed, and charts of patients with a diagnosis of fever of unknown origin were obtained. None of the patients' neighbors had unexplained febrile illnesses. Of 224 hospital records available for review, 21 documented fever with no underlying cause. One of the 21 patients had persistent symptoms; however, a malaria smear did not reveal malaria parasites. No further cases of locally acquired malaria have been reported in northern Virginia.

Washington Dulles International Airport is located <10 miles from the patients' homes. The airport receives nonstop international flights from countries in which *P. vivax* malaria is endemic. Ill travelers are sent to one of the hospitals included in the investigation's case-detection activities. Physicians at two Army bases located nearby were contacted and reported no known cases of malaria or fever of unknown origin in troops returning from areas in which malaria is endemic.

# Environmental and Entomologic Investigation

The patients' homes were visited. One home had several unscreened or poorly screened windows; the other had wellscreened windows and a porch. Within the vicinity of both homes was a wooded area with a creek and ponds. As a part of ongoing West Nile virus (WNV) surveillance activities, trapping for anopheline mosquitoes within 10 miles of the patients' homes yielded Anopheles quadrimaculatus and An. punctipennis (Figure). Of approximately 870 anopheline mosquitoes tested, five pools (four to six mosquitoes per pool) captured within 2-6 miles of the patients' homes tested positive for *P. vivax-*210 circumsporozoite protein by using a field test (VecTest<sup>TM</sup> [Medical Analysis Systems, Inc., Camarillo, California]) on September 25 and 27 and October 1, 6, and 11. No mosquito pool has tested positive repeatedly in confirmatory testing by using polymerase chain reaction (PCR); however, efforts to confirm the positive VecTest mosquito pools are ongoing.

Reported by: A Pastor, MD, Loudoun Healthcare Dept of Infectious Diseases; J Neely, Clarke Environmental Mosquito Management; D Goodfriend, MD, Loudoun County Dept of Health, Leesburg: J Marr, MD, S Jenkins, VMD, D Woolard, PhD, D Pettit, PhD, D Gaines, PhD, D Sockwell, MSPH, Virginia Dept of Health. C Garvey, MD, C Jordan, C Lacey, Montgomery County Health Svcs, Rockville; T DuVernoy, DVM, Maryland Dept of Health and Mental Hygiene. D Roberts, PhD, L Robert, PhD, P Santos, Div of Tropical Public Health,

# FIGURE. CDC light trap used during investigation to capture *Anopheles* sp. mosquitoes



Photo/CDC

Uniformed Svcs, Univ of the Health Sciences, Bethesda, Maryland. R Wirtz, PhD, J MacArthur, MD, Div of Parasitic Diseases; M O'Brien, Div of Applied Public Health Training, Epidemiology Program Office; L Causer, MBBS, EIS Officer, CDC.

Editorial Note: Despite malaria eradication certification in the United States in 1970 (4,5), 10 outbreaks involving 17 cases of probable locally acquired mosquito-borne malaria transmission have occurred since 1992 (1). The two cases from northern Virginia represent the first cases of probable mosquitoborne malaria transmission in the United States since 1999 (1,2) and the second reported outbreak in

Virginia (3). These outbreaks share common features: 1) an initial case without known risk factors for malaria, 2) probable proximity to a person with malaria parasitemia, 3) presence of competent mosquito vectors, and 4) environmental conditions conducive to the maturation of the parasite in the mosquito.

Approximately 1,000–1,500 cases of malaria in the United States are reported annually to CDC (6). The majority are diagnosed in travelers from countries in which malaria is endemic. The source of infection in the two northern Virginia residents was probably the bite of an infective mosquito that had acquired the parasite by biting a malaria-infected person in the general vicinity. Several Anopheles sp. mosquitoes native to the United States are competent malaria vectors. The An. quadrimaculatus and An. punctipennis mosquitoes captured near the patients' homes have been implicated in previous cases of locally acquired malaria (2,3). Numerous pools of these vectors were tested by using VecTest<sup>TM</sup>. Although this test is used commonly in international settings (7), this is the first time the test has been used in an investigation of mosquito-borne malaria in the United States. The identification of five malaria-positive pools among approximately 870 tested mosquitoes is unexpectedly high and has not been observed previously during an investigation of a malaria outbreak in the United States. Rapid screening tests such as the VecTest TM were not available previously. However, because VecTest IS a new tool for the investigation of local mosquito-borne malaria in the United States, its validity in this setting is unknown, and results need to be confirmed by using PCR. Efforts are under way to develop testing algorithms for screening mosquito pools by using VecTest And confirming results with PCR.

This investigation underscores the need for clinicians to consider the possibility of malaria in patients with fever of unknown origin. Although a thorough travel history and riskfactor assessment should be a part of the evaluation of febrile patients, the possibility of malaria in patients without international travel, blood transfusion, organ transplantation, or needle sharing should be considered. Rapid diagnosis and treatment with effective antimalarial drugs are the basis of patient case management and will reduce the chances that an infected host will transmit the parasite. The same precautions recommended for minimizing exposure to WNV should be followed for reducing exposure to malaria-infected Anopheles sp. mosquitoes, including wearing long-sleeved shirts and long trousers, using insect repellent containing N,N-diethylmtoluamide (DEET), and avoiding outdoor activities during the late evening. Prompt reporting of patients with malaria to local public health authorities assists in activating control measures for these isolated cases of mosquito-borne malaria.

#### **Acknowledgments**

This report is based on data contributed by L Frank, R Helfrich, Montgomery County Health Svcs, Rockville; C Lesser, Maryland Dept of Agriculture; D Blythe, MD, Maryland Dept of Health and Mental Hygiene.

#### References

- MacArthur JR, Holtz TH, Jenkins J, et al. Probable locally acquired mosquito-transmitted malaria in Georgia, 1999. Clin Infect Dis 2001;32:E124–E128.
- CDC. Probable locally acquired mosquito-transmitted *Plasmodium vivax* infection—Suffolk County, New York, 1999. MMWR 2000;49:495–8.
- Strickman D, Gaffigan T, Wirtz RA, et al. Mosquito collections following local transmission of *Plasmodium falciparum* malaria in Westmoreland County, Virginia. J Am Mosq Control Assoc 2000;16:219–22.
- 4. Bradley G. A review of malaria control and eradication in the United States. Mosquito News 1966;26:462–70.
- Wernsdorfer WH, McGregor I. Malaria: Principles and Practice of Malariology. Edinburgh, New York: Churchill Livingstone, 1988.
- Causer LM, Newman RD, Barber AM, et al. Malaria surveillance— United States, 2000. In: CDC surveillance summaries (July 12). MMWR 2002;51(No. SS-5):9–23.
- 7. Ryan JR, Dave K, Collins KM, et al. Extensive multiple test centre evaluation of the VecTest malaria antigen panel assay. Med Vet Entomol 2002;16:321–7.

# Q Fever — California, Georgia, Pennsylvania, and Tennessee, 2000–2001

Q fever is a zoonotic disease caused by the bacterium Coxiella burnetii. The most common reservoirs are domesticated ruminants, primarily cattle, sheep, and goats. Humans acquire Q fever typically by inhaling aerosols or contaminated dusts derived from infected animals or animal products. Its highly infectious nature and aerosol route of transmission make *C. burnetii* a possible agent of bioterrorism (1). Although up to 60% of initial infections are asymptomatic (2), acute disease can manifest as a relatively mild, self-limited febrile illness, or more moderately severe disease characterized by hepatitis or pneumonia. It manifests less commonly as myocarditis, pericarditis, and meningoencephalitis. Chronic Q fever occurs in <1% of infected patients, months or years after initial infection. Chronic disease manifests most commonly as a culture-negative endocarditis in patients with valvular heart disease. During 2000-2001, a total of 48 patients who met the case definition\* of Q fever were reported to CDC. This report describes the case investigations for six of these patients, which indicate that these persons acquired Q fever probably through direct or indirect contact with livestock. To enhance surveillance efforts, health-care providers should report cases of Q fever to state health departments.

#### **California**

In May 2001, a woman aged 56 years sought treatment from her health-care provider for fever (104° F [40° C]), hepatomegaly, and elevated liver enzymes (alkaline phosphatase 532 U/L [normal: 30–100 U/L], SGOT 178 U/L [normal: 9–25 U/L], and SGPT 149 U/L [normal: 7–30 U/L]). Acute cholecystitis was diagnosed, and a cholecystectomy was performed. After the procedure, the patient's symptoms persisted, and she developed pain and partial paralysis of the left leg. Approximately 4 weeks after the woman sought treatment initially, a computed tomography (CT) scan of the patient's chest revealed nonspecific interstitial lung disease. Serum samples obtained near the time of the CT scan and 6 weeks later were tested by an indirect immunofluoresence antibody (IFA) assay and demonstrated IgG antibodies reactive with *C. burnetii* phase II antigens at reciprocal titers of

 $\geq$ 1,024, confirming a diagnosis of Q fever. The patient's husband aged 62 years also developed a nonspecific febrile illness 3 days after the onset of his wife's illness; serum specimens obtained from him in June and July and tested by IFA demonstrated IgG antibodies reactive with *C. burnetii* phase II antigens at reciprocal titers of  $\geq$ 1,024. Canvassing of the neighborhood by a public health nurse revealed that a next-door neighbor aged 76 years had a nonspecific febrile illness in April 2001. His serum was obtained in August and October and was tested by IFA; both specimens demonstrated IgG antibodies to *C. burnetii* phase II antigens at reciprocal titers of  $\geq$ 1,024. The three patients were treated with doxycycline; their symptoms resolved, but the woman has residual neurologic deficits in her left leg.

The couple did not own livestock but drove daily on an unpaved road past a neighbor's goat herd. Goat kids had been born at the farm during the spring. Serum specimens obtained from 48 goats in this herd were tested by CDC by using IFA; 45 (94%) animals had IgG antibodies to *C. burnetii* at reciprocal titers indicative of current or previous infection (titer range: 32–16,384).

#### Georgia

In March 2001, a man aged 46 years sought treatment for acute onset of fever, chills, cough, and weight loss; influenza was diagnosed. The patient's symptoms persisted, and after 2 weeks he sought further treatment at an emergency department, where influenza again was diagnosed, and he was referred to an infectious disease specialist. A serum sample was tested by IFA and reacted with *C. burnetii* phase II antigens at a reciprocal titer of  $\geq$ 256. The patient was administered a 5-day course of the fluoroquinolone gatifloxacin, and symptoms resolved within 2 weeks. A convalescent-phase serum sample obtained in April and tested by IFA demonstrated an IgG reciprocal antibody titer reactive with *C. burnetii* phase II antigens of  $\geq$ 16,384.

The patient owned several dairy cows, but there had been no recent animal births on the premises. Two beef cattle herds of approximately 35 animals each were pastured across the road from the patient's farm. Serum was drawn from 14 cattle from these herds; two animals tested by IFA reacted with phase I or II antigens of *C. burnetii* at reciprocal antibody titers (16–32).

## Pennsylvania

In September 2000, a man aged 90 years sought treatment for fever (101.0° F [38.3° C]) and a 4-month history of malaise and weight loss after a cholecystectomy. The patient had elevated liver enzymes (alkaline phosphatase 181 U/L

<sup>\*</sup> Confirmed Q fever: A clinically compatible case that is laboratory confirmed with one of the following: 1) a fourfold change in antibody tier to C. burnetii antigen by immunofluoresence antibody assay or complement fixation antibody test, 2) a positive polymerase chain reaction assay, 3) culture of C. burnetii from a clinical specimen, or 4) positive immunostaining of C. burnetii in tissue. Probable Q fever: a clinically compatible case with single supportive IgG of IgM titer as defined by the testing laboratory.

[normal: 45–115 U/L] and SGOT 51 U/L [normal: 1–40 U/L]). He was admitted to the hospital for diagnostic evaluation. In 1998, the patient had undergone aortic valve replacement for culture-negative endocarditis and valvular insufficiency. A serum sample drawn in November 2000 was tested by IFA and demonstrated IgG antibodies reactive with *C. burnetii* phase I antigens at a reciprocal titer of ≥524,288. Presence of *C. burnetii* was demonstrated in the excised aortic heart valve tissue from 1998 when tested by immunohistochemical (IHC) staining at CDC. The patient was started on long-term doxycycline therapy in October 2000. Since electing to discontinue this therapy 1 year later, the patient has had two recurrences. He was admitted to the hospital in September 2002 for fever and hypotension.

The patient had owned and operated a cattle farm but had retired from farming 30 years previously. The patient's relatives raised sheep and goats nearby, but the patient denied having contact with their animals. One relative, who raised sheep, was found to have an antibody titer reactive with *C. burnetii* phase I antigens but had not experienced illness.

