

MORBIDITY AND MORTALITY

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Multistate Outbreak of Listeriosis — United States, 2000

Since May 2000, 29 illnesses caused by a strain of *Listeria monocytogenes* (LM) have been identified in 10 states: New York (15 cases); Georgia (three); Connecticut, Ohio, and Michigan (two each); and California, Pennsylvania, Tennessee, Utah, and Wisconsin (one each). Dates of LM isolation ranged from May 17 through November 26 with 26 (90%) infections occurring since July 15. When subtyped, the LM isolates from these cases were indistinguishable by pulsed-field gel electrophoresis (PulseNet pattern numbers GX6A16.0014 by *Asc*1 and GX6A12.0017 by *Apa*1) and ribotyping (DUP-1053). This report summarizes the investigation, which linked these cases of listeriosis to eating deli turkey meat.

Eight perinatal and 21 nonperinatal cases were reported. Among the 21 nonperinatal case-patients, the median age was 65 years (range: 29–92 years); 13 (62%) were female. The 29 cases have been associated with four deaths and three miscarriages/ stillbirths.

A case-control study conducted by five state and two local health departments and CDC implicated eating deli turkey meat as the probable source of infection. Thirteen (76%) of 17 case-patients and five (21%) of 24 controls ate deli turkey meat during the 30 days before illness onset (Mantel-Haenszel weighted odds ratio=8.0; 95% confidence interval=1.2–43.3). State health and agriculture departments investigated 13 stores and delicatessens where 11 patients reported purchasing turkey; these stores and delicatessens carried turkey meat produced by at least 27 federally inspected establishments. Two establishments were linked to 10 of 11 patients; one of these establishments produced turkey meat for the second establishment.

On December 8, investigators from the Food Safety and Inspection Service, U.S. Department of Agriculture (USDA) began investigating the implicated establishments. On December 12, Cargill Turkey Products, Inc. (Waco, Texas) stopped shipping ready-toeat foods and, on December 14, voluntarily recalled processed turkey and chicken deli meat that might have been contaminated.

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U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES

Listeriosis — Continued

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Editorial Note: LM infection causes an estimated 2500 serious illnesses and 500 deaths in the United States each year. Infected pregnant women may experience only a mild, influenza-like illness; however, infections during pregnancy can lead to premature delivery, miscarriage, stillbirth, or serious infection of the newborn. Other persons at increased risk for infection are those aged ≥65 years, persons with cancer, diabetes, kidney disease, acquired immunodeficiency syndrome, or who take immunosuppressive medications. Manifestations of illness include meningitis and sepsis. Healthy persons aged <65 years rarely are affected.

The risk for a person developing *Listeria* infection after eating a contaminated product is very small. Persons who have eaten a recalled product but do not have symptoms do not require tests or treatment even if they are in a high-risk group. However, persons in a high-risk group who have eaten contaminated product and become ill within 2 months with fever or signs of serious illness should consult a physician.

Guidelines for preventing listeriosis are similar to those for preventing other foodborne illnesses. The general recommendations are 1) cook thoroughly raw food from animal sources (e.g., beef, pork, or poultry); 2) wash raw vegetables thoroughly before eating; 3) keep uncooked meats separate from vegetables and from cooked foods and ready-to-eat foods; 4) avoid raw (unpasteurized) milk or foods made from raw milk; and 5) wash hands, knives, and cutting boards after each handling of uncooked foods. Persons at high risk for listeriosis may choose to 1) avoid soft cheeses (i.e., feta, Brie, Camembert, blue-veined, and Mexican-style cheese such as queso fresco). Hard cheeses, processed cheeses, cream cheese, cottage cheese, or yogurt need not be avoided; 2) cook leftover foods or ready-to-eat foods (e.g., hot dogs) until steaming hot; and 3) avoid foods from deli counters (e.g., prepared salads, meats, and cheeses) or thoroughly reheat cold cuts before eating.

Cases of listeriosis with onset since October 1, 2000, should be reported to state and local health departments; information about the recall is available at http:// www.fsis.usda.gov/OA/recalls/rec_actv.htm*. Consumers who have recalled meat products, even if they have been stored in freezers, should discard or return them to the point of purchase. High-risk consumers who have processed turkey or chicken deli meat but are uncertain of the brand should call the place of purchase to find out if it might be a recalled product, or discard it. Answers to meat-safety questions are available at the USDA meat and poultry hotline, (800) 535-4555. Listeriosis information is available at http://www.cdc.gov/ncidod/dbmd/diseaseinfo/listeriosis_g.htm.

^{*}References to sites of non-CDC organizations on the World-Wide Web 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 pages found at these sites.

Foodborne Outbreak of Group A Rotavirus Gastroenteritis Among College Students — District of Columbia, March–April 2000

On March 31, student health services at a university in the District of Columbia (DC) notified the DC health department that an increased number of students had become ill with acute gastroenteritis beginning March 29. Some ill students reported eating tuna or chicken salad sandwiches from dining hall A on campus. On March 31, the DC health department initiated an outbreak investigation. This report summarizes results of the investigation, which indicated that group A rotavirus transmitted by food was the cause of the outbreak.

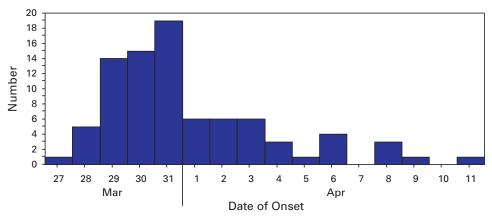
Telephone interviews were conducted with students who reported illness to student health services, with additional ill students who were identified during interviews, and with healthy controls selected randomly from the university registry of students residing on campus. A case of gastroenteritis was defined as three or more episodes of diarrhea and/or two or more episodes of vomiting within a 24-hour period in a student with onset on or after March 20. Controls and case-patients whose illness onset occurred during March 27–31 were questioned about food history, residence and dining hall, source of water, use of a public access computer or sports equipment at the university gym, and attendance at social or athletic events. Electronic records of student meal attendance were available for 49 case-patients with illness onset during March 27–31 and for 55 control subjects.

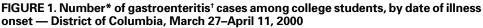
Twenty-three (79%) of 29 employees of dining hall A were interviewed to identify their work duties and determine whether they were ill. Stool specimens were collected during March 29–April 10 from six ill students and 21 dining hall A employees. Samples were screened for bacterial and parasitic pathogens at a commercial laboratory and for viral pathogens at CDC.

The outbreak among students began March 27 and peaked at 19 cases on March 31 (Figure 1). A total of 108 students (55 were identified by telephone interviews and 53 were self-reported) had gastrointestinal symptoms during March 26–April 11; 85 (79%) had illness that met the case definition. The attack rate among students residing on campus was 5% (77 of 1641), with no significant differences in attack rates by sex, occupancy of residence hall, or grade level. Eight case-patients resided off campus (attack rate: 0.02%). Among the 83 case-patients for whom a complete list of symptoms was reported, 77 (93%) had diarrhea, 75 (90%) abdominal pain or discomfort, 69 (83%) loss of appetite, 67 (81%) nausea, 64 (77%) fatigue, 56 (67%) vomiting, 49 (59%) head-ache, 48 (58%) chills, 48 (58%) subjective or low-grade fever, and 42 (51%) myalgia. Sore throat, cough, and/or congestion were reported by six case-patients with onsets on or after April 2. The median duration of illness was 4 days (range: 1–8 days). Nine (11%) case-patients received intravenous fluids to treat dehydration.

Of those who completed the telephone interview, 40 (91%) of 44 case-patients and 27 (68%) of 40 controls ate at least one deli sandwich from campus dining hall A during March 27–30 (p=0.017; odds ratio [OR]=4.8; 95% confidence interval [CI]=1.3–22.1). During March 27–30, four (8%) of 49 case-patients ate four or more meals at dining hall B compared with 18 (33%) of 55 controls (p=0.005; OR=0.2; 95% CI=0.04–0.6). Food histories of employees were not recorded; however, six employees reported illness.

Stool specimens of students and employees were negative for bacterial and parasitic pathogens and for Norwalk-like viruses. Using electron microscopy, enzyme immunoassay, and reverse transcriptase-polymerase chain reaction (RT-PCR), nine (33%) of 27 Rotavirus Gastroenteritis — Continued





* n=85.

