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Progress Toward Poliomyelitis Eradication — West and Central Africa, 1999–2000

In 1988, the World Health Assembly of the World Health Organization (WHO) resolved to eradicate poliomyelitis by 2000 (1). Reported polio cases have decreased on all continents. In 2000, poliovirus was isolated from 24 countries, 13 in the African Region of WHO (AFR). This report summarizes the routine polio vaccination coverage, surveillance for acute flaccid paralysis (AFP*) during 1999 and 2000, and the synchronization of national immunization days (NIDs¹) against polio during 2000 and early 2001 in 16 countries in west and central Africa§.

Routine Vaccination

During 1999, routine vaccination coverage with three doses of oral poliovirus vaccine (OPV3) among infants aged 1 year was approximately 48% in the 16 countries (range: 12%–90%) (Table 1). In comparison, reported OPV3 coverage in AFR was approximately 55% in 1999 and has remained relatively stable since 1990 (2).

AFP Surveillance

During 2000, AFP surveillance improved in all countries except Chad and Côte d' lvoire (Table 1). The number of confirmed polio cases in the West Africa Region, Cameroon, and Chad decreased from 1309 in 1999 to 879 in 2000. The number of polio cases confirmed by wild virus isolation decreased from 186 in 1999 to 41 in 2000 (Table 1). With the exception of Ghana, Côte d'Ivoire, and Niger, the proportion of AFP cases with adequate specimens substantially increased in all countries from 26%–74% in 1999 to 37%–84% in 2000.

^{*}AFP surveillance is a monitor of the sensitivity of detection and accuracy of reporting suspected cases (target: an annual rate of >1 nonpolio AFP cases per 100,000 children aged <15 years).

[†] Nationwide mass campaigns over a short period (days to weeks), in which two doses of oral poliovirus vaccine are administered to all children in the target group (usually aged <5 years), regardless of vaccination history, with an interval of 4–6 weeks between doses.

[§] Benin, Burkina Faso, Cameroon, Chad, Gambia, Ghana, Guinea, Guinea-Bissau, Côte d' Ivoire, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone, and Togo. Initially, Mauritania also was included; however, logistic problems prohibited Mauritania from participating in the synchronized NIDs.

TABLE 1. Percentage of children receiving routine vaccination coverage with three doses of oral poliovirus vaccine (OPV3), confirmed poliomyelitis cases*, acute flaccid paralysis (AFP) rate[†], and percentage of AFP cases with adequate specimens[§], by country — West Africa Region, Cameroon, and Chad, 1999–2000

		199	99		2000					
Country	Routine vaccination coverage with OPV3	Confirmed polio (wild virus)	AFP rate	% AFP cases with adequate specimens	Confirmed polio (wild virus)	AFP rate	% AFP cases with adequate specimens			
Benin	90%	37 (8)	1.4	42%	1 (1)	2.5	48%			
Burkina Faso	34%	5 (0)	0.9	26%	0 (0)	1.7	64%			
Cameroon	48%	1 (1)	1.5	74%	0 (0)	2.5	84%			
Chad	34%	110 (35)	1.7	36%	60 (4)	1.2	60%			
Côte d'Ivoire	60%	9 (9)	1.8	60%	1 (1)	1.8	58%			
Gambia	90%	0 (0)	0.0	NA	6 (0)	1.4	38%			
Ghana	72%	3 (3)	1.4	50%	107 (5)	1.9	47%			
Guinea	57%	22 (4)	0.9	43%	0 (0)	3.1	83%			
Guinea-Bissau	ı 12%	0 (0)	0.0	NA	0 (0)	2.2	55%			
Liberia	25%	42 (11)	2.4	36%	0 (0)	2.5	68%			
Mali	52%	22 (4)	0.4	51%	0 (0)	3.3	58%			
Niger	21%	56 (10)	1.1	44%	33 (2)	1.2	37%			
Nigeria	22%¶	981 (98)	0.5	26%	637 (28)	0.7	37%			
Senegal	49%	0 (0)	1.5	58%	0 (0)	3.6	73%			
Sierra Leone	56%¶	14 (2)	0.5	33%	34 (0)	1.4	41%			
Togo	48%	1 (1)	1.5	58%	0 (0)	3.8	68%			
Total		1309 (186)			879 (41)					

^{*} Clinical diagnosis and wild virus isolation.

Synchronization of NIDs

Most of the countries in west and central Africa have conducted annual NIDs since 1996. Despite the progress achieved by these countries, wild poliovirus was still circulating during 2000. To maximize the number of susceptible children reached during NIDs, 14 contiguous countries in the West Africa Region and Cameroon and Chad conducted synchronized NIDs against polio during October and November 2000 and January 2001. The WHO intercountry program (ICP) office in Abidjan, Côte d'Ivoire, coordinated this effort. Coordinated cross-border activities were implemented by 14 of the 16 countries. Planning meetings for these activities were conducted in four border towns corresponding to the following country cross-border activities: 1) Senegal-Gambia-Guinea–Bissau; 2) Côte d'Ivoire-Mali-Burkina Faso; 3) Burkina Faso-Ghana-Togo; and 4) Benin-Niger-Nigeria (Figure 1). Inclusion of high-risk and special populations living in border areas were considered, and special resources were allocated to the border districts for the implementation of this activity. Approximately 300,000 health personnel were trained and mobilized for implementation of the synchronized NIDs, and approximately 180 million doses of OPV were distributed to participating countries.

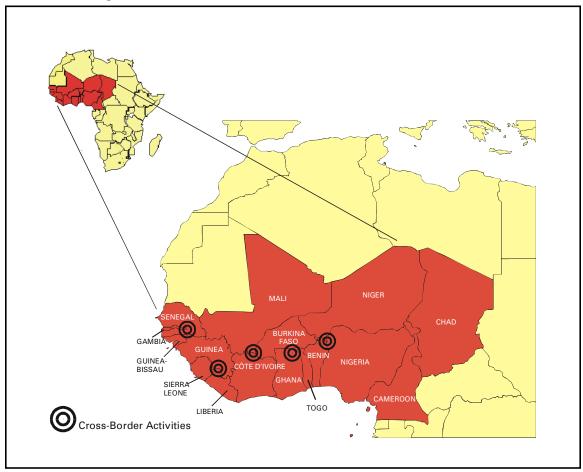
[†] Per 100,000 children aged <15 years.

⁵ Two stool specimens collected at an interval of at least 24 hours apart, within 14 days of onset of paralysis, and received in satisfactory condition at the laboratory.

[¶] Data for 1998.

The polio eradication initiative in AFR is supported by member countries. External funding is provided by Rotary International; United Nations Children's Fund; the governments of Canada, United States, United Kingdom, Norway, and Belgium; the United Nations Foundation; the Gates Foundation; the De Beers Corporation; WHO; and CDC.

FIGURE 1. Location of cross-border activities during National Immunization Days — West Africa Region, Cameroon, and Chad, 2000–2001



The estimated number of children vaccinated increased from 65 million in 1999 to 77 million in November 2000 (Table 2). In all countries except Senegal, the proportion of children vaccinated in 2000 was greater than that during the 1999 NIDs. In addition, the number of children aged <5 years vaccinated for the first time decreased from 1,326,476 in October 2000 to 1,161,283 in November 2000.

Reported by: World Health Organization Inter-Country Program Office, Abidjan, Côte d'Ivoire. Expanded Program on Immunization, World Health Organization, Regional Office for Africa, Harare, Zimbabwe. Vaccines and Biologicals Dept, World Health Organization, Geneva, Switzerland. Respiratory and Enteric Viruses Br, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Vaccine Preventable Disease Eradication Div, National Immunization Program, CDC.

Editorial Note: Substantial progress in polio eradication occurred during 1999–2000 in west and central Africa. Poliovirus transmission can be interrupted in the remaining countries where polio is endemic if vaccination activities are of high quality and NIDs continue to be synchronized within major epidemiologic blocs. The synchronization of NIDs in west and central Africa during 2000 and early 2001 is expected to reduce and eventually eliminate wild poliovirus transmission.

