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# Outbreak of Acute Respiratory Febrile Illness Among College Students — Acapulco, Mexico, March 2001

On March 30, 2001, CDC was notified by Pennsylvania Department of Health (PDH) of an acute respiratory febrile illness in 44 students from two colleges who traveled to Acapulco, Mexico, for spring break vacation during March 3–18. Within 7–14 days of their return from Acapulco, 21 students presented to health-care providers with illness characterized by fever, chills, dry cough, chest pain, and headache. Two students were hospitalized. On the basis of clinical symptoms and chest radiographs that revealed bilateral, nodular patchy infiltrates, acute pulmonary histoplasmosis was the suspected illness. While in Acapulco, most of the students stayed at the Calinda Beach Hotel and participated in group activities at other recreational locations.

All state health departments and selected travel agencies were notified to identify additional students who traveled to Acapulco during March and became ill. As of April 9, 37 colleges in 18 states\* and the District of Columbia have reported 221 students who returned to the United States from Acapulco with an acute respiratory febrile illness. Ten students in six states were hospitalized.

A case is defined as an acute respiratory febrile illness characterized by fever for at least 3 days and one or more of the following symptoms: cough, shortness of breath, chest pain, or headache in a student who visited Acapulco during March 2001. Preliminary laboratory test results suggest histoplasmosis, an infection caused by *Histoplasma capsulatum*, a fungus that is present in soil in areas where the disease is endemic, and is acquired through inhalation. Gomori methenamine-silver stain of transbronchial and thoracic lymph node biopsy specimens from a hospitalized student revealed the presence of yeasts consistent with *H. capsulatum*. In addition, of specimens from 27 students in three states serologically tested for histoplasmosis using immunodiffusion and complement fixation tests, five were positive (1). However, convalescent-phase serum specimens will be needed for confirmation. Testing continues for other possible causes (e.g., *Mycoplasma, Legionella*, and *Chlamydia*).

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<sup>\*</sup>Arizona, Connecticut, Delaware, Illinois, Indiana, Maryland, Massachusetts, Michigan, Missouri, New Jersey, New York, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, Texas, and Wisconsin.

Acute Respiratory Febrile Illness — Continued

**Editorial Note:** CDC recommends that students who have traveled to Acapulco since March 1 seek medical care if they develop symptoms of fever and/or cough, shortness of breath, chest pain, or headache. Most cases of acute histoplasmosis in immunocompetent persons will not require treatment; however, persons with severe histoplasmosis can be treated with 200 mg of itraconazole, an antifungal medication, once daily for 6–12 weeks (2). Physicians should notify state health departments of acute respiratory febrile illness among returning college students and other persons.

On April 3, PDH alerted other health departments of the outbreak through *EPI-X* (the *Epidemic Information Exchange*); on April 6, CDC issued a travelers' advisory at http://webdev.cdc.gov/travel/other/res-mexico-apr2001.htm. Information on histoplasmosis is available at http://www.cdc.gov/ncidod/dbmd/diseaseinfo. The Mexico Ministry of Health and CDC are conducting an investigation of the outbreak. Additional information is available from CDC, telephone (888) 688-2732. CDC's Mycotic Diseases Branch (MDB) is interested in receiving reports through state and local health departments of travelers to Acapulco since March who have become ill. MDB will test serum and lung tissue specimens for histoplasmosis received through state and local health departments.

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## Prevalence of Risk Behaviors for HIV Infection Among Adults — United States, 1997

Human immunodeficiency virus (HIV) prevention programs are directed to persons at risk for acquiring and transmitting HIV because of their sexual behaviors or drug use. Effective HIV prevention requires monitoring risk behaviors among persons who are infected, persons who are at highest risk for infection, and the general population (1). The Behavioral Risk Factor Surveillance System (BRFSS) provides behavioral data at the state level. Because sexual behavior questions are not part of the BRFSS core instrument, in 1997, an optional module was developed and used by 23 states and Puerto Rico. This report summarizes the analysis of these data, which indicates that 11% of respondents had multiple sex partners and 4.2% reported other high-risk behaviors. These findings underscore the continued need for education about behaviors that place persons at risk for HIV infection, promotion of HIV testing among those who engage in these behaviors, and counseling to reduce risk.

BRFSS is a state-based, random-digit-dialed telephone survey of the civilian, noninstitutionalized U.S. population aged ≥18 years (2). In the 1997 survey, an optional module on sexual behavior was administered to 23 of 50 states, the District of Columbia, and Puerto Rico. For this module, the upper age limit for respondents was 49 years. The sexual behavior module included questions on the number of sex partners, condom use during most recent intercourse, and other HIV risk behaviors. To determine sexual activity, respondents were asked, "During the past 12 months, with how many people have you had sexual intercourse?" Those who reported one or more sex partners during the preceding 12 months were considered sexually active. Risk behaviors were measured by two questions: 1) having multiple (i.e., two or more) sex partners during the preceding

Risk Behaviors — Continued

year and 2) a composite measure of risk that included use of intravenous drugs, treatment for sexually transmitted disease, and anal sex without a condom during the preceding year or a positive test for HIV; specific risks were not assessed individually. Condom use was determined by the question, "Was a condom used the last time you had sexual intercourse?"

Data were weighted by demographic characteristics and selection probabilities and are representative of the adult population aged 18–49 years in each state. SUDAAN was used to account for the complex survey design. Because BRFSS data are state-specific, median values, rather than average values for the selected states, are reported. Data from the District of Columbia were not included in this analysis because it is more comparable to urban areas than to states.

A total of 33,913 respondents were included in this analysis. The median response rate was 61.7% (range: 44.2%–88.9%). A median of 3.6% of respondents (range: 0.7% [Puerto Rico]–13% [Massachusetts]) refused to answer the question about the number of sex partners during the preceding year and were not asked further questions from the sexual behavior module. The median prevalence of sexual activity among adults aged 18–49 years was 85% (Table 1); state-specific prevalences ranged from 69% (Tennessee) to 89% (Nevada and Wisconsin).

Among respondents who were sexually active, the median prevalence of having multiple sex partners was 11% (range: 5% [Montana]–18% [Nevada]). Among respondents with multiple sex partners, the median prevalence of condom use at last sex was 65%; state-specific prevalences ranged from 53% (Rhode Island) to 79% (New Jersey).

The median proportion of sexually active respondents answering "yes" to the composite question on risk was 4.2% (range: 1.9% [Montana]–5.9% [New Mexico]). The median prevalence of condom use in this group was 26.6% (range: 12.2% [Rhode Island]–43.7% [New Jersey]) compared with 23.2% (range: 15.6% [Puerto Rico]–33.8% [New Jersey]) among those who answered "no" to the question.

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**Editorial Note**: The findings in this report indicate that among persons aged 18–49 years in the areas surveyed, a small proportion were at risk for HIV on the basis of the composite question and a larger proportion on the basis of having multiple sex partners. The proportion of sexually active adults with multiple partners in the BRFSS data is similar to that found in other surveys of the general population (3–5). Responses to a question on the 1995 National Health Interview Survey that was similar to the BRFSS composite measure resulted in a prevalence of 3.4%, compared with 4.2% in BRFSS (3). These data indicate an ongoing need for prevention efforts focusing on HIV and other sexually transmitted diseases, including efforts to promote healthy sexual behaviors.

The findings in this report are subject to at least five limitations. First, small sample sizes, including small numbers of respondents with risk behaviors, precluded categorical analyses of sexual behaviors with other relevant variables (e.g., sex or marital status).