[†] A case of gastroenteritis was defined having three or more episodes of diarrhea and/or two or more episodes of vomiting within a 24-hour period in a student with onset on or after March 20.

specimens were positive for group A rotavirus. Rotavirus positive stool specimens from four students and three employees were identified as genotype combination P[4],G2 by RT-PCR. Two of the three P[4],G2-positive employees were line cooks who reported having symptoms of gastroenteritis on March 27 and April 2, respectively, while the third positive employee, a deli server, reported no illness.

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Editorial Note: Group A rotavirus is the most common cause of childhood diarrhea worldwide, infecting >90% of children by age 3 years (1). Because rotavirus immunity develops early in life, disease among older children and adults is uncommon (1). Although the role of rotavirus in diarrhea outbreaks in adults has not been well studied, it has been documented as the cause of adult diarrheal outbreaks in hospitals (2), nursing homes (3), isolated communities (4), and in travelers (5). Also, parents of children infected with rotavirus have been reported to experience acute gastroenteritis (6). However, the rotavirus G and P protein-type combinations, the proteins that elicit an immune response in humans, were not characterized in most of these reports.

The rapid increase and gradual decline of the campus outbreak suggest that the infection was foodborne during the first week and was spread person-to-person during the following week. During the first week, illness was associated with eating sandwiches at dining hall A and was associated inversely with eating frequently at dining hall B. The employee who prepared sandwich fillings did not report illness and tested negative for rotavirus. None of the three deli servers who assembled and served sandwiches reported illness; however, one was rotavirus P[4],G2 positive. It is unknown whether the deli server who tested positive was infected before the outbreak among students.

Rotavirus Gastroenteritis — Continued

This rotavirus serotype G2 outbreak was unusual for two reasons; food was implicated as the source of infection and the adults affected should have been immune. During April 2000, a gastroenteritis outbreak among adults in Japan also was caused by foodborne transmission of group A rotavirus serotype G2 (7). These adults should not have been susceptible to severe rotavirus illness. G2 strains often are found combined with serotype P[4]1B (8). The G and P neutralization antigens of serotype G2 strains may allow G2 strains to escape immunity induced by the more common G1, G3, and G4 strains. In addition, G2 has been associated with more severe dehydration during diarrheal episodes in children than other common strains (9). These outbreaks of rotavirus gastroenteritis in adults in the United States and Japan raise questions about the persistence of immunity to rotavirus and the virulence of G2 strains. Investigators and clinicians should consider rotavirus as a possible cause of acute gastroenteritis in adults.

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Blood Lead Levels in Young Children — United States and Selected States, 1996–1999

Lead exposure adversely affects the cognitive development and behavior of young children (1). For children aged <6 years, CDC has defined an elevated blood lead level (BLL) as $\geq 10 \mu g/dL$, but evidence exists for subtle effects at lower levels (2). Data from CDC's Third National Health and Nutrition Examination Survey, Phase 2 (1991–1994) (NHANES) showed that average BLLs in children had decreased approximately 80% since the late 1970s but that elevated BLLs remained more common among low-income children, urban children, and those living in older housing (3,4). Although these data provide national estimates of the prevalence of elevated BLLs among children, they do not provide information at the state or local level. To target prevention efforts and monitor progress toward reducing BLLs at the state and local level, CDC's Childhood Blood Lead Surveillance (CBLS) program supports state blood lead surveillance programs on the basis of blood lead tests from public and private clinical laboratories. This report

Blood Lead Levels — Continued

summarizes data on BLLs in children aged 1–5 years from NHANES data collected in 1999 and children aged <6 years from state surveillance data provided to CDC by 19 state surveillance programs during 1996–1998. The findings indicate that, despite the decreases in mean BLL among children, the problem remains concentrated on a local level. Surveillance efforts should be used to target screening efforts to communities at highest risk.

NHANES is a continuous survey of the health and nutritional status of the U.S. civilian, noninstitutionalized population designed so that each year of data constitutes a nationally representative sample. Data in this report are from NHANES 1999, and NHANES III, Phase 2. A household interview and a physical examination were conducted for each survey participant. During the physical examination, blood was collected by venipuncture for all persons aged >1 year. Graphite furnace atomic absorption spectrophotometry was used to measure BLLs with detection limits of 0.3 μ g/dL (NHANES 1999) and 1.0 μ g/dL (NHANES III, Phase 2). Long-term quality-control data for these analyses, including similar standardized reference materials, were used in both surveys and showed that data from the two surveys can be compared. Because of limited sample size, NHANES 1999 analyses include only data on average BLLs and selected percentiles but not on the prevalence of elevated levels.

The analyses of CBLS data were based on reports from 19 of 28 states that provided blood lead data to CDC (Table 1). The 19 states were included because they received all blood lead test results of children from participating laboratories (regardless of level) and reported data from January 1, 1996 through December 31, 1998. These states accounted for 33% of all U.S. children aged <6 years.

An elevated BLL from CBLS is defined as a single blood lead test result $\geq 10 \ \mu g/dL$. If multiple tests were reported for a child during a calendar year, the highest BLL measured for that child was used. To estimate the proportion of children with elevated BLLs among those tested, the number of children with elevated levels was divided by the number of children tested at least once during a calendar year.

From NHANES III, Phase 2 (1991–1994) to NHANES 1999, the geometric mean BLL in children aged 1–5 years decreased from 2.7 (95% confidence interval [Cl]=2.6–2.9) to 2.0 μ g/dL (95% Cl=1.7–2.3), and the 50th percentile decreased from 2.6 (95% Cl=2.4–2.8) to 1.9 μ g/dL (95% Cl=1.6–2.1). The continued pattern of decline in BLLs between the two surveys also is indicated at the 10th, 25th, 75th, and 90th percentiles.

The CBLS data showed that the proportion of children tested with BLLs $\geq 10 \ \mu g/dL$ decreased from 10.5% in 1996 to 7.6% in 1998 in the 19 states providing data (Table 1). The proportions of children with BLLs $\geq 15 \ \mu g/dL$ and $\geq 20 \ \mu g/dL$ also decreased.

The percentage of children aged <6 years tested with BLLs \geq 10 µg/dL in each state ranged from 2.7 to 14.9 (Figure 1). Within states, the proportion of children with elevated

TABLE 1. Percentage of children tested aged <6 years with elevated blood lead
levels (BLLs), by year — selected states*, 1996–1998

		% Childre	n with elevated BL	Ls (µg/dL)
Year	No. tested	≥10	≥15	≥20
1996	1,220,596	10.5%	3.9%	1.9%
1997	1,183,506	8.6%	3.2%	1.5%
1998	1,256,907	7.6%	2.7%	1.2%

* Alabama, Colorado, Connecticut, Iowa, Maine, Massachusetts, Michigan, Minnesota, Montana, New Hampshire, New York, North Carolina, Ohio, Oklahoma, Utah, Vermont, Washington, Wisconsin, and Wyoming.

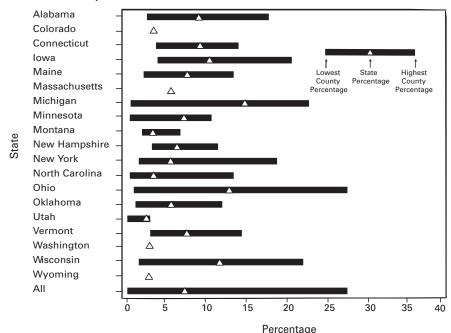


FIGURE 1. State-specific percentage of children aged <6 years tested with blood lead levels (BLLs) \geq 10 µg/dL and highest and lowest percentage of elevated BLLs, by county — selected states, 1998*

* Only counties with ≥200 children tested for BLL are included. Colorado, Washington, and Wyoming had <2 counties with 200 children tested, and Massachusetts did not report county of residence.

BLLs in counties with at least 200 children tested also varied considerably. For example, the proportion of children with elevated BLLs ranged from 1.3% to 27.3% in counties in Ohio. Across all 19 states, the county-specific proportions of children with elevated BLLs ranged from 0.5% to 27.3%, indicating a concentrated proportion of elevated BLLs in specific populations or geographic areas.

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Editorial Note: The findings in this report indicate that average BLLs of U.S. children aged 1–5 years have declined from the early 1990s to 1999. Because of the limited sample size of a single year of NHANES 1999 compared with that of the multiple years of NHANES III, additional data are necessary to confirm this trend. The dramatic decline in BLLs from the late 1970s through the early 1990s resulted primarily from the phaseout of leaded gasoline and the resulting decrease in lead emissions, although other exposures also decreased (3). Although air lead levels and lead emissions continued to decrease during the 1990s, most of this decline occurred before 1995 (5). The primary remaining sources of childhood lead exposure are deteriorated leaded paint and the soil and dust it contaminates in old housing. The construction of new housing and the demolition and rehabilitation of older housing may be contributing to a continued decline in BLLs. Data from NHANES III, Phase 2 showed that low-income children living in older housing had more than a 30-fold greater prevalence of BLLs \geq 10 µg/dL than do middleincome children in newer housing (4). From 1993 to 1997, the number of low-income children living in pre-1940s and 1940-1974 housing declined by 31% and 14%, respectively. The number of low-income children living in post-1974 housing increased by 5% (6).