TABLE 2. Number of children vaccinated with oral poliovirus vaccine during National Immunization Days (NIDs)* and percentage difference during 1999–2000, by country — West Africa, Cameroon, and Chad

	No. children vaccinated during	2000 NIDs target		en vaccinated 2000 NIDs⁵	% difference in children vaccinated
Country	1999 NIDs	population [†]	Round 1	Round 2	1999–2000
Benin	1,423,181	1,196,905	1,540,719	1,618,799	11%
Burkina Faso	2,314,255	2,286,884	2,546,153	2,640,535	12%
Cameroon	2,923,836	2,585,161	2,918,992 [¶]	3,205,745¶	5%
Chad	1,531,567	1,501,516	1,701,266¶	1,648,687¶	9%
Côte d'Ivoire	2,708,131	3,413,595	3,664,883¶	3,640,204	35%
Gambia	219,873	289,066	246,258	270,269	17%
Ghana	3,540,194	3,682,449	4,321,153	4,571,981	26%
Guinea	1,696,360	1,603,043	1,725,194	1,829,617	5%
Guinea-Bissau	158,908	222,897	227,594	213,266	39%
Liberia	776,597	911,423	798,848	832,477	5%
Mali	2,628,434	2,810,043	2,810,270	2,918,154	9%
Niger	2,782,469	2,888,026	2,982,781	3,005,602	8%
Nigeria	38,593,306	39,272,016	40,372,548	46,865,258	13%
Senegal	1,919,491	1,871,649	1,919,763	1,888,921	0
Sierra Leone	701,744	1,079,089	861,273	842,817	21%
Togo	1,043,183	994,261	1,119,981	1,156,091	9%
Total	64,961,529	66,608,023	69,757,676	77,148,423	13%

^{*} Nationwide mass campaigns over a short period (days to weeks), in which two doses of oral poliovirus vaccine are adminstered to all children in the target group (usually aged <5 years), regardless of vaccination history, with an interval of 4–6 weeks between doses.

NIDs have resulted in millions of children being vaccinated against polio who otherwise would not have been reached. The strategies used during NIDs have included fixed-posts**, house-to-house^{††}, and a combination of the two approaches. High-quality house-to-house vaccination campaigns are essential for reaching susceptible children in high-risk areas, including border areas with large population movements.

Coordinated multicountry vaccination campaigns have been conducted previously. Since 1995, synchronized mass campaigns conducted by 18 countries from the Middle East, Central Asia, and the Caucasus regions (MECACAR) achieved high vaccination coverage. Approximately 62 million children, 95% of children aged <5 years, were vaccinated every year during 1995–1997 (3,4). A high level of political support in the 16 countries enabled implementation of NIDs. Heads of state and other prominent political leaders were involved in all stages of the activity.

Three of the participating countries experienced civil unrest or war at the time of the NIDs. However, all three implemented NIDs and conducted cross-border activities, demonstrating that polio eradication activities can be implemented in countries in conflict and can promote peace building. Rival factions agreed to respect cease-fires so that children could be vaccinated. Additional potential peace-building efforts were demonstrated by the interaction between the ministries of health, external affairs, and other bodies of the

[†] Children aged 0–59 months.

[§] First round conducted during October 2000 and the second round during November 2000.

[¶] First round conducted during November 2000 and the second during January 2001.

^{**} Parents bring their children to a specific health post for vaccination on a predetermined date(s).

^{††} Health-care workers vaccinate children by going from one house to the next on a predetermined date(s).

government with their counterparts from neighboring countries fostered by the crossborder activities. The advantages of such collaborations are that other public health programs could benefit from the networks developed for the synchronized NIDs.

The synchronized polio campaign in Africa resulted in improvements in the infrastructure of national vaccination programs through strengthening of the Expanded Program on Immunization in specific areas, such as cold chain and vaccine distribution systems, and through additional training of health professionals. Experiences during this campaign will be useful in planning and implementing synchronized NIDs in central Africa, which are scheduled for later this year.

The lack of experience implementing the house-to-house strategy and poor microplanning in some countries were limitations in implementing synchronized NIDs in west and central Africa. Additional efforts will be required to coordinate efficiently the flow of information and data management at the ICP office in Abidjan. These problems may be addressed by 1) earlier planning of NIDs; 2) centralizing the information at the ICP coordinating office; 3) improving mapping and microplanning at the smallest administrative unit; 4) maintaining more efficient field supervision of vaccination teams; and 5) allocating sufficient staff to identify more quickly and correct problems. A decrease in the number of polio cases this year will be the best indicator of the quality of the synchronized campaign in west and central Africa. The success in the implementation of synchronized NIDs should encourage other epidemiologic blocs to use the same strategy. Certification of global polio eradication by 2005 will require continued synchronized mass vaccination campaigns and high-quality AFP surveillance.

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Exposure to Patients With Meningococcal Disease on Aircrafts — United States, 1999–2001

Neisseria meningitidis is a leading cause of bacterial meningitis and sepsis in children and young adults in the United States and is spread through direct contact with respiratory secretions (1). Persons in close contact with patients who have meningococcal disease are at increased risk for contracting the disease (1). Commercial aircraft are suitable environments for the spread of airborne pathogens, including N. meningitidis (2). A case of air-travel—associated meningococcal disease is defined as a patient who meets the case definition of meningococcal disease (3) within 14 days of travel on a flight of at least 8 hours duration. Because of concerns about disease transmission aboard aircraft, CDC has developed recommendations to ensure a standard approach to management of airline contacts. This report presents a case of air-travel—associated meningococcal disease and presents guidelines for the management of persons potentially exposed to meningococcus during air travel.

Case Report

On May 24, 2001, the New York Department of Health (NYDH) reported a 62-year-old man with meningococcal meningitis to the CDC quarantine station at John F. Kennedy (JFK) International Airport. On May 20, the passenger arrived from Sydney, Australia, after changing planes at Los Angeles International Airport. He began to feel ill during his flight and was assisted from the plane in a wheelchair. No public health officer at JFK airport was contacted to report an ill passenger on board the aircraft.

On May 23, the man was hospitalized, and microscopic examination of cerebrospinal fluid (CSF) showed gram-negative diplococci. On May 25, the patient's CSF grew *N. meningitidis*, serogroup B, and he was diagnosed with meningococcal meningitis.

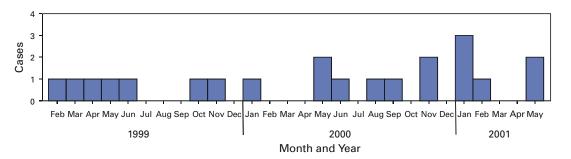
NYDH requested assistance in identifying any airline passengers who required chemoprophylaxis. A New York quarantine inspector contacted the airline station manager to request the flight manifest and passenger contact information. The manifest was not available locally and could be obtained only from the airline's corporate headquarters in Australia. Because contact information from the airline was not complete, quarantine inspectors in New York and Los Angeles manually extracted passenger names and addresses from the customs declaration forms that each international traveler completes on entry to the United States. Within 2 days, they were able to identify the two passengers sitting on either side of the patient. This information was relayed to the two passengers' respective state health departments. One exposed contact could not be located at the address provided on the customs form. The other contact was asymptomatic and the state health department recommended that he take appropriate chemoprophylaxis.

Surveillance Measures

CDC employs a passive surveillance system by which local health departments report suspected cases of air-travel–associated meningococcal disease. From February 1999 through May 2001, CDC received 21 reports, an average of one report every 6 weeks (Figure 1). Approximately half of these cases were reported to a CDC airport quarantine station, and the rest were reported to CDC headquarters. The mean time between the completion of the flight and the onset of illness was 1.9 days (range: 0–10 days). Five case-patients had onset of illness before arrival.

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FIGURE 1. Reported incidents of air-travel–associated meningococcal disease, by date of air travel — United States, February 1999–May 2001



Editorial Note: Chemoprophylaxis of persons in close contact with an index case-patient is the primary means for prevention of secondary cases of meningococcal disease. Close contacts at high risk for secondary disease include household members, day care center contacts, and anyone directly exposed to a patient's oral secretions (e.g., through kissing and endotracheal tube management) (1). The attack rate among household contacts of patients with meningococcal disease is an estimated 500–800 times greater than the general population (4).

Because the risk for illness is highest during the first few days after infection, chemoprophylaxis should be administered as soon as possible (ideally within 24 hours) after contact with an index case-patient. Chemoprophylaxis administered >14 days is probably of limited or no value. Systemic antibiotics that effectively eliminate nasopharyngeal carriage of *N. meningitidis* include rifampin, ciprofloxacin, and ceftriaxone (Table 1) (1).

No cases of secondary disease among air travel contacts of persons with meningo-coccal disease have been reported; however, passengers who are seated next to a person with meningococcal disease for a prolonged flight may be at higher risk for developing meningococcal disease. Seven investigations of *Mycobacterium tuberculosis* transmission on airplanes suggest that in-flight transmission of bacterial respiratory pathogens do occur (5). One of these investigations documented transmission of *M. tuberculosis* from a symptomatic index case-patient to six passengers with no other risk factors who were sitting in the same section of a commercial aircraft during a long flight (>8 hours) (6).

CDC, in collaboration with the Council of State and Territorial Epidemiologists, has developed procedures for the management of air-travel–associated exposure to meningococcus (7,8). These recommendations are intended to provide uniformity to the procedures followed by the various federal, state, and local health agencies involved in contact investigation and management for meningococcal cases occurring in airline passengers.