Risk Behaviors — Continued

TABLE 1. Percentage of persons aged 18–49 years who reported being sexually active, having multiple sex partners, and using a condom during most recent intercourse during the preceding year, by state — Behavioral Risk Factor Surveillance System, United States, 1997

	Cample		exually active		ıltiple	Cand	om use*
Area	Sample size	%	(95% CI†)		partners (95% CI)	<u> </u>	(95% CI)
Alaska	1085	84.2	(±3.2)	11.6	(±3.0)	69.7	(±11.5)
Delaware	1476	86.9	(±2.2)	11.9	(±2.4)	64.8	(±10.3)
Florida	1869	86.3	(±1.8)	11.8	(±1.8)	61.9	(± 8.1)
Illinois§	934	86.0	$(\pm 2.5)$	12.1	$(\pm 3.0)$	¶	
lowa	2013	86.3	$(\pm 1.8)$	9.5	$(\pm 1.6)$	62.7	$(\pm 8.5)$
Maine	1017	87.4	$(\pm 2.5)$	9.4	$(\pm 2.5)$	¶	
Maryland⁵	1431	69.9	(±3.2)	10.8	$(\pm 2.6)$	66.3	(±11.5)
Massachusetts	1134	77.5	(±3.1)	13.6	$(\pm 2.9)$	67.7	$(\pm 10.3)$
Minnesota	3006	81.3	(±1.5)	11.5	(±1.5)	54.1	$(\pm 6.8)$
Mississippi	913	86.1	$(\pm 2.7)$	13.3	(±3.5)	76.8	$(\pm 10.7)$
Montana	1045	85.7	$(\pm 2.5)$	5.4	(±1.6)	¶	
Nebraska	1526	84.5	$(\pm 2.4)$	8.4	(±1.9)	54.6	$(\pm 12.0)$
Nevada	1577	88.7	$(\pm 3.0)$	17.6	$(\pm 4.3)$	55.4	$(\pm 13.2)$
New Hampshire	e 944	86.1	(±2.7)	9.4	$(\pm 2.7)$	¶	
New Jersey	1625	80.2	$(\pm 2.3)$	13.1	$(\pm 2.5)$	78.8	$(\pm 7.6)$
New Mexico	1111	83.8	$(\pm 2.5)$	9.4	(±2.1)	54.7	$(\pm 12.3)$
New York	2184	81.3	(±1.9)	11.4	(±1.7)	71.5	$(\pm 7.0)$
North Dakota	1034	85.9	$(\pm 2.5)$	8.8	$(\pm 2.1)$	68.0	(±11.1)
Ohio	1671	80.7	$(\pm 2.6)$	9.6	$(\pm 2.3)$	66.1	$(\pm 10.7)$
Puerto Rico	1328	69.5	$(\pm 2.9)$	¶		¶	
Rhode Island	1080	80.3	$(\pm 2.9)$	11.8	$(\pm 2.9)$	53.2	$(\pm 14.0)$
Tennessee⁵	554	69.3	$(\pm 4.7)$	¶		¶	
Vermont	1955	86.0	(±1.8)	11.8	(±2.2)	67.3	$(\pm 8.9)$
Wisconsin	1401	88.9	(±2.1)	9.4	(±2.3)	61.1	(±12.3)

<sup>\*</sup> Among those with multiple sex partners.

Second, because BRFSS excludes persons without telephones and those living in institutional settings, this study may have underestimated the prevalence of sexual risk behaviors in the U.S. population. Third, the measure used to assess high risk for HIV may not accurately describe all persons who may be exposed to HIV. Fourth, BRFSS data are self-reported data (6). Finally, because not all 50 states used the sexual behavior module and the sample was limited to those aged 18–49 years, the findings in this report may not be generalizable to the U.S. adult population. Assessments of the prevalence of risk behavior for HIV infection among youth in the U.S. population are available from the Youth Risk Behavior Survey (7).

General population surveys such as the BRFSS can contribute to the description and monitoring of HIV risk behaviors. BRFSS provides state-based estimates of the prevalence of sexual and other risk behaviors and enables states to project the need for HIV prevention messages to promote risk reduction in the general population.

<sup>&</sup>lt;sup>†</sup> 95% confidence interval.

<sup>&</sup>lt;sup>5</sup> Used split sampling method in which the sexual behavior module was administered to only half of the sample.

<sup>&</sup>lt;sup>¶</sup> Estimates not reliable because of small sample size and low number of respondents.

Risk Behaviors — Continued

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# Human West Nile Virus Surveillance — Connecticut, New Jersey, and New York, 2000

West Nile virus (WNV), a mosquitoborne arbovirus identified in New York in 1999, has become enzootic in the northeastern United States, affecting humans, birds, horses, and other mammals. Although no human WNV infection was identified in Connecticut or New Jersey in 1999, 62 persons with WNV illness, including seven deaths, were detected in New York City (NYC) and nearby New York counties (1). In 2000, these jurisdictions implemented active surveillance (AS) and enhanced passive surveillance (EPS)\* to detect human illness; 21 persons were identified with acute WNV infection (14 in New York, six in New Jersey, and one in Connecticut), including two deaths (one each in New York and New Jersey) (2). This report summarizes the human WNV surveillance systems in Connecticut, New Jersey, New York, and NYC and recommends EPS for hospitalized patients with encephalitis of unknown etiology for the continental United States.

#### Connecticut

The Connecticut Department of Public Health (CTDPH) implemented EPS statewide during April 1–October 31, and AS in two southwestern counties during July 1–October 31. Surveillance criteria included all hospitalized patients with encephalitis, meningoencephalitis, or Guillain-Barre syndrome (GBS) with fever; in August, criteria were expanded to include hospitalized aseptic meningitis patients aged ≥18 years. EPS consisted of monthly mailings to physicians and all acute-care hospitals to solicit reports of patients meeting surveillance criteria. In counties participating in AS, infection-control practitioners (ICPs) were asked to review emergency department and hospital admissions and report patients meeting surveillance criteria. ICPs were contacted weekly by CTDPH

<sup>\*</sup>AS=Health department-initiated contact with health-care providers to solicit reports; EPS=passive surveillance (i.e., health-care provider-initiated reports) enhanced by general alerts to key health-care personnel (e.g., primary-care providers, infectious disease physicians, and hospital infection-control personnel).

West Nile Virus - Continued

staff for follow-up on all reported patients. Serum and cerebrospinal fluid (CSF) specimens from all reported patients were tested for WNV-reactive IgM by enzyme-linked immunosorbent assays (ELISA) at the CTDPH laboratory.

During April 1–October 31, 235 patients were tested: 46 (20%) with encephalitis or meningoencephalitis, 44 (19%) with aseptic meningitis, and one (<1%) with GBS; 144 (61%) patients did not meet surveillance criteria but were tested at their physicians' requests. Of these 235 patients, one mildly symptomatic outpatient tested positive for WNV. Tested patients were not categorized by surveillance method.

### **New Jersey**

The New Jersey Department of Health and Senior Services implemented EPS statewide during June 1–November 30, and AS in six counties near NYC during July 15–October 31. Surveillance criteria included all patients hospitalized for viral encephalitis, meningoencephalitis, or GBS and patients aged ≥17 years with aseptic meningitis. For EPS, public health staff distributed WNV fact sheets, surveillance criteria, and reporting instructions to health-care providers. For AS, ICPs in six counties reviewed emergency department and hospital admissions, surveyed physicians, and provided weekly fax reports of patients meeting surveillance criteria. ICPs and physicians were contacted weekly for follow-up on all reported patients. Serum and CSF specimens from patients who met the surveillance criteria were tested for WNV-reactive IgM and IgG by ELISA at the state's Public Health and Environmental Laboratory.

Of 55 patients tested, 18 (33%) had encephalitis, 15 (27%) had meningoencephalitis, 19 (35%) had aseptic meningitis, and three (6%) had GBS. Six patients had laboratory evidence of WNV infection; five (83%) were identified through EPS and one (17%) through AS.

### **New York City**

The New York City Department of Health (NYCDOH) implemented EPS citywide during May 1-November 25, active physician-based surveillance (APS) during June 1-September 30, and active laboratory-based surveillance (ALS) during July 1–September 30. Surveillance criteria included all hospitalized patients with encephalitis, meningoencephalitis, or GBS with fever or altered mental status and patients aged >17 years with aseptic meningitis. For EPS, public health staff provided surveillance criteria and laboratory testing information to health-care providers through medical rounds, biweekly alerts, and a special issue of the NYCDOH's medical bulletin. APS was conducted at 18 sentinel sites; infectious disease and critical-care specialists and neurologists and chief medical residents were contacted biweekly for reports of patients meeting surveillance criteria. Twelve sites participated in ALS; hospital microbiology laboratories submitted CSF specimen results with parameters suggesting viral etiology for testing on a weekly basis. APS and ALS sites were selected initially on the basis of 1999 WNV activity; additional sites were added during the season as increasing WNV activity in birds and mosquitoes was detected in Staten Island and south Brooklyn. All serum and CSF specimens were tested for WNV-reactive IgM by ELISA at the NYC Public Health Laboratory.

Of 512 patients tested, 205 (40%) had encephalitis or meningoencephalitis, 236 (46%) aseptic meningitis, 22 (4%) GBS, 41 (8%) other diagnoses, and eight (2%) unknown diagnoses; 56 (11%) did not meet surveillance criteria but were tested at their physicians' request. Fourteen NYC residents had WNV infection diagnosed; 11 (79%) infections were detected at APS hospitals and three (21%) at hospitals where only EPS was conducted.

