



Morbidity and Mortality Weekly Report

Weekly

November 29, 2002 / Vol. 51 / No. 47

Hepatic Toxicity Possibly Associated with Kava-Containing Products — United States, Germany, and Switzerland, 1999–2002

Since 1999, health-care professionals in Germany, Switzerland, and the United States have reported the occurrence of severe hepatic toxicity possibly associated with the consumption of products containing kava (i.e., kava kava or Piper methysticum). A total of 11 patients who used kava products had liver failure and underwent subsequent liver transplantation (1–7). On March 25, 2002, in response to five such case reports (four in Europe and one in the United States), the Food and Drug Administration (FDA) issued a consumer advisory (8) and subsequently completed an investigation already underway of a similar U.S. case. This report presents the investigation of the two U.S. cases of liver failure associated with kava-containing dietary supplement products and summarizes the European cases. FDA continues to advise consumers and health-care providers about the potential risk associated with the use of kava-containing products.

Case Reports

Case 1. In May 2001, a previously healthy woman aged 45 years reported the onset of nausea and weakness approximately 8 weeks after beginning use of a kava-containing dietary supplement that listed on the package label, "Kava kava extract (root), standardized to 30% kavalactones (75 mg), hops (strobiles), German chamomile (flower head), passion flower (flower and fruit), gelatin, and natural vegetable fiber." The patient reported taking one tablet twice daily, which was less than the package label recommendation of one tablet three times daily. The patient reported no concomitant medication or dietary supplement use and rare alcohol ingestion (one to two drinks a year). The patient was initially prescribed rabeprazole for acid reflux symptoms, and this drug was taken for 4 days. In addition, the patient discontinued use of the kava-containing supplement. Several days later, the patient was hospitalized with jaundice and hepatitis. Liver biopsy demonstrated subfulminant hepatic necrosis. Autoimmune and infectious hepatitis tests were negative. Liver transplantation was performed in July 2001, and the patient resumed daily activities following recovery from the procedure.

Case 2. In December 2000, a previously healthy girl aged 14 years reported the onset of nausea, vomiting, decreased appetite, weight loss, and fatigue. One week later, the patient had scleral icterus and was hospitalized with acute hepatitis. During late August to mid-December 2000, the patient reportedly used two kava-containing products. One product was taken intermittently in accordance with package directions (two capsules once daily). The patient estimated that she used the product on approximately 44 days during this period. The patient reported taking the second product in accordance with package directions (two capsules once daily) for 7 consecutive days at the beginning of the 4-month period. Because the product labels were unavailable, other product ingredients were unknown. The patient reported no use of alcohol or medications other than occasional ibuprofen. At the time of hospitalization, the patient's liver-function tests were markedly abnormal (alanine aminotransferase: 4,076 U/L, aspartate aminotransfease: 3,355 U/L, gammaglutamyltransferase: 148 U/L, total bilirubin: 16.2 mg/dL, ammonia: 17 mg/dL, and prothrombin time: 29.4 seconds) (5). Tests for human immunodeficiency virus (HIV),

INSIDE

- 1067 Invasive Cervical Cancer Among Hispanic and Non-Hispanic Women — United States, 1992–1999
- 1070 Progress Toward Poliomyelitis Eradication Ethiopia, Somalia, and Sudan, January 2001–October 2002
- 1072 West Nile Virus Activity United States, November 21–26, 2002
- 1073 Notices to Readers

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

SUGGESTED CITATION

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

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Notifiable Disease Morbidity and 122 Cities Mortality Data

Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Patsy A. Hall Pearl C. Sharp cytomegalovirus, Epstein-Barr virus, Wilson's disease, a-antitrypsin deficiency, antinuclear antibodies, and hepatitis A, B, C, and E were negative. Initial liver biopsy revealed active fulminant hepatitis with extensive centrilobular necrosis, approximately 25% hepatocellular viability, and mixed inflammatory infiltrates consisting of lymphocytes, histiocytes, scattered eosinophils, and occasional neutrophils. No viral cytopathic changes were identified, and immunohistochemical stains for hepatitis B surface and core antigens were negative. The patient underwent successful orthotopic liver transplantation. Pathological examination of the native liver revealed active fulminant hepatitis with total hepatocyte necrosis and extensive parenchymal infiltration by lymphocytes, histocytes, and occasional eosinophils (5). The patient resumed daily activities following recovery from the procedure.