#### **Tennessee**

In February 2001, a man aged 49 years was admitted to a hospital with a right lower-extremity embolism. The patient reported a 6-month history of intermittent fever, night sweats, fatigue, and arthralgias. A heart murmur had been diagnosed 4 months previously. On admission, he had a temperature of 99.2° F (37.3° C) and leukocytosis (white blood cell count of  $14.3 \times 10^9 / L$  [normal:  $4.5 - 11.0 \times 10^9 / L$ ]). The embolism in his leg was removed surgically. An echocardiogram after hospital admission revealed a bicuspid aortic valve with moderate stenosis and severe regurgitation, and aortic valve replacement was performed. Microscopic examination of the excised valve revealed a vegetative growth, but no bacteria or fungi were detected by histopathology or routine cultures. Serum obtained 1 week after admission was tested by IFA and demonstrated IgG antibodies reactive with C. burnetii phase I antigens at a reciprocal titer of >512, and the patient was administered doxycycline and levofloxacin. CDC detected DNA of *C. burnetii* in the excised aortic valve by polymerase chain reaction (PCR). The embolus removed from the patient's right leg tested positive for C. burnetii by IHC staining. The patient was discharged but was readmitted 10 days later for pericardial effusion with tamponade, which resolved after surgical intervention.

The patient owned one goat and a herd of approximately 100 cattle. In February 2000, the patient had been present at the stillbirth of one calf and the premature delivery and death of a second calf. Serum samples from 24 cattle in his herd

were collected in July and tested for antibodies to *C. burnetii* by IFA; one animal had reactivity to phase I and II antigens at a reciprocal titer of 16.

Reported by: M Jay-Russell, DVM, California Dept of Health Svcs; J Douglas, Calaveras County Dept of Health, San Andreas, California. C Drenzek, DVM, Georgia Div of Public Health, Dept of Human Resources. J Stone, MD, Cumberland; D Blythe, MD, Maryland Dept of Health. A Weltman, MD, Pennsylvania Dept of Health. T Jones, MD, A Craig, MD, Tennessee Dept of Health. J McQuiston, DVM, C Paddock, MD, W Nicholson, PhD, HA Thompson, PhD, Div of Viral and Rickettsial Diseases; S Zaki, MD, National Center for Infectious Diseases; J Wright, DVM, M O'Reilly, MD, D Kirschke, MD, EIS officers, CDC.

Editorial Note: These cases demonstrate acute and chronic clinical characteristics of Q fever and indicate some of the risk factors for acquiring this disease (see box). The bacterium C. burnetii is distributed widely in the United States, and human cases of Q fever have been reported from almost every state (3). Human infections are associated commonly with exposure to infected animals giving birth, especially ruminants such as sheep, cattle, and goats. Cats, dogs, wildlife, and birds also are associated occasionally with human infection (3,4). Transmission to humans usually occurs by inhalation of droplets or windborne dust containing C. burnetii (2-4). The persons whose cases are described in this report acquired Q fever probably through exposure to infected livestock. Most of the six patients had occupational contact with livestock (e.g., farming); however, some of these cases demonstrate that persons need not work in a high-risk environment or have direct animal contact to become infected with C. burnetii.

In humans, the clinical presentation of Q fever varies widely. Acute Q fever might be characterized by a nonspecific febrile illness, hepatitis, or pneumonia (5). Acute cholecystitis is not known to be associated with C. burnetii infection; however, the liver manifestations observed in some patients might resemble gall bladder disease. Although one person described in this report had a peripheral neuropathy after acute infection, such symptoms are uncommon (6). Chronic Q fever might manifest months to years after initial infection, most commonly as a culture-negative endocarditis (7–9). Persons with underlying heart valve defects or prosthetic valves are at increased risk for chronic Q fever endocarditis, which might occur in up to 40% of persons with valvular heart disease following acute Q fever (9). Health-care providers should be aware of the signs and symptoms of the disease and consider laboratory testing for Q fever in patients exhibiting prolonged fever, hepatitis, atypical pneumonia, or blood culturenegative endocarditis, particularly patients whose histories suggest contact with or exposure to sheep, goats, or cattle.

#### BOX. Epidemiology, diagnosis, treatment, and prevention of Q fever

#### **Epidemiology**

- Classified as a zoonotic disease
- Contracted through exposure to infected ruminants (especially parturient goats, sheep, and cattle), with incubation time of 3–30 days
- Distributed broadly throughout the United States
- Transmitted primarily through inhalation of airborne bacteria
- Highly infectious
- Designated a possible bioterrorism agent

#### Clinical findings

- Up to 60% of infections are asymptomatic
- Acute disease is characterized most frequently by
  - High fever and headache
  - Pneumonia or hepatitis in approximately 60% of acutely ill persons
  - Infrequent acute manifestations including pericarditis, myocarditis, or meningoencephalitis
- Chronic disease occurs in <1% of infected patients
  - Occurs predominantly in patients with underlying valvular heart disease, vascular aneurysms, or vascular grafts
  - Manifests primarily as culture-negative endocarditis, less commonly as vascular or osteoarticular infection

#### Laboratory testing

- Diagnosis made by
  - Demonstration of fourfold or greater changes in IgG or IgM class-specific testing of paired acute- and convalescentphase serum samples by immunofluoresence antibody
  - Elevated antibody response to C. burnetii phase I or II antigens
  - Detection of *C. burnetii* by polymerase chain reaction or immunohistochemical staining

#### **Treatment**

- Acute disease
  - Doxycycline 200 mg/day for 2-3 weeks
- Acute disease in patients with valvular heart disease
  - Doxycycline 200 mg/day plus hydroxychloroquine 600 mg/day, for 1 year; dosage of hydroxychloroquine adjusted to maintain plasma level at 1± 0.2 μg/ml
- Chronic
  - Doxycycline and hydroxychloroquine, dosage as above, for 1.5–3 years; cessation of therapy determined by appropriate serologic profile

#### Prevention

- Minimize or restrict exposures to livestock birthing areas
- Dispose of birth products properly (e.g., incinerate placenta and aborted fetuses)
- Report all human cases to state health departments (Q fever is a nationally notifiable disease)

Q fever usually is diagnosed by evaluating paired acute- and convalescent-phase serum samples. In humans, the antibody response is directed against phase I and phase II antigens of *C. burnetii*. Patients with acute Q fever typically produce an antibody response primarily to C. burnetii phase II antigen; chronic C. burnetii infections typically elicit a higher antibody response to phase I antigens (10). A diagnosis of Q fever also can be confirmed by examining biopsies of affected organs by using PCR or IHC. Serologic tests may be conducted at commercial laboratories, several state health laboratories, or CDC. In animals, serologic tests for antibodies to *C. burnetii* are more difficult to interpret. Presence of antibodies might indicate previous infection with the organism but cannot be used to predict human risk (3).

For treatment of acute Q fever, doxycycline is the drug of choice. Initiation of therapy is warranted in patients with disease demonstrating clinical and epidemiologic features compatible with Q fever. Because antibiotic treatment is most effective during the early phase of the illness, treatment should not be withheld pending results of confirmatory laboratory antibody tests, which provide a retrospective diagnosis (2). For patients with pre-existing valvular disease, progression of acute disease to endocarditis is best prevented by combination long-term therapy with doxycycline hydroxychloroquine. This regimen also is recommended for patients with active Q fever endocarditis (2,9). If the infection does not resolve with antibiotic therapy, the patient might require excision and replacement of the damaged heart valve; however, this will not necessarily ensure elimination of C. burnetii, and the new valve might fail if appropriate antimicrobial treatment is not initiated or is withdrawn prematurely (5).

Because its highly infectious nature and aerosol route of transmission make *C. burnetii* a potential agent of bioterrorism, human Q fever became a nationally notifiable disease in 1999. State health departments should report cases to CDC through the National Electronic Telecommunications System for Surveillance (NETSS) via event code 10255; to facilitate case reporting, Q fever case report forms are available at http://www.cdc.gov/ncidod/dvrd/qfever/case\_rep\_fm.pdf. Additional information about Q fever is available at http://www.cdc.gov/ncidod/dvrd/qfever.

#### **Acknowledgments**

This report is based in part on data contributed by G Rishwain, MD, E Schneider, MD, Stockton, California. W Lamm, MD, Cumberland; J Roach, MD, Maryland Dept of Health. C Black, DVM, Georgia Dept of Agriculture. W Moore, R Wilson, DVM, Tennessee Dept of Health. J Childs, ScD, J Singleton, J Sumner, J Miller, Div of Viral and Rickettsial Diseases; W Shieh, MD, National Center for Infectious Diseases; J Perz, DrPH, EIS Officer, CDC.

#### References

- 1. Rotz L, Khan A, Lillibridge S, et al. Public health assessment of potential biological terrorism agents. Emerg Infect Dis 2002;8:225–30.
- Raoult D, Mege JL, Marrie T. Q fever: queries remaining after decades of research. In: Scheld WM, Craig WA, Hughes JM, eds. Emerging Infections 5. Washington DC: ASM Press, 2001:29–56.
- McQuiston JH, Childs JE, Thompson HA. Q fever. J Am Vet Med Assoc 2002;221:796–9.
- 4. Marin M, Raoult D. Q fever. Clin Microbiol Rev 1999;12:518-53.
- Raoult D, Tissot-Dupont H, Foucault C, et al. Q fever 1985–1998: clinical and epidemiologic features of 1,383 infections. Medicine 2000;79:109–23.
- Bernit E, Pouget J, Janbon F, et al. Neurological involvement in acute Q fever: a report of 29 cases and review of the literature. Arch Intern Med 2002;162:693–700.
- 7. Brouqui P, Tissot-Dupont H, Drancourt M, et al. Chronic Q fever: ninety-two cases from France, including 27 cases without endocarditis. Arch Intern Med 1993;153:642.
- 8. Raoult D, Houpikian P, Tissot-Dupont H, et al. Treatment of Q fever endocarditis: comparison of 2 regimens containing doxycycline and ofloxacin or hydroxychloroquine. Arch Intern Med 1999;159: 167–73.
- Fenollar F, Fournier PE, Carrieri MP, et al. Risks factors and prevention of Q fever endocarditis. Clin Infect Dis 2001;33:312–6.
- Fournier PE, Marrie TJ, Raoult D. Diagnosis of Q fever. J Clin Microbiol 1998;36:1823–34.

# Probable Variant Creutzfeldt-Jakob Disease in a U.S. Resident — Florida, 2002

On April 18, 2002, the Florida Department of Health and CDC announced the occurrence of a likely case of variant Creutzfeldt-Jakob disease (vCJD) in a Florida resident aged 22 years. This report documents the investigation of this case and underscores the importance of physicians increasing their suspicion for vCJD in patients presenting with clinical features described in this report who have spent time in areas in which bovine spongiform encephalopathy (BSE) is endemic.

In early November 2001, the patient sought medical care for depression and memory loss that adversely affected the patient's work performance. The primary-care physician referred the patient to a psychologist. In early December 2001, the patient received a traffic ticket for failing to yield the

right of way. In mid-December 2001, the patient had involuntary muscular movements, gait changes, difficulty dressing, and incontinence. In January 2002, the patient was evaluated in a local emergency department for these symptoms. A computerized tomography scan of the head revealed no abnormalities; a panic attack was diagnosed, and the patient was treated with an anti-anxiety medication.

In late January 2002, the patient's mother, a resident of the United Kingdom, took the patient to England, where medical evaluations were conducted during the next 3 months. During this period, the patient's memory loss and other neurologic symptoms worsened. The patient experienced falls with minor injuries, had difficulty taking a shower and dressing, and was unable to remember a home telephone number or to make accurate mathematical calculations. The patient subsequently became confused, hallucinated, and had speech abnormalities with lack of content, bradykinesia, and spasticity. The patient was referred to a neurologist, who suspected vCJD and subsequently referred the patient to the National Prion Clinic in the United Kingdom.

Medical evaluations at the National Prion Clinic included an electroencephalogram (EEG), which revealed a normal alpharhythm, and magnetic resonance imaging (MRI) studies, which revealed signal abnormalities in the pulvinar and metathalamus region that were suggestive of vCJD. The patient had a tonsil biopsy, and a Western blot analysis of the biopsy tissue demonstrated the presence of protease-resistant prion protein (PrP-res) with the characteristic pattern of vCJD; an immunohistochemical test for PrP-res also supported a diagnosis of vCJD. Analysis of the prion protein gene detected no mutation and showed methionine homozygosity at codon 129, consistent with all 105 vCJD patients tested in the United Kingdom (R. Will, Western General Hospital, Edinburgh, Scotland, personal communication, 2002).

The patient received experimental treatment with quinacrine for 3 months. As of late September 2002, the patient had become bedridden, experienced considerable weight loss requiring surgical insertion of a feeding tube, and was no longer communicating with family members. On the basis of a case definition developed in the United Kingdom, the patient's illness met criteria for a probable case of vCJD (1).

The patient was born in the United Kingdom in 1979 and moved to Florida in 1992. The patient never had donated or received blood, plasma, or organs and never had received human growth hormone. There was no family history of CJD. In October 2001, before the onset of the illness, the patient's wisdom teeth were extracted, but there was no history of major surgery.