TABLE 1. Schedule for administering chemoprophylaxis against meningococcal disease

Drug	Age group	Dosage	Duration and route of administration*
Rifampin [†]	Children <1 mo Children ≥1 mo Adults	5 mg/kg every 12 hrs 10 mg/kg every 12 hrs 600 mg every 12 hrs	2 days 2 days 2 days
Ciprofloxacin§	Adults	500 mg	Single dose
Ceftriaxone	Children <15 yrs	125 mg	Single intramuscular dose
Ceftriaxone	Adults	250 mg	Single intramuscular dose

^{*}Oral administration unless indicated otherwise.

[†] Rifampin is not recommended for pregnant women because the drug is teratogenic in laboratory animals. Because the reliability of oral contraceptives may be affected by rifampin therapy, consideration should be given to using alternative contraceptive measures while rifampin is being administered.

[§] Ciprofloxacin generally is not recommended for persons aged <18 years or for pregnant and lactating women because the drug causes cartilage damage in immature laboratory animals. However, ciprofloxacin can be used for chemoprophylaxis of children when no acceptable alternative is available.

Health departments from the jurisdiction where the patient resides and where the patient has been visiting should be contacted promptly to facilitate antimicrobial chemoprophylaxis of household members, day care center contacts, and other possible close contacts. Household members traveling with an index case-patient, persons traveling with an index case-patient who have had prolonged close contact (e.g., roommates), and anyone having direct contact with a patient's oral secretions should be identified and the need for antimicrobial chemoprophylaxis evaluated. The assessment of risk to passengers and flight crew members should be based on the flight duration and seating proximity to the index case-patient. For flights of >8 hours, including ground time, passengers who are seated immediately next to an index case-patient are more likely to be exposed directly to the patient's oral secretions and are probably at higher risk than those seated farther from the index case-patient. In the absence of data about increased risk to other passengers, antimicrobial chemoprophylaxis should be considered for those passengers seated in either seat next to an index case-patient.

Because passengers disperse over a wide area after arrival, federal health authorities should work with the travel industry to identify passengers requiring chemoprophylaxis. On notification of an air passenger with potential meningococcal disease, the CDC quarantine station with jurisdiction over the port of entry will contact the airline to obtain a passenger manifest, which includes the name and seat assignment for all passengers on the flight. Once quarantine inspectors identify potentially exposed travelers, their names are cross-referenced with the airline's passenger history record that includes a telephone number and frequently an address for the patient. State or local health departments in the patient's area of residence should be responsible for contacting each exposed traveler. If the exposed passenger is a foreign national temporarily visiting the United States, the CDC quarantine station can assist in locating and contacting the person. In addition, the quarantine station will notify the national health authority of the passenger's home country.

Most cases of meningococcal disease among air passengers are not detected until after the flight has landed and the passengers have dispersed. CDC and state health departments should enhance surveillance for secondary cases associated with air travel. To facilitate this process, state and local health departments and private physicians should ask all persons with meningococcal disease about recent travel, including flight information.

Occasionally, a passenger's illness becomes evident during a flight. During the previous 2 years, five passengers with symptomatic meningococcal disease have flown on international flights to the United States. The airline crew reported only one of these cases before arrival, a critically ill passenger who later died. Federal law requires that an ill passenger on an international conveyance must be reported to the Public Health Service before arrival in the United States*. The pilot should contact the closest of eight CDC quarantine stations that are located at international airports to report an ill passenger. Quarantine station staff will assist the airline in management of the ill passenger and notification of fellow passengers and crew members. Many pilots are not familiar with the requirement to report arriving ill passengers aboard flights. Commercial pilot in-flight manuals should be updated to include procedures for managing an ill passenger and detailed information on how to contact the closest CDC quarantine station.

^{* 42} CFR 71.21(b).

Notification of meningococcal exposures on an aircraft is frequently hindered by difficulty in obtaining passenger contact information. Airlines typically maintain the passenger manifest and history records for 2–7 days, after which they are either archived or destroyed. Some airborne pathogens other than meningococcus have longer incubation periods, including tuberculosis and many bioterrorism agents. As a result, it may be necessary to contact passengers several weeks after a flight has disembarked. To facilitate timely identification and public health notification and management of at-risk passengers, commercial airlines should ensure that electronic passenger manifests and contact information are preserved and readily available for a period of at least 1 month following disembarkation.

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University Outbreak of Calicivirus Infection Mistakenly Attributed to Shiga Toxin-Producing *Escherichia coli* O157:H7 — Virginia, 2000

On February 21–22, 2000, the Virginia Department of Health (VDH) was notified by a university student health center of two suspected cases of *Escherichia coli* O157:H7. At a local hospital laboratory, stool specimens from the two ill students tested positive for Shiga toxin-producing *E. coli* (STEC) using a commercially available enzyme immunoassay (EIA) kit. Further investigation revealed that the outbreak of gastrointestinal illness was caused by a Norwalk-like virus (NLV), a member of the calicivirus family. This report summarizes the outbreak investigation and laboratory findings used to identify the causative agent, and highlights the need for follow-up cultures on all specimens testing positive for STEC by EIA and for submission of isolates to state laboratories so that public health agencies can respond appropriately in identifying common source outbreaks.

Three staff members from Virginia's epidemiology office were sent to assist the local health department with the epidemiologic and environmental investigations. VDH staff interviewed 12 students who had sought care for gastrointestinal symptoms at the student health center during the previous week. Most students reported illnesses that

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appeared more likely to be caused by a virus than by STEC (i.e., vomiting and/or diarrhea lasting 1–2 days that occurred approximately 24–48 hours after eating at an area restaurant [restaurant A]). Other restaurant patrons were located by questioning ill students about persons they knew or recognized at restaurant A on February 18. A case of illness was defined as vomiting or diarrhea occurring within 72 hours of eating at restaurant A. A survey was conducted of 36 ill and 32 well restaurant A patrons. The median incubation period was 31.3 hours (range: 2.5–49.0 hours). Symptoms included nausea (97%), vomiting (97%), abdominal cramps (86%), chills (78%), muscle aches (67%), fever (64%), headache (61%), and diarrhea (58%). The median illness duration was 26.5 hours (range: 6–120 hours). One ill person was hospitalized and 10 others sought medical care. Eating a sandwich or "sub" (76%) was associated highly with illness (relative risk=14.5; 95% confidence interval=2.1–98.1). No other food item was associated with illness.

The two stool specimens that had tested positive for Shiga toxin at the local hospital laboratory did not yield *E. coli* O157:H7 or other STEC when tested on February 29 at the Virginia Division of Consolidated Laboratory Services (DCLS) using standard biochemical and EIA analysis. Additional stool specimens obtained from ill persons and submitted to DCLS also did not yield Shiga toxin-producing organisms. On subsequent testing by reverse transcriptase-polymerase chain reaction, four of eight specimens were positive for NLV. These results were consistent with the patients' clinical presentation.

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Editorial Note: In 1995, rapid assays for Shiga toxin first became commercially available. These nonculture assays can detect *E. coli* O157:H7 and other Shiga toxin-producing strains in stool specimens and culture broth (1). However, as the findings in this report illustrate, these nonculture rapid assays are subject to false positives, which can result in unnecessary public concern and expenditure of public health resources. Follow-up cultures are needed to confirm the presence of STEC and to obtain isolates for subtyping by pulsed-field gel electrophoresis at state public health laboratories.

Although subtyping is of limited value to the individual patient, it is a useful tool for identifying and responding to common source outbreaks caused by *E. coli* O157:H7 (2). Several states require clinical laboratories to submit *E. coli* O157:H7 isolates for this purpose. Routine submission of all STEC to state public health laboratories also allows enhanced surveillance for illness caused by non-O157 STEC. In 2000, the Council of State and Territorial Epidemiologists adopted a position supporting culture confirmation of positive results from rapid assay tests for pathogens of public health importance (3).

Because the clinical signs and symptoms of NLV infection are nonspecific and overlap with other causes of foodborne disease, criteria were developed to aid health-care providers in identifying NLV-associated infection (4,5). These criteria include 1) an illness of 12–60 hours duration, 2) an incubation period of 12–36 hours, and 3) an illness characterized by acute onset of nausea, vomiting, diarrhea, abdominal cramping, and, in some cases, fever and malaise (4,6). Diarrhea is usually more common among adults and vomiting is usually more common among children (4). Additional information on NLV is

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available from CDC's National Center for Infectious Diseases, Division of Viral and Rickettsial Diseases, Respiratory and Enteric Viruses Branch, Viral Gastroenteritis Section at http://www.cdc.gov/od/oc/media/fact/norwalkv.htm.

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Kernicterus in Full-Term Infants — United States, 1994–1998

Kernicterus is a preventable life-long neurologic syndrome caused by severe and untreated hyperbilirubinemia during the neonatal period. High levels of bilirubin are toxic to the developing newborn. In full-term infants, hyperbilirubinemia symptoms include severe jaundice, lethargy, and poor feeding. Features of kernicterus may include choreoathetoid cerebral palsy, mental retardation, sensorineural hearing loss, and gaze paresis. Kernicterus is not a reportable condition in the United States, and its prevalence is unknown; however, a pilot registry at a Pennsylvania hospital documented 90 cases in 21 states from 1984 to June 2001 (L. Johnson, Pennsylvania Hospital, Philadelphia, personal communication, 2001). This report summarizes case histories of four full-term, healthy infants who developed kernicterus and underscores that to prevent kernicterus, newborns must be screened and promptly treated for hyperbilirubinemia (1).