Summary of European Case Reports

Eight hepatic transplant cases following hepatic failure associated with the use of kava-containing products have been reported in Europe (six in Germany and two in Switzerland). Two male patients aged 32 and 50 years and six females aged 22-61 years required liver transplants after using kavacontaining products. The duration of kava use ranged from 8 weeks to 12 months. The products were used at doses ranging from 60 mg to 240 mg per day. Seven patients used kava prepared either by ethanol or acetone extraction methods; one patient used an unspecified type of kava-containing product. The patients had varying symptoms, including influenza-like symptoms and jaundice. Each patient's condition worsened and progressed to fulminant hepatic failure. Four of these cases have been reported in medical literature (1-4). Additional information about these cases is available from the German regulatory authority, the Federal Institute for Drugs and Medical Devices, Bonn, Germany, at http://www.bfarm.de. A ninth European transplant case was reported directly to FDA's MedWatch System by a U.S. pharmaceutical manufacturer.

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Editorial Note: Kava is a botanical product derived from the rhizome and roots of *Piper methysticum*, a shrub indigenous to the South Pacific. In the United States, kava-containing products are sold as dietary supplements and marketed for the treatment of anxiety, occasional insomnia, premenstrual syndrome, and stress. These supplements often are in the form of raw plant material or concentrated extracts, which are

obtained by using either acetone or ethanol extraction or cryoprecipitation. Preparations marketed for human consumption contain a mixture of components collectively known as kava pyrones (i.e., kavalactones). Kava-containing products might differ based on the absolute amount of kava pyrones present and on the relative distribution of kava pyrones. Several countries, including Germany, Switzerland, Canada, Australia, and France, have restricted the sale of kava-containing products based on the occurrence of hepatic adverse events and the documented hepatic toxicity following rechallenge with a kava-containing product (9). FDA research suggests that <1% of the severe adverse events that occur with the use of dietary supplements are reported to FDA (10).

FDA has advised consumers and health-care providers about the potential risk for hepatic toxicity associated with the use of kava-containing products (7). Additional caution by persons who have pre-existing liver disease or are at risk for liver disease might be warranted. Health-care providers should consider questioning patients with evidence of hepatic injury about the use of dietary supplements and herbal products. Adverse events associated with the use of any dietary supplement should be reported to FDA's MedWatch Program, telephone 800-332-1088, or http://www.fda.gov/medwatch.

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Invasive Cervical Cancer Among Hispanic and Non-Hispanic Women — United States, 1992–1999

During 1973–1999, both the incidence of and death rates for cervical cancer decreased approximately 50% in the United States (1). For 2002, approximately 13,000 new cases of invasive cervical cancer are expected, and approximately 4,100 women will die of the disease (2). Although invasive cervical cancer can be prevented by regular screening (3), the prevalence of Papanicolaou (Pap) testing remains relatively low among minority populations such as Hispanic women (4). To characterize the incidence of invasive cervical cancer, CDC analyzed incidence data for Hispanic and non-Hispanic women during 1992-1999 in 11 geographic areas with population-based registries (5). This report summarizes the results of this analysis, which indicate that the incidence of invasive cervical cancer decreased for Hispanic and non-Hispanic women. However, among women aged ≥30 years, cervical cancer incidence for Hispanic women was approximately twice that for non-Hispanic women. To lower the incidence of invasive cervical cancer, local health organizations should provide culturally appropriate public health interventions that encourage participation in readily accessible cervical cancer- screening programs.

Data were obtained from the Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute (5). Microscopically confirmed invasive cervical cancer cases (*International Classification of Diseases for Oncology, Second Edition*, codes C532–C539) were selected. SEER*Stat version 4.2 (5) was used to compute incidences per 100,000 women and age-adjusted to the 2000 U.S. standard population by 5-year age groups. To test for significant trends, linear regression was used to determine the estimated annual percent change (EAPC) and the 95% confidence interval (CI). The chi-square test was used to determine whether differences in incidences were significant. Invasive disease confined to the cervix was categorized as localized; cancers that had spread beyond the cervix to regional nodes or metastasized to other sites were categorized as advanced.

During 1992–1999, a total of 14,759 invasive cervical cancer cases were diagnosed (53% localized, 40% advanced, and 7% unstaged). After excluding 235 cases of persons with unknown ethnicity, the analysis included data from 14,524 invasive cervical cancer cases; 3,166 (22%) were among Hispanic women, and 11,358 (78%) were among non-Hispanic women.

The incidence for invasive cervical cancer was 16.9 per 100,000 women (95% CI=16.2–17.5) for Hispanic women and 8.9 (95% CI=8.8–9.1) for non-Hispanic women (Table).