West Nile Virus - Continued

Two patients with WNV infection reported by physicians were identified simultaneously through ALS.

## New York State (excluding NYC)

During May 1–October 31, the New York State Department of Health (NYSDOH) and local units conducted EPS statewide and AS in counties with WNV activity in humans, birds, mosquitoes, or horses in 1999 or 2000; in April, NYSDOH implemented commercial laboratory surveillance. Surveillance criteria included all patients with viral encephalitis or meningoencephalitis and patients aged ≥2 years with aseptic meningitis. EPS included distributing alerts that encouraged physician reporting and specimen submission instructions to all local health units. Suggested activities for local health units conducting AS included weekly contact with medical staff at sentinel acute-care hospitals about patients meeting surveillance criteria. Commercial laboratories licensed by NYSDOH to perform arbovirus testing participated in surveillance by reporting patients who tested positive for antibodies to arboviral panels. Serum and CSF specimens from reported patients were tested for WNV infection at the New York Wadsworth Laboratory; testing included WNV-reactive IgM and IgG by ELISA, polymerase chain reaction, and plaque-reduction neutralization.

Of 589 patients tested, 230 (39%) had encephalitis or meningoencephalitis, 191 (32%) had aseptic meningitis, 89 (15%) did not meet surveillance criteria, and 79 (13%) were missing data to determine clinical status. Tested patients were not categorized by surveillance method. Commercial laboratory surveillance identified four patients who had flavivirus antibodies; investigation by local health units for travel and vaccination history and additional WNV testing indicated that none had a current or nontravel-related flavivirus infection. No human WNV infection was identified in New York outside of NYC.

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Editorial Note: In 2000, public health jurisdictions used active and passive surveillance approaches based on staff and laboratory resources and degree of WNV activity identified by bird, mosquito, and mammalian surveillance. AS fostered ongoing communication between health departments and health-care providers but had variable yield. Eleven of 14 WNV-confirmed patients from NYC but only one of six in New Jersey were identified at AS hospitals. AS could have identified a higher proportion of WNV illnesses in NYC because the location of AS coincided with the epicenter of the outbreak (Staten Island). In comparison with AS, EPS was less labor intensive for health-care providers and health department staff, and intense public awareness of WNV in the northeast United States may have improved EPS effectiveness, resulting in increased reporting. However, EPS did not provide direct education about WNV to health-care providers, and in the absence of media and public interest, EPS may have missed reports of suspect illnesses. To plan future surveillance strategies, jurisdictions should evaluate the costs and yields of active and passive WNV surveillance efforts in upcoming transmission seasons.

West Nile Virus - Continued

All jurisdictions focused surveillance on severe WNV manifestations. Serologic studies suggest that approximately one in 150 infected persons develop neurologic disease requiring hospitalization (2,3). By monitoring patients with severe disease, the number of infected persons can be estimated; however, jurisdictions with few nonhospitalized human WNV infections may not be identified. Surveillance among patients with mild and nonspecific symptoms (e.g., fever and headache) probably would exhaust laboratory and staff resources.

Most states did not conduct WNV testing on pediatric patients with meningitis in summer months because they most likely represented enteroviral infections (4). In addition, most 1999 human infections were identified in older hospitalized patients. Therefore, studies during outbreaks should be considered to determine the spectrum of clinical illness and the extent to which children are affected.

In 2001, EPS for hospitalized patients with encephalitis of unknown etiology is recommended for the continental United States (5). All suspect WNV illnesses should be screened by testing CSF and appropriately timed acute and convalescent serum specimens for IgM ELISA antibody. Appropriately timed acute and convalescent serum samples should be tested for a four-fold or greater rise in WNV-specific neutralizing antibody. With the availability of commercial laboratory testing for WNV, jurisdictions are encouraged to identify patients with commercial laboratory reports indicative of recent WNV infection and to verify these results by viral-specific neutralizing antibody testing. Monitoring of milder illnesses (e.g., aseptic meningitis or GBS) depends on jurisdictions' resources and should be a lower priority. AS should be considered in areas with known WNV activity on the basis of bird and mosquito surveillance data. Jurisdictions in the northeastern, central, and western United States should begin human surveillance by June 2001 or earlier if other surveillance activities, such as avian mortality surveillance, demonstrate WNV activity. WNV could circulate throughout the year in some areas, especially the Gulf States; therefore, human surveillance should be considered year round in southern states. Because the ELISA and hemagglutination-inhibition test can be crossreactive between WNV, St. Louis encephalitis, yellow fever, dengue, and Powassan viruses, patients who test positive for antibodies to these viruses should be tested for specific neutralizing antibody.

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# Progress Toward Poliomyelitis and Dracunculiasis Eradication — Sudan, 1999–2000

Sudan began poliomyelitis and dracunculiasis eradication activities in 1994 and 1995, respectively, in response to resolutions by the World Health Assembly of the World Health Organization (WHO) (1–4). Sudan poses special obstacles to global eradication campaigns as a result of the disruption caused by ongoing civil war in the vast southern part of the country. The activities of both programs are summarized in this report, which indicated that substantial progress was made to eradicate polio and control of dracunculiasis improved slightly. Continued commitment of resources, access to persons in areas of conflict, and a peaceful resolution of civil unrest are needed to eradicate both diseases.

### **Polio**

Reported routine coverage with three doses of oral poliovirus vaccine (OPV) was 90% in northern Sudan in 1999; preliminary data for 2000 suggest that coverage was approximately 70%. In southern Sudan, routine OPV coverage was an estimated 20%, with the lowest coverage in the Upper Nile (Operation Lifeline Sudan, southern sector, unpublished data, 1999).

During 1996–2000, routine coverage was supplemented by national immunization days (NIDs) (i.e., mass campaigns that occur over a short period, in which two OPV doses are administered usually to children aged <5 years) and subnational immunization days (SNIDs) (i.e., mass campaigns conducted in large areas of a country). During 2000, four rounds of NIDs and one round of SNIDs were conducted in northern Sudan and government-controlled areas of the south. During 1996–2000, the number of children vaccinated during NIDs increased from 3.3 to 5.4 million. During 1998–2000, two NIDs rounds\* were conducted annually in southern Sudan. Approximately 1.1 million children were vaccinated during the 2000 NIDs. Health-care workers traveling door-to-door to virtually inaccessible border and remote areas vaccinated an additional 500,000 children.

During 1999–2000, acute flaccid paralysis (AFP) surveillance improved, and the performance and reliability of the national poliovirus laboratory improved; it is now accredited by WHO. In the northern states and areas of the government-controlled south, the nonpolio AFP rate<sup>†</sup> increased from 0.4 in 1999 to 1.3 in 2000, and adequate stool specimen<sup>§</sup> collection from persons with AFP increased from 38% to 51% (Table 1). During the same period, the number of virologically confirmed polio cases decreased from nine to four. In southern Sudan, AFP surveillance began in 1998 and has expanded to approximately 200 sentinel reporting sites. One wild poliovirus was isolated in 1999 and none in 2000; the nonpolio AFP rate increased from 0.5 to 1.6.

<sup>\*</sup>In southern Sudan, NIDs were implemented with the cooperation of local health authorities and the government of Sudan, and were supported by national and international nongovernment organizations, Rotary International, the United Nations Foundation, WHO, the United Nations Children's Fund (UNICEF), the UNICEF national committees of the United States and the United Kingdom, and CDC.

<sup>&</sup>lt;sup>†</sup> Number of nonpolio AFP case-patients per 100,000 population aged <15 years. A nonpolio AFP rate of one or more nonpolio AFP cases per 100,000 children aged <15 years is the WHOestablished minimum indicative of a sensitive surveillance system.

<sup>&</sup>lt;sup>§</sup> Two stool specimens that are collected 24 to 48 hours apart, within 14 days of paralysis onset, and that arrive at the laboratory in good condition.

Poliomyelitis and Dracunculiasis — Continued

TABLE 1. Poliomyelitis surveillance indicators, by region — Sudan, 1999 and 2000

	Norther	n Sudan*	Southe	rn Sudan
Indicators	1999	2000	1999	2000
AFP cases	90	210	31	59
Nonpolio AFP rate <sup>†</sup>	0.4	1.3	0.5	1.6
Clinically confirmed				
polio cases	34	54	17	12
Virologically confirmed				
polio cases	9	4	1	0
Percentage of persons				
with AFP with adequate				
stool samples§	38	51	42	39

<sup>\*</sup> Includes government-controlled areas of the south.