In early 2001, a national support group for parents of children with kernicterus conducted a survey on kernicterus. A convenience sample of 15 families was identified by word-of-mouth or through the Internet, and a self-administered questionnaire was mailed. For this report, a case was defined as a child in whom kernicterus (*International Classification of Diseases, Ninth Revision,* Clinical Modification, codes 773.4, 774.6, and 774.7) was diagnosed since 1994, who was >37 weeks' gestational age, and who weighed at birth >5 lbs, 5 oz (>2500 g). Among the sample families, seven did not complete the questionnaire, four had children who did not meet the case definition, and the remaining four had children who did meet the case definition.

Case Reports

Case 1. In 1994, an apparently healthy white boy was born at 37 weeks' gestation weighing 6 lbs, 13 oz (3090 g). Delivery was uncomplicated. His 1 minute and 5 minute Apgar scores were eight and nine, respectively (normal range: seven–10). His mother's blood type was O+, and the newborn was A+, Coombs negative. On discharge at 20 hours, he was alert and nursing well; a 2-week follow-up appointment was scheduled at a pediatric clinic. On day 9, the infant was taken to a pediatric clinic with jaundice. The

Kernicterus in Full-Term Infants — Continued

condition was thought to be the result of breastfeeding. That evening, he exhibited lethargy, was not nursing, and had "pumpkin orange" skin coloration. On day 10, the parents notified their physician about the infant's lethargy and poor eating and were given an appointment for the following morning. During a pediatric appointment on day 11, the infant weighed 5 lbs, 10 oz (2552 g), was dehydrated, and jaundiced. A tested serum sample revealed an elevated bilirubin of 41.5 mg/dL (normal range at age >72 hours: <17 mg/dL). Despite treatment with phototherapy and two double-volume exchange transfusions, on day 11, he developed athetosis, oral-motor dysfunction requiring a gastrostomy tube, and dental dysplasia. Kernicterus was diagnosed at age 6 months.

Case 2. In 1995, an apparently healthy white boy was born at 37 weeks' gestation weighing 6 lbs, 5 oz (2863 g). Apgar scores were eight and nine at 1 and 5 minutes, respectively. At 17, 23, and 33 hours, jaundice was noted. No serum bilirubin level or ABO or Rh status was disclosed. Examination revealed normal neurologic and physical findings, and he was discharged after 36 hours; a follow-up appointment at a pediatric clinic was scheduled at 1 week. On day 4, the patient exhibited lethargy and poor breastfeeding. On day 5, he was admitted to a hospital. Laboratory findings included a bilirubin level of 34.6 mg/dL, and phototherapy was started. Later that day, the patient developed opisthotonus, a high-pitched cry, and poor suckling and later developed athetoid cerebral palsy, hearing loss, and gaze paresis. Kernicterus was diagnosed at age 18 months.

Case 3. In 1997, an apparently healthy white boy was born at 37 weeks' gestation weighing 8 lbs, 2 oz (3686 g). His Apgar scores were nine at 1 and 5 minutes. On discharge at 22 hours, a cephalohematoma and heart murmur were noted. The following day, the infant was taken to a pediatric clinic where examination found jaundice but no heart murmur. Fifteen minutes of sunlight per day was recommended as treatment. During the next 4 days, the infant developed lethargy and poor breastfeeding. On day 6, he was taken to a pediatric clinic where a serum sample was drawn and tested. Results included a bilirubin level of 27 mg/dL; phototherapy was started. By 11 p.m., the patient's bilirubin peaked at 33.4 mg/dL, and he received an exchange transfusion. During the next 4 months, he developed athetoid cerebral palsy, oral-motor dysfunction requiring a gastrostomy tube, and gaze paresis. Kernicterus was diagnosed at age 4 months.

Case 4. In 1998, an apparently healthy white boy was born at 39 weeks' gestation weighing 9 lbs, 8 oz (4313 g). Pregnancy was unremarkable but delivery required vacuum extraction. His Apgar scores were eight and nine at 1 and 5 minutes, respectively. AO blood incompatibility was noted and Rh status was unknown. At 22 hours, he appeared jaundiced; at 52 hours, he was discharged with the treatment recommendation that he receive sunlight. The infant was alert and nursed well during the next 11 days. However, at his follow-up examination on day 12, he appeared jaundiced. The initial serum bilirubin level was 23.6 mg/dL, which peaked at 29.4 mg/dL. The same day, the infant was admitted to a hospital for phototherapy. During the next 4 months, he developed athetoid cerebral palsy, hearing loss, and enamel hypoplasia, and kernicterus was diagnosed at age 4 months.

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Editorial Note: These cases illustrate that hyperbilirubinemia in full-term, otherwise healthy infants can lead to kernicterus. Each of these white male infants was nursing normally when discharged but shortly after developed feeding problems. A historic cohort study suggests boys are more susceptible than girls to adverse outcomes from

Kernicterus in Full-Term Infants — Continued

hyperbilirubinemia (2). At follow-up, initial serum bilirubin levels in all the infants exceeded maximum levels (mean: 34.7 mg/dL) specified for treatment by the American Academy of Pediatrics practice guideline, which currently is under revision (3).

Treating hyperbilirubinemia with phototherapy and exchange transfusions prevents kernicterus if treatment is initiated promptly and is continued until bilirubin levels normalize. By the 1970s, such therapy was implemented effectively, and kernicterus virtually disappeared in full-term infants until the early 1990s (4), when physicians began to debate the need to identify and treat hyperbilirubinemia in healthy, full-term infants without risk factors for hemolysis (5–7).

Increases in breastfeeding and early hospital discharge after delivery coincided with this debate (8,9). Although mild jaundice occasionally is associated with breastfeeding, it provides optimum nutrition. In the full-term newborn, serum bilirubin levels peak at 48–72 hours. Healthy, full-term infants often are discharged from hospitals before this peak. Some health-care providers rely on visual assessment to detect pathology; however, this method can be unreliable. Hyperbilirubinemia can be reduced if heath-care providers recognize risk factors and remember the acronym "JAUNDICE" (see box). Another useful tool is the May 2, 2001, Sentinel Event Alert issued by the Joint Commission on Accreditation of Healthcare Organizations.

The findings in this report are subject to at least two limitations. First, a small number of case reports has inherent limitations that include lack of representativeness. No inference can be made about risks for disease or trends. Second, these cases reflect self-reported data and are subject to potential reporting bias.

Early hyperbilirubinemia detection is critical to the prevention of the irreversible effects of kernicterus. Health-care providers, parents, and other caretakers should be aware of risk factors for hyperbilirubinemia, and treatment should begin immediately after hyperbilirubinemia is diagnosed. Verbal and written information received before the infant is discharged may be useful in gaining an understanding of risk factors for and signs and treatment of jaundice and hyperbilirubinemia. Bilirubin levels before discharge may provide quantitative measurement that could aid management (5, 10). Infants discharged <48 hours after birth should be examined by a health-care provider within 2 to 3 days to receive routine follow-up visits and a jaundice assessment. In addition, CDC, along with other agencies, researchers, and partners, plans to initiate surveillance and the systematic evaluation of trends and prevalence rate that will provide the data necessary to target prevention activities.

Major Risk Factors for Hyperbilirubinemia in Full-Term Newborns

- Jaundice within first 24 hours after birth.
- A sibling who was jaundiced as a neonate.
- Unrecognized hemolysis such as ABO blood type incompatibility or Rh incompatibility.
- Nonoptimal sucking/nursing.
- **D**eficiency in glucose-6-phosphate dehydrogenase, a genetic disorder.
- · Infection.
- Cephalohematomas/bruising.
- · East Asian or Mediterranean descent.

Kernicterus in Full-Term Infants — Continued

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Notice to Readers

Availability of Case Definition for Acute Idiopathic Pulmonary Hemorrhage in Infants

In response to CDC recommendations published in March 2000 (1), CDC has established procedures for the surveillance of acute idiopathic pulmonary hemorrhage in infants (AIPHI) and for conducting investigations and special studies. As part of these activities, CDC convened three meetings to 1) establish a case definition and classification scheme for public health surveillance of AIPHI, 2) recommend a standard home environment investigation protocol, and 3) outline a plan for surveillance and investigation of AIPHI. An AIPHI case definition for public health surveillance would facilitate case finding to document the burden of the condition and studies to identify possible etiologic agents or risk factors. Following are the recommended clinical description and case definition.