Despite the overall decline in average BLLs, CBLS data show that the risk for elevated BLLs in children tested remains high in some counties and varies greatly among and within states. This variation most likely reflects geographic variation in the prevalence of risk factors for elevated BLLs such as residence in older housing and poverty.

The findings in this report are subject to at least four limitations. First, the small NHANES 1999 sample does not permit observing risks in specific subgroups or geographic areas, but it provides a nationally representative estimate of BLLs in children. The CBLS data set provides local information but is limited to children who receive clinical or diagnostic blood lead testing. Second, because CDC guidelines recommend the use of blood lead data and census data to target screening efforts in populations at increased risk for lead exposure, the proportion of children with elevated BLLs is higher in CBLS data than would be expected in NHANES 1999. Third, the guidelines for testing children vary by state, and adherence to the guidelines varies by health-care provider. Finally, CBLS data include samples collected by fingerstick, which can slightly overestimate the blood lead result, and venous samples and results obtained by different laboratories. Despite these differences, the temporal trends in BLLs are similar between the CBLS and NHANES data sets.

One of the national health objectives for 2010 is the elimination of childhood lead poisoning (7). Data in this report document continued progress toward this goal but also show the ongoing need to target prevention efforts at communities and populations at highest risk. CDC recommends that state health agencies target screening efforts by using blood lead surveillance data, census data, Medicaid data, and other sources of information on risk factors such as housing age and poverty (8,9). Other federal agencies, including the U.S. Department of Housing and Urban Development and the U.S.

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Environmental Protection Agency, also are implementing targeted strategies to prevent lead exposure. State blood lead surveillance systems play a key role in targeting and monitoring federal, state, and local prevention efforts. CDC encourages additional states to conduct surveillance for elevated BLLs in children.

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Notice to Readers

Public Health Service Recommendations for the Use of Vaccines Manufactured with Bovine-Derived Materials

The Center for Biologics Evaluation and Research (CBER), U.S. Food and Drug Administration (FDA) learned earlier this year that some vaccines were manufactured with bovine-derived materials obtained from countries in which bovine spongiform encephalopathy (BSE) or a substantial risk for BSE exists. A list of these countries is published by the U.S. Department of Agriculture (USDA).* This information was of concern because cases of variant Creutzfeldt-Jakob disease (vCJD) have been attributed to, among other possibilities, eating beef products from cattle infected with the agent of BSE. No evidence exists that cases of vCJD are related to the use of vaccines, and no cases of vCJD have been reported in the United States.

CBER assessed the risk for vCJD from vaccines manufactured with processes that use bovine materials potentially contaminated with the BSE agent. On July 27, 2000, CBER convened a joint meeting of the Transmissible Spongiform Encephalopathy Advisory Committee and the Vaccines and Related Biological Products Advisory Committee to review the results of these assessments and make recommendations about the use and manufacture of these vaccines. The committees concluded that the risk for vCJD

^{*9} CFR, part 94.

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posed by vaccines in the scenarios presented was theoretical and remote. This conclusion was based on the inherent low risk of the bovine materials involved (e.g., type and amount of tissue[s] used, specific time and country, or herd of origin) and/or the dilutions of materials during manufacture. The committees concluded that the benefits of vaccination outweigh any remote risks for vCJD.

As a precautionary measure, the committees recommended that vaccines manufactured with bovine-derived materials from countries on the USDA list be replaced with bovine-derived materials from other countries. This recommendation, which is consistent with existing FDA guidance first issued in 1993 on the sourcing of bovine-derived materials, is intended to reduce even the remote risk for vCJD from vaccines. The committees also recommended that FDA provide information to the public about the safety of vaccines made with materials from countries in which BSE or BSE risk exists.

FDA has requested that manufacturers replace bovine-derived materials obtained from countries on the USDA list with materials obtained from countries not on the USDA list. All of the affected manufacturers have agreed to implement these changes or have already done so. FDA anticipates that most of these changes will be completed in 2001.

The Public Health Service (PHS) recommends that all persons continue to be vaccinated according to current schedules. PHS has no preference for using one licensed vaccine product over another based on the source of bovine-derived materials used in vaccine production. Failure to obtain the recommended vaccinations with licensed vaccines poses a risk for serious disease.

Additional information about BSE or vaccines manufactured with bovine-derived materials from countries on the USDA list can be obtained from the FDA World-Wide Web site, http://www.fda.gov/cber/BSE/BSE.htm[†], or from CBER's Office of Communications, Training and Manufacturers Assistance, telephone (800) 835-4709.

Notice to Readers

Availability and Use of Parenteral Quinidine Gluconate for Severe or Complicated Malaria

Since 1991, quinidine gluconate, a class 1a anti-arrhythmic agent, has been the only parenteral antimalarial available for use in the United States (1). It is indicated for the treatment of patients with life-threatening *Plasmodium falciparum* malaria (2), including those who cannot tolerate oral therapy, have high-grade parasitemia, or have complications (e.g., cerebral malaria or acute renal failure) (3,4).

The limited availability of and delays in obtaining quinidine gluconate have contributed to adverse patient outcomes (5–7). As newer anti-arrhythmics have replaced quinidine for many cardiac indications, some hospitals and other health-care facilities have dropped quinidine gluconate from their formularies and, as a result, fewer clinicians have had experience using the drug. Discussions among quinidine gluconate manufacturer Eli Lilly Company (Indianapolis, Indiana), CDC, the U.S. Department of Defense, and the U.S. Food and Drug Administration have resulted in the following recommendations

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to improve quinidine gluconate availability for acutely ill malaria patients in U.S. healthcare facilities:

- 1. Before an acute need arises, hospital drug services should consider maintaining or adding quinidine gluconate to formularies or should be able to immediately locate a nearby source.
- 2. Pharmacists and clinicians requiring quinidine gluconate in hospitals in which an immediate source cannot be located should contact their local or regional distributor to request quinidine gluconate.
- 3. In clinical settings in which the need for the drug is more acute than can be met by the local or regional distributor, pharmacists and clinicians should contact Eli Lilly Company, telephone, (800) 821-0538 to arrange a rapid shipment of the drug. This telephone number, or an alternate number given to callers, is staffed 24 hours a day, 7 days a week.
- 4. If further assistance is needed in obtaining quinidine gluconate or in managing patients with malaria, contact CDC's malaria hotline, (770) 488-7788 (Monday–Friday, 8 a.m. to 4:30 p.m. eastern standard time). After business hours, weekends, and holidays, contact CDC's security station, telephone, (404) 639-2888 and ask to have the on-call person for malaria questions paged.

The following dosing recommendations for quinidine gluconate administration are provided for pharmacists and clinicians treating patients with severe or complicated malaria:

- Quinidine gluconate intravenous should be administered in a monitored setting. Prolongation of the QT interval as indicated by an electrocardiogram, ventricular arrhythmia, hypotension, and hypoglycemia can result from the use of this drug at treatment doses.
- Quinidine gluconate for malaria is administered as an initial intravenous loading dose of 10 mg/kg salt (equivalent to 6.25 mg/kg quinidine base) infused over 1–2 hours. Quinidine gluconate is administered subsequently as a continuous infusion of 20 µg/kg/min quinidine gluconate salt (equivalent to 12.5 µg/kg/min quinidine base) (2).
- An alternative regimen is an intravenous loading dose of 24 mg/kg quinidine salt (equivalent to 15 mg/kg quinidine base) infused over 4 hours, followed by a maintenance infusion of 12 mg/kg of quinidine gluconate salt (equivalent to 7.5 mg/kg quinidine base) infused over 4 hours every 8 hours, starting 8 hours after the loading dose (2). These regimens have been shown to be effective with or without concomitant exchange transfusion (2).
- The risk for serious ventricular arrhythmia associated with quinidine is increased by bradycardia, hypokalemia, and hypomagnesemia (2). When determining whether a patient should receive a bolus dose, previous administration of other drugs that can prolong the QT interval (e.g., quinine, halofantrine, and mefloquine) should be considered.
- No alternatives to quinidine exist for patients in the United States who require intravenous therapy for malaria. Acute cardiac events can be minimized by careful calculation of the loading dose and infusion rate. Consulting a cardiologist may be helpful when attempting to resume infusion in the patient who has experienced QT prolongation or hypotension associated with intravenous quinidine infusion.
- Consulting a physician with experience in treating malaria is advised.