### **Dracunculiasis**

Dracunculiasis (i.e., Guinea worm disease) is a parasitic infection acquired by drinking water from ponds contaminated by copepods (water fleas) that contain immature forms of the parasite. A year after the initial infection, the 30-inch (1 meter) worm(s) emerge through the skin, usually on the lower leg. Re-infection can occur; each infection lasts approximately 1 year. The peak transmission season in Sudan is May–September. No effective treatment exists; however, several measures can prevent transmission: boiling drinking water or filtering it through a finely woven cloth, preventing persons with an emerging worm from entering water, providing clean water from bore-hole wells, and treating unsafe water sources with the larvicide Abate<sup>®¶</sup> (temephos). Ideally, health-care workers contain the disease by detecting the infected person before or within 24 hours of worm emergence and apply control measures immediately.

Since Sudan's Guinea Worm Eradication Program began during the nationwide "Guinea Worm Cease Fire" in 1995, more progress has been made in the northern part than in the southern part of the country, which has a higher incidence of dracunculiasis (5) (Figure 1); 41 indigenous cases were reported in the northern states in 2000, a decrease of 77% from the 181 reported in those states during the same period in 1999. Another 49 cases were detected in persons displaced to the northern states from the embattled southern part of the country. Of these 90 cases, 72 (80%) were contained (Table 2); 90% of the remaining villages in the northern states where dracunculiasis is endemic have at least one safe source of drinking water, and 75% of the population has been educated about preventing the disease. Among all villages where disease is endemic, 3% have water treated with Abate®.

Progress in the south was limited during 2000 because of increased civil unrest. Several international nongovernment organizations withdrew from 548 (8%) southern villages where dracunculiasis is endemic because of a dispute with the forces that control much of the south. Most control indicators improved only slightly in 2000 compared

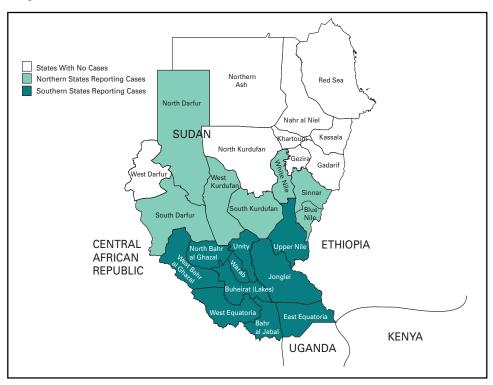
<sup>&</sup>lt;sup>†</sup> Number of nonpolio AFP case-patients per 100,000 population aged <15 years.

<sup>&</sup>lt;sup>5</sup> Two stool specimens collected 24 to 48 hours apart, within 14 days of paralysis onset, and arrive at the laboratory in good condition.

<sup>&</sup>lt;sup>¶</sup> Use of trade names and commercial sources is for identification only and does not constitute endorsement by CDC or the U.S. Department of Health and Human Services.

Poliomyelitis and Dracunculiasis — Continued

FIGURE 1. States reporting cases of dracunculiasis — Guinea Worm Eradication Program, Sudan, 2000



with 1999. The eradication program distributed approximately one million filters to households at risk and conducted approximately 30,000 health education sessions. During 2000, some southern states made progress; North Bahr al Ghazal reported 1097 cases, a 62% decrease from 2902 reported in 1999, and Lakes (Buheirat) reported 8227 cases, a 61% decrease from 21,102. The percentage of villages where dracunculiasis is endemic that submitted reports changed only slightly over this period, and the reliability of the reported decreases is uncertain because of variable access to the area.

Reported by: Sudan Country Office, World Health Organization, Khartoum, Sudan. WHO Suboffice for south Sudan, World Health Organization, Nairobi, Kenya. Eastern Mediterranean Regional Office, World Health Organization, Cairo, Egypt. Vaccines and Biologicals Dept, World Health Organization; WHO Collaborating Center for Research, Training and Eradication of Dracunculiasis, Geneva, Switzerland. Global 2000, the Carter Center, Atlanta, Georgia. Div of Parasitic Diseases, National Center for Infectious Diseases; Respiratory and Enteric Viruses Br, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Vaccine Preventable Disease Eradication Div, National Immunization Program; and an EIS Officer, CDC.

**Editorial Note:** Progress in Sudan during 1999–2000 demonstrates that key polio and Guinea worm eradication strategies can have some success in countries experiencing internal conflict. Sudan's polio and dracunculiasis eradication programs have collaborated since 1995. Children were vaccinated against polio during the Guinea Worm Cease Fire,

Poliomyelitis and Dracunculiasis — Continued

TABLE 2. Provisional number of known, reporting, and accessible and served villages; percentage of villages with interventions; and number of cases reported and percentage contained, by state where dracunculiasis is endemic — Sudan, 2000

			ΠN	Villages where dracunculiasis is endemic	racunculiasis i	is endemic				
•							(%)	(%)		
		Accessible			(%)	(%)	households	with safe	Ca	Cases
State	Total	and	Total	Reporting	reporting	health	with filters	drinking water	No.	(%) contained
Warab	1.813	783	585	562	( 18%)	( 32%)	( 23%)	( 38%)	18.490	( 44%)
Jonglei	2,234	1,042	1,251	794	( 23%)	(38%)	(38%)	(30%)	17,458	(32%)
Buheirat (Lakes)		1,012	982	669	( 51%)	( 74%)	(33%)	( 23%)	8,227	( 46%)
Bahr al Jabal		360	333	262	( 62%)	( 82%)	( 40%)	( 38%)	3,335	( 54%)
Upper Nile	200	200	125	122	( 41%)	( 40%)	(%6 )	( 19%)	2,207	( 33%)
East Equatoria	295	261	202	147	( 62%)	(%69)	( 10%)	(%09)	1,831	( 92%)
West Bahr al Ghazal	257	255	250	182	( 81%)	(%68)	( \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(%26)	1,181	( 64%)
North Bahr al Ghazal	807	710	704	340	(%89)	( 71%)	( 28%)	( 81%)	1,097	( 54%)
West Equatoria	446	446	428	144	( 48%)	(%96)	( 32%)	(%98)	513	( 52%)
Unity	195	142	141	66	(%95)	( 52%)	(31%)	( 27%)	395	( 32%)
West Kurdufan	88	38	38	12	(100%)	( 84%)	(%9L)	( 35%)	30	( \\ \( \)
Sinnar	6	6	6	4	(100%)	( 26%)	( \\ 28%)	(%29)	22	( 82%)
North Darfur	10	10	10	9	(100%)	(100%)	(100%)	(100%)	15	(100%)
South Kurdufan	13	13	13	4	(%36)	( 82%)	( 85%)	(100%)	12	(%29)
White Nile	9	9	9	2	(100%)	(100%)	( 20%)	( 83%)	9	(100%)
South Darfur	9	9	9	4	(%26)	(100%)	( 33%)	(%29)	4	( 52%)
Blue Nile	2	2	2	<b>-</b>	(100%)	(100%)	( 40%)	(100%)	-	(100%)
Khartoum	-	-	_	0	(100%)	(100%)	(%0 )	(100%)	0	(%0 )
Total	7,899	5,299	5,089	3,384	( 38%)	( 54%)	( 30%)	( 45%)	54,824	( 45%)

Poliomyelitis and Dracunculiasis — Continued

and Guinea worm program workers have assisted during NIDs. During 1999 and 2000 NIDs, health-care workers from both programs distributed 16,000 t-shirts with a polio message on the front and a Guinea worm message on the back.

Substantial progress toward polio eradication was made during 1999–2000; the nonpolio AFP rate tripled and the quality of NIDs and SNIDs implementation, local planning, supervision, and training improved. Polio eradication in Sudan will require improving stool specimen collection, expanding and strengthening the AFP surveillance system, and multiple supplemental vaccination campaigns.

Approximately 73% of reported dracunculiasis cases worldwide are from southern Sudan, making it the main source of exported cases to the northern part of the country and to Central African Republic, Ethiopia, Kenya, and Uganda. Dracunculiasis eradication will require maintaining surveillance to identify case-patients and villages where dracunculiasis is endemic, rapidly implementing control measures, and a peaceful resolution to the war. To eradicate both illnesses will require sustained national commitment with multisectoral governmental support, ensured access to persons living in areas of conflict, ongoing coordination between the northern states and rebel-held areas in southern states, and international partners to provide human and financial resources are needed to eradicate both diseases.