Proposed Clinical Description of AIPHI

Cases of AIPHI are characterized by the sudden onset of pulmonary hemorrhage in a previously healthy infant. Evidence of pulmonary hemorrhage includes hemoptysis, and finding blood in the nose or airway with no evidence of upper respiratory or gastrointestinal bleeding. Patients present with acute, severe respiratory distress or failure requiring mechanical ventilation and often demonstrate bilateral infiltrates on chest radiograph.

Notice to Readers — Continued

Proposed Criteria for a Clinically Confirmed Case of AIPHI

A clinically confirmed case is an illness in a previously healthy infant aged <1 year with a gestational age of \geq 32 weeks with no history of neonatal medical problems that could cause pulmonary hemorrhage and who meets criteria A, B, and C.

- A. Abrupt or sudden onset of overt bleeding or frank evidence of blood in the airway.
- B. Severe presentation leading to acute respiratory distress or respiratory failure, resulting in hospitalization in a pediatric intensive care unit with intubation and mechanical ventilation.
- C. Diffuse, bilateral pulmonary infiltrates on chest radiograph or computerized tomography of the chest.

Additional information about the report and copies of the case definition are available from CDC's Air Pollution and Respiratory Health Branch, Division of Environmental Hazards and Health Effects, National Center for Environmental Health, Mailstop E-17, 1600 Clifton Rd, N.E., Atlanta, GA 30333; telephone (404) 639-2520. The full proposed case definition and classification scheme "Case Definition for Acute Idiopathic Pulmonary Hemorrhage in Infants" is available at http://www.cdc.gov/nceh/asthma/acute/AIPHlcasedef.htm.

Reference

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Notice to Readers

Publication of Report on Tobacco Control Investment by States

CDC recently published *Investment in Tobacco Control: State Highlights, 2001* (1). The publication presents information for all 50 states and the District of Columbia on the prevalence of tobacco use, the health impact and costs associated with tobacco use, the amount of funding for tobacco control, and excise taxes on tobacco. States can use the information in the report in developing tobacco control programs.

Investment in Tobacco Control is the third state highlights report released by CDC's Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, and is the first to provide a compilation of states' investments in tobacco control. The report presents an analysis of investments in tobacco control, places these investments in the context of health and economic consequences of tobacco use specific to the state, and compares current investments with the funding ranges recommended in CDC's Best Practices for Comprehensive Tobacco Control Programs (2).

The report shows that in fiscal year 2001, 45 states are investing \$883.2 million in tobacco prevention and control programs, including 36 states investing \$654.9 million from state settlements with the tobacco industry; eight states appropriating \$218.4 million from tobacco excise tax revenues; and nine states appropriating \$9.9 million from their general revenues. Other funding sources include \$58.1 million awarded to the states by CDC and \$9 million awarded by the American Legacy Foundation.

The report is available at http://www.cdc.gov/tobacco/statehi/pdf_2001/2001statehighlights.pdf, and print copies are available through CDC's Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, Mailstop K-50, 4770 Buford Highway, N.E., Atlanta, GA 30341; telephone (770) 488-5705.

Notice to Readers — Continued

Up-to-date and historic data on the prevalence of tobacco use, tobacco control laws, the health impact and costs associated with tobacco use, and tobacco agriculture and manufacturing are available for all 50 states and the District of Columbia through CDC's State Tobacco Activities Tracking and Evaluation (STATE) System available at http://www2.cdc.gov/nccdphp/osh/state/.

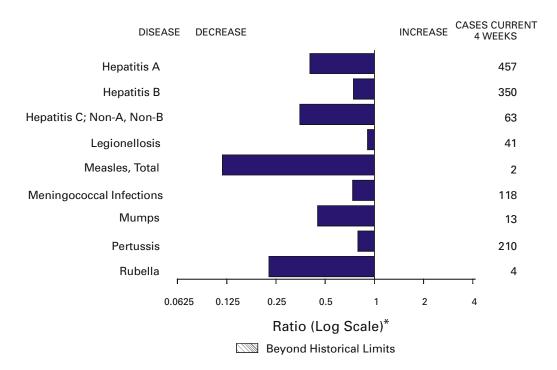
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Erratum: Vol. 50, No. RR-9

In the *Recommendations and Reports*, "'Norwalk-Like Viruses:' Public Health Consequences and Outbreak Management," an error occurred in the figure titles on pages 4 and 6. The title for Figure 1 on page 4 should read, "Mode of transmission of 348 outbreaks of gastroenteritis reported to CDC during January 1996–November 2000.*" The title for Figure 2 on page 6 should read, "Settings of 348 outbreaks of gastroenteritis reported to CDC during January 1996–November 2000.*"

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending June 9, 2001, with historical data



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

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending June 9, 2001 (23rd Week)

	Cum. 2001		Cum. 2001
Anthrax Brucellosis* Cholera Cyclosporiasis* Diphtheria Ehrlichiosis: human granulocytic (HGE)* human monocytic (HME)* Encephalitis: California serogroup viral* eastern equine* St. Louis* western equine* Hansen disease (leprosy)* Hantavirus pulmonary syndrome* Hemolytic uremic syndrome, postdiarrheal* HIV infection, pediatric*	26 3 69 1 27 13 - - 28 3 30 84	Poliomyelitis, paralytic Psittacosis* Ofever* Rabies, human Rocky Mountain spotted fever (RMSF) Rubella, congenital syndrome Streptococcal disease, invasive, group A Streptococcal toxic-shock syndrome* Syphilis, congenital* Tetanus Toxic-shock syndrome Trichinosis Tularemia* Typhoid fever Yellow fever	- 4 7 - 96 - 1,742 25 66 10 58 5 20 102
Plague	-	Tellow level	

^{-:} No reported cases. *Not notifiable in all states.

[†] Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update May 29, 2001.

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

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending June 9, 2001, and June 10, 2000 (23rd Week)

	Weeks	Ciraing	T danc o	, 2001,		10 10, 2	1000 (23)		coli O157:H7	*
	AIC		Chlan			oridiosis	NET	SS	PHI	LIS
Reporting Area	Cum. 2001 [§]	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000
UNITED STATES	15,380	16,292	278,180	298,018	653	662	568	814	424	710
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	586 18 14 10 332 44 168	987 16 13 1 669 40 248	9,786 556 551 250 4,484 1,206 2,739	10,123 593 457 237 4,280 1,149 3,407	25 3 12 5 3 2	38 8 2 11 10 2 5	60 8 10 2 24 4 12	91 6 5 3 44 4 29	48 7 7 1 21 2 10	95 6 8 5 42 5 29
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	3,108 182 1,587 746 593	3,928 181 2,313 832 602	29,734 5,142 12,716 3,795 8,081	28,397 519 12,000 5,379 10,499	71 34 32 2 3	130 33 77 5 15	45 36 2 7 N	114 82 7 25 N	36 25 1 10	85 38 4 21 22
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	1,163 198 119 558 224 64	1,590 196 146 1,002 184 62	39,066 4,653 6,057 11,089 13,010 4,257	51,013 12,976 5,764 14,828 10,133 7,312	213 49 27 1 55 81	144 21 10 21 22 70	133 38 21 27 22 25	150 25 16 45 26 38	87 25 10 19 18 15	106 22 20 32 20 12
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	355 67 40 168 1 9 27 43	358 78 36 149 - 3 25 67	14,620 2,667 1,490 5,198 388 811 1,539 2,527	16,855 3,495 2,304 5,644 396 764 1,587 2,665	34 - 18 6 2 4 4	47 11 14 6 3 5 5	74 30 12 11 1 6 6	106 26 17 29 6 3 17	72 36 7 17 3 5	118 41 12 28 6 8 18
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	4,910 84 591 360 388 35 212 340 579 2,321	4,276 77 455 315 295 27 255 293 429 2,130	54,911 1,284 5,287 1,515 7,149 1,030 7,787 5,393 10,779 14,687	54,900 1,305 5,675 1,431 7,065 929 9,144 3,986 11,231 14,134	133 1 27 9 7 - 14 - 46 29	101 3 6 2 4 3 9 - 54 20	59 - 3 - 14 1 24 2 6 9	64 1 9 - 14 3 9 4 8 16	25 - U 8 - 11 2 2 2	54 - 1 U 15 3 9 3 11 12
E.S. CENTRAL Ky. Tenn. Ala. Miss.	836 181 249 182 224	767 98 314 206 149	20,548 3,737 6,728 4,890 5,193	21,657 3,519 6,262 6,668 5,208	15 1 3 5 6	21 1 4 9 7	24 6 12 6	38 12 15 3 8	15 5 9 - 1	28 11 13 2 2
W.S. CENTRAL Ark. La. Okla. Tex.	1,617 89 403 90 1,035	1,475 92 265 112 1,006	43,072 3,230 7,305 4,589 27,948	45,445 2,747 8,367 4,005 30,326	14 2 7 3 2	32 1 8 2 21	30 2 2 9 17	57 19 6 7 25	39 - 14 10 15	84 23 16 6 39
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	636 12 14 1 126 50 258 53 122	552 7 11 2 130 58 170 57	15,135 957 759 354 1,284 2,538 6,410 697 2,136	17,747 684 784 310 5,356 2,210 5,621 1,124 1,658	48 5 5 - 15 8 2 11 2	32 4 3 4 8 1 2 8 2	64 5 8 1 27 5 10 5 3	70 10 9 4 26 3 15 2	40 - - 1 20 2 9 7 1	43 - 4 3 13 3 14 4 2
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	2,169 247 104 1,787 9 22	2,359 243 86 1,962 5 63	51,308 6,160 1,283 42,423 1,134 308	51,881 5,588 2,956 40,709 1,086 1,542	100 N 3 95	117 U 5 112 -	79 17 18 42 1	124 35 16 64 1 8	62 13 13 34 - 2	97 52 22 15 1 7
Guam P.R. V.I. Amer. Samoa C.N.M.I.	9 535 2 - -	13 431 18 - -	1,570 53 U 53	233 U - U U	- - - U -	- - - U U	N - - U -	N 3 - U U	U U U U	U U U U

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

*Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

† Chlamydia refers to genital infections caused by *C. trachomatis*. Totals reported to the Division of STD Prevention, NCHSTP.

† Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update May 29, 2001.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending June 9, 2001, and June 10, 2000 (23rd Week)

	WCCK3 CI	Turing June			10, 20	700 (2	1		
		rrhea	Hepati Non-A,	Non-B	Legione		Listeriosis	Lyı Dise	ase
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2001	Cum. 2000
UNITED STATES	126,614	147,343	980	1,531	282	309	162	1,115	2,966
NEW ENGLAND Maine	2,673 57	2,801 34	12	12 -	19 1	23 2	17 -	372 -	658 -
N.H. Vt.	60 36	44 29	- 5	3	4 4	2 1	-	47 1	31 7
Mass. R.I.	1,380 305	1,088 280	7 -	6 3	5 1	10 3	11 1	73 35	228 26
Conn.	835	1,326	-	-	4	5	5	216	366
MID. ATLANTIC Upstate N.Y.	13,751 3,229	15,870 2,890	34 22	328 13	30 19	82 23	28 12	423 335	1,784 448
N.Y. City N.J.	5,361 1,327	4,998 3,025		293	4 4	11 8	5 6	1 7	66 675
Pa. E.N. CENTRAL	3,834 21,228	4,957 29,041	12 99	22 114	3 74	40 82	5 20	80 30	595 149
Ohio	3,078	7,287	5 1	3	41	34	4	26	14
Ind. III.	2,495 6,749	2,587 9,038	10	12	6	9 7	3	1 -	4 1 <u>1</u>
Mich. Wis.	7,574 1,332	7,053 3,076	83	99	18 9	16 16	12 1	3	7 113
W.N. CENTRAL Minn.	6,115 847	7,151 1,388	335 1	261 4	20 1	17 1	4	39 25	43 15
lowa Mo.	392 3,133	462 3,454	330	1 250	5 9	3 10	- 1	4 8	15
N. Dak. S. Dak.	14 121	29 115	-	-	-	- 1	-	-	-
Nebr. Kans.	539 1,069	588 1,115	1 3	2 4	4 1	2	1 2	2	2 11
S. ATLANTIC	33,254	38,614	51	36	52	49	28	186	264
Del. Md.	705 3,002	731 3,827	12	2	12	4 11	2	5 12 <u>5</u>	52 157
D.C. Va.	1,282 3,451	991 4,433		1 1	2 7	5	5	7 33	1 31
W. Va. N.C.	252 6,488	295 8,069	6 8	5 12	N 5	N 7	4	1 6	8 8
S.C. Ga.	3,910 5,860	3,580 6,900	3	1	1 3	2 4	2 8	2	2
Fla.	8,304	9,788	22	11 207	22	16	7	7	5
E.S. CENTRAL Ky.	13,194 1,458	15,327 1,474	102 3	16	26 7	9 5	8 2	8 2	11 3
Tenn. Ala.	4,472 3,943	4,825 5,119	30 2	46 7	10 7 2	1 2 1	3 3	4 2	6 1
Miss. W.S. CENTRAL	3,321 20,699	3,909 23,475	67 161	138 465	4	12	4	- 7	1 21
Ark. La.	1,990 5,001	1,480 5,905	3 74	3 241	2	- 6	1	- 1	2
Okla. Tex.	2,083 11,625	1,756 14,334	3 81	219	2	1 5	3	6	19
MOUNTAIN	4,515	4,569	131	31	22	16	16	4	1
Mont. Idaho	48 33	22 37	1	2	1	3	1	2	-
Wyo. Colo. N. Mex.	24 1,383	27 1,441	101 10	1 5	1 6	6	1 2 3	1 -	1 -
N. Mex. Ariz.	410 1,778	469 1,848	10 5	6 11	1 7	1 2	3 3	-	-
Utah Nev.	62 777	116 609	1 3	4	4 2	4	1 5	- 1	-
PACIFIC Wash	11,185 1,315	10,495 976	55 14	77 10	35 6	19 8	37 2	46 2	35
Wash. Oreg.	197	384	7	15	N	N	1	3	3
Calif. Alaska	9,432 141	8,793 140	34	52 -	29 -	11 -	34	41 - N	31 1
Hawaii Guam	100	202 23	-	- 1	-	-	-	N -	N -
P.R. V.I.	436 6	250 -	1	1	2	-	-	N -	N -
Amer. Samoa C.N.M.I.	Ŭ 3	U U	U -	U U	U -	U U	-	U -	U U

N: Not notifiable.

U: Unavailable.

-: No reported cases.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending June 9, 2001, and June 10, 2000 (23rd Week)

	WCCRS	maning oc	1110 0, 20	o i, ana oc	Salmonellosis*							
	Mal	aria	Rabio	es, Animal	NE NE	TSS		HLIS				
Panarting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.				
Reporting Area UNITED STATES	2001 376	2000 499	2001 2,524	2000 2,856	2001 10,685	2000 12,484	2001 9,078	2000 11,172				
NEW ENGLAND Maine N.H. Vt. Mass. R.I.	30 3 2 - 9 3	20 3 1 2 9	256 31 7 34 83 26	317 64 4 27 101 20	804 95 60 33 463 44	743 52 51 50 435 26	793 74 57 34 393 67	752 35 49 50 423 49				
Conn.	13	2	75	101	109	129	168	146				
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	67 19 34 8 6	104 20 54 13 17	363 284 8 68 3	487 300 4 68 115	1,068 386 366 204 112	1,913 426 506 493 488	1,485 376 470 218 421	1,976 509 525 375 567				
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	43 9 9 1 16 8	61 6 3 33 13 6	18 4 1 3 10	27 5 - 1 13 8	1,500 517 148 349 277 209	1,806 434 198 571 353 250	1,174 412 128 255 243 136	1,136 408 225 1 381 121				
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	15 6 1 4 - - 2 2	23 7 1 4 2 - 3 6	146 17 29 13 19 21 1 46	246 33 35 12 63 51	686 211 113 178 10 45 50	720 104 96 256 15 33 77 139	715 260 95 238 22 39	908 251 111 309 32 40 60 105				
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	103 1 41 4 21 1 2 4 8 21	114 3 38 5 26 - 10 1 4 27	925 17 100 - 195 59 265 55 135 99	1,003 18 190 - 253 56 249 56 123 58	2,579 31 270 29 415 37 412 290 365 730	2,104 39 292 23 284 54 288 180 365 579	1,638 33 262 U 328 47 272 272 351 73	1,761 44 283 U 302 52 279 152 480 169				
E.S. CENTRAL Ky. Tenn. Ala. Miss.	10 2 5 3	17 3 5 8 1	86 10 61 15	82 11 46 25	623 112 175 205 131	590 134 141 167 148	401 76 187 109 29	498 93 221 153 31				
W.S. CENTRAL Ark. La. Okla. Tex.	5 2 1 1	27 1 4 3 19	481 - - 39 442	457 - - 31 426	1,021 144 240 91 546	1,417 137 246 124 910	898 92 214 81 511	834 99 176 98 461				
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	22 2 2 10 1 2 3 2	19 1 - 10 - 2 3 3	96 16 1 16 - 3 60	106 26 1 30 - 7 40 2	769 30 44 28 209 99 220 85 54	1,016 48 53 24 321 89 231 150	595 4 22 200 75 194 77 23	938 47 20 298 85 247 147 94				
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	81 2 4 71 1 3	114 8 22 81 - 3	153 - - 120 33	131 - - 108 23 -	1,635 179 74 1,312 18 52	2,175 176 136 1,767 23 73	1,379 205 118 930 2 124	2,369 250 175 1,848 19 77				
Guam P.R. V.I. Amer. Samoa C.N.M.I.	3 - U -	- 4 - U U	50 - U -	30 - U U	239 - U 5	12 197 - U U	U U U U	U U U U				

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).