Reported by: S Wiersma, MD, State Epidemiologist, Florida Dept of Health. S Cooper, MRCP, R Knight, FRCP, National Creutzfeldt-Jakob Disease Surveillance Unit, Western General Hospital, Edinburgh, Scotland; AM Kennedy, MD, National Prion Clinic, Dept of Neurology, St. Mary's Hospital, London; S Joiner, MSc, Medical Research Council Prion Unit, Dept of Neurodegenerative Disease, Institute of Neurology, London, United Kingdom. E Belay, MD, LB Schonberger, MD, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: Variant CJD was first reported in 1996 in the United Kingdom, where an outbreak of BSE had been occurring among cattle since the early 1980s (2). Strong laboratory and epidemiologic evidence indicates that vCJD is linked causally with BSE (3). Although specific foods that transmit the BSE agent to humans have not been identified, transmission is believed to occur primarily by processed food items that contain infectious bovine tissues such as the brain or spinal cord. As of early October 2002, a total of 138 vCJD cases were reported worldwide, including the case described in this report. Consistent with the conclusion that the agent of BSE is also the agent responsible for vCJD, most vCJD cases (n=128) were reported in the United Kingdom, where most BSE cases in cattle have occurred (1).

The patient described in this report represents the first probable vCJD case in a U.S. resident. The patient had grown up in the United Kingdom when the BSE outbreak was increasing and when the risk for human exposures to BSE was probably at its peak. Therefore, it is likely that this patient was exposed to the BSE agent one or more times during 1980–1992 before moving to the United States and that the interval between the patient's exposure to BSE and onset of illness was 9–21 years. Such an incubation period would be consistent with known incubation periods for other similar diseases in humans, such as kuru and CJD related to exposures to pituitary-derived human growth hormone (4).

The patient is unlikely to have transmitted the disease to others because the patient did not have surgical procedures that involved manipulation of known infectious tissues. In addition, the disease is not communicable by usual personal contact. Appropriate infection-control procedures should be followed while performing invasive procedures in patients with vCJD (5). Although concerns exist about possible transmission of vCJD by transfusion of blood, this risk remains theoretical. The patient never had donated blood or organs. In 1999, because of the theoretical possibility of vCJD transmissions from infected blood donors, blood collection agencies in the United States began implementing a donor-deferral policy to exclude donors who might be at increased risk for infection because of a history of ≥6 months (later changed to

≥3 months) residence or travel to the United Kingdom during 1980–1996. In 2001, this donor-deferral policy was expanded to exclude donors who have traveled to other European countries for an extended period of time since 1980 (6).

Compared with the classic form of CJD endemic in the United States (7), vCJD patients typically have illness onset at an unusually young age (median age: 26 years versus approximately 68 years for classic CJD). All but one of the reported vCJD decedents had illness onset and died before age 55 years, compared with approximately 10% of classic CJD cases (7,8). Early in the course of the disease, vCJD patients usually have early and persistent psychiatric symptoms, including anxiety, depression, and social withdrawal; persistent painful sensory symptoms with dysesthesia and/or parasthesia also have been reported (8). Evaluation of the clinical manifestations of the first 100 vCJD patients in the United Kingdom indicated that onset of frank neurologic signs (e.g., gait disturbances, slurring of speech, and tremor) was usually delayed by several months after illness onset. Other neurologic signs (e.g., chorea, dystonia, and myoclonus) frequently developed late in the course of the illness (8). A prominent, symmetrical pulvinar high signal on T2-weighted and/or proton-density-weighted MRI has been reported in most vCJD patients (9). In the absence of any other more plausible explanation, patients showing these clinical and radiologic features should be investigated for vCJD. In such patients, a history of travel to a BSE-endemic area increases the clinical suspicion for vCJD. In vCJD, but not other forms of CJD, there is prominent involvement of the lymphoreticular tissues (10). A tonsil biopsy with demonstration of a characteristic abnormal prion protein by Western blot and immunohistochemistry can help establish a diagnosis of vCJD. The EEG in vCJD patients is typically normal or shows nonspecific abnormalities. All 105 vCJD patients tested in the United Kingdom were homozygous for methionine at the polymorphic codon 129 of the prion protein gene (R. Will, Western General Hospital, Edinburgh, Scotland, personal communication, 2002). The possible benefits of treating classic CJD and vCJD patients with quinacrine are under evaluation.

Physicians should report suspected vCJD cases to their local and state health departments. Because the clinical manifestations and age distribution of vCJD patients can overlap with those of classic CJD patients, a brain autopsy should be conducted in all such cases to distinguish suspected or diagnosed vCJD from classic CJD. A neuropathologic evaluation, in addition to helping to confirm the diagnosis, would help identify other potentially emerging prion diseases in humans. To facilitate neuropathologic studies of suspected or diagnosed prion diseases in humans, CDC, in collaboration with the

American Association of Neuropathologists, established the National Prion Disease Pathology Surveillance Center. Physicians are encouraged to use the free services of this pathology center to confirm the diagnosis in suspected vCJD or classic CJD patients. Information about the center is available at http://www.cjdsurveillance.com.

#### References

- Department of Health, United Kingdom. Monthly Creutzfeldt-Jakob disease statistics, October 2002. Available at: http://www.doh.gov.uk/ cjd/stats/oct02.htm.
- 2. Will RG, Ironside JW, Zeidler M, et al. A new variant of Creutzfeldt-Jakob disease in the UK. Lancet 1996;347:921–5.
- Belay ED, Potter ME, Schonberger LB. Relationship between transmissible spongiform encephalopathies in animals and humans. In: Task Force Report of the Council for Agricultural Science and Technology. Washington, DC: Council for Agricultural Science and Technology, October 2000; No. 136.
- Will RG, Alpers MP, Dormont D, Schonberger LB, Tateishi J. Infectious and sporadic prion diseases. In: Prusiner SB, ed. Prion Biology and Diseases. Cold Spring, New York: Cold Spring Laboratory Press, 1999.
- World Health Organization. World Health Organization infection control guidelines for transmissible spongiform encephalopathies: report of a World Health Organization consultation. Geneva, Switzerland: World Health Organization, March 1999. Available at http://www.who.int/emc-documents/tse/whocdscsraph2003c.html.
- 6. U.S. Food and Drug Administration. Revised preventive measures to reduce the possible risk of transmission of Creutzfeldt-Jakob disease and variant Creutzfeldt-Jakob disease by blood and blood products. Rockville, Maryland: U.S. Department of Health and Human Services, January 2002. Available at http://www.fda.gov/cber/gdlns/cjdvcjd.htm.
- Gibbons RV, Holman RC, Belay ED, Schonberger LB. Creutzfeldt-Jakob disease in the United States: 1979–1998. JAMA 2000;284:2322–3.
- Spencer MD, Knight RSG, Will RG. First hundred cases of variant Creutzfeldt-Jakob disease: retrospective case note review of early psychiatric and neurological features. BMJ 2002;324:1479–82.
- Zeidler M, Sellar RJ, Collie DA, et al. The pulvinar sign on magnetic resonance imaging in variant Creutzfeldt-Jakob disease. Lancet 2000;355:1412–8.
- 10. Hill AF, Butterworth RJ, Joiner S, et al. Investigation of variant Creutzfeldt-Jakob disease and other human prion diseases with tonsil biopsy samples. Lancet 1999;353:183–9.

# West Nile Virus Activity — United States, October 10–16, 2002, and Update on West Nile Virus Infections in Recipients of Blood Transfusions

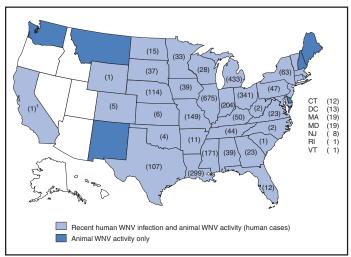
This report summarizes West Nile virus (WNV) surveillance data reported to CDC through ArboNET and by states and other jurisdictions as of 8 a.m. Mountain Daylight Time, October 16, 2002.

#### **WNV Surveillance**

During October 10-16, a total of 256 laboratory-positive human cases of WNV-associated illness were reported from Indiana (n=47), Nebraska (n=34), Michigan (n=32), Ohio (n=28), Illinois (n=21), Missouri (n=11), Pennsylvania (n=10), the District of Columbia (n=seven), Iowa (n=six), Kansas (n=six), Kentucky (n=six), Louisiana (n=six), Texas (n=six), Maryland (n=five), Georgia (n=four), South Dakota (n=four), Tennessee (n=four), Mississippi (n=three), New York (n=three), Virginia (n=three), Florida (n=two), Massachusetts (n=two), Minnesota (n=two), Connecticut (n=one), New Jersey (n=one), Vermont (n=one), and Wyoming (n=one). During this reporting period, Kansas, Vermont, and Wyoming reported their first human cases of WNV infection. During the same period, WNV infections were reported in 218 dead crows and 97 other dead birds. A total of 1,135 veterinary cases (1,026 equine and one other species) and 424 WNVpositive mosquito pools were reported.

During 2002, a total of 3,052 human cases with laboratory evidence of recent WNV infection have been reported from Illinois (n=675), Michigan (n=433), Ohio (n=341), Louisiana (n=299), Indiana (n=204), Mississippi (n=171), Missouri (n=149), Nebraska (n=114), Texas (n=107), New York (n=63), Kentucky (n=50), Pennsylvania (n=47), Tennessee (n=44), Alabama (n=39), Iowa (n=39), South Dakota (n=37), Minnesota (n=33), Wisconsin (n=28), Georgia (n=23), Virginia (n=23), Maryland (n=19), Massachusetts (n=19), North Dakota (n=15), the District of Columbia (n=13), Connecticut (n=12), Florida (n=12), Arkansas (n=11), New Jersey (n=eight), Kansas (n=six), Colorado (n=five), Oklahoma (n=four), North Carolina (n=two), West Virginia (n=two), California (n=one), Rhode Island (n=one), South Carolina (n=one), Vermont (n=one), and Wyoming (n=one) (Figure). Among the 2,661 patients for whom data were available, the median age was 56 years (range: 1 month-99 years); 1,416 (54%) were male, and the dates of illness onset ranged from June 10 to October 6. A total of 153 human deaths have been reported. The median age of decedents was 79 years (range: 27-99 years); 93 (61%) deaths were among men. In addition, 6,289 dead crows and 4,611 other dead birds with WNV infection were reported from 42 states and the District of Columbia; 6,427 WNV infections in mammals (6,418 equines, three canines, and six other species) have been reported from 35 states (Alabama, Arkansas, Colorado, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio,

FIGURE. Areas reporting West Nile virus (WNV) activity — United States, 2002\*



\* As of 8 a.m. Mountain Daylight Time, October 16, 2002.

† California has reported human WNV activity only.

Oklahoma, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, Wisconsin, and Wyoming). During 2002, WNV seroconversions have been reported in 342 sentinel chicken flocks from Florida, Iowa, Nebraska, Pennsylvania, and New York City; 4,434 WNV-positive mosquito pools have been reported from 26 states (Alabama, Arkansas, Connecticut, Delaware, Georgia, Illinois, Indiana, Iowa, Kentucky, Maryland, Massachusetts, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, South Dakota, Texas, Vermont, and Virginia), New York City, and the District of Columbia.

Additional information about WNV activity is available from CDC at http://www.cdc.gov/ncidod/dvbid/westnile/index.htm and http://www.cindi.usgs.gov/hazard/event/west nile/west nile.html.

# WNV Infections in Recipients of Blood Tranfusions

CDC, the Food and Drug Administration, and the Health Resources and Services Administration, in collaboration with blood collection agencies and state and local health departments, continue to investigate West Nile virus (WNV) infections in recipients of blood transfusion. During August 28–October 16, CDC received reports from 14 states of 25 patients with West Nile meningoencephalitis (WNME) and four with other WNV-associated illnesses diagnosed after receiving blood components in the month before illness onset. All 29 of these patients resided in areas with high levels

of WNV activity. CDC has been notified of one additional case, but demographic and clinical information is pending. Investigations are ongoing to determine whether transfusion was the source of WNV transmission. To date, four investigations provide evidence that WNV can be transmitted through blood transfusion.

Of the 29 cases, 14 (48%) were reported since October 1. Of the 24 patients for whom an illness onset date was specified, illness began in July (two patients), August (eight), September (13), and October (one); one additional patient, an organ donor, had West Nile viremia at the time of organ recovery in late July following receipt of multiple blood transfusions (1). Among these patients, the reason for hospitalization or the underlying conditions included a surgical procedure or obstetric delivery (eight); solid organ transplantation (four patients who received an organ from different donors who did not have evidence of WNV infection at the time of organ recovery); hematologic conditions (including myelodysplasia [three patients], acute myelogenous leukemia [five], acute lymphocytic leukemia [one], non-Hodgkin's lymphoma [one], thrombotic thrombocytopenic purpura [one]); and other medical conditions (six patients). These 29 patients received blood components from a median of 17 donors (range: two-185 donors). Among nine patients who died, WNME was the probable cause of death.

Among the four cases that provided evidence that WNV can be transmitted through blood transfusion, two patients developed confirmed WNME after receiving different blood components derived from a single blood donation that was subsequently found to have evidence of WNV (2). In followup testing, this donor seroconverted and developed WNV IgM antibody. In another case, WNV was isolated from a withdrawn unit of frozen plasma from the suspected donation, indicating that the virus can survive in some blood components (1). The donor of this plasma subsequently developed an acute febrile illness and seroconverted following the suspect collection. In a fourth case, a patient who had been hospitalized for 65 days developed WNME after receiving a component derived from a suspected donation that contained WNV RNA. Follow-up found that the donor had developed a febrile illness compatible with WNV-associated fever within days of the suspect donation; serology testing is pending.