#### References

- World Health Assembly. Elimination of dracunculiasis: resolution of the 39th World Health Assembly. Geneva, Switzerland: World Health Organization, 1986 (resolution no. WHA 39.21).
- World Health Assembly. Elimination of dracunculiasis: resolution of the 44th World Health Assembly. Geneva, Switzerland: World Health Organization, 1991 (resolution no. WHA 44.5).
- 3. CDC. Progress toward global poliomyelitis eradication, 1999. MMWR 1999;49:349-54.
- 4. CDC. Progress toward poliomyelitis eradication—Eastern Mediterranean Region, 1999–September 2000. MMWR 2000;49:1024–8.
- CDC. Progress toward global dracunculiasis eradication, June 2000. MMWR 2000;49:731–5.

## Notice to Readers

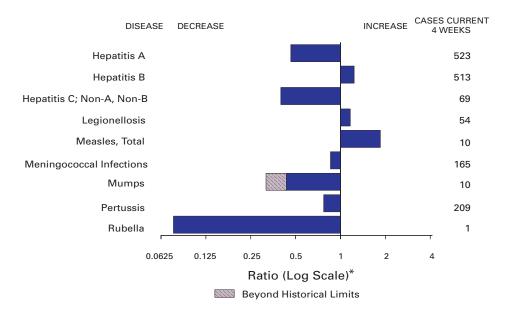
# Revision of Guidelines for Surveillance, Prevention, and Control of West Nile Virus Infection

The revised "Guidelines for Surveillance, Prevention, and Control of West Nile Virus Infection—United States, 2001," is now available from CDC at http://www.cdc.gov/ncidod/dvbid/westnile/publications.htm. The revision of the 2000 Guidelines (1) was derived from discussions during the national meeting on West Nile virus held in Charlotte, North Carolina, during January 31–February 4, 2001 (2).

#### References

- 1. CDC. Guidelines for surveillance, prevention, and control of West Nile virus infection— United States. MMWR 2000;49:25–8.
- 2. Gubler DJ, Campbell GL, Petersen L, Roehrig JT. West Nile virus in the United States: guidelines for detection, prevention and control. Vir Immunol 2000;13:469–75.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending April 7, 2001, with historical data



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

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending April 7, 2001 (14th Week)

		Cum. 2001		Cum. 2001
Anthrax		-	Poliomyelitis, paralytic	_
Brucellosis*		15	Psittacosis*	3
Cholera		-	Qfever*	3
Cyclosporiasis	<b>3</b> *	30	Rabies, human	-
Diphtheria		-	Rocky Mountain spotted fever (RMSF)	28
Ehrlichiosis:	human granulocytic (HGE)*	7	Rubella, congenital syndrome	-
	human monocytic (HME)*	3	Streptococcal disease, invasive, group A	972
Encephalitis:	California serogroup viral*	-	Streptococcal toxic-shock syndrome*	17
•	eastern equine*	-	Syphilis, congenital <sup>¶</sup>	14
	St. Louis*	-	Tetanus	2
	western equine*	-	Toxic-shock syndrome	40
Hansen diseas	se (leprosy)*	13	Trichinosis	5
	Imonary syndrome*†	2	Tularemia*	5
	mic syndrome, postdiarrheal*	14	Typhoid fever	43
HIV infection,	pediatric*§	37	Yellow fever	-
Plague	•	-		

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

<sup>\*</sup>Not notifiable in all states.

<sup>&</sup>lt;sup>†</sup> Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).

<sup>&</sup>lt;sup>5</sup> 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 February 27, 2001.

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

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending April 7, 2001, and April 8, 2000 (14th Week)

	weeks	enain	g Aprii A	/, 200 I,	and A	orii 8, 20	JUU (14t	n vveek	.)	
									coli O157:H7	
	AID		Chlan			poridiosis	NET		PH	
Reporting Area	Cum. 2001⁵	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000
UNITED STATES	5,820	9,320	161,337	180,243	354	370	246	379	156	300
NEW ENGLAND Maine	200 3	653 11	5,452 276	6,244 360	13	25 3	30 3	38 3	23 3	36 3
N.H.	12 9	9	291	297	- 5	- 8	5 1	4 1	3	4 2
Vt. Mass.	118	439	152 2,328	152 2,648	4	7	16	17	11	13
R.I. Conn.	24 34	20 174	800 1,605	633 2,154	2 2	2 5	- 5	13	2 4	14
MID. ATLANTIC	1,180	2,343	14,772	16,977	40	75	22	41	10	48
Upstate N.Y. N.Y. City	29 740	102 1,428	N 7,432	N 7,124	18 20	18 53	17 -	36 4	6 1	37 1
N.J. Pa.	241 170	481 332	1,264 6,076	3,585 6,268	1 1	1 3	5 N	1 N	3	4 6
E.N. CENTRAL	463	850	20,004	31,043	105	74	52	71	18	22
Ohio Ind.	77 45	112 75	437 3,304	8,390 3,581	28 14	14 3	19 9	15 6	10 1	7 8
III. Mich.	226 97	535 99	6,014 7,815	8,830 5,831	28	7 10	9 11	23 12	4	3
Wis.	18	29	2,434	4,411	35	40	4	15	3	4
W.N. CENTRAL Minn.	110 29	164 36	8,630 1,648	10,276 2,159	15	22 4	21 3	58 11	18 8	61 28
Iowa Mo.	15 38	13 72	990 2.867	1,139 3,530	7 4	3 6	3 10	12 24	2 5	6 14
N. Dak.	1	-	240	264	-	1	-	2	-	4
S. Dak. Nebr.	9	2 9	499 768	483 1,015	1 3	3 2	1 -	1 4	1 -	1 5
Kans.	18	32	1,618	1,686	-	3	4	4	2	3
S. ATLANTIC Del.	1,673 37	2,492 44	34,304 829	34,061 812	81 1	53 1	32	33	14 -	21 -
Md. D.C.	131 166	267 186	3,498 843	3,216 808	19 3	5	1 -	5	Ū	1 U
Va. W. Va.	137 12	158 13	4,649 599	3,993 575	6	2	6 1	6 2	5	5 1
N.C. S.C.	101 171	101 174	5,533 3,428	5,495 4,140	11	4	15 1	8	5	2
Ga.	187	293	6,869	6,434	25	32	3	3	2	6
Fla. E.S. CENTRAL	731 360	1,256 343	8,056 13,230	8,588 13,613	16 11	9 11	5 9	7 21	2 8	6 18
Ky.	51	56	2,352	2,166	1	-	1	7	2	6
Tenn. Ala.	132 95	133 100	3,994 3,590	3,815 4,593	2 4	1 7	4 4	7 1	5	10
Miss.	82	54	3,294	3,039	4	3	-	6	1	2
W.S. CENTRAL Ark.	629 45	757 30	26,267 2,224	26,748 1,372	6 2	18 1	18	21 4	20	34 3
La. Okla.	188 36	124 31	4,727 2,520	5,013 2,317	3 1	2 1	6	4	7 5	8 3
Tex.	360	572	16,796	18,046	-	14	12	13	8	20
MOUNTAIN Mont.	241 5	289 5	8,137 398	10,557 331	34 1	27 1	26 2	34 8	16	16 -
ldaho Wyo.	5	4 1	508 175	518 202	5	3 2	3	4 3	-	1 2
Cólo. N. Mex.	40 15	62 40	751 1.520	3,047 1,301	12 8	8 1	12 1	12	8	6
Ariz. Utah	93 23	92 30	3,425 279	3,435 697	1 7	3 7	5 2	5 1	4 3	5 1
Nev.	60	55 55	1,081	1,026	-	2	1	i	1	i
PACIFIC Wash.	964 117	1,429 141	30,541 3,716	30,724 3,402	49 N	65 U	36 8	62 8	29 8	44 17
Oreg.	38 798	35	118	1,772	2	2	3	9	3	9
Calif. Alaska	2	1,215 5	25,202 640	24,148 647	47 -	63	25	39 1	16	13 1
Hawaii Guam	9 5	33 13	865	755	-	-	- N	5 N	2 U	4 U
P.R.	158	184	1,451	Ų			-	1	Ü	U
V.I. Amer. Samoa	1 -	11 -	U	U	U U	U	U	U	U U	U
C.N.M.I.	-	-	U	U	U	U	U	U	U	U

N: Not notifiable.