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending June 9, 2001, and June 10, 2000 (23rd Week)

	<u>weeks e</u>			01, and Ju	ne 10, 20	000 (23rd V	Veek)	
	NET		llosis* F	PHLIS		philis & Secondary)	Tube	rculosis
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000
UNITED STATES	5,272	8,153	2,725	4,604	2,286	2,766	4,613	5,807
NEW ENGLAND Maine N.H. Vt. Mass. R.I.	80 4 1 3 54 7	145 5 1 1 104 10	83 1 1 2 52 10	115 - 6 - 74 11	18 - 1 2 10 1	37 1 1 26 2	170 5 7 2 104 19	161 3 4 2 95 17
Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	11 440 217 143 40 40	24 1,194 372 555 162 105	17 343 15 196 67 65	24 741 146 365 133 97	4 175 5 102 40 28	7 130 6 56 27 41	33 958 131 498 215 114	40 951 118 513 221 99
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	814 338 109 156 134 77	1,628 102 560 444 368 154	418 188 19 105 93 13	506 84 54 2 335 31	375 39 75 102 149 10	595 32 195 206 136 26	490 79 38 253 88 32	545 121 56 250 79 39
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak.	581 217 101 119 12 61	651 125 166 280 2	448 232 84 76 2 37	578 197 139 193 3 1	27 12 1 6 -	38 4 10 19 -	180 97 9 48 3 6	221 75 19 79 - 9
Nebr. Kans.	32 39	26 50	- 17	12 33	- 8	2 3	17 -	9 30
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	834 4 51 22 61 4 161 90 95 346	923 7 41 11 111 3 51 50 110 539	248 4 26 U 27 6 78 46 57 4	352 6 18 U 115 3 26 45 87 52	882 5 104 19 56 - 214 123 119 242	915 4 134 19 62 1 274 95 159	953 - 76 15 96 12 136 96 173 349	1,180 2 104 2 120 15 160 129 238 410
E.S. CENTRAL Ky. Tenn. Ala. Miss.	532 193 39 115 185	386 95 185 21 85	200 73 38 78 11	274 40 211 20 3	258 18 144 46 50	402 46 250 48 58	271 42 69 123 37	399 45 155 131 68
W.S. CENTRAL Ark. La. Okla. Tex.	880 257 104 16 503	1,412 87 130 47 1,148	650 155 81 2 412	410 24 68 16 302	285 19 59 35 172	369 45 83 64 177	500 53 - 60 387	887 90 65 57 675
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	322 - 14 - 63 53 146 23 23	386 3 28 2 72 40 140 33 68	199 - - 54 33 82 22 8	251 19 2 33 22 89 36 50	94 - - 16 9 59 6 4	94 - 1 5 8 77 - 3	163 - 4 1 48 11 60 8 31	206 6 4 1 29 23 70 22 51
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	789 72 23 684 3 7	1,428 298 92 1,014 6 18	136 76 42 - 1 17	1,377 273 57 1,029 3 15	172 23 4 144 - 1	186 28 7 150	928 84 37 777 17 13	1,257 99 36 1,017 48 57
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- 6 - U 4	18 14 - U U	טטטט	UUUU	- 101 - U -	2 80 - U U	31 - U 17	26 61 - U U

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).

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending June 9, 2001, and June 10, 2000 (23rd Week)

-	U infl		1	epatitis (Vi	iral) By Ty		I VVE	Measles (Rubeola)						
		<i>ienzae,</i> isive	A	epatitis (V	нан, ву гу В	pe	Indige	nous	Impo		Tota			
Reporting Area	Cum. 2001 [†]	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	2001	Cum. 2001	2001	Cum. 2001	Cum. 2001	Cum. 2000		
UNITED STATES	630	607	4,041	5,713	2,660	2,991	-	38	-	22	60	36		
NEW ENGLAND Maine N.H. Vt. Mass. R.I.	25 1 - 1 21 2	47 1 6 3 27 1	186 5 5 5 54 8	136 7 11 3 56 6	41 5 10 2 3 9	49 5 9 5 3 9	- - - -	3 - - 1 2	- - - -	1 - - 1	4 - 1 3	-		
Conn.	-	9	109	53	12	18	-	-	-	-	-	-		
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	73 30 23 19 1	104 36 32 23 13	356 109 152 70 25	557 102 224 91 140	381 60 221 64 36	538 58 254 88 138	- - - -	2 1 - - 1	- - - -	5 4 - 1 -	7 5 - 1 1	10 - 10 - -		
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	80 40 20 10 5 5	91 28 10 34 7 12	454 109 41 128 150 26	751 134 22 322 229 44	313 56 14 37 206	325 56 26 44 183 16	- - - -	-	- - - -	10 3 4 3 -	10 3 4 3 -	5 2 - 2 1		
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak.	25 14 - 9 -	28 16 - 8 1	171 14 17 48 - 1	413 113 40 183	95 11 11 50 - 1	123 16 15 61 2	- - - -	4 2 - 2 -	- - - -	- - - - -	4 2 - 2 -	1 1 - - -		
Nebr. Kans.	1 1	2 1	21 70	19 58	11 11	19 10	Ū	-	Ū	-	-	-		
S. ATLANTIC Del.	210	141	831	563 9	575	501 7	-	3	-	1	4	-		
Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	46 - 15 4 28 5 56	35 28 4 13 4 40	115 20 60 4 55 26 320 231	66 8 66 39 85 22 80 188	64 4 59 14 99 6 154 175	65 14 68 6 123 3 84 131	- - - - -	2 - - - - 1	- - - - -	1	3 - - - - 1	- - - - - -		
E.S. CENTRAL Ky. Tenn. Ala. Miss.	50 2 24 23 1	29 11 12 4 2	146 22 68 49 7	224 24 82 27 91	176 17 80 41 38	201 42 84 25 50	- - - -	2 2 - -	- - - -	- - - -	2 2 - - -	- - - -		
W.S. CENTRAL Ark. La. Okla. Tex.	24 - 3 21 -	34 11 21 2	588 29 46 80 433	1,046 82 43 133 788	330 46 26 46 212	442 46 69 60 267	- U - -	1 - - 1	- U - -	- - - -	1 - - 1	- - - -		
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	94 - 1 4 23 12 42 5 7	65 2 1 12 15 29 4 2	370 5 29 16 32 12 206 32 38	388 1 15 3 82 38 186 30 33	245 2 6 16 51 67 75 10	217 3 4 - 40 66 74 12 18	- - - - - - U		- - - - - - U	1 - 1 - - - - -	1 - 1 - - - - -	9 - - 2 - 3 4		
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	49 1 13 31 3	68 3 21 25 2 17	939 46 37 844 12	1,635 135 109 1,373 7 11	504 45 27 428 4	595 30 46 509 3 7	- - - -	23 13 1 8 - 1	- - - -	4 2 - 1 - 1	27 15 1 9 - 2	11 3 - 6 1		
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- 1 - U -	- 2 - U U	- 40 - U -	1 155 - U U	- 84 - U 19	9 120 - U U	U - U U U	- - - U -	U - U U U	- - U -	- - - U -	- - - U U		

N: Not notifiable. U: Unavailable. -: No reported cases.
*For imported measles, cases include only those resulting from importation from other countries.
† Of 137 cases among children aged <5 years, serotype was reported for 62, and of those, nine were type b.

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending June 9, 2001, and June 10, 2000 (23rd Week)