Notices to Readers — Continued

References

- 1. CDC. Treatment with quinidine gluconate of persons with severe *Plasmodium falciparum* infection: discontinuation of parenteral quinine from CDC drug service. MMWR 1991;40(no. RR-4):21–3.
- 2. Quinidine gluconate injection [package insert]. Indianapolis, Indiana: Eli Lilly Company, February 2000.
- 3. Zucker JR, Campbell CC. Malaria: principles of prevention and treatment. Infect Dis Clin No Am 1993;7:547–67.
- Miller KD, Greenberg AE, Campbell CC. Treatment of severe malaria in the United States with a continuous infusion of quinidine gluconate and exchange transfusion. N Engl J Med 1989;321:65–70.
- 5. Rosenthal PJ, Petersen C, Geertsma FR, et al. Availability of intravenous quinidine for falciparum malaria [Letter]. N Engl J Med 1996;335:138.
- 6. Humar A, Sharma S, Zoutman D, et al. Fatal falciparum malaria in Canadian travelers. Can Med Assoc J 1997;156:1165–7.
- 7. CDC. Availability of parenteral quinidine gluconate for treatment of severe or complicated malaria. MMWR 1996;45:494–5.

Notice to Readers

Availability of MMWR Mirror Website in Spain

CDC, in collaboration with the Toxic Oil Syndrome Research Centre (CISAT) of the Institute of Health Carlos III, Madrid, Spain, has established a *MMWR* mirror website in Spain. The website was developed to reduce the delay caused by transoceanic electronic transfers of large documents and to increase access to information published in *MMWR* for European public health practitioners. The mirror website is updated simultaneously with the posting of new reports on the *MMWR* website (http://www.cdc.gov/mmwr). The address for the CISAT *MMWR* mirror website is http://cisat.isciii.es/mmwr. The website also hosts a mirror site from the Agency for Toxic Substances and Disease Registry (ATSDR). This mirror site can be found at http://cisat1.isciii.es/atsdr. Other features of the website include information on environmental health problems and rare diseases in Spanish.

CISAT is a part of the WHO Collaborating Centre for the Clinical Epidemiology of Environmental Diseases and has established agreements with CDC/ATSDR and the University of Pittsburgh. Support of the *MMWR* mirror website is part of a larger effort undertaken by CISAT to create a comprehensive environmental health information site.

Notice to Readers

Epidemiology in Action: Intermediate Methods

CDC and Emory University's Rollins School of Public Health will co-sponsor a course, "Epidemiology in Action: Intermediate Methods" during February 26–March 2, 2001, at Emory University. The course is designed for state and local public health professionals.

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Notices to Readers — Continued

The course will review the fundamentals of descriptive epidemiology and biostatistics, analytic epidemiology and computers as used in epidemiology but will focus on midlevel epidemiologic methods directed at strengthening participants' quantitative skills, with an emphasis on up-to-date data analysis. Topics include field investigations, advanced measures of association, normal and binomial distributions, logistic regression, and additional statistical methods. Prerequisite is an introductory course in epidemiology, such as Epidemiology in Action, International Course in Applied Epidemiology or any other introductory class. There is a tuition charge.

Deadline for applications is January 15. Additional information and applications are available from Emory University, Rollins School of Public Health, International Health Dept. (PIA), 1518 Clifton Road, N.E., Room 746, Atlanta, GA 30322; telephone (404) 727-3485; fax (404) 727-4590; or email pvaleri@sph.emory.edu.

Notice to Readers

Epi Info 2000: A Course for Teachers of Epidemiologic Computing

CDC and Emory University's Rollins School of Public Health will co-sponsor a course, "Epi Info 2000: A Course for Teachers of Epidemiologic Computing" during March 12–15, 2001, at Emory University. The course is designed for teachers of epidemiologic computing with intermediate to advanced skills in computing.

The 4-day course covers hands-on experience with the new Windows® version of Epi Info, programming Epi Info software at the intermediate to advanced level, methods of teaching epidemiologic computing, computerized interactive exercises for teaching epidemiology, and computing. There is a tuition charge.

Deadline for applications is February 1. Additional information and applications are available from Emory University, Rollins School of Public Health, International Health Dept. (PIA), 1518 Clifton Road, N.E., Room 746, Atlanta, GA 30322; telephone (404) 727-3485; fax (404) 727-4590; or email pvaleri@sph.emory.edu.

Notice to Readers

Combined Issues of MMWR

A December 29, 2000, issue of *MMWR* will not be published. The next issue will be Volume 49, Numbers 51 and 52, dated January 5, 2001. It will include the figures and tables of notifiable diseases and deaths for the weeks ending December 23, 2000, and December 30, 2000.

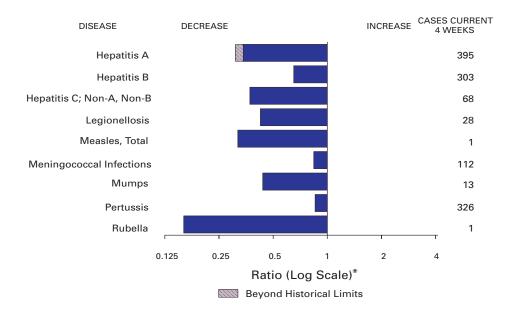


FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending December 16, 2000, with historical data

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

		Cum. 2000		Cum. 2000
Anthrax		-	Poliomyelitis, paralytic	-
Brucellosis*		61	Psittacosis*	10
Cholera		2	Q fever*	21
Cyclosporiasis	s*	38	Rabies, human	2
Diphtheria		2	Rocky Mountain spotted fever (RMSF)	416
Ehrlichiosis:	human granulocytic (HGE)*	178	Rubella, congenital syndrome	6
	human monocytic (HME)*	98	Streptococcal disease, invasive, group A	2,619
Encephalitis:		109	Streptococcal toxic-shock syndrome*	70
•	eastern equine*	2	Syphilis, congenital [¶]	257
	St. Louis*	3	Tetanus	26
	western equine*	-	Toxic-shock syndrome	122
Hansen diseas	se (leprosy)*	63	Trichinosis	15
	Ilmonary syndrome*†	30	Tularemia*	110
Hemolytic ure	mic syndrome, postdiarrheal*	185	Typhoid fever	311
HIV infection,	pediatric* [§]	203	Yellow fever	-
Plague		6		

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending December 16, 2000 (50th Week)

-: No reported cases.

*Not notifiable in all states.

¹ Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID). ⁵Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update November 26, 2000.

Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending December 16, 2000, and December 18, 1999 (50th Week)