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 February 27, 2001.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending April 7, 2001, and April 8, 2000 (14th Week)

	weeks ei	nding Apri	1 7, 2001	, and Ap	111 0, 20	00 (14	tii week	<u>'</u>	
	Gonor	rhea	Hepati Non-A,	tis C; Non-B	Legione	llosis	Listeriosis		me ease
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2001	Cum. 2000
UNITED STATES	76,692	92,868	446	879	173	183	78	521	1,093
NEW ENGLAND Maine	1,507 37	1,730 21	5	5	7	16 2	10	141	166
N.H.	33	25	-	-	1	2	-	42	17
Vt. Mass.	23 702	14 696	3 2	2 3	3 2	9	6	1 19	59
R.I. Conn.	201 511	159 815	-	-	1	3	4	79	90
MID. ATLANTIC	8,829 1,839	9,530 1,514	22 13	181 13	16 11	37 15	8	246 190	737 274
Upstate N.Y. N.Y. City	3,210	3,083	-	-	3	5	1	-	26
N.J. Pa.	774 3,006	2,052 2,881	9	160 8	1 1	1 16	1 3	56	95 342
E.N. CENTRAL Ohio	10,661 297	18,806 4,673	54 4	69	54 28	53 24	8 1	11 11	26 3
Ind.	1,455 3,752	1,600 6,172	3	9	6	8 5	1	'-	- 1
Mich.	4,393	4,455	47	60	14	8	5	- U	-
Wis. W.N. CENTRAL	764 3.632	1,906 4,347	- 81	123	6 13	8 9	1 2	16	22 15
Minn. lowa	494 282	837 268	-	-	1 3	1 3	-	10	6
Mo.	1,827 9	2,128 13	77	117	6	3	1	4	4
N. Dak. S. Dak.	56	66	-	-	-	1	-	-	-
Nebr. Kans.	247 717	338 697	2 2	2 4	2 1	1	1	1 1	1 4
S. ATLANTIC Del.	21,112 439	25,803 435	29	19 1	24	36 2	15	87	120 16
Md. D.C.	2,127 857	2,221 597	10	3	6 1	11	2	76 6	88
Va. W. Va.	2,494 129	2,665 157	- - 1	2	4 N	3 N	2	2 1	6
N.C.	4,440	4,874	7	7	2	4	-	2	4
S.C. Ga.	2,502 3,588	4,848 4,047	2	-	2	2 2	4	-	_
Fla. E.S. CENTRAL	4,536 8,552	5,959 9,556	9 63	6 135	9 16	12 5	6 6	2	2 1
Ky. Tenn.	932 2,622	889 2,916	3 16	15 26	6 6	3 1	1 3	2	' 1
Ala.	2,960	3,430	1	3	2	i	2	-	-
Miss. W.S. CENTRAL	2,038 13,034	2,321 13,958	43 139	91 267	2	4	2	-	6
Ark. La.	1,451 3,207	651 3,553	2 55	3 157	2	2	1	-	2
Okla.	1,202	1,041 8,713	1 81	107	1	- 2	- - 1		- 4
Tex. MOUNTAIN	7,174 2,559	2,873	22	29	11	12	7	1	-
Mont. Idaho	19 26	7 25	1	1		1	-		-
Wyo. Colo.	15 900	17 934	3 8	1 11	4	- 6	- 1	-	-
N. Mex. Ariz.	272 921	274 1,165	6 1	4	1 4	2	2 1	-	-
Utah	26	88	-	-	1	3	1	-	-
Nev. PACIFIC	380 6.806	363 6,265	3 31	3 51	1 29	- 11	2 20	1 17	22
Wash. Oreg.	837 20	619 231	9	6 12	5 N	5 N	1	1	2
Calif. Alaska	5,715 75	5,239 73	21	33	24	6	19	16	20
Hawaii	159	103	-	-	-	-	-	N	N
Guam P.R.	364	131	-	- 1	2	-	-	- N	- N
V.I. Amer. Samoa	Ü	Ü	U U	Ú U	น บ	U U	-	Ü	Ü
C.N.M.I.	ŭ	ŭ	ŭ	ŭ	ŭ	ŭ	-	ŭ	ŭ

N: Not notifiable.

U: Unavailable.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending April 7, 2001, and April 8, 2000 (14th Week)

	WCCKS	chang A	piii 7, 20	o i, alia A	1 0, 200	Salmon		
	Mal		Rabie	s, Animal	NE	TSS	PH	LIS
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000
UNITED STATES	198	237	1,163	1,459	5,025	6,297	4,182	5,880
NEW ENGLAND	17	10	131	163	418	411	388	438
Maine N.H.	1 1	1 -	18 5	43 3	27 35	31 24	17 29	22 26
Vt. Mass.	- 5	1 6	26 36	9 48	20 253	31 240	18 204	35 239
R.I. Conn.	10	2	14 32	9 51	21 62	9 76	35 85	30 86
MID. ATLANTIC	33	46	182	236	401	929	556	1,101
Upstate N.Y. N.Y. City	9 15	12 24	149 1	175 3	174 185	197 273	64 251	278 302
N.J. Pa.	6	5 5	31 1	34 24	42	269 190	111 130	204 317
E.N. CENTRAL	26	31	4	14	742	962	637	521
Ohio Ind.	5 8	3 1	- 1	2	288 62	207 87	221 59	180 111
III. Mich.	13	16 9	3	6	181 139	348 150	179 119	1 159
Wis.	-	2	-	6	72	170	59	70
W.N. CENTRAL Minn.	5 1	13 4	81 15	121 22	307 31	292 38	337 109	410 121
Iowa Mo.	1 2	1	15 5	16 3	56 115	37 97	52 117	45 123
N. Dak. S. Dak.	-	-	14 9	21 33	1 1 23	4 16	9 12	18 25
Nebr.	:	2	-	-	31	45	-	35
Kans. S. ATLANTIC	1 56	6 55	23 515	26 509	50 1,298	55 1,081	38 860	43 907
Del.	1 23	-	10 88	10	23 147	1,081 17 168	23 151	25 169
Md. D.C.	4	23	-	112	18	-	U	Ü
Va. W. Va.	11 -	15 -	96 36	123 30	152 9	120 28	100 18	125 22
N.C. S.C.	1 2	6	134 27	127 32	258 149	190 94	160 174	135 82
Ga. Fla.	3 11	1 10	68 56	45 30	196 346	173 291	188 46	267 82
E.S. CENTRAL	8	10	35	45	335	317	173	254
Ky. Tenn.	2	2 1	5 25	9 28	61 91	68 64	33 98	46 112
Ala. Miss.	3 -	6 1	5 -	8 -	130 53	111 74	31 11	81 15
W.S. CENTRAL	3	3	80	266	390	606	369	397
Ark. La.	1	3	-	-	57 57	59 66	29 116	32 81
Okla. Tex.	1 1	-	21 59	18 248	27 249	59 422	26 198	51 233
MOUNTAIN	16	15	41	46	393	533 20	305	488
Mont. Idaho	1 1	1 -	5	10	12 18	34	4	33
Wyo. Colo.	9	8	10	22	9 114	8 148	6 100	6 140
N. Mex. Ariz.	1 1	2	1 25	3 11	48 126	51 157	47 81	45 146
Utah Nev.	2 1	2 2	-	-	44 22	75 40	44 23	78 40
PACIFIC	34	54	94	59	741	1,166	557	1,364
Wash. Oreg.	1	3 9	-	-	85 5	73 76	144 53	147 101
Calif. Alaska	32 1	40	66 28	51 8	642 9	948 16	284	1,054 16
Hawaii	-	2	-	-	-	53	76	46
Guam P.R.	-	2	42	14	- 75	90	U U	U U
V.I. Amer. Samoa	U U	U U	U	U U	U U	U U	U U	U U
C.N.M.I.	Ü	Ü	Ü	Ū	Ü	ŭ	Ū	Ū