Cases of WNV infection in patients who have received blood transfusions within the 4 weeks preceding illness onset should be reported to CDC through state and local public health authorities. Serum or tissue samples should be retained for later studies. In addition, cases of WNV infection in persons with illness onset within 2 weeks after blood donation should

be reported. Prompt reporting of these cases will facilitate withdrawal of potentially infectious blood components.

Additional information about WNV activity is available from CDC at http://www.cdc.gov/ncidod/dvbid/westnile/index.htm and http://www.cindi.usgs.gov/hazard/event/west\_nile/west\_nile.html.

#### References

- CDC. Update: investigations of West Nile virus infections in recipients of organ transplantation and blood transfusion. MMWR 2002;51:833–6.
- CDC. Update: investigation of West Nile virus infections in recipients of organ transplantation and blood transfusion—Michigan, 2002. MMWR 2002;51:879.

#### Notice to Readers

### Pneumococcal Vaccination for Cochlear Implant Recipients

CDC and the Food and Drug Administration, in collaboration with state health departments, are investigating the occurrence of bacterial meningitis among cochlear implant recipients (1,2). The implant, as a foreign body, and the design of the electrode are considered possible risk factors. Other potential risk factors for meningitis among cochlear implant recipients include a history of meningitis (a leading cause of sensorineural hearing loss), a history of recurrent otitis media, immunodeficiency, a pre-existing inner ear abnormality, and an occult cerebrospinal fluid leak.

As of October 4, 2002, a total of 53 cases of meningitis were reported in the United States among cochlear implant recipients (2). In the United States, approximately 21,000 persons have cochlear implants (3). Of the 23 cases for which bacterial culture results were available, 16 were caused by *Streptococcus pneumoniae* (pneumococcus) (2).

Vaccination against pneumococcal disease is recommended by the Advisory Committee on Immunization Practices (ACIP) for persons at increased risk for pneumococcal meningitis. Because preliminary data suggest a higher risk for pneumococcal meningitis in cochlear implant recipients, CDC recommends that all persons with cochlear implants receive age-appropriate vaccination against pneumococcal disease as recommended for other persons at high risk for invasive pneumococcal disease; recommendations will be reviewed after completion of the investigation. These persons should receive the 7-valent pneumococcal conjugate (Prevnar®) or 23-valent pneumococcal polysaccharide (Pneumovax® and PnuImune®) vaccine, or both, according to ACIP schedules for persons at high risk (4,5). During the current pneumococcal conjugate vaccine shortage, children aged <5 years with cochlear implants should be given the same priority for available vaccine as children in other high-risk groups (6). Additional information on the use of vaccines for cochlear implant recipients is available from CDC's National Immunization Program at http://www.cdc.gov/nip/issues/cochlear/cochlear-hcp.htm.

#### **References**

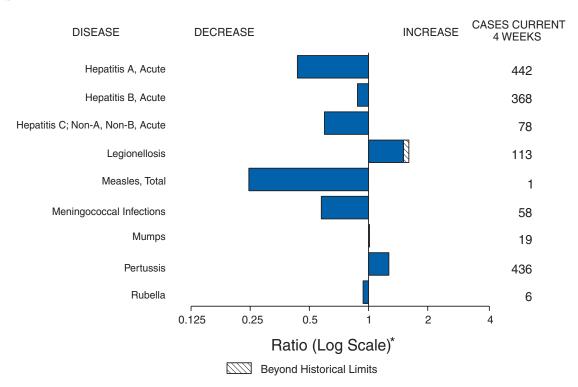
- 1. CDC. Cochlear implants and meningitis, frequently asked questions. Available at http://www.cdc.gov/ncbddd.
- Food and Drug Administration. Public health web notification: cochlear implant recipients may be at greater risk for meningitis. Available at http://www.fda.gov/cdrh/safety/cochlear.html.
- 3. National Institute on Deafness and Other Communication Disorders. Health information, hearing and balance. Available at http://www.nidcd.nih.gov/health/pubs\_hb/coch.htm.
- CDC. Preventing pneumococcal disease among infants and young children: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 2000;49(No. RR-9).
- CDC. Prevention of pneumococcal disease: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1997;46(No. RR-8).
- CDC. Updated recommendations on the use of pneumococcal conjugate vaccine in a setting of vaccine shortage—Advisory Committee on Immunization Practices. MMWR 2001;50:1140–2.

## Erratum: Vol. 51, No. 40

In the report "Vancomycin-Resistant Staphylococcus aureus—Pennsylvania, 2002," on page 902, reference 3 was incorrect. The reference should be:

 National Committee for Clinical Laboratory Standards. Methods for dilution antimicrobial susceptibility tests for bacteria that grow aerobically. 5th ed. Approved standard, M7-A5. Wayne, Pennsylvania: National Committee for Laboratory Standards, 2000.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending October 12, 2002, with historical data



<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.

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending October 12, 2002 (41st Week)\*

		Cum. 2002	Cum. 2001		Cum. 2002	Cum. 2001
Anthrax		2	4	Encephalitis: West Nile <sup>†</sup>	900	46
Botulism:	foodborne	11	33	Hansen disease (leprosy)†	61	53
	infant	43	77	Hantavirus pulmonary syndrome†	11	7
	other (wound & unspecified)	19	13	Hemolytic uremic syndrome, postdiarrheal <sup>†</sup>	155	137
Brucellosis†	, , ,	62	102	HIV infection, pediatric <sup>†§</sup>	137	147
Chancroid		57	29	Plague	-	2
Cholera		4	4	Poliomyelitis, paralytic	-	-
Cyclosporiasi	s <sup>†</sup>	160	127	Psittacosis†	17	12
Diphtheria		1	2	Q fever <sup>†</sup>	34	21
Ehrlichiosis:	human granulocytic (HGE)†	259	187	Rabies, human	2	1
	human monocytic (HME)†	129	97	Streptococcal toxic-shock syndrome <sup>†</sup>	64	62
	other and unspecified	7	5	Tetanus	18	26
Encephalitis:	California serogroup viral†	95	83	Toxic-shock syndrome	90	94
·	eastern equine <sup>†</sup>	2	8	Trichinosis	12	20
	Powassan <sup>†</sup>	-	-	Tularemia <sup>†</sup>	52	114
	St. Louis <sup>†</sup>	1	75	Yellow fever	1	-
	western equine†	2	-			

<sup>-:</sup> No reported cases.

<sup>\*</sup>Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

Not notifiable in all states.

SUpdated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update September 29, 2002.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 2002, and October 13, 2001 (41st Week)\*

										rrhagic	
	l AID	ns	Chlar	nydia <sup>†</sup>	Cryptos	poridiosis	01	57:H7		in Positive, p non-O157	
Reporting Area	Cum. 2002§	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	
JNITED STATES	31,555	30,610	594,396	604,247	2,180	3,108	2,744	2,535	131	116	
NEW ENGLAND	1,236	1,116	20,631	18,899	145	122	223	213	29	35	
/laine	27	36	1,322	1,046	10	15	32	25	5	1	
√t.	25 12	27 13	1,260 727	1,092 486	26 28	10 30	28 8	29 13	1	3 1	
∕ι. ∕lass.	629	595	8,549	8,086	28 50	47	104	106	9	9	
R.I.	82	76	2,146	2,322	16	4	12	11	-	1	
Conn.	461	369	6,627	5,867	15	16	39	29	14	20	
IID. ATLANTIC	7,170	7,965	68,162	65,357	252	279	193	191	-	-	
Jpstate N.Y.	482	1,079	13,321	10,520	101	82	146	123	-	-	
N.Y. City N.J.	4,225 1,117	4,361 1,345	22,355 10,141	23,704 10,651	104 9	102 14	11 36	15 53	-	_	
Pa.	1,346	1,180	22,345	20,482	38	81	Ň	Ň	-	-	
E.N. CENTRAL	3,291	2,223	102,866	111,628	672	1,417	685	647	14	7	
Ohio	663	424	23,697	29,369	106	143	131	141	12	5	
nd.	422	264	13,097	12,282	35	69	55	71	-	-	
II.	1,556	989	27,835	33,692	69	464	144	155	-	-	
∕lich. Vis.	500 150	411 135	25,666 12,571	23,337 12,948	86 376	157 584	111 244	80 200	2	2	
V.N. CENTRAL Jinn.	507 113	636 105	33,370 7,497	30,796 6,454	337 179	430 137	408 144	416 164	29 25	33 27	
owa	67	73	4,086	3,967	37	74	99	70	-	-	
Лo.	229	302	11,960	10,988	32	40	54	52	N	N	
I. Dak.	1	2	740	806	6	12	3	18	-	2	
S. Dak. Nebr.	4 44	22 61	1,710 2,362	1,403 2,531	27 43	6 158	35 44	37 56	1 3	3 1	
ans.	49	71	5,015	4,647	13	3	29	19	-	-	
S. ATLANTIC	9,368	9,405	111,873	117,270	270	305	239	195	36	22	
Del.	155	202	2,030	2,230	3	6	7	4	-	1	
Лd.	1,412	1,494	12,628	11,944	20	32	23	26	-	-	
).C.	453	639	2,576	2,564	4	11	-	-	-	-	
/a. V. Va.	612 72	763 59	12,245 1,859	14,188 1,854	11 2	22 2	52 7	46 10	9	2	
N.C.	782	699	19,077	17,684	30	24	36	41	-	-	
S.C.	649	565	9,451	12,488	6	7	5	13	-	-	
Ga.	1,356	1,027	22,729	25,178	121	135	51 50	30	10	9	
-la.	3,877	3,957	29,278	29,140	73	66	58	25	17	10	
E.S. CENTRAL Ky.	1,469 253	1,401 278	37,349 6,557	39,097 7,007	103 5	41 4	88 27	119 59	-	-	
Tenn.	620	438	12,630	11,590	50	12	37	35	-	_	
Ala.	298	347	10,137	10,835	42	13	17	16	-	-	
Miss.	298	338	8,025	9,665	6	12	7	9	-	-	
W.S. CENTRAL	3,336	3,087	82,274	84,469	32	110	55	163	-	-	
Ark.	190	156	5,133	5,953	7	6	9	13	-	-	
∟a. Okla.	815 156	652 187	15,448 8,658	14,500 8,123	5 15	7 12	2 19	7 26	-	-	
Tex.	2,175	2,092	53,035	55,893	5	85	25	117	-	-	
MOUNTAIN	1,043	1,068	37,199	36,207	135	182	301	235	17	13	
Mont.	9	14	1,712	1,493	4	28	25	16	-	-	
daho	24	17	1,966	1,511	27	20	42	54	8	2	
Nyo.	8	3	706	642 10,278	9 40	6 37	12	8 91	2	2	
Colo. N. Mex.	212 65	244 107	10,983 5,123	4,943	49 18	37 21	82 9	81 11	3 3	6 3	
Ariz.	444	417	11,944	11,323	12	7	33	21	1	-	
Jtah	53	87	1,982	1,931	12	58	74	29	-	-	
Nev.	228	179	2,783	4,086	4	5	24	15	-	-	
PACIFIC	4,134	3,709	100,672	100,524	234	222	552	356	6	6	
Vash.	386	385 154	11,443	10,660	43	U 46	135	98 63	-	-	
Oreg. Calif.	260 3,379	154 3,098	5,320 77,674	5,754 78,866	31 158	46 172	186 188	62 175	6	6	
Alaska	22	17	2,806	2,081	-	1	6	4	-	-	
Hawaii	87	55	3,429	3,163	2	3	37	17	-	-	
Guam	2	9	-	323	-	-	N	N	-	-	
P.R.	915	932	1,870	2,052	-	-	-	2	-	-	
V.I. Amer. Samoa	67 U	2 U	125 U	124 U	Ū	Ū	Ū	- U	- U	U	
anici. Janiua	2	Ü	138	Ü	-	U	-	Ü	-	U	

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

\* Incidence data for reporting year 2001 and 2002 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 — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update September 29, 2002.