	s enun	•		, 2000,					<i>coli</i> 0157:H	
	All Cum.	DS Cum.	Chlam Cum.	nydia⁺ Cum.	Cryptos Cum.	ooridiosis Cum.	NET Cum.	Cum.	PH Cum.	LIS Cum.
Reporting Area	2000 ^s	1999	2000	1999	2000	1999	2000	1999	2000	1999
	36.091	40.781	623,458	629.947	2.491	2.580	4,311	3.865	3,206	2,690
NEW ENGLAND	1,884	2,070	20,396	20,437	2,491	2,580	383	3,805 401	3,200	363
Maine N.H.	38 31	2,070 75 46	1,368 1,004	1,009 944	20 23	31 19	31 39	39 35	28 35	34
Vt.	37	16	507	469	27	36	36	32	34	21
Mass.	1.137	1.319	8.586	8.588	30	71	163	176	168	187
R.I.	95	96	2,409	2,251	4	6	19	27	18	26
Conn.	546	518	6,522	7,176		22	95	92	84	95
MID. ATLANTIC	7,705	10,462	54,597	63,488	182	597	405	598	281	161
Upstate N.Y.	705	1,196	N	N	128	174	296	516	72	14
N.Y. City	3,929	5,574	23,185	25,903	11	256	12	17	13	18
N.J.	1,592	1,922	8,093	11,967	12	52	97	65	109	71
Pa.	1,479	1,770	23,319	25,618	31	115	N	N	87	58
E.N. CENTRAL	3,442 546	2,810	102,284	106,620	795	627	986	975 250	589	527
Ohio Ind.	352	462 317	23,724 12,648	28,285 11,595	260 58	66 41	272 133	104	220 83	219 67
III.	1,693	1,345	27,498	31,316	7	87	188	497	21	89
Mich.	652	552	25,179	21,439	96	52	137	124	104	83
Wis.	199	134	13,235	13,985	374	381	256	N	161	69
W.N. CENTRAL	813	934	34,314	36,573	356	198	687	523	595	543
Minn.	160 86	177	7,129	7,238	131	75	236 180	167 112	211 147	186 80
Mo.	368	449	10,975	12,913	33	26	103	46	97	68
N. Dak.	3	6	750	909	16	18	21	17	20	18
S. Dak.	7	15	1,776	1,509	15	7	56	47	58	62
Nebr.	68	62	3,343	3,410	77	15	63	102	45	113
Kans.	121	150	5,762	5,810	9	2	28	32	17	16
S. ATLANTIC	10,157	11,255	122,481	131,464	467	373	369	332	270	188
Del.	199	158	2,760	2,674	6		1	6	1	3
Md.	1,197	1,339	12,946	12,533	13	17	32	42	1	4
D.C.	785	636	3,067	N	20	7	1	1	U	U
Va.	764	777	15,053	13,392	18	27	77	75	61	62
W. Va.	60	64	1,534	1,736	3	3	15	16	13	11
N.C. S.C.	667 755	741 917	20,654 9,032	21,234 17,998	28	34	90 21	74 20	68 14	52 14
Ga.	1,117	1,585	25,728	31,300	170	136	42	35	36	3
Fla.	4,613	5,038	31,707	30,597	209	149	90	63	76	39
E.S. CENTRAL	1,809	1,788	47,219	44,413	49	46	147	141	112	104
Ky.	186	256	7,802	7,145	7	7	40	49	32	35
Tenn. Ala.	771	704 444	14,457 13,946	13,878 12,276	, 11 16	, 13 15	61 11	49 55 28	52 9	44 21
Miss.	395	384	11,014	11,114	15	15	35	9	19	4
W.S. CENTRAL	3,708	4,159	96,162	90,166	123	90	182	140	233	164
Ark.	172	186	5,355	5,764	14	2	57	15	38	14
La.	649	814	17,285	15,863	10	24	9	14	53	14
Okla.	320	125	8,776	7,973	17	13	19	38	17	30
Tex.	2,567	3,034	64,746	60,566	82	51	97	73	125	106
MOUNTAIN Mont.	1,322 14	1,605 13	34,774 1,385	31,714 1,496	174 10	100 13	431 31	328 25	283	242
ldaho	20	22	1,816	1,713	23	8	74	68	35	43
Wyo.	9	11	769	757	5		21	16	10	17
Colo.	300	290	8,490	5,998	72	14	162	112	111	88
N. Mex.	140	82	4,279	4,843	21	42	23	13	16	7
Ariz.	427	816	12,190	11,799	11	13	54	36	41	24
Utah	137	141	2,150	2,085	28	N	52	35	70	48
Nev.	275	230	3,695	3,023	4	9	14	23	-	15
PACIFIC	5,251	5.698	111,231	105,072	241	364	721	427	476	398
Wash.	480 171	336 208	12,606 5,140	11,612 5,857	241 N 21	304 N 98	222 156	427 164 68	200 114	180 69
Oreg. Calif. Alaska	4,479 22	5,047 14	88,299 2,343	82,700 1,817	220	266	298 30	180 1	114 150 1	136 1
Hawaii	22 99	93	2,343 2,843	3,086	-	-	30 15	14	11	12
Guam P.R.	15 1,245	18 1,180	3,122	468 U	-	-	N 7	N 9	U U	U U
V.I. Amer. Samoa	32	35	U U U	Ŭ U	U U	U U	Ú U	Ŭ U	Ŭ U	Ŭ U
C.N.M.I.	-	-	Ŭ	Ŭ o reported	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ horn Mariana	Ŭ

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

¹ Chlamydia refers to genital infections caused by *C. trachomatis.* Totals reported to the Division of STD Prevention, NCHSTP.
 ⁵ Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update November 26, 2000.

Week	s enumy	December				10, 13			
	Gono	rrhea	Hepati Non-A,	tis C; Non-B	Legione	llosis	Listeriosis	Ly Dis	/me ease
Reporting Area	Cum. 2000 [§]	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 2000	Cum. 1999
UNITED STATES	325,596	347,165	2,838	2,839	913	1,004	647	12,874	15,127
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	5,722 84 103 63 2,346 611 2,515	6,414 78 111 50 2,381 572 3,222	16 2 - 4 4 6 -	16 2 7 4 3	51 2 3 5 16 8 17	78 3 14 27 12 14	56 2 4 3 27 1 19	4,313 62 38 1,098 590 2,525	4,465 41 22 23 780 499 3,100
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	34,181 6,862 10,140 5,443 11,736	38,472 6,558 11,827 7,565 12,522	611 65 - 510 36	123 59 - 64	201 90 - 15 96	242 62 43 21 116	151 82 29 21 19	6,592 3,766 105 1,448 1,273	8,138 3,913 134 1,693 2,398
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	61,766 14,321 5,991 18,467 17,347 5,640	67,164 17,443 6,072 22,323 14,873 6,453	214 12 1 19 182	888 4 1 47 820 16	238 111 39 9 50 29	265 81 46 31 64 43	113 58 8 11 31 5	325 88 32 11 194	579 44 19 17 11 488
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr.	15,724 2,784 1,086 7,584 53 270 1,327	16,087 2,741 1,208 7,937 79 191 1,419 2,512	432 7 2 406 1 - 6	301 10 287 1 3	57 7 14 25 - 2 4	56 13 14 18 2 3 6	14 5 2 5 2 -	421 322 32 44 2 - 4 17	340 219 22 71 1 - 11
Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	2,627 90,154 1,671 9,003 2,666 9,891 494 16,844 11,071 16,814 21,700	2,512 101,279 1,615 9,635 3,462 9,153 548 18,893 14,479 21,560 21,934	10 124 - 18 3 3 16 20 3 3 58	156 21 1 11 17 33 22 1 50	5 189 10 64 6 33 N 16 6 7 47	- 148 19 35 4 40 N 15 11 3 21	104 2 22 - 8 5 - 9 21 37	974 140 530 11 146 34 46 17 - 50	16 1,288 159 874 6 118 18 74 6 - 33
E.S. CENTRAL Ky. Tenn. Ala. Miss.	33,995 3,411 11,469 10,959 8,156	35,316 3,250 11,120 10,857 10,089	427 35 99 8 285	331 25 117 1 188	37 20 12 4 1	50 22 22 4 2	20 3 13 4	47 12 28 6 1	99 18 57 20 4
W.S. CENTRAL Ark. La. Okla. Tex.	50,947 2,920 12,870 3,968 31,189	51,408 3,159 12,672 3,905 31,672	442 9 308 10 115	572 28 299 16 229	18 - 6 5 7	34 1 11 4 18	16 1 - 7 8	45 4 4 1 36	58 5 9 8 36
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	9,568 53 89 52 2,688 958 4,050 230 1,448	9,258 53 82 2,469 943 4,185 230 1,261	396 5 303 303 16 21 2 16	220 5 8 76 37 34 46 6 8	47 2 5 2 16 1 8 12 1	48 - 3 - 13 1 7 18 6	38 - 1 9 2 17 4 5	30 - 3 9 11 - - 3 4	16 - 3 3 1 2 2 2
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	23,539 2,290 766 19,772 335 376	21,767 2,047 857 18,129 292 442	176 32 27 115 2	232 21 21 190 -	75 19 N 56 -	83 21 N 60 1 1	135 7 6 119 3	127 9 15 101 2 N	144 10 15 119 N
Guam P.R. V.I. Amer. Samoa C.N.M.I. N: Not notifiable.	577 U U U U: Unay	55 313 U U U	- 1 U U U	2 U U U	1 U U U	- U U U	- - - -	N U U U	N U U U U

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending December 16, 2000, and December 18, 1999 (50th Week)

N: Not notifiable.

U: Unavailable.