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 April 7, 2001, and April 8, 2000 (14th Week)

	weeks			01, and A	1	<u>00 (14th V</u>	Veek)	
	NET		llosis*	PHLIS	Sy (Primary 8	philis & Secondary)	Tube	rculosis
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000
UNITED STATES	2,566	4,060	1,383	2,524	1,308	1,740	2,202	2,937
NEW ENGLAND	39	83	46	65	11	23	82	84
Maine N.H.	1 1	2 1	1 1	1	1	-	6	2 2
Vt. Mass.	28	1 60	28	45	7	19	1 47	48
R.I. Conn.	2 7	6 13	5 11	7 12	3	1 3	6 22	7 25
MID. ATLANTIC	233	578	205	390	84	81	494	497
Upstate N.Y. N.Y. City	117 88	183 295	2 120	112 163	4 61	3 36	63 255	45 293
N.J. Pa.	28	62 38	39 44	58 57	9	16 26	110 66	123 36
E.N. CENTRAL	393	667	223	242	186	374	232	291
Ohio Ind.	118 71	39 78	65 13	33 17	21 35	21 121	41 20	51 23
III.	100	261	84	2	31	125	116	172
Mich. Wis.	82 22	216 73	57 4	183 7	92 7	88 19	33 22	24 21
W.N. CENTRAL Minn.	275 66	234 43	253 132	192 60	13 6	30 3	100 53	117 43
Iowa	59 77	40	56 49	45 68	6	8	9 23	8 48
Mo. N. Dak.	9	116 1	1	1	-	15 -	-	-
S. Dak. Nebr.	15 22	1 21	1 -	11	-	2	2 13	3 3
Kans. S. ATLANTIC	27 420	12 476	14 130	7 146	1 533	2 567	443	12 503
Del.	3	3	2	2	2	2	-	-
Md. D.C.	31 16	27	10 U	10 U	66 12	97 17	41 13	60
Va. W. Va.	29 4	16 2	15 6	21 2	46	36 1	46 8	52 9
N.C. S.C.	102 29	32 5	51 17	16 4	135 79	151 57	67 19	72 18
Ga. Fla.	56 150	56 335	25 4	57 34	53 140	95 111	98 151	128 164
E.S. CENTRAL	237	181	71	135	152	257	156	211
Ky. Tenn.	88 25	39 86	25 23	22 106	12 83	22 167	15 43	20 82
Ala. Miss.	58 66	9 47	17 6	5 2	27 30	35 33	74 24	71 38
W.S. CENTRAL	378	634	246	207	186	240	170	484
Ark. La.	141 15	58 78	65 49	17 38	14 39	17 65	34	37 25
Okla. Tex.	4 218	8 490	132	6 146	22 111	51 107	27 109	19 403
MOUNTAIN Mont.	177	254	110	147	46	47	77	115
Idaho	5	1 23	-	16	-	-	4	4
Wyo. Colo.	39	1 42	29	1 21	2	1	25	12
N. Mex. Ariz.	34 76	25 97	27 36	15 41	4 32	6 38	5 23	17 41
Utah Nev.	10 13	14 51	10 8	18 35	6 2	2	5 15	7 34
PACIFIC	414	953	99	1,000	97	121	448	635
Wash. Oreg.	49 2	187 83	62 26	212 49	19	12 3	45 -	54 20
Calif. Alaska	361 2	666 6	-	728 3	75 -	106	393 10	516 15
Hawaii	-	11	11	8	3	-	-	30
Guam P.R.	7	- 14	U U	U U	96	- 47	38	21
V.I. Amer. Samoa	U U	U U	U U	U U	U U	U U	U U	U U
C.N.M.I.	ŭ	ŭ	Ŭ	ŭ	ŭ	ŭ	ŭ	ŭ

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 April 7, 2001, and April 8, 2000 (14th Week)

			and	April	8, 2000	(14th	wee	K)				
		ienzae,		epatitis (Vi		ре				les (Rubeo		
		sive	Α.		В	_	Indiger		Impo		Total	
Reporting Area	Cum. 2001 <sup>†</sup>	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	2001	Cum. 2001	2001	Cum. 2001	Cum. 2001	Cum. 2000
UNITED STATES	361	392	2,231	3,433	1,528	1,563	1	13	-	15	28	9
NEW ENGLAND	14	32	97	91	15	25	_	3	_	1	4	-
Maine N.H.	1	1 6	1 5	5 8	1 6	1 6	-	-	-	-	-	-
Vt.	-	3	2	3	1	3	-	1	-	-	1	-
Mass. R.I.	13	18	35 4	39 5	1 6	1 2	-	2	_	1 -	3	-
Conn.	-	4	50	31	=	12	-	-	-	-	-	-
MID. ATLANTIC	41	57	155	225	196	263	-	1	-	4	5	-
Upstate N.Y. N.Y. City	14 17	23 19	55 85	63 124	33 104	26 147	-	-	-	4	4	-
N.J. Pa.	9 1	11 4	- 15	38	44 15	12 78	-	- 1	-	-	- 1	-
E.N. CENTRAL	42	60	244	483	180	141		'		7	7	3
Ohio	24	17	76	104	34	30	-		-	2	2	2
Ind. III.	10 4	5 24	20 52	12 207	4 14	5 2	-	-	-	2 3	2 3	-
Mich.	1	3	96	147	128	103	-	-	-	-	-	1
Wis.	3	11	-	13	-	1	-	-	-	-	-	-
W.N. CENTRAL Minn.	14 6	12 7	127 7	288 28	54 4	81 4	-	4 1	-	-	4 1	-
lowa	1	- 4	10 41	31	5	11	-	3	-	-	3	-
Mo. N. Dak.	6	1	-	181 -	35 -	53 -	-	-	-	-	-	-
S. Dak. Nebr.	- 1	-	1 17	10	1 5	9	-	-	-	-	-	-
Kans.		-	51	38	4	4	-	-	-	-	-	-
S. ATLANTIC	138	100	477	358	349	279	1	3	-	1	4	-
Del. Md.	37	27	66	6 44	41	4 44	-	2	-	1	3	-
D.C.	9	-	13	46	3	-	-	-	-	-	-	-
Va. W. Va.	4	20 3	38 1	30	35 3	38 2	-	-	-	-	-	-
N.C. S.C.	20 2	8 4	34 17	63 11	80 1	81 2	-	-	-	-	-	-
Ga.	29	26	155	47	94	45	1	1	-	-	1	-
Fla.	37	12	153	111	92	63	-	-	-	-	-	-
E.S. CENTRAL Ky.	24 1	17 9	77 8	146 14	96 11	113 17	-	-	-	-	-	-
Tenn.	12	5	35	51	36	52	-	-	-	-	-	-
Ala. Miss.	10 1	3	30 4	21 60	28 21	9 35	-	-	-	-	-	-
W.S. CENTRAL	8	22	321	658	208	177	-	1	_	-	1	-
Ark. La.	2	- 7	16 19	51 28	26 12	20 44	-	-	-	-	-	-
Okla.	6	15	50	101	23	22	-	-	-	-	-	-
Tex.	-	-	236	478	147	91	-	1	-	-	1	-
MOUNTAIN Mont.	72	46	229 4	240 1	145 1	124 3	-	-	-	1 -	1	-
Idaho	1	2	25	11	4	4	i.	-	ū	1	1	-
Wyo. Colo.	14	11	1 27	3 51	31	26	U	-	U	-	-	-
N. Mex. Ariz.	10 38	11 17	7 114	27 113	40 52	41 37	-	-	-	-	-	-
Utah	2 7	3	21	17	5	3			-	-		
Nev.		2	30	17	12	10	-	-	-	-	-	-
PACIFIC Wash.	8 1	46 2	504 21	944 57	285 23	360 16	-	1	-	1	2	6 3
Oreg.	1	15	7	73	4	32	-	-	-	-	-	-
Calif. Alaska	5 1	16 1	466 10	804 4	254 4	305 2	-	1 -	-	1 -	2	3
Hawaii	-	12	-	6	-	5	-	-	-	-	-	-
Guam P.R.	-	2	- 20	102	- 15	- 72	U	-	U	-	-	-
V.I.	Ü	U	28 U	U	U	U	Ū	Ü	Ū	Ü	Ū	Ū
Amer. Samoa C.N.M.I.	U	U U	U	U U	U	U U	U	U	U	U	U U	U U
												<u> </u>

N: Not notifiable. U: Unavailable. -: No reported cases.
\*For imported measles, cases include only those resulting from importation from other countries.

† Of 69 cases among children aged <5 years, serotype was reported for 34, and of those, 7 were type b.