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 2002, and October 13, 2001 (41st Week)\*

	Esche	richia coli						s influenzae, isive	
	Enterohi Shiga To	emorrhagic xin Positive,	-	_			Ages,	Age <5 Serot	уре
	Not Sei	rogrouped Cum.	Giardiasis Cum.	Gond Cum.	rrhea Cum.	Cum.	erotypes Cum.	Cum.	Cum.
Reporting Area	2002	2001	2002	2002	2001	2002	2001	2002	2001
UNITED STATES	30	13	12,904	251,296	279,775	1,184	1,164	17	20
NEW ENGLAND Maine	-	1	1,317 165	5,782 110	5,325 107	82 1	87 2	-	1
N.H.	-	-	32	104	146	7	4	-	-
Vt. Mass.	-	1	106 658	80 2,591	53 2,484	7 42	3 39	-	- 1
R.I.	-	-	128	699	644	10	3	-	-
Conn.	-	-	228	2,198	1,891	15	36	-	-
MID. ATLANTIC Upstate N.Y.	-	1	2,799 949	31,224 6,820	32,323 6,547	215 98	172 56	3 2	3
N.Y. City	-	-	1,050	9,255	9,965	51	43	-	-
N.J. Pa.	-	- 1	275 525	5,682 9,467	5,530 10,281	45 21	40 33	- 1	3
E.N. CENTRAL	11	5	2,436	49,834	58,879	176	217	3	2
Ohio	10	5	731	13,138	16,397	65	56	-	1
Ind.	-	-	-	5,649	5,367	36 57	43 77	1	-
III. Mich.	1	-	564 685	14,944 11,582	18,756 13,629	57 11	77 12	2	-
Wis.	-	-	456	4,521	4,730	7	29	-	1
W.N. CENTRAL	-	3	1,571	13,050	13,087	51	58	1	1
Minn. Iowa	-	-	632 243	2,291 944	2,053 1,042	37 1	32	1 -	-
Mo.	N	N	378	6,817	6,770	10	16	-	-
N. Dak. S. Dak.	-	3	11 58	42 205	37 226	-	7	- -	-
Nebr.	-	-	122	711	912	-	2	-	1
Kans.	-	-	127	2,040	2,047	3	1	<del>-</del>	-
S. ATLANTIC Del.	-	-	2,226 42	64,302 1,217	73,015 1,342	306	288	2	1
Md.	-	-	100	6,770	7,119	71	72	2	-
D.C. Va.	-	-	32 206	2,126 7,510	2,293 8,412	- 27	- 25	-	-
W. Va.	-	-	45	737	527	14	14	-	1
N.C. S.C.	-	-	- 112	12,502 5,730	13,746 9,019	30 12	42 4	-	-
Ga.	-	-	709	12,526	13,838	78	73	-	-
Fla.	-	-	980	15,184	16,719	74	58	-	-
E.S. CENTRAL Ky.	8 8	2 2	300	21,473 2,792	25,261 2,779	55 4	63 2	1	-
Tenn.	-	-	137	7,352	7,801	28	33	-	-
Ala. Miss.	-	-	163	6,535 4,794	8,386 6,295	16 7	26 2	1	-
W.S. CENTRAL	-	-		36,692	41,662	, 51	44	2	-
Ark.	-	-	186 130	3,044	3,712	2	-	-	-
La.	-	-	3	9,528	10,040	7	8	-	-
Okla. Tex.	-	-	53 -	3,710 20,410	3,734 24,176	37 5	35 1	2	1
MOUNTAIN	11	1	1,299	7,904	8,197	140	125	2	7
Mont.	-	-	74	76	84	-	-	-	-
ldaho Wyo.	-	-	99 25	70 49	61 64	2 1	1 1	-	-
Colo.	11	1	422	2,708	2,483	26	34	-	-
N. Mex. Ariz.	-	-	131 173	1,047 2,939	787 3,076	21 64	20 52	1	4
Utah	-	-	257	198	148	16	6	-	-
Nev. PACIFIC	-	-	118	817	1,494	10	11	1	2
Wash.	-	-	770 289	21,035 2,269	22,026 2,372	108 3	110 2	3 2	4
Oreg.	-	-	324	676	904	51	32	-	-
Calif. Alaska	-	-	84	17,087 468	17,932 332	22 1	49 6	1 -	4
Hawaii	-	-	73	535	486	31	21	-	-
Guam	-	-	-	-	39	-	<del>-</del>	-	-
P.R. V.I.	-	-	33	281 31	468 21	1 -	1 -	-	-
Amer. Samoa	U	U	Ų	U	U	U	U	U	U
C.N.M.I.	-	U	1	13	U	-	U	-	U

N: Not notifiable. U: Unavailable. -: No reported cases.

\* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 2002, and October 13, 2001 (41st Week)\*

(41st Week)*	Há	aemophilus in	fluenzae, Invas	ive									
		<u> </u>	5 Years		Hepatitis (Viral, Acute), By Type								
	Non-Se	rotype B	Unknown S	erotype		A		В	C; Non-A	l, Non-B			
Departing Avec	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.			
Reporting Area UNITED STATES	<b>2002</b> 193	<b>2001</b> 190	<b>2002</b> 14	<b>2001</b> 24	<b>2002</b> 6,599	7,875	<b>2002</b> 5,337	<b>2001</b> 5,596	2002 12,103	<b>2001</b> 3,186			
NEW ENGLAND	9	15	-		245	541	200	105	20	31			
Maine	-	-	-	-	8	10	8	5	-	-			
N.H. √t.	-	1 -	-	-	11 1	15 12	18 4	11 5	12	6			
Mass.	6	7	-	-	110	257	110	22	8	25			
R.I. Conn.	3	7	-	-	30 85	46 201	24 36	22 40	-	-			
MID. ATLANTIC	27	25	_	3	816	1,004	1,147	1,075	1,340	1,051			
Upstate N.Y.	11	7	-	1	151	203	107	98	56	24			
N.Y. City N.J.	8 5	7 4	-	-	370 114	353 240	578 283	502 231	- 1,257	- 971			
Pa.	3	7	-	2	181	208	179	244	27	56			
E.N. CENTRAL	27	34	1	2	872	977	638	740	79	141			
Ohio Ind.	7 7	9 6	1 -	1	274 39	187 87	81 38	85 42	7	8 1			
II.	11	13	-	-	234	367	105	116	12	9			
Иісh. Vis.	1 1	6	-	1	190 135	272 64	414	461 36	60	123			
W.N. CENTRAL	3	3	3	6	257	314	175	168	680	936			
Minn.	3	2	1	2	37	34	21	17	-	9			
owa Mo.	-	-	2	4	67 72	29 70	12 97	19 96	1 665	915			
N. Dak.	-	1	-	-	1	3	4	1	-	-			
S. Dak. Nebr.	-	-	-	-	3 17	2 31	1 22	1 23	1 9	- 5			
Kans.	-	-	-	-	60	145	18	11	4	7			
S. ATLANTIC	47	40	1	6	1,967	1,737	1,358	1,149	139	80			
Del. Md.	4	7	-	1	11 247	13 195	7 99	21 116	5 6	8 7			
D.C.	-	-	-	-	65	43	18	11	-	-			
√a. N. Va.	4 1	5 1	1	1	107 17	109 18	160 18	139 20	9 2	- 9			
N.C.	3	2	-	4	190	173	194	173	22	18			
S.C. Ga.	2 17	1 16	-	-	55 385	64 775	102 338	26 332	4 29	6			
a. Fla.	16	8	-	-	890	347	422	311	62	32			
E.S. CENTRAL	11	12	1	3	208	323	279	379	162	175			
Ky. Tenn.	1 6	6	-	1 1	41 89	114 117	45 103	47 187	3 25	9 59			
Ala.	3	5	1	1	32	68	61	75	25 5	4			
Miss.	1	1	-	-	46	24	70	70	129	103			
W.S. CENTRAL Ark.	12 1	7	-	-	423 31	726 61	419 68	619 76	9,541 5	615 9			
La.	2	2	-	-	39	77	65	102	34	129			
Okla. Tex.	7 2	5	-	-	46 307	101 487	42 244	83 358	5 9,497	4 473			
MOUNTAIN	34	20	7	1	480	603	498	379	54	46			
∕lont.	-	-	-	-	13	10	8	3	-	1			
daho Vyo.	1	-	-	-	24 3	51 7	6 17	10 2	- 5	2 5			
Colo.	2	2	-	-	70	76	63	82	17	6			
N. Mex. Ariz.	6 16	8 8	1 5	1	24 256	34 309	122 192	108	1 4	11 9			
Jtah	5	2	-	-	256 51	59	46	115 20	4	3			
Nev.	4	-	1	-	39	57	44	39	23	9			
PACIFIC Wash.	23 1	34 1	1	3 1	1,331 135	1,650 114	623 53	982 115	88 17	111 19			
Oreg.	5	5	-	-	55	90	99	132	15	13			
Calif.	13	26	1	1	1,130	1,416	462	709	56	79			
Alaska Hawaii	1 3	1 1	-	1	9 2	14 16	3 6	9 17	-	-			
Guam	-	-	-	-	-	1	-	-	-	-			
P.R. V.I.	-	1	-	-	87	174	75	218	-	1			
Amer. Samoa	Ū	U	Ū	U	Ū	Ū	U	Ū	Ū	Ū			
C.N.M.I.	- H:Hnavailable	U	-	U	-	U	37	U	-	U			

N: Not notifiable. U: Unavailable. -: No reported cases.

\* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 2002, and October 13, 2001 (41st Week)\*

(41st Week)*	1		ı		1				Mea	alaa
	Legior	ellosis	Liste	1	Lyme	Disease	Ma	laria	To	
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	810	839	428	479	11,967	12,347	988	1,201	22 <sup>†</sup>	106§
NEW ENGLAND	75	54	48	43	3,475	3,576	50	78	-	5
Maine N.H.	2 4	7 8	5 4	4	53 203	72	5 7	4 2	-	-
Vt.	30	5	3	2	27	16	4	1	-	1
Mass. R.I.	26 2	19 6	24 1	22 1	961 288	1,040 413	15 5	42 7	-	3 -
Conn.	11	9	11	14	1,943	2,035	14	22	-	1
MID. ATLANTIC Upstate N.Y.	216 71	200 54	122 50	88 24	6,974 4,074	6,690 2,680	231 36	364 53	7 1	19 4
N.Y. City	43	39	25	20	125	61	145	218	6	6
N.J. Pa.	21 81	20 87	24 23	16 28	866 1,909	1,888 2,061	28 22	54 39	-	1 8
E.N. CENTRAL	199	230	45	74	68	673	111	147	3	10
Ohio	88	93	19	12	50	33	17	21	1	3
Ind. III.	17 -	17 23	6 1	8 22	18	22 30	11 28	15 61	2	4 3
Mich.	66	58	15	22 10	- U	5	43	32 18	-	-
Wis. W.N. CENTRAL	28 42	39 44	4 14	15	197	583 340	12 51	32	3	4
Minn.	11	9	3	-	119	277	16	6	1	2
Iowa Mo.	9 11	8 18	1 6	2 8	31 35	27 30	4 14	6 12	2	2
N. Dak.	-	1	1	-	-	-	1	-	-	-
S. Dak. Nebr.	2 9	3 4	1 1	1	1 5	4	1 5	2	-	-
Kans.	-	1	1	4	6	2	10	6	-	-
S. ATLANTIC Del.	154	141	65	60 2	1,058	836 144	300 3	243 2	2	5
Md.	7 30	8 30	14	11	138 568	509	96	100	-	3
D.C. Va.	5 18	7 20	7	- 11	20 129	10 110	17 28	13 43	-	- 1
W. Va.	N	N	-	5	16	10	3	1	-	-
N.C. S.C.	10 6	7 10	6 8	4 5	103 18	35 5	19 7	13 6	-	-
Ga.	12	11	10	11	2	-	69	39	-	1
Fla. E.S. CENTRAL	66 28	48 52	20 14	11 21	64 38	13 56	58 19	26 33	2	2
Ky.	11	12	2	7	20	22	7	13	-	2
Tenn. Ala.	10 7	24 12	8 4	8 6	18	19 8	3 4	11 5	-	-
Miss.	-	4	-	-	-	7	5	4	-	-
W.S. CENTRAL	8	20	12	31	18	77	14	73	2	1
Ark. La.	1	6	-	1 -	3 2	7	2 4	3 6	-	-
Okla. Tex.	3 4	3 11	7 5	2 28	- 13	- 70	8	2 62	2	- 1
MOUNTAIN	36	43	26	32	18	10	40	47	1	2
Mont.	3	-	-	-	-	-	2	2		- -
ldaho Wyo.	1 1	3 2	2	1	4 1	5 1	-	3	- -	1 -
Colo.	6	13	6	9 7	3	-	21	21	-	-
N. Mex. Ariz.	2 8	2 15	2 12	6	1 2	-	2 7	3 7	-	1
Utah Nev.	11 4	5 3	3 1	2 6	6 1	1 3	5 3	3 8	- 1	-
PACIFIC	52	5 55	82	115	121	89	172	184	4	58
Wash.	5	7	8	7	9	7	16	8	-	15
Oreg. Calif.	N 46	N 42	8 58	11 91	14 95	9 71	9 138	13 151	3	3 33
Alaska	1	1	-	-	3	2	2 7	1	-	-
Hawaii Guam	- -	5	8	6	N	N	-	11 1	1	7
P.R.	-	2	1	-	N	N	-	5	-	1
V.I. Amer. Samoa	Ū	- U	- U	Ū	- U	Ū	- U	Ū	- U	- U
C.N.M.I.	-	Ŭ	-	Ü	<u> </u>	ŭ	-	Ŭ	-	ŭ

N: Not notifiable. U: Unavailable. -: No reported cases.

\* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

† Of 22 cases reported, 10 were indigenous and 12 were imported from another country.

§ Of 106 cases reported, 53 were indigenous and 53 were imported from another country.