- : No reported cases.

wee	ks ending	Decemb	er 16, 20	00, and D	ecember	18, 1999 (K)
	Mal	aria	Dati	s, Animal		Salmon TSS		ILIS
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
	2000	1999	2000	1999	2000	1999	2000	1999
UNITED STATES NEW ENGLAND Maine N.H. Vt. Mass. R.I. Corre	1,220 65 1 3 27 8	1,458 64 3 2 4 22 5 5	5,736 801 130 21 57 268 61	6,396 867 171 45 88 221 95 247	35,788 2,132 123 140 108 1,203 137 421	37,641 2,176 131 137 92 1,180 129	29,879 2,124 91 135 114 1,189 156	32,019 2,195 104 135 82 1,196 160
Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	20 262 81 114 36 31	28 415 71 246 56 42	264 1,112 799 U 193 120	247 1,267 896 U 179 192	421 3,938 1,190 946 820 982	507 5,261 1,367 1,418 1,188 1,288	439 4,356 1,246 866 821 1,423	518 5,137 1,332 1,469 1,093 1,243
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	120 22 6 46 32 14	167 18 22 76 41 10	162 52 15 22 67 6	167 36 13 10 87 21	5,036 1,530 623 1,383 869 631	5,274 1,267 526 1,566 967 948	3,375 1,350 567 176 898 384	4,590 1,066 472 1,531 948 573
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	61 27 2 15 2 1 7 7 7	74 41 13 14 - 1 5	525 90 78 50 115 90 2 100	711 110 149 31 141 176 4 100	2,324 554 351 682 61 99 215 362	2,201 555 248 735 51 93 189 330	2,388 638 312 877 74 105 94 288	2,347 691 224 855 62 118 172 225
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fia.	327 5 117 16 50 4 36 2 30 67	342 1 97 18 71 4 33 15 29 74	2,325 49 554 112 551 155 344 159	2,078 56 389 - 561 108 430 133 231 170	7,989 110 803 63 983 171 1,120 740 1,477 2,522	8,542 163 831 72 1,226 168 1,295 650 1,508 2,629	5,265 137 729 U 839 148 1,072 540 1,549 251	6,340 154 871 U 1,019 150 1,282 505 1,663 696
E.S. CENTRAL Ky. Tenn. Ala. Miss.	47 18 12 16 1	27 7 9 7 4	199 21 102 76	252 35 93 122 2	2,356 376 656 664 660	2,188 405 571 595 617	1,656 259 755 521 121	1,448 291 581 479 97
W.S. CENTRAL Ark. La. Okla. Tex.	20 3 8 9	61 3 10 2 46	77 20 57	482 14 91 377	3,962 704 262 390 2,606	3,674 651 714 446 1,863	4,024 587 753 279 2,405	2,748 254 603 346 1,545
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	52 1 - 25 - 9 6 7	44 4 3 1 18 3 7 4 4	247 65 9 55 21 78 10 9	215 59 5 44 1 9 81 8 8	2,797 95 128 68 692 235 841 489 249	2,941 82 127 69 710 361 874 527 191	2,154 97 51 654 182 719 451	2,555 1 97 59 693 287 804 565 49
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	266 33 41 181 - 11	264 27 21 203 1 12	288 7 258 23	357 - 4 345 8 -	5,254 576 300 4,085 61 232	5,384 651 409 3,942 53 329	4,537 670 348 3,270 23 226	4,659 821 461 3,070 32 275
Guam P.R. V.I. Amer. Samoa C.N.M.I. N: Not notifiable.	5 U U U	1 1 U U U available.	80 U U U	70 U U U Dorted cases.	620 U U U	37 630 U U U	U U U U U	U U U U U

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending December 16, 2000, and December 18, 1999 (50th Week)

N: Not notifiable. U: Unavailable. -: No reported cases. * Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

wee	ks ending			00, and D	<u>ecember</u>	<u>18, 1999</u>	<u>(50th Wee</u>	ek)
	NET	Ű	llosis*	HLIS		philis & Secondary)	Tub	erculosis
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting Area	2000	1999	2000	1999	2000	1999	2000	1999
UNITED STATES	20,051	16,099	10,291	9,725	5,733	6,433	12,302	14,967
NEW ENGLAND Maine	383 10	863 5	369 12	833	72 1	58	409 12	420 20
N.H. Vt.	6 4	18 6	8	17 4	2	1 3	17 4	16 3
Mass.	267	736	247	715	47	35	256	231
R.I. Conn.	29 67	31 67	36 66	28 69	4 18	3 16	31 89	42 108
MID. ATLANTIC	2,006	1,092	1,325	722	259	290	2,220	2,479
Upstate N.Y. N.Y. City	760 716	281 346	211 470	74 233	15 118	19 128	284 1,195	307 1,273
N.J.	337	270	384	234	48	67	535	520
Pa. E.N. CENTRAL	193 3.750	195 3.169	260 1,197	181 1.754	78 1,123	76	206 1,294	379 1,588
Ohio	409	410	309	141	69	1,200 90	263	265
Ind. III.	1,506 963	334 1,295	147 103	113 973	345 350	427 412	109 628	132 782
Mich. Wis.	642 230	507 623	579 59	453 74	315 44	230 41	214 80	310 99
W.N. CENTRAL	2,369	1,184	1,884	793	59	129	473	515
Minn.	774	233	837	251	13	9	165	190
lowa Mo.	522 633	68 697	316 462	58 349	11 27	93	35 192	54 178
N. Dak. S. Dak.	51 7	3 18	49 4	2 10	-	-	5 16	6 17
Nebr. Kans.	142 240	85 80	84 132	68 55	2 6	6 12	23 37	16 54
S. ATLANTIC	2,925	2,363	1.110	525	1,918	2.040	2,598	3,070
Del. Md.	23 204	15 160	23 115	10 58	289	337	14 239	26 258
D.C.	80	51	U	U	48	45	36	52
Va. W. Va.	445 22	130 8	331 17	64 5	126 2	150 5	258 31	268 37
N.C. S.C.	385 136	206 119	265 87	92 63	469 212	449 248	390 128	482 222
Ga.	257	230	167	83	370	435	555	568
Fla. E.S. CENTRAL	1,373 1,134	1,444 1,182	105 525	150 677	394 851	363 1,114	947 852	1,157 999
Ky.	495	232	112	147	82	101	114	176
Tenn. Ala.	340 98	659 117	357 49	457 62	513 122	631 202	305 296	346 295
Miss.	201	174	7	11	134	180	137	182
W.S. CENTRAL Ark.	2,893 203	2,602 74	2,606 52	1,162 26	802 94	1,022 85	1,022 159	1,766 166
La. Okla.	138 125	217 514	191 43	134 160	204 126	300 182	74 130	245 176
Tex.	2,427	1,797	2,320	842	378	455	659	1,179
MOUNTAIN Mont.	1,286 8	1,118 10	732	756	225	230 1	471 17	516 13
Idaho	45 5	27	25 3	12 1	1 1	i	13 4	15 3
Wyo. Colo.	266	3 198	3 196	156	11	4	4 70	3 75
N. Mex. Ariz.	168 594	145 573	99 329	105 410	21 185	11 206	36 214	61 219
Utah Nev.	80 120	64 98	80	66 6	1 5	2 5	46 71	39 91
PACIFIC	3.305	2,526	543	2,503	424	350	2,963	3,614
Wash. Oreg.	447 163	121 94	405 105	111	67	65 7	236 25	239 104
Calif.	2,648	2,274	-	2,268	349	274	2,481	3,034
Alaska Hawaii	8 39	4 33	3 30	4 34	2	1 3	96 125	59 178
Guam	-	19	U	U	-		-	70
P.R. V.I.	32 U	138 U	U U	U U	159 U	144 U	119 U	178 U
Amer. Samoa C.N.M.I.	U U	U U	U U	U U	U U	U U	U U	U U
N: Not potifiable	-	vailabla	-	orted cases	<u> </u>	0	0	<u> </u>

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending December 16, 2000, and December 18, 1999 (50th Week)