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending April 7, 2001, and April 8, 2000 (14th Week)

			and A	pril 8, 2	000 (1	4th W	еек)				
	Dis	gococcal ease		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	782	757	1	32	126	48	1,267	1,315	-	3	14
NEW ENGLAND	51	43	-	-	2	-	212	367	-	-	5
Maine N.H.	5	3 3	-	-	-	-	16	9 48	-	-	1
Vt. Mass.	4 29	2 27	-	-	-	-	22 168	64 230	-	-	3
R.I.	1	2	-	-	1	-	6	5	-	-	- 1
Conn. MID. ATLANTIC	12 65	6 72	-	-	1 7	5	77	11 102	-	1	2
Upstate N.Y.	27	14	-	-	5	5	67	65	-	i	2
N.Y. City N.J.	16 21	22 16	-	-	-	-	2	-	-	-	-
Pa.	1	20	-	-	2	-	8	37	-	-	-
E.N. CENTRAL Ohio	96 34	132 23	-	5 1	14 4	8 4	154 106	185 108	-	1	-
Ind.	17	16	-	-	-		5	9			-
III. Mich.	18 18	37 41	-	3 1	3 6	4	11 15	18 12	-	1 -	-
Wis.	9	15	-	-	1	-	17	38	-	-	-
W.N. CENTRAL Minn.	52 5	45 3	-	1	6	-	38	37 15	-	-	1
lowa	13	12	-	-	3	-	3	7	-	-	-
Mo. N. Dak.	20 2	24 1	-	-	1 -	-	23	5 1	-	-	-
S. Dak. Nebr.	2 2	2 2	-	-	1	-	2	1 2	-	-	- 1
Kans.	8	1	-	1	i	-	10	6	-	-	-
S. ATLANTIC Del.	158	111	-	4	16	4	61	96 1	-	1	2
Md.	21	12	-	2	6	-	12	29	-	-	-
D.C. Va.	17	19	-	- 1	2	2	8	- 5	-	-	-
W. Va. N.C.	4 39	3 20	-	-	2	-	1 23	28	-	-	-
S.C.	14	6	-	1	5	1	8	14	-	-	1
Ga. Fla.	22 41	21 30		-	1	1	2 7	9 10	-	1 -	1
E.S. CENTRAL	54	51	-	-	1	3	27	33	-	-	-
Ky. Tenn.	10 21	10 22	-	-	-	3	6 16	22 2	-	-	-
Ala. Miss.	19 4	14 5	-	-	1	-	2 3	8 1	-	-	-
W.S. CENTRAL	118	83	1	4	14	5	20	23	_	_	3
Ark. La.	8 38	5 25		1	1	-	2	5	-	-	-
Okla.	13	10	-	-	-	=	1	-	-	-	-
Tex.	59	43	1	2	10	5	17	15	-	-	3
MOUNTAIN Mont.	46	48 1	-	4	7 1	22	594 3	228 1	-	-	-
ldaho Wyo.	3	6	Ū	- 1	-	5 U	156	32	Ū	-	-
Colo.	18	12	-	1	1	8	131	141	-	-	-
N. Mex. Ariz.	8 9	7 15		2	1 -	1 8	16 278	35 11	-	-	-
Utah Nev.	5 3	5 2	-	-	2 2	-	9 1	5 3	-	-	-
PACIFIC	142	172	_	14	59	1	84	244	-	-	1
Wash. Oreg.	25 2	15 22	- N	- N	2 N	1	28	58 24	-	-	1
Calif.	114	130	-	13	52	-	56	149	-	-	-
Alaska Hawaii	1 -	1 4	-	1 -	5	-	-	4 9	-	-	-
Guam	-	-	U	-	-	U	-	-	U	-	-
P.R. V.I.	1 U	3 U	Ū	Ū	Ū	Ū	Ū	Ū	Ū	Ū	Ū
Amer. Samoa C.N.M.I.	Ü	Ü	Ü	Ü	Ü	Ü	Ü	Ü	Ü	Ü	Ü
O.14.191.1.	<u> </u>	U		<u> </u>	U	U		<u> </u>	U	<u> </u>	<u> </u>

N: Not notifiable.

U: Unavailable.

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

TABLE IV. Deaths in 122 U.S. cities,\* week ending April 7, 2001 (14th Week)

					Apri	, ,	200	(14th Weel	()						
	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. Bridgeport, Conn Cambridge, Mass Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Ma New Haven, Conn Providence, R.I. Somerville, Mass Springfield, Mass Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y.	644 170 . 49 . 21 27 84 20 11 ss. 33 . 32 60 . 10	449 103 20 22 50 12 8 29 22 49 6 6 35 15 46 1,502 15 30 15 15	3 4 4	47 20 3 - 1 10 2 - 1 3 3 2 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 2 3 - - 2 - 1 1 - - - 2 9 3 3	13 3 	56 9 3 4 2 8 2 1 4 1 5 4 13 10 4 - 5 6	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, De E.S. CENTRAL Birmingham, Al. Chattanooga, Te Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mackid.	1,253 173 203 1001 . 185 70 58 57 41 Fla. 72 183 C. 99 I. 11 900 a. 177 2nn. 86 92 74	804 103 112 66 129 43 33 30 33 132 49 11 629 113 59 46 142	252 36 56 24 40 16 11 19 6 1 10 33 - 179 43 19 13 19 31	90 15 28 9 7 7 5 4 1 1 11 - 64 11 7 10 7	31 65 5 42 3 1 - 2 3 - 14 4 1 1 1 3	38 13 2 4 - 7 1 - 6 - 3 - 13 5 - 1 3	102 7 13 15 10 26 1 6 5 9 9 1 1 - - - - - - - - - - - - - - - -
Camden, N.J. Elizabeth, N.J. Erie, Pa.\$ Jersey City, N.J. New York City, N.J. Paterson, 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.	27 35 4. 1,067 51 U 267 47 34 150 . 34 31 105 20 U	14 25 29 754 29 U 196 32 25 123 30 25 76 11 15 U	11 8 17 216 17 U 54 11 6 22 3 5 20 4 4 U	2 1 5 89 5 U 12 1 3 2 1 - 6 - 1 U	10 16 U 3 2 I 1 1 I 1 U 20 1	12 U 2 1 2 - 2	3 - 45 - U 13 3 1 11 1 2 8 - 2 U	Mobile, Ala. Montgomery, A Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, England Corpus Christi, Dallas, Tex. El Paso, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La San Antonio, Te Shreveport, La. Tulsa, Okla. MOUNTAIN	167 1,564 76 1. 51 Tex. 71 176 93 119 415 91	49 36 117 1,029 55 41 415 74 86 231 60 54 149 33 89 629	16 8 30 292 11 5 20 32 12 22 82 15 15 35 10 33	6 3 12 143 8 3 3 18 6 5 61 11 12 8 · 8 64	4 63 2 1 6 1 1 35 3 3 4 2 5	37 2 2 8 5 6 2 3 5 1 3	4 13 14 121 8 9 15 4 5 41 4 5 17 5 8 78
E.N. CENTRAL Akron, Ohio Canton, 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 Kansas City, Kans Kansas City, Mo. Lincoln, Nebr. Minneapolis, Min Omaha, Nebr. St. Louis, Mo. St. Paul, Minn.	210 27 124 43 62 42 116 0 75 745 1 72 28 . 46 U 29	1,427 53 249 88 89 90 88 80 1019 34 42 43 37 177 911 36 43 30 25 10 26 63 13 77 71 64	448 7 10 101 12 22 22 28 59 11 14 5 5 7 7 7 21 13 8 8 22 21 10 11 10 11 11 11 11 11 12 11 11 11 11 11 11 11	143 4 30 7 10 10 10 10 10 22 6 6 1 17 2 7 1 4 1 6 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	39	50 1 4 4 5 5 1 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1	155 9 4 266 12 7 7 13 11 10 3 2 · 8 17 2 15 · 5 5 2 2 4 4 2 1 1 U 2 17 6 1 3	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, Cal Los Angeles, Cal Pasadena, Calif. Portland, Oreg. Sacramento, Ca San Diego, Calif. San Francisco, C San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Total	.M. 120 470 106 79 106 195 27 187 187 111 1,740 10 195 13 ii 89 iif. 48 48 137 141 133 iii 89 iif. 48 137 145 146 147 148 146	81 447 79 1400 22 1111 31 74 U 1,214 5 139 66 300 226 134 75 145 145 244 103 193 193	21 29 15 39 40 425 17 10 63 425 425 425 425 425 425 425 425 425 425	9 1 6 7 7 13 1 17 2 8 U 127 1 15 2 8 17 11 U 10 2 4 4 3 3 3 845	55 - 6 2 2 3 - 9 9 - 1 1 U 59 9 - 6 6 7 7 1 1 3 3 12 - 12 4 4 3 3 U 4 4 - 3 3 1 1 3 3 286	4 - 1 1 3 - 1 10 - 3 U 26 - 2 2 4 4 - 2 2 4 3 3 U - 1 1 3 1 2 4 2 2 4 2 2 2 4 3 3 1 1 2 4 3 1 2 4 3 1 3 1 4 1 5 1 6 1 6 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	111 19 2 10 2 18 U 150 1 1 5 6 28 4 12 9 15 U 27 2 12 8 8 898

U: Unavailable. -: No reported cases.

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

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

Total includes unknown ages.

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