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 2002, and October 13, 2001 (41st Week)\*

(41st Week)*								
	Meningo Dise		Mur	mps	Pert	ussis	Rabies	, Animal
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	1,344	1,868	209	191	5,853	4,199	4,810	5,775
NEW ENGLAND	79 7	86	7	1	497	385	750	596
Maine N.H.	11	3 1 <u>1</u>	4	-	12 16	21 15	49 40	55 19
Vt. Mass.	4 39	5 47	2	1	98 333	28 299	85 234	55 219
R.I. Conn.	5 13	4 16	- 1	-	13 25	5 17	66 276	53 195
MID. ATLANTIC	127	208	22	23	334	284	904	1,074
Upstate N.Y. N.Y. City	37 21	53 35	5 1	3 11	250 10	118 46	565 10	650 28
N.J.	25	34	-	3	3	18	152	162
Pa. E.N. CENTRAL	44 178	86 289	16 25	6 23	71 707	102 664	177 135	234 130
Ohio	68	75	8	1	349	253	33	42
Ind. III.	28 36	33 73	2 7	1 16	103 113	67 72	30 30	2 24
Mich. Wis.	34 12	63 45	7 1	3 2	43 99	103 169	42	44 18
W.N. CENTRAL	122	124	15	7	563	212	329	314
Minn. Iowa	29 18	18 25	3 1	3 -	263 127	70 23	36 62	40 73
Mo. N. Dak.	41 -	43 6	5 1	- -	116 -	87 4	45 12	37 33
S. Dak. Nebr.	2 25	5 13	-	1	6 6	4 4	65	44 4
Kans.	7	14	5	3	45	20	109	83
S. ATLANTIC Del.	243 7	288 3	23	33	348 2	198	1,946 24	1,990 30
Md. D.C.	7	38	5	5	55 2	33 1	199	409
Va. W. Va.	36 4	33	3	6	117 30	35 2	397	373
N.C.	29	12 60	1	4	38	58	149 592	118 473
S.C. Ga.	26 29	29 43	2 4	5 8	40 18	31 20	113 303	94 341
Fla.	105	70	8	5	46	18	169	152
E.S. CENTRAL Ky.	77 12	119 20	11 3	7 1	209 79	132 38	139 24	192 25
Tenn. Ala.	32 20	53 30	2 3	1 -	92 31	56 34	93 22	106 57
Miss.	13	16	3	5	7	4	-	4
W.S. CENTRAL Ark.	166 23	279 19	16	10	1,415 439	433 34	104 3	928
La. Okla.	28 19	67 26	1	2	7 66	7 23	- 101	7 56
Tex.	96	167	15	8	903	369	-	865
MOUNTAIN Mont.	73 2	83 4	16	14 1	739 5	1,168 30	258 16	236 31
Idaho Wyo.	3	7 5	2	1	62 10	169 1	35 18	28 28
Colo.	21	31	2	3	297	256	58	-
N. Mex. Ariz.	4 23	10 13	1 1	2 1	148 106	127 496	7 108	15 119
Utah Nev.	4 16	7 6	6 4	1 4	68 43	74 15	10 6	14 1
PACIFIC	279	392	74	73	1,041	723	245	315
Wash. Oreg.	53 38	57 50	N	1 N	357 166	128 46	13	3
Calif. Alaska	177 4	272 2	60	34 1	497 4	510 9	208 24	274 38
Hawaii	7	11	14	37	17	30	-	-
Guam P.R.	- 5	- 5	-	1	2	-	49	- 75
V.I. Amer. Samoa	Ū.	- U	- U	U	- U	- U	U	U
C.N.M.I.	-	Ŭ	-	ŭ	1	ŭ	-	Ŭ

N: Not notifiable. U: Unavailable. -: No reported cases.

\* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 2002, and October 13, 2001 (41st Week)\*

(41st Week)*				Ru	bella			
		/lountain d Fever	Rub	olla	Cong	enital pella	Salmor	ollosis
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	763	478	13	20	2	-	30,671	31,343
NEW ENGLAND	3	3	-	-	-	-	1,742	1,989
Maine	-	-	-	-	-	-	113	153
N.H. Vt.	-	1	-	-	-	-	113 67	146 67
Mass.	-	2	-	-	-	-	969	1,143
R.I.	3	-	-	-	-	-	129	110
Conn.	-		-	-	-	-	351	370
MID. ATLANTIC Upstate N.Y.	36 7	28 2	1	8 1	-	-	3,799 1,233	4,176 949
N.Y. City	8	2	-	6	-	-	1,061	1,056
N.J.	9	7	-	1	-	-	562	999
Pa.	12	17	-	-	-	-	943	1,172
E.N. CENTRAL Ohio	15	15 1	1	2	-	-	4,222 1,120	4,104 1,080
Ind.	10 2	1	-	-	-	-	372	433
III.	-	12	-	2	-	-	1,322	1,173
Mich.	3	1	1	-	-	-	707	714
Wis.	-	-	-	-	-	-	701	704
W.N. CENTRAL Minn.	93	62	-	3	-	-	2,049 467	1,855 518
lowa	3	2	-	1	-	-	390	276
Mo.	85	57	-	1	-	-	710	491
N. Dak.	1	1	-	-	-	-	25	54
S. Dak. Nebr.	1 4	2	-	-	-	-	88 126	134 134
Kans.	-	-	-	1	-	-	243	248
S. ATLANTIC	403	230	5	4	-	-	8,145	7,134
Del.	4	9	-	-	-	-	70	83
Md. D.C.	46	36	-	1	-	-	760 62	653 68
Va.	31	19	-	-	-	-	840	1,105
W. Va.	2	-	-	-	-	-	106	102
N.C.	232	126	-	-	-	-	1,129	1,055
S.C. Ga.	56 21	27 9	-	2	-	-	612 1,462	672 1,370
Fla.	11	4	5	1	-	-	3,104	2,026
E.S. CENTRAL	88	95	-	-	1	-	2,360	2,162
Ky.	5	2	-	-	-	-	283	301
Tenn. Ala.	64 16	67 13	-	-	1	-	617	517 575
Miss.	3	13	-	-	-	-	658 802	575 769
W.S. CENTRAL	106	34	2	1		_	2,504	4,032
Ark.	45	5	-	-	-	-	764	735
La.	-	2	-	-	-	-	516	714
Okla. Tex.	61	27	2	1	-	-	401 823	383 2,200
				'	-	-		
MOUNTAIN Mont.	13 1	10 1	1	-	-	-	1,787 76	1,744 60
Idaho	-	i	-	-	-	-	116	114
Wyo.	4	2	-	-	-	-	58	53
Colo. N. Mex.	2 1	1 1	-	-	-	-	471 251	484 232
Ariz.	-	-	-	-	-	-	492	472
Utah	<u>-</u>	3	1	-	-	-	165	184
Nev.	5	1	-	-	-	-	158	145
PACIFIC	6	1	3	2	1	-	4,063	4,147
Wash. Oreg.	2	- 1	-	- -	-	- -	407 283	405 230
Calif.	4	-	3	1	-	-	3,094	3,184
Alaska	-	-	-	-	<del>.</del>	-	50	33
Hawaii	-	-	-	1	1	-	229	295
Guam	-	-	-	-	-	-	-	19
P.R. V.I.	-	-	-	3	-	-	171	752
Amer. Samoa	Ū	Ū	Ū	Ū	Ū	Ū	Ū	Ū
		U		U		U	25	U

N: Not notifiable. U: Unavailable. -: No reported cases.

\* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 2002, and October 13, 2001 (41st Week)\*

(41st Week)*	Shiq	ellosis	Streptococo Invasive,			s pneumoniae, ant, Invasive		s pneumoniae, (<5 Years)
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	13,377	14,880	3,319	3,001	1,739	2,147	189	338
NEW ENGLAND	266	257	155	190	17	104	2	36
Maine N.H.	6 11	6 6	20 30	10 N	-	-	- N	- N
Vt. Mass.	1 166	7 181	9 81	13 57	4 N	7 N	1 N	- N
R.I.	14	17	15	12	13	4	1	3
Conn.	68	40	-	98	-	93	-	33
MID. ATLANTIC Upstate N.Y.	1,041 229	1,229 405	547 254	548 223	91 79	138 132	53 53	86 86
N.Y. City	330 302	344 239	130 116	150 110	U N	U N	U	U
N.J. Pa.	180	239	47	65	12	6	N -	N -
E.N. CENTRAL	1,399	3,548	581	677	180	149	81	98
Ohio Ind.	520 77	2,363 178	184 44	171 54	43 132	- 149	11 45	- 47
III. Mich.	535	489	105	219	2 3	-	-	51
Wis.	138 129	255 263	248	182 51	N N	N	N 25	N -
W.N. CENTRAL	814	1,450	201	317	170	124	39	52
Minn. Iowa	177 101	351 331	103	141	56 N	55 N	39 N	43 N
Mo. N. Dak.	134 15	268 20	41	67 17	5 1	9 6	-	-
S. Dak.	150	350	12	11	1	3	-	9
Nebr. Kans.	166 71	67 63	16 29	34 47	29 78	16 35	N N	N N
S. ATLANTIC	4,891	2,022	690	492	1,065	1,147	5	5
Del.	177	13	2	2	3	6	N	N
Md. D.C.	917 48	127 49	117 6	N 21	N 48	N 5	N 1	N 3
Va. W. Va.	715 9	260 8	66 17	67 18	N 37	N 37	N 4	N 2
N.C.	313	290	110	125	N	N	U	U
S.C. Ga.	96 1,234	221 329	31 147	9 156	153 262	235 343	N N	N N
Fla.	1,382	725	194	94	562	521	N	N
E.S. CENTRAL Ky.	1,069 119	1,300 577	90 18	94 34	115 13	205 24	- N	- N
Tenn.	76	79	72	60	102	180	N	N
Ala. Miss.	589 285	182 462	-	-	- -	1 -	N -	N -
W.S. CENTRAL	1,156	2,340	106	276	63	242	5	61
Ark. La.	155 299	494 198	5	1	6 57	14 228	2	- 61
Okla.	437	52	38	37	N	N	3	-
Tex. MOUNTAIN	265 683	1,596 764	63 471	238 337	N 38	N 34	4	-
Mont.	3	4	-	-	-	-	-	
ldaho Wyo.	14 8	33 7	9 7	7 11	N 9	N 5	N -	N -
Colo.	144	196	120	130	-	-	-	-
N. Mex. Ariz.	138 307	107 300	89 217	68 118	29 -	27 -	N	N
Utah Nev.	28 41	49 68	29	3	-	2	4	-
PACIFIC	2,058	1,970	478	70	- -	4	-	_
Wash.	129	159	65	-	-	-	N	N
Oreg. Calif.	83 1,789	92 1,662	N 351	N -	N N	N N	N N	N N
Alaska Hawaii	6 51	6 51	62	- 70	-	- 4	N -	N -
Guam	-	37	-	1	_	- -	_	_
P.R.	7	15	N	Ň	-	-	N	N
V.I. Amer. Samoa	U	Ū	U	Ū	-	-	Ū	U
C.N.M.I.	17	U reported eaces	-	U		-	-	U

N: Not notifiable. U: Unavailable. -: No reported cases.

\* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 2002, and October 13, 2001 (41st Week)\*

(41st Week)*		Sun	hilis		1		Тур	hoid
	Primary & S		ı	genital	Tubero	culosis		ver
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	4,848	4,700	250	401	9,110	10,727	201	285
NEW ENGLAND	111	47	-	4	277	354	15	13
Maine N.H.	2 4	1	-	-	10 10	15 13	-	1 2
Vt. Mass.	1 78	2 26	-	- 3	- 155	4 184	9	9
R.I.	6	8	-	-	29	49	-	-
Conn. MID. ATLANTIC	20 545	10 406	- 45	1 64	73 1,651	89 1,793	6 46	1 99
Upstate N.Y.	26	15	5	4	227	276	8	15
N.Y. City N.J.	330 114	221 101	19 20	30 30	845 395	892 395	23 11	41 36
Pa.	75	69	1	-	184	230	4	7
E.N. CENTRAL Ohio	845 122	819 65	37 2	55 2	946 151	1,094 215	18 6	31 3
Ind.	57	129	-	8	88	77	2	2
III. Mich.	256 391	287 316	26 9	36 5	469 197	513 227	1 4	17 5
Wis.	19	22	-	4	41	62	5	4
W.N. CENTRAL Minn.	80 38	82 30	-	9 2	425 179	424 174	8 3	13 6
Iowa Mo.	2 22	4 22	-	- 5	24 110	34 109	- 1	- 7
N. Dak.	-	-	-	-	1	3	-	-
S. Dak. Nebr.	3	7	<del>-</del> -	-	9 20	12 29	4	-
Kans.	15	19	-	2	82	63	-	-
S. ATLANTIC Del.	1,255 10	1,614 11	62	98	1,787 13	1,982 15	32	35
Md.	149	203	13	3	222	174	7	9
D.C. Va.	48 51	32 83	1 1	2 4	145	51 198	1	10
W. Va. N.C.	2 228	3 375	- 18	- 12	27 275	25 267	- 1	2
S.C.	98	199	7	20 22	141	143	-	-
Ga. Fla.	271 398	310 398	8 14	35	313 651	361 748	8 15	9 5
E.S. CENTRAL	381	512	12	27	574	655	4	1
Ky. Tenn.	77 139	38 263	3 3	16	105 228	102 240	4 -	1
Ala. Miss.	131 34	95 116	4 2	5 6	161 80	211 102	-	-
W.S. CENTRAL	656	573	53	66	1,330	1,628	4	15
Ark. La.	25 121	30 134	2	6	101	119 100	-	-
Okla.	51	50	3	5	111	119	4	-
Tex. MOUNTAIN	459 223	359 175	48 12	55 26	1,118 274	1,290 426	10	15 8
Mont.	-	-	-	-	6	6 7	-	1
ldaho Wyo.	1 -	1 1	-	-	9 3	3	-	-
Colo. N. Mex.	33 26	20 15	1 -	1 2	48 21	103 45	5 1	1 -
Ariz.	150	124	11	23	150	168	-	1
Utah Nev.	6 7	8 6	-	-	24 13	29 65	2	4
PACIFIC	752	472	29	52	1,846	2,371	64	70
Wash. Oreg.	48 14	41 13	1	-	180 86	189 84	4 2	4 7
Calif. Alaska	682	407	26	52	1,423 40	1,945 40	54 -	56 1
Hawaii	8	11	1	-	117	113	4	2
Guam P.R.	199	5 209	- 13	1 9	33	47 95	-	2
V.I.	1	- U	- U	-	-	-	-	-
Amer. Samoa C.N.M.I.	U 15	U	-	U U	U 32	U U	U -	U U

N: Not notifiable. U: Unavailable. -: No reported cases.

\* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE III. Deaths in 122 U.S. cities,\* week ending October 12, 2002 (41st Week)

Worcester, Mass.	TABLE III. Deaths	111 122 0			By Age (Y		# 1Z,	2002 (4)	St Week)	1	All	Causes, I	By Age (	Years)		Т
NEW PERLAND	Reporting Area		>65	45-64	25-44	1-24	<1		Reporting Area		>65	45-64	25-44	1-24	<1	
Bestor, Masses.    152   97   40   8   5   1   13   13   13   13   14   15   14   15   14   15   15   15		•						<u> </u>				<u> </u>				
Cambridge, Mass. 18 18 16 - 1 1 - 2 Charlotte, N.C. 125 90 18 12 2 3 11 1 3 5 8 1																
Fail Fliwer, Mass. 17 14 3 3 4 4   Jacksonville, Flia. 143 93 31 11 3 5 5 8 8 1	Bridgeport, Conn.	30	22	5	3	-	-	-	Baltimore, Md.	150	90	40	11	5		13
Hartford, Conn. 50					1	1	-									
Lovell, Miass. 25 20 5 5 3 3   Morfolk, Va. 46 28 7 4 6 3 1 1 3   Morfolk Property Company of the Providence, R. 1	,					-	-									
Lynn. Mass.					7	1	-									
New Bedroff, Mass. 25					-	-	-									
New Haven, Conn.  32					-	-	_									
Providence, R.I.  V. U. U. U. U. U. U. U. Tampa, Fla.  Springfield, Mass.  6 3 2 1 1 Withington, D.C. 299 167 2 28 17 12 4  Willimington, Del.  11 7 4 3  Willimington, Del.  11 7 4 4  Willimington, Del.  11 7 4 4  Willimington, Del.  11 7 4	,				1	_	_					-	-			
Somerville, Mass. 36 6 3 2 2 1 Washington, D.C. 299 167 72 28 17 12 4 3 Waterbury, Conn. 36 29 3 4 4 6 6 18 11 7 4 3 3 Waterbury, Conn. 36 29 3 4 4 6 6 18 11 7 57 Waterbury, Conn. 36 29 3 4 4 6 18 11 7 57 Waterbury, Conn. 36 29 3 4 4 6 18 11 7 57 Waterbury, Conn. 36 29 3 4 5 1 6 18 11 7 57 Waterbury, Conn. 36 29 3 4 5 1 6 18 11 7 57 Waterbury, Conn. 36 29 3 4 5 1 6 18 11 7 57 Waterbury, Conn. 36 29 3 4 5 1 8 4 Waterbury, Conn. 36 29 3 4 5 1 8 4 Waterbury, Conn. 36 25 26 8 Waterbury, Conn. 36 25 26 8 Waterbury, Conn. 36 25 26 8 Waterbury, Conn. 37 Waterbury, Conn. 37 Waterbury, Conn. 38 25 26 8 Waterbury, Conn. 39 26 27 2 1 8 Waterbury, Conn. 39 27 2 2 1 8 Waterbury, Conn. 39 26 27 2 1 8 Waterbury, Conn. 39 26 27 2 2 1 8 Waterbury, Conn. 39 26 27 2 2 1 8 Waterbury, Conn. 39 26 27 2 2 1 8 Waterbury, Conn. 39 26 27 2 2 2 1 8 Waterbury, Conn. 39 26 27 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					-		U						-			
Springfloid, Mass. 36 23 6 3 1 3 4 6 6 1 3 29 3 4 7 6 7 6 1 29 3 4 7 6 7 6 7 6 7 6 7 6 7 7 7 7 7 7 7 7	,					-	-									
Worcester, Mass.		36	23	6	3	1	3	4		11	7	4	-	-	-	3
Wordersky Males   49   39   9   3   113   40   22   82   82   82   82   82   82   8	Waterbury, Conn.	36	29	3	4	-		6	E S CENTRAL	660	464	101	45	10	11	E7
MID.ATLANTIC 1,831 1,286 370 113 40 22 82 Kalamooga, Tenn. 86 55 18 6 5 2 6 Albertown, Pa. Marchan, N.J. 59 46 9 3 - 1 4 4 Marchan, N.J. 59 46 9 3 - 1 4 4 Marchan, N.J. 59 46 9 3 - 1 4 4 Marchan, N.J. 56 42 11 1 1 7 7 Camden, N.J. 56 42 11 1 1 7 7 7 6 1 1 7 7 7 6 1 1 7 7 7 6 1 1 7 7 7 6 1 1 7 7 7 6 1 1 7 7 7 6 1 1 7 7 7 6 1 1 7 7 7 6 1 1 7 7 7 7	Worcester, Mass.	48	35	9	3	-	1	6								
Albany, N.Y.  Albany, N.Y.  By 46  9  3  -1  4  Knoxville, Tenn.  Buffalo, N.Y.  Boffalo, N.Y.	MID ATI ANTIC	1 831	1 286	370	113	40	22	82								
Allenfown, Pa. 18 16 2		,	,													
Camden, N.J. 16 14 2 3						-									1	
Elizabeth, N.J.   16	Buffalo, N.Y.	56	42	11	1	1	1	7		U	U	U	U	U	U	U
Erie, Pa. 34 24 6 2 2 2 - 3 Nashville, Tenn. 158 107 30 16 2 3 15 Jersey City, N.J. 34 26 5 3 - 7 - 7 - 7 S Naw York City, N.Y. 1, 049 755 209 59 19 7 37 Naw York City, N.Y. 1, 049 755 209 59 19 7 37 Naw York City, N.Y. 1, 049 755 209 59 19 7 37 Naw York City, N.Y. 1, 049 755 209 59 19 7 37 Naw York City, N.Y. 1, 049 755 209 59 19 7 37 Naw York City, N.Y. 1, 049 755 209 59 19 7 37 Naw York City, N.Y. 1, 049 755 209 59 19 7 37 Naw York City, N.Y. 1, 049 755 209 59 19 7 37 Naw York City, N.Y. 1, 049 755 209 50 19 7 37 Naw York City, N.Y. 1, 049 75 10 10 10 10 10 10 10 10 10 10 10 10 10	Camden, N.J.	22	16		2	1	-	3	Mobile, Ala.	71	49	16			1	
Jersey City, N.J. 34	Elizabeth, N.J.					-	-									
NewYork City, N.Y. 1,049							-	3	Nashville, Tenn.	158	107	30	16	2	3	15
New York City, N.Y. 1, 1949									W.S. CENTRAL	1.443	893	320	119	56	55	88
Newark, N.J. 42	• • • • • • • • • • • • • • • • • • • •	,							1	,						
Philabelpha, Pa. 253 147 66 26 9 5 8 Philabelpha, Pa. 253 147 66 26 9 5 8 Philabelpha, Pa. 3 15 9 5 1																
Pitsburgh, Pa.3   15   9   5   1	,									50	36	8	2	2	2	3
Reading Pa.   20   16   3   1   - 3   3   1   - 3   3   1   - 3   3   5   - 3   5   5   10   5   10   5   10   5   10   5   10   10							Э		Dallas, Tex.	181	102	44	16	8	11	13
Rochesier, N.Y.  Orall Defroit, Mich.  Examswille, Indianapolis, Mich.  180, Algorithm of the Algorithm of t	•								El Paso, Tex.	79						
Schenectady, N.Y. 27																
Scranton, Pa   31   23   6   - 2   - 1   1   1   1   1   1   1   1   1							-									
Syracuse N.Y.   99					-		-									
Ifenton, N.J.   17	Syracuse, N.Y.	99	74	14	4		5	7			_		-			
Uluca, N.Y. V. U U U U U U U U U U U U U U U U U U	Trenton, N.J.	17	13	3	-	-	1	1								
Vonkers, N.Y.  U  U  U  U  U  U  U  U  U  U  U  U  U																
E.N. CENTRAL 1,585 1,064 313 1 8 6 1 5 1 2 anton, Ohio 5 1 31 8 8 6 1 1 5 1 Canton, Ohio 40 29 7 - 3 1 1 Control, Ohio Chicago, III. U U U U U U U U U U Chicago, III. U U U U U U U U U U U U U U U U U U U	Yonkers, N.Y.	U	U	U	U	U	U	U	·							
Arron, Office Arron, Office Arron, Office Arron, Office Canton, Office Arron, Office Canton, Office Canton, Office Arron, Office Arron, Office Canton, Office Arron, Office Arron, Office Arron, Office Canton, Office Arron, Offi	E.N. CENTRAL	1,585	1,064	313	101	48	59	95	1							
Canton, Office 40	Akron, Ohio	51	31	8	6		5	1								
Criciaga, III.  Oricianali, Ohio  Oricianali, Oh																
Cincinati, Orlio																
Cleveland, Onlo																
Dayton, Ohio   136   96   28   6   4   2   11   Phoenix, Ariz.   U   U   U   U   U   U   U   U   U										29				-	-	
Defroit, Mich.   182   99   49   13   6   15   12   Evansville, Ind.   34   30   3   3   -   -   1   -   1   -   1   -   1     5   12   Freshol, Colo.   28   19   8   1   -   -   1   -   -   5   12   Evansville, Ind.   34   30   3   3   -   -   1   -   1   -   1   -   1     14   9   -   5   11   14   9   -   5   11   14   108   22   8   3   1   15   12   12   10   14   9   -   5   11   14   108   22   8   3   1   15   12   12   10   14   9   -   5   11   14   108   22   8   3   1   15   12   12   10   14   9   -   5   11   14   108   12   12   10   14   9   -   5   11   14   108   14   108   14   12   108   14   12   108   14   108   14   12   108   14   12   108   14   14	,								Phoenix, Ariz.	U	U	U	U	U	U	U
Evansville, Ind. 34 30 3 - 1 1 2 5 5 11 FortWayne, Ind. 72 47 16 4 4 1 2 2 6 6 7 1 1									Pueblo, Colo.	28	19	8	1			-
Fort Wayne, Ind. 72 47 16 4 4 1 2 Gary, Ind. 16 10 3 2 1 1 Fresno, Calif. 1597 1,116 302 120 34 25 87 Alliange, Mich. 39 33 3 3 2 1 1 - 7 Berkeley, Calif. 16 13 1 1 1 - 1 - Indianapolis, Ind. 183 114 39 13 7 10 16 Berkeley, Calif. 16 13 1 1 1 - 1 - Indianapolis, Ind. 183 114 39 13 7 10 16 Glendale, Calif. 79 59 15 2 3 - 7 Glendale, Calif. 13 10 1 2 Milwaukee, Wis. 115 71 25 11 4 4 6 Honolulu, Hawaii 79 56 13 2 5 3 1 Peoria, Ill. 39 31 4 - 1 3 3 4 Los Angeles, Calif. 65 41 16 6 1 1 1 8 Rockford, Ill. 44 36 6 - 2 2 - 3 Los Angeles, Calif. 411 295 68 34 10 4 - South Bend, Ind. 31 25 3 3 3 2 Pasadena, Calif. 18 11 4 2 - 1 3 Toledo, Ohio 79 57 14 5 2 1 - Portland, Oreg. 91 63 18 7 2 1 6 Sacramento, Calif. 170 115 38 10 5 2 17 San Diego, Calif. 18 11 2 4 13 San Francisco, Calif. 18 11 2 4 13 San Francisco, Calif. 18 11 2 4 13 San Jose, Calif. 18 11 2 3 4 11 2 4 13 San Jose, Calif. 18 12 34 11 2 4 13 San Sas City, Kans. 26 19 4 3 3 1 San South, Minn. 38 30 4 2 2 - 2 5 5 San San South, Minn. 80 49 16 5 5 5 5 4 Minneapolis, Minn. 80 49 16 5 5 5 5 5 4 Minneapolis, Minn. 80 49 16 5 5 5 5 5 4 Minneapolis, Minn. 80 49 16 5 5 5 5 5 4 Minneapolis, Minn. 80 49 16 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						-								3		
Gary, Ind. 16 10 3 2 1 Grand Rapids, Mich. 39 33 3 2 1 7 Berkeley, Calif. 16 13 1 1 1 - 1 - 1 - 1 Lansing, Mich. 49 38 7 - 1 1 3 2 Glendale, Calif. 13 10 1 2 Milwaukee, Wis. 115 71 25 11 4 4 4 6 Honolulu, Hawaii 79 56 13 2 5 3 1 Peria, III. 39 31 4 - 1 3 4 Lorg Beach, Calif. 65 41 16 6 1 1 1 8 Rockford, III. 39 37 1 4 - 1 3 4 Lorg Beach, Calif. 65 41 16 6 1 1 1 8 Rockford, III. 4 4 36 6 6 - 2 2 - 3 1 Los Angeles, Calif. 411 295 68 34 10 4 - 1 3 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1						4			Tucson, Ariz.	129	101	14	9	-	5	11
Indianapolis, Ind. 183 114 39 13 7 10 16 Lansing, Mich. 49 38 7 - 1 1 3 2 Glendale, Calif. 79 59 15 2 3 - 7 Lansing, Mich. 49 38 7 - 1 3 3 2 Honolulu, Hawaii 79 56 13 2 5 3 1 Peoria, III. 39 31 4 - 1 3 3 4 Long Beach, Calif. 65 41 16 6 1 1 8 Rockford, III. 44 36 6 - 2 - 3 3 Los Angeles, Calif. 65 41 16 6 1 1 8 Los Angeles, Calif. 411 295 68 34 10 4 - South Bend, Ind. 31 25 3 3 3 - 2 2 Pasadena, Calif. 18 11 4 2 - 1 3 3 Los Angeles, Calif. 18 11 4 2 - 1 3 3 Los Angeles, Calif. 18 11 4 2 - 1 3 3 4 Los Angeles, Calif. 18 11 4 2 - 1 3 3 4 Los Angeles, Calif. 18 11 4 2 - 1 3 3 4 Los Angeles, Calif. 18 11 4 2 - 1 6 Portland, Oreg. 91 63 18 7 2 1 6 Portland, Oreg. 91 63 18 7 2 1 6 Sacramento, Calif. 170 115 38 10 5 2 17 San Diego, Calif. 170 115 38 10 5 2 17 San Diego, Calif. 163 112 34 11 2 4 13 San Francisco, Calif. 18 11 2 4 13 San Francisco, Calif. 18 12 34 11 2 4 13 San Francisco, Calif. 18 12 34 11 2 4 13 San Francisco, Calif. 18 12 34 11 2 4 13 San Francisco, Calif. 18 12 34 11 2 4 13 San Francisco, Calif. 18 12 34 11 2 3 4 11 2 3 4 11 2 3 4 11 2 3 4 11 2 3 4 11 2 3 4 11 3 5 1 1 5 3 5 1 5 5 5 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5		16	10		2	1	-		PACIFIC	1,597	1,116	302	120	34	25	87