N: Not notifiable. U: Unavailable. -: No reported cases. *Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

	and December 18, 1999 (50th Week)											
		uenzae,	H	epatitis (Vi	ral), By Ty	pe			Meas	es (Rubec	la)	
		sive	Α		В		Indiger		Impo		Tota	
Reporting Area	Cum. 2000 [†]	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	2000	Cum. 2000	2000	Cum. 2000	Cum. 2000	Cum. 1999
UNITED STATES	1,168	1,170	11,963	15,786	6,417	6,662	-	61	-	18	79	94
NEW ENGLAND	102	97	352	340	97	139	-	3	-	4	7	11
Maine N.H.	2 12	8 18	21 18	14 17	5 18	1 16	-	2	2	- 1	- 3	- 1
Vt.	10 40	5	10	19	6	4	-	-	-	3	3 1	8
Mass. R.I.	4	39 6	122 25	138 26	18 22	33	-	1 -	-	-	-	-
Conn.	34	21	156	126	28	41	U	-	U	-	-	2
MID. ATLANTIC Upstate N.Y.	183 98	198 81	1,071 220	1,140 264	836 137	865 176	-	14 9	-	5	19 9	5 2
N.Y. City	42 33	57	375	385	428	275	-	5	-	4	9	3
N.J. Pa.	33 10	53 7	100 376	145 346	57 214	135 279	-	-	-	1	1	-
E.N. CENTRAL	150	194	1,497	2,867	693	687	-	9	-	-	9	4
Ohio Ind.	53 30	59 25	264 119	640 102	101 46	90 42	-	2	2	-	2	2
III.	54	83	623	816	110	52	-	4	-	-	4	1
Mich. Wis.	10 3	20 7	478 13	1,235 74	435 1	473 30	-	3	-	-	3	1 -
W.N. CENTRAL	74	75	699	1,025	526	347	-	3	-	2	5	1
Minn. Iowa	43 1	47 2	184 65	95 141	41 32	52 41	-	2	-	1	1 2	1
Mo. N. Dak.	18 4	11 1	301 4	667 3	381 2	215 2	-	-	-	-	-	-
S. Dak.	1	2	3	9	2	1	-	-	-	-	-	-
Nebr. Kans.	3 4	4 8	34 108	49 61	44 24	20 16	-	- 1	-	- 1	2	-
S. ATLANTIC	292	251	1,505	1,815	1,299	1,097	-	4	-	-	4	20
Del. Md.	- 75	- 68	221	2 299	120	1 145	-	-	-	-	-	-
D.C. Va.	- 39	5 22	35 154	59 175	34 162	25 97	-	2	-	-	2	- 18
W. Va.	9	7	55	40	21	23	-	-	-	-	-	-
N.C. S.C.	23 15	36 6	149 86	160 46	246 23	212 63	-	-	-	-	-	-
Ga. Fla.	70 61	68 39	289 516	452 582	222 471	166 365	-	- 2	-	-	- 2	2
E.S. CENTRAL	51	67	383	394	456	465	-	-	-	-	-	2
Ky. Tenn.	12 26	8 38	48 140	66 147	75 218	46 207	-	-	-	-	-	2
Ala.	12	18	57	60	56	86	-	-	-	-	-	-
Miss.	1	3	138	121	107	126	-	-	-	-	-	-
W.S. CENTRAL Ark.	58 2	61 2	2,224 112	2,962 74	706 78	1,104 84	-	-	-	-	-	12 5
La. Okla.	11 43	15 40	60 256	212 489	93 154	171 145	-	-	-	-	-	-
Tex.	2	4	1,796	2,187	381	704	-	-	-	-	-	7
MOUNTAIN Mont.	117 1	105 3	987 7	1,213 17	561 7	551 17	-	12	-	1	13	2
ldaho	4 1	1	42	45	8	29	-	-	-	-	-	-
Wyo. Colo.	21	1 14	45 207	9 215	38 110	14 98	-	2		- 1	3	-
N. Mex. Ariz.	24 49	19 54	70 474	51 670	113 210	174 131	-	-	-	-	-	- 1
Utah	11	9 4	64	63	27	34	-	3 7	-	-	3	-
Nev. PACIFIC	6 141	4 122	78 3,245	143 4,030	48 1,243	54 1,407	-	7 16	-	6	7 22	1 37
Wash.	8	8	279	387	113	76	-	2	-	1	3	5
Oreg. Calif.	29 33	41 53	177 2,765	244 3,362	120 989	114 1,186	1	- 13	1	2	- 15	12 17
Alaska Hawaii	45 26	9 11	11 13	13 24	10 11	16 15	-	1	-	- 3	1	- 3
Guam	- 20	-	-	24 1	-	15 4	U	-	U	э -	э -	3 1
P.R.	4	2	230	348	259	248	-		-	-	-	-
V.I. Amer. Samoa	U U	U U	U U	U U	U U	U U	U U	U U	U U	U U	U U	U U
C.N.M.I.	U	U	U	U	U	U	U	U	U	U	U	U

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending December 16, 2000, and December 18, 1999 (50th Week)

N: Not notifiable. U: Unavailable. - : No reported cases. *For imported measles, cases include only those resulting from importation from other countries. *Of 242 cases among children aged <5 years, serotype was reported for 105 and of those, 23 were type b.

		and	l Dece	mber 1	8, 1999	9 (50th	n Week)		-	
		gococcal ease		Mumps			Pertussis			Rubella	
Reporting Area	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999
UNITED STATES	1,966	2,243	4	308	364	68	6,368	6,400	-	151	249
NEW ENGLAND	122	108	-	4	9	6	1,566	861	-	13	7
Maine N.H.	8 12	5 12	-	-	2	-	45 125	96	-	2	-
Vt. Mass.	3 72	5 63	1	- 1	1 4	4	244 1,085	86 609	-	- 9	-7
R.I. Conn.	9 18	7 16	Ū	1 2	2	2 U	22 45	38 32	Ū	1	-
MID. ATLANTIC	189	222	-	24	- 44	2	45 616	1,020	-	9	35
Upstate N.Y.	65 37	71 56	-	11 4	12	2	313 51	764 60	-	2 7	21 7
N.Y. City N.J.	44	50	-	3	12 2	-	42	27	-	-	4
Pa.	43	45	-	6	18	-	210	169	-	-	3
E.N. CENTRAL Ohio	350 94	396 131	-	30 7	51 20	4	725 321	654 291	-	1	2
Ind. III.	48 78	64 104	-	1 6	5 13	3 1	119 79	82 97	-	- 1	1 1
Mich.	104	61	-	16	9	-	124	70	-	-	-
Wis.	26	36	-	-	4	-	82	114	-	-	-
W.N. CENTRAL Minn.	149 21	222 48	1 -	19	14 1	16 14	585 365	484 226	-	3 1	130 5
lowa Mo.	34 68	38 89	1	7 4	8 1	-	55 79	95 73	-	- 1	30 2
N. Dak. S. Dak.	2	4 11	-	-	1	-	7	18 7	-	-	
Nebr.	8	11	-	4	-	-	32	9	-	1	92
Kans.	10	21	1 2	4	3	2	40	56 120	-	-	1
S. ATLANTIC Del.	308 1	380 10	-	48	49	11 -	503 9	430 6	-	95 1	37
Md. D.C.	26	53 4	-	10	6 2	7	122 3	119 1	-	-	1
Va. W. Va.	42 12	55 8	1	11	10	1	112	51 4	-	-	-
N.C.	36	47	-	7	8	-	110	101	-	82	36
S.C. Ga.	26 47	44 61	-	11 2	5 4	2	41 40	18 40	-	10	-
Fla.	118	98	1	7	14	1	65	90	-	2	-
E.S. CENTRAL Ky.	130 26	156 33	1	8 1	15	1	106 54	111 42	-	5 1	2
Ténn. Ala.	55 36	64 36	- 1	2 3	11	1	32 19	45 21	-	1 3	- 2
Miss.	13	23	-	2	4	-	13	3	-	-	-
W.S. CENTRAL	131	207	-	31 5	46	1	338 36	215	-	6	15 5
Ark. La.	14 35	35 66	-	4	11	-	12	25 9	-	1	-
Okla. Tex.	28 54	35 71	-	22	3 32	1 -	41 249	41 140	-	- 5	1 9
MOUNTAIN	165	137	-	26	26	13	796	774	-	2	16
Mont. Idaho	6 7	4 12	-	1 1	- 3	-	35 64	2 145	-	-	-
Wyo. Colo.	3 34	5 36	-	4 2	- 6	-	6 457	2 287	-	- 1	- 1
N. Mex.	12	15	-	1	N	1	89	149	-	-	-
Ariz. Utah	91 8	41 16	-	4 7	8 4	12	99 31	118 58	-	1 -	13 1
Nev.	4	8	-	6	5	-	15	13	-	-	1
PACIFIC Wash.	422 64	415 65	-	118 11	110 2	14 12	1,133 416	1,851 645	-	17 7	5
Oreg. Calif.	75 266	76 259	N	N 86	N 89	2	113 550	60 1,091	-	- 10	- 5
Alaska	9	7	-	7	3	-	22	5	-	-	-
Hawaii	8	8 1	-	14	16	-	32	50 2	- U	-	-
Guam P.R.	9	13	U 	-	3	U	7	31	-	-	-
V.I. Amer. Samoa	U U	U U	U U	U U	U U	U U	U U	U U	U U	U U	U U
C.N.M.I.	Ŭ	Ŭ	Ŭ	Ū	Ũ	Ŭ	Ũ	Ũ	Ũ	Ũ	Ŭ

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending December 16, 2000, and December 18, 1999 (50th Week)

N: Not notifiable.