and June 10, 2000 (23rd Week)												
		Meningococcal Disease Cum. Cum.		Mumps			Pertussis			Rubella		
Reporting Area	Cum. 2001	Cum. 2000	2001	Cum. 2001	Cum. 2000	2001	Cum. 2001	Cum. 2000	2001	Cum. 2001	Cum. 2000	
UNITED STATES	1,192	1,173	2	77	178	46	1,864	2,399	1	11	72	
NEW ENGLAND	72	62	-	-	2	-	200	665	-	-	10	
Maine N.H.	1 7	5 4	-	-	-	-	18	14 59	-	-	1	
Vt. Mass.	5 41	2 37	-	-	-	-	22 151	134 421	-	-	- 8	
R.I.	2	4	-	-	1	-	1	8	-	-	-	
Conn.	16	10	-	-	1	-	8	29	-	-	1	
MID. ATLANTIC Upstate N.Y.	90 39	117 32	-	5 1	11 5	8 2	137 97	222 112	1 -	4 1	7 1	
N.Y. City	22	27 23	-	4	3	-	23	38	-	2	6	
N.J. Pa.	24 5	23 35	-	-	3	6	8 9	- 72	1 -	1 -	-	
E.N. CENTRAL	152	207	-	9	17	5	219	278	-	3	-	
Ohio Ind.	54 26	41 24	-	1 1	7	-	134 19	159 22	-	- 1	-	
III.	20	56	-	6	5	3	26	23	-	2	-	
Mich. Wis.	26 26	66 20	-	1 -	4 1	2	22 18	22 52	-	-	-	
W.N. CENTRAL	79	76	1	5	10	14	97	106	_	2	1	
Minn.	12	7	1	2	5	13	30	52 13	-	-	-	
lowa Mo.	18 2 8	16 38	-	-	2	1	10 40	19	-	1 -	-	
N. Dak. S. Dak.	3 4	2 4	-	-	-	-	3	1 2	-	-	-	
Nebr.	5	4		1	1		2	3		-	1	
Kans.	9	5	U	2	2	U	12	16	U	1	-	
S. ATLANTIC Del.	224	167 -	-	17 -	26 -	5 -	100	177 4	-	1 -	31 -	
Md. D.C.	29	16	-	4	5	-	16 1	44 1	-	-	-	
Va.	23	29	-	2	5	2	12	17	-	-	-	
W. Va. N.C.	6 48	7 28	-	- 1	3	3	1 36	49	-	-	23	
S.C. Ga.	21 32	13 32	-	1 7	8	-	19 4	16 20	-	-	6	
Fla.	65	32 42	-	2	3	-	11	26	-	1	2	
E.S. CENTRAL	79	85	-	2	4	2	44	47	-	-	4	
Ky. Tenn.	13 30	17 37	-	1 -	2	2	11 19	25 11	-	-	1 -	
Ala.	29 7	24 7	-	- 1	2	-	11 3	8	-	-	3	
Miss. W.S. CENTRAL	•		-		-	- 1		92	-	-		
Ark.	160 10	135 6	Ū	6 1	20 1	ΰ	75 4	10	Ū	-	6 1	
La. Okla.	52 18	34 21	-	2	4	-	2 1	7 9	-	-	1	
Tex.	80	74	-	3	15	1	68	66	-	-	4	
MOUNTAIN	68 2	56	-	7	13	8	846	353	-	-	1	
Mont. Idaho	6	1 6	-	-	1 -	1	6 159	7 41	-	-	-	
Wyo. Colo.	5 23	- 16	-	1 1	1 -	5	1 149	1 199	-	-	- 1	
N. Mex.	23 10	6	-	2	1	2	52	59	-	-	-	
Ariz. Utah	11 7	18 6	-	1 1	3 4	-	454 16	32 10	-	-	-	
Nev.	4	3	U	1	3	U	9	4	U	-	-	
PACIFIC Wash.	268 40	268 24	1	26	75 2	3 1	146 47	459 144	-	1	12 7	
Oreg.	20	30	N	N	N	1	11	42	-	-	-	
Calif. Alaska	204 2	203 3	1 -	21 1	61 4	1	85 1	247 6	-	-	5 -	
Hawaii	2 2	8	-	4	8	-	2	20	-	1	-	
Guam P.R.	2	- 6	U	-	7	U	2	2 1	U	-	1	
V.I.	-	-	U	-	-	Ü	-	-	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 notifiable.

U: Unavailable.

TABLE IV. Deaths in 122 U.S. cities,* week ending June 9, 2001 (23rd Week)

	All Causes, By Age (Years)					. 		1 (2310 VVEE		All Cau	ses R	/ Age (Y	ears)		
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I [†] Total	Reporting Area	All Ages	≥65	45-64		1-24	<1	P&I [†] Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn Cambridge, Mass Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Ma New Haven, Conn Providence, R.I. Somerville, Mass Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§ Jersey City, N.J.	532 121 . 32 . 24 . 21 . 31 . 22 . 10 . 55. 24 . 47 . 45. 35 . 32 . 32 . 32 . 32 . 40 . 12 . 98 . 40 . 26 . 44 . 45 . 35 . 32 . 40 . 40 . 40 . 40 . 40 . 40 . 40 . 40	380 69 27 18 17 20 16 8 8 8 8 8 8 30 47 4 29 50 1,494 26 12 12 12 5 16 16 16 16 16 16 16 16 16 16 16 16 16	37 3 4 3 8 6 6 2 4 4 8 7 - 6 1 16 446 9 - 20 111 8 8 7	30 9 2 2 1 1 1 - 2 4 1 1 - 2 2 4 1 1 - 3 2 1 3 1 2 1 4 4 1 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	8 4 - - - 1 1 1 - - 2 39 3 1 - 1	9 2 2 2 2 1 1 29 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1	42 6 6 2 2 2 2 2 1 2 3 2 8 2 1 9 9 6 1 8 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, F Tampa, Fla. Washington, D.C Wilmington, Del E.S. CENTRAL Birmingham, Ala Chattanooga, Te Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Al Nashville, Tenn. W.S. CENTRAL	1,356 193 169 86 . 110 137 50 62 59 Fla. 71 193 C. 203 I. 23 I. 23 I. 89 enn. 87 88 60 219 74	860 122 99 66 64 91 35 38 44 45 130 109 7 587 123 60 61 39 133 47 27 20 100 999	282 41 42 17 19 24 9 10 33 61 8 191 42 20 15 12 47 16 6 33 33 33 33	144 144 23 2 13 16 5 10 4 3 23 23 8 8 80 17 3 6 7 18 8 4 17	44 111 5 9 3 1 1 1 2 10 - 32 4 4 4 - 12 13 4	266 5 - 1 1 5 3 3 2 2 2 5 26 3 3 - 2 2 9 9 2 1 7 45	105 8 17 9 12 1 1 3 7 11 22 6 - 67 20 4 3 8 13 2 4 13
New York City, N. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	45 24 248 46 33 133	792 18 16 163 34 25 103 17 27 60 9 17 U	14 2 64 8 7 17 7 2 10 7	72 10 4 14 3 1 9 1 3 3 1	16 2 2 6 - 3 - 1	19 1 - 1 1 - 1 - 2 - U	40 - - 10 6 1 7 3 - 7 1 4 U	W.S. CENTRAL Austin, Tex. Baton Rouge, La Corpus Christi, 1 Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La San Antonio, Te Shreveport, La. Tulsa, Okla.	92 57 Fex. 44 239 89 110 353 79	70 38 34 130 68 72 196 55 U 173 81	333 15 13 6 65 14 22 77 20 U 45 28	5 3 2 18 5 9 53 2 U 21 10	1 1 14 - 2 20 1 U 7 5	45 2 1 12 2 5 7 1 U 9 2 2	6 1 5 19 4 22 2 U 23 12 11
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mi Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohi W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans	163 60 120 40 42 48 101 0 52 768 3 39 32	1,161 34 177 12 98 123 101 123 33 57 9 9 34 40 40 71 44 516 28 28 15	5 U 19 33 47 20 57 13 20 5 11 31 14 26 9 3 7 23 7 139 66 10 7	104 1 1 1 1 1 20 9 25 2 4 2 11 3 5 - 3 - 2 - 5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	48 3 · U 1 9 3 3 3 10 · 2 2 2 2 3 3 · 4 · · · 1 4 1 29 1 · · 2 2	40 3 - U 3 2 8 4 3 1 1 1 - 2 2 3 2 2 2 1 - 2 5 3 2 2 1 - 2 2 2 3 2 2 3 2 2 2 3 2 3 2 3 2 3 2 3 2	123 5 3 U 9 8 11 9 11 5 10 - 8 9 4 8 5 6 6 3 7 2 42 1 0	MOUNTAIN Albuquerque, N Boise, Idaho Colo. Springs, C Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, U Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawa Long Beach, Cali Los Angeles, Cal Pasadena, Calif. Portland, Oreg. Sacramento, Cal San Diego, Calif. San Francisco, C San Jose, Calif. Santa Cruz, Calif. Santa Cruz, Calif. Seattle, Wash.	39 olo. 78 108 226 31 141 177 155 1,648 18 167 24 18 161 284 28 141 161 158 . 153 calif. U	698 82 25 69 146 23 80 24 48 111 1,199 125 22 198 109 109 109 172 27	222 31 9 18 24 54 7 31 3 25 27 3 26 2 3 10 51 6 6 30 29 40 40 40 40 40 40 40 40 40 40 40 40 40	77 11 3 6 4 20 14 - 8 10 103 2 11 - 4 3 21 1 5 14 9 15 17	27 2 1 - 2 2 4 - 7 - 3 8 35 - 4 3 7 2 2 2 2 U 7 2 2	27 1 1 9 2 9 - 3 1 25 1 1 7 7 2 - 3 3 U 3 - 1	62 4 4 6 7 10 7 2 3 10 9 11 7 16 19 U 10 - 9
Kansas City, Mo. Lincoln, Nebr. Minneapolis, Min Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	91 44 In. 134 80 123 95 99	62 24 90 57 75 80 67	13 31 14 20	12 5 5 4 13 3 5	5 1 3 4 10 2 1	2 1 5 1 5 2 6	8 2 5 4 9 8 5	Spokane, Wash. Tacoma, Wash. TOTAL		48 86	6 19	3 7 863	1 1 314	3 - 252	766

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.

¹Pneumonia and influenza.

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

*Total includes unknown ages.

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