Lansing, Mich. 49 38 7 - 1 3 2 Glendale, Calif. 13 10 1 2 Milwaukee, Wis. 115 71 25 11 4 4 4 6 Honolulu, Hawaii 79 56 13 2 5 3 1 Peoria, III. 39 31 4 - 1 3 3 4 Long Beach, Calif. 65 41 16 6 1 1 8 Rockford, III. 44 36 6 - 2 - 3 Los Angeles, Calif. 411 295 68 34 10 4 - South Bend, Ind. 31 25 3 3 3 2 Pasadena, Calif. 18 11 4 2 - 1 3 3 Toledo, Ohio 79 57 14 5 2 1 - Portland, Oreg. 91 63 18 7 2 1 6 Youngstown, Ohio 62 43 13 5 1 - 1 Sacramento, Calif. 170 115 38 10 5 2 17 San Diego, Calif. 163 112 34 11 2 4 13 San Francisco, Calif. 163 112 34 11 2 4 13 San Francisco, Calif. 18 11 4 2 1 3 San Diego, Calif. 163 112 34 11 2 4 13 San Francisco, Calif. 163 112 34 11 2 4 13 San Francisco, Calif. 163 112 34 11 2 4 13 San Jose, Calif. 184 128 31 18 3 4 19 San Jose, Calif. 184 128 31 18 3 4 19 Santa Cruz, Calif. 34 24 8 2 3 Santa Cruz, Calif. 34 24 8 2 2 2 2 3 7 7 1 2 3 3 3 3 1 2 2 4 3 3 3 3 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Grand Rapids, Mich.	39	33	3	2	1	-	7	Berkeley, Calif.	16	13	1	1	-	1	
Milwaukee, Wis. 115 71 25 11 4 4 4 6 Honolulu, Hawaii 79 56 13 2 5 3 1 Peoria, III. 39 31 4 - 1 3 3 4 Long Beach, Calif. 65 41 16 6 1 1 8 Long Angeles, Calif. 65 41 16 6 1 1 8 Long Angeles, Calif. 65 41 16 6 1 1 8 Long Angeles, Calif. 18 11 4 2 - 1 3 3 100 4 5 2 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Indianapolis, Ind.	183	114	39	13	7	10	16		79	59	15	2	3	-	7
Peoria, III.         39         31         4         -         1         3         4         Long Beach, Calif.         65         41         16         6         1         1         8           Rockford, III.         44         36         6         -         2         -         3         Los Angeles, Calif.         411         295         68         34         10         4         -           South Bend, Ind.         31         25         3         3         -         -         2         Pasadena, Calif.         411         295         68         34         10         4         -           Youngstown, Ohio         62         43         13         5         1         -         1         Portland, Oreg.         91         63         18         7         2         1         6           Youngstown, Ohio         62         43         13         5         1         -         1         Sacramento, Calif.         170         115         38         10         5         2         17           W.N. CENTRAL         544         373         100         36         22         13         42         San Francisco, Calif.         U					-	1			Glendale, Calif.			-		-	-	-
Rockford, III.         44         36         6         -         2         -         3         Los Angeles, Calif.         411         295         68         34         10         4         -           South Bend, Ind.         31         25         3         3         -         -         2         Pasadena, Calif.         18         11         4         2         -         1         3           Toledo, Ohio         79         57         14         5         2         1         -         Portland, Oreg.         91         63         18         7         2         1         6           Youngstown, Ohio         62         43         13         5         1         -         1         Sacramento, Calif.         170         115         38         10         5         2         17           W.N. CENTRAL         544         373         100         36         22         13         42         Sacramento, Calif.         170         115         38         10         5         2         17           W.N. CENTRAL         544         373         100         36         22         13         42         Sacramento, Calif.         U					11											
South Bend, Ind.         31         25         3         3         -         -         2         Pasadena, Calif.         18         11         4         2         -         1         3           Toledo, Ohio         79         57         14         5         2         1         -         Portland, Oreg.         91         63         18         7         2         1         6           Youngstown, Ohio         62         43         13         5         1         -         1         Sacramento, Calif.         170         115         38         10         5         2         17           W.N. CENTRAL         544         373         100         36         22         13         42         Sacramento, Calif.         163         112         34         11         2         4         13           Des Moines, Iowa         57         43         8         3         1         2         4         San Diego, Calif.         163         112         34         11         2         4         13           Kansas City, Kans.         26         19         4         3         -         -         1         Sacramento, Calif.         184					-											8
Toledo, Ohio 79 57 14 5 2 1 - Portland, Oreg. 91 63 18 7 2 1 6 Youngstown, Ohio 62 43 13 5 1 - 1 Sacramento, Calif. 170 115 38 10 5 2 17 San Diego, Calif. 163 112 34 11 2 4 13 San Francisco, Calif. U U U U U U U U U U U U U U U U U U U					-		-									-
Youngstown, Ohio         62         43         13         5         1         -         1         Sacramento, Calif.         170         115         38         10         5         2         17           W.N. CENTRAL         544         373         100         36         22         13         42         San Diego, Calif.         163         112         34         11         2         4         13           Des Moines, Iowa         57         43         8         3         1         2         4         San Francisco, Calif.         U							- 1								-	
W.N. CENTRAL 544 373 100 36 22 13 42 Des Moines, Iowa 57 43 8 3 1 2 4 Duluth, Minn. 38 30 4 2 - 2 5 Kansas City, Kans. 26 19 4 3 - 2 1 Kansas City, Mo. 86 47 23 10 4 2 3 Lincoln, Nebr. 45 31 11 - 3 - 4 Minneapolis, Minn. 80 49 16 5 5 5 4 Omaha, Nebr. 82 66 10 3 2 1 16 St. Louis, Mo. U U U U U U U St. Paul, Minn. 50 38 8 3 1 - 4	,															
W.N. CENTRAL 544 373 100 36 22 13 42 San Francisco, Calif. U U U U U U U U U U U U U U U U U U U																
Des Moines, lowa 57 43 8 3 1 2 4 5 San Jose, Calif. 184 128 31 18 3 4 19 Duluth, Minn. 38 30 4 2 - 2 5 5 Santa Cruz, Calif. 34 24 8 2 - 3 3 Santa Cruz, Calif. 34 24 8 2 2 - 3 3 Santa Cruz, Calif. 34 24 8 2 2 - 3 3 Santa Cruz, Calif. 34 24 8 2 2 - 3 3 Santa Cruz, Calif. 34 24 8 2 2 - 3 3 Santa Cruz, Calif. 34 24 8 2 2 - 3 3 Santa Cruz, Calif. 34 24 8 2 2 - 3 3 Santa Cruz, Calif. 34 24 8 2 2 - 3 3 Santa Cruz, Calif. 34 24 8 2 2 - 3 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 3 13 1 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 3 13 1 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 3 13 1 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 3 13 1 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34 24 8 2 3 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34 24 8 2 2 3 Santa Cruz, Calif. 34																
Duluth, Minn. 38 30 4 2 - 2 5 Santa Cruz, Calif. 34 24 8 2 3 Sa													_			
Kansas City, Kans. 26 19 4 3 - 1 1 Seattle, Wash. 110 73 23 13 1 - 3 Spokane, Wash. 49 34 9 3 1 2 3 Spokane, Wash. 49 34 9 3 1 2 3 Spokane, Wash. 49 34 9 3 1 2 3 Tacoma, Wash. 49 34 9 3 1 2 3 Tacoma, Wash. 49 34 9 3 1 2 4 Tacoma, Wash. 49 34 9 3 1 2 4 Total, Minne St. Louis, Mo. U U U U U U U U U U U U U U U U U U U	,						2								-	
Kansas City, Mo. 86 47 23 10 4 2 3 Spokane, Wash. 49 34 9 3 1 2 3 Spokane, Wash. 49 34 9 3 1 2 3 Tacoma, Wash. 115 82 23 7 1 2 4 Total, Minne So. 49 16 5 5 5 4 Total 10,260 6,894 2,098 727 288 249 621 St. Louis, Mo. U U U U U U U U U U U U U U U U U U U							-			110		23		1	-	
Minneapolis, Minn. 80 49 16 5 5 5 4 St. Louis, Mo. U U U U U U U U U U U U U U U U U U U					10				Spokane, Wash.	49	34			1		3
Omaha, Nebr. 82 66 10 3 2 1 16 TOTAL 10,260 <sup>11</sup> 6,894 2,098 727 288 249 621 St. Louis, Mo. U U U U U U U U U U U U St. Paul, Minn. 50 38 8 3 1 - 4					-				Tacoma, Wash.	115	82	23	7	1		4
St. Louis, Mo. U U U U U U U St. Paul, Minn. 50 38 8 3 1 - 4									TOTAL	10.2609	6 894	2 008	727	288	249	621
St. Paul, Minn. 50 38 8 3 1 - 4									IOIAL	10,200"	0,004	۷,000	121	200	2-10	U£ 1
						-	-	-								
	Wichita, Kans.						1									

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.

† Pneumonia and influenza.

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

† Total includes unknown ages.

All MMWR references are available on the Internet at http://www.cdc.gov/mmwr. Use the search function to find specific articles.

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

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

The Morbidity and Mortality Weekly Report (MMWR) Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format and on a paid subscription basis for paper copy. To receive an electronic copy each week, send an e-mail message to listserv@listserv.cdc.gov. The body content should read SUBscribe mmwr-toc. Electronic copy also is available from CDC's World-Wide Web server at http://www.cdc.gov/mmwr or from CDC's file transfer protocol server at ftp://ftp.cdc.gov/pub/publications/mmwr. To subscribe for paper copy, contact Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone 202-512-1800.

Data in the weekly *MMWR* are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the following Friday. Address inquiries about the *MMWR* Series, including material to be considered for publication, to Editor, *MMWR* Series, Mailstop C-08, CDC, 1600 Clifton Rd., N.E., Atlanta, GA 30333; telephone 888-232-3228.

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

☆U.S. Government Printing Office: 2003-533-155/69066 Region IV