U: Unavailable.

-: No reported cases.

December						10, 2	0, 2000 (JULII WEEK)								
	4	All Cau	ses, By	Age (Y	ears)		P&I⁺			All Cau	ses, By	Age (Y	'ears)		P&I⁺
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass.	542 150	367 69	91 28	53 32	16 11	15 10	60 18	S. ATLANTIC Atlanta, Ga.	1,289 173	868 117	266 34	102 18	35 4	17	79 4
Bridgeport, Conn	. 45	38	4	2	-	1	3	Baltimore, Md.	205	116	60	22 7	6	1	17
Cambridge, Mass Fall River, Mass.	. 14 30	10 21	5	2 4	-	-	3	Charlotte, N.C. Jacksonville, Fla.	. 102 . 171	77 111	14 37	15	4 3	-4	9 7
Hartford, Conn. Lowell, Mass.	50 25	32 20	10 4	5 1	2	1	2 7	Miami, Fla. Norfolk, Va.	92 54	58 37	21 10	7 5	3 1	3 1	12 1
Lynn, Mass.	13	10	2	-	1	-	3	Richmond, Va.	56	39	13	3	-	1	5
New Bedford, Ma New Haven, Conn		24 31	2 11	-	- 1	- 2	3 5	Savannah, Ga. St. Petersburg, F	40 la. 82	31 64	6 8	1 9	- 1	2	4 4
Providence, R.I.	U	U	U	U	Ú	Ū	U	Tampa, Fla.	189	143	30	6	8	2	15
Somerville, Mass Springfield, Mass	. 55	2 42	8	3	1	1	-3	Washington, D.C Wilmington, Del		57 18	26 7	9	5	3	1 -
Waterbury, Conn. Worcester, Mass.	26 61	23 45	2 13	1 3	-	-	2 11	E.S. CENTRAL	930	652	152	64	32	27	68
MID. ATLANTIC	2.250	1,589	462	136	- 36	- 24	134	Birmingham, Ala	a. 167	118	31 12	11	2	2 1	16 4
Albany, N.Y.	37	30	5	130	1	- 24	3	Chattanooga, Te Knoxville, Tenn.	114	64 85	20	3 9	-	-	10
Allentown, Pa. Buffalo, N.Y.	15 99	13 76	2 16	- 5	2	-	1 12	Lexington, Ky. Memphis, Tenn.	69 185	46 134	11 16	8 7	2 12	2 16	4 11
Camden, N.J.	29	22	4	2	1	-	4	Mobile, Ala.	98	72	12	8	5	1	5
Elizabeth, N.J. Erie, Pa.§	23 50	16 40		1 2	1	- 1	-3	Montgomery, Al Nashville, Tenn.	a. 60 155	36 97	11 39	5 13	7 2	1 4	5 13
Jersey City, N.J. New York City, N.	52	30 833		3 74	1 13	1 10	- 55	W.S. CENTRAL	1.064	708	206	89	31	28	71
Newark, N.J.	66	27	18	13	4	4	5	Austin, Tex.	98	68	16	11	3	-	10
Paterson, N.J. Philadelphia, Pa.	32 282	19 198	9 63	3 13	1	-3	3 20	Baton Rouge, La Corpus Christi, 1	ex. 54	25 42	7 7	4 1	1 2	4 2	4
Pittsburgh, Pa.§	46	36	5	3	2	-	1	Dallas, Tex. El Paso, Tex.	183 67	122 45	28 11	25 7	3 1	5	14 3
Reading, Pa. Rochester, N.Y.	34 117	26 92	4 14	2 9	- 1	2 1	5 7	Ft. Worth, Tex.	103	70	23	5	1	4	2
Schenectady, N.Y Scranton, Pa.§	. 28 29	19 26	7 2	1 1	1	-	3 2	Houston, Tex. Little Rock, Ark.	U 49	U 25	U 17	U 2	U 3	U 2 3	U 2
Syracuse, N.Y.	92	61	22	3	4	2	4	New Orleans, La	. 71	42 174	9	11	4	3	14
Trenton, N.J. Utica, N.Y.	3 25	3 22		-	-	-	3 3	San Antonio, Te: Shreveport, La.	15	12	55 2	15	9	4	10 4
Yonkers, N.Y.	Ū	Ū	Ŭ	U	U	U	Ŭ	Tulsa, Okla.	126	83	31	8	4	-	8
E.N. CENTRAL	2,113 49	1,483		136	51	44	143 3	MOUNTAIN Albuquerque, N	956 .M. U	646 U	183 U	66 U	32 U	28 U	65 U
Akron, Ohio Canton, Ohio	42	38 32	6 7	4 2	1 1	-	6	Boise, Idaho	31	26	4	-	-	1	3
Chicago, III. Cincinnati, Ohio	354 170	241 118	65 44	28 6	11 1	9 1	25 12	Colo. Springs, C Denver, Colo.	olo. 81 110	46 73	17 23	13 5	3 2	2 7	6 8
Cleveland, Ohio	137	104	20	7	1	5	5	Las Vegas, Nev. Ogden, Utah	243 26	154 20	65 4	16 2	7	1	19 1
Columbus, Ohio Dayton, Ohio	163 144	117 112	23 23	11 6	5 2	7 1	9 12	Phoenix, Ariz.	200	133	33	13	9	11	10
Detroit, Mich.	236	131	63	23	14	5	9	Pueblo, Colo. Salt Lake City, U	U tah 111	U 77	U 14	U 9	U 5	U 6	U 10
Evansville, Ind. Fort Wayne, Ind.	29 63	25 42	4 19	- 1	1	-	7 6	Tucson, Ariz.	154	117	23	8	6	-	8
Gary, Ind. Grand Rapids, Mi	16 ch. 71	10 54		3 6	1 2	- 3	2 5	PACIFIC	861	632	152	41	17	16	91
Indianapolis, Ind.	205	138	43	15	5	4	18	Berkeley, Calif. Fresno, Calif.	UU	U U	U U	U U	U U	U U	U U
Lansing, Mich. Milwaukee, Wis.	28 115	21 81	3 21	3 8	- 1	1 4	1 12	Glendale, Calif.	U	U	U	U	Ŭ	U	U
Peoria, III.	50	35	10	4	-	1	2	Honolulu, Hawa Long Beach, Cali		49 57	7 16	2 4	2	1 1	2 11
Rockford, III. South Bend, Ind.	62 U	49 U	9 U	2 U	1 U	1 U	2 U	Los Angeles, Cal Pasadena, Calif.		U 13	U 3	U 1	U	U	U 3
Toledo, Ohio	100 0 79	78 57	13 18	6 1	2	1	5 2	Portland, Oreg.	148	112	28	3	4	1	10
Youngstown, Ohi		-			2 19	18	2 59	Sacramento, Cal San Diego, Calif.		U 135	U 31	U 12	U 2	U 1	U 27
W.N. CENTRAL Des Moines, Iowa		611 73		55 4	19	18	10	San Francisco, C	alif. 144	97	28	9	4	5	18
Duluth, Minn. Kansas City, Kans	. 50 . 25	41 16	6 7	3 2	-	-	3 2	San Jose, Calif. Santa Cruz, Calif	U . 34	U 22	U 11	U 1	U	U	U 4
Kansas City, Mo.	103	64	26	5	4	4	13	Seattle, Wash. Spokane, Wash.	134 62	99 48	20 8	4 5	4 1	7	10 6
Lincoln, Nebr. Minneapolis, Min	38 n. 127	32 93	3 21	2 7	- 5	1 1	2 6	Tacoma, Wash.	02 U	48 U	ů	Ŭ	ΰ	U	Ů
Omaha, Nebr.	97	77	13	4	2	1	10	TOTAL	10,843¶	7,556	2,046	742	269	217	770
St. Louis, Mo. St. Paul, Minn.	92 112	46 95	11	22 2	1 2	6 2	6								
Wichita, Kans.	98	74		4	3	2	7								

TABLE IV. Deaths in 122 U.S. cities,* week ending December 16, 2000 (50th Week)

U: Unavailable. -: No reported cases.

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

¹Because 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. ¹Total includes unknown ages.

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