TABLE. Incidence* of invasive cervical cancer among Hispanic and non-Hispanic women, by stage at diagnosis† — Surveillance, Epidemiology, and End Results Program, United States, 1992–1999

	Localized						Ad	vanced			AII				
	_	Hispanic Non-Hispanic rate		Hispanic Non-Hispanic In			ncidence		Hispanic	Noi	n-Hispanic	Incidence rate			
Year	Rate	(95% CI§)	Rate	(95% CI)	ratio ¹	Rate	(95% CI)	Rate	(95% CI)	ratio	Rate	(95% CI)	Rate	(95% CI)	ratio
1992	9.1	(7.8–10.6)	4.7	(4.4-5.1)	1.9	9.2	(7.8-10.9)	4.0	(3.7-4.3)	2.3	20.0	(18.0-22.2)	9.5	(9.0-10.0)	2.1
1993	8.9	(7.6-10.4)	5.1	(4.7-5.5)	1.7	8.6	(7.3-10.2)	3.6	(3.3 - 3.9)	2.4	18.9	(17.0-21.0)	9.3	(8.9- 9.8)	2.0
1994	9.5	(8.2-10.9)	4.7	(4.4-5.1)	2.0	7.8	(6.6 - 9.3)	3.9	(3.6-4.2)	2.0	18.9	(17.1-21.0)	9.2	(8.7 - 9.7)	2.1
1995	9.2	(7.9-10.6)	4.7	(4.4-5.0)	2.0	6.8	(5.7-8.1)	3.4	(3.1 - 3.7)	2.0	16.8	(15.0-18.7)	8.7	(8.2 - 9.2)	1.9
1996	8.3	(7.2 - 9.6)	4.9	(4.6-5.3)	1.7	7.8	(6.6 - 9.2)	3.9	(3.6-4.2)	2.0	17.0	(15.3-18.9)	9.4	(8.9 - 9.9)	1.8
1997	7.1	(6.1 - 8.3)	4.8	(4.4-5.1)	1.5	6.6	(5.6-7.8)	3.4	(3.2 - 3.7)	1.9	14.6	(13.0-16.2)	8.7	(8.3- 9.2)	1.7
1998	7.3	(6.3 - 8.5)	4.7	(4.3-5.0)	1.6	6.6	(5.6-7.8)	3.6	(3.3 - 3.9)	1.8	14.6	(13.1-16.3)	8.7	(8.3 - 9.2)	1.7
1999	7.9	(6.9- 9.1)	4.3	(4.0-4.6)	1.8	6.8	(5.8- 8.0)	3.2	(2.9-3.5)	2.1	15.5	(14.0-17.1)	7.9	(7.5- 8.3)	2.0
Total	8.4	(7.9- 8.8)	4.7	(4.6-4.8)	1.8	7.4	(7.0-7.9)	3.6	(3.5-3.7)	2.0	16.9	(16.2–17.5)	8.9	(8.8- 9.1)	1.9
Estimated annual percentage change	-3.3	(-6.00.6)	-1.3	(-2.9–0.4)		-4.5	(-6.9– -2.0)	-2.1	(-4.4-0.2)		-4.4	(-6.3– -2.5)	-2.0	(-3.50.6)	

^{*} Per 100,000 women age-adjusted to 2000 U.S. standard population.

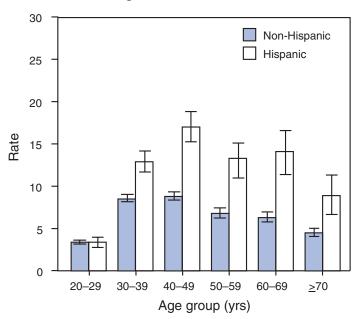
Regardless of the stage of disease at diagnosis, incidences for Hispanic women were approximately twice those for non-Hispanic women in each year during 1992–1999 (Table). Overall incidences significantly decreased an average of 4.4% per year for Hispanic women and 2.0% per year for non-Hispanic women (Table). Incidences of localized-stage cancer declined 3.3% per year for Hispanic women (EAPC=-3.3; 95% CI=-6.0– -0.6); the decline for non-Hispanic women was not significant (EAPC=-1.3; 95% CI=-2.9–0.4). Incidences of advanced-stage cancer declined 4.5% per year for Hispanic women (EAPC=-4.5; 95% CI=-6.9– -2.0); the decline for non-Hispanic women was not significant (EAPC=-2.1; 95% CI=-4.4–0.2).

Analyses of invasive cervical cancer incidences by age and stage at diagnosis indicated that, except for women aged 20–29 years, incidences for Hispanic women were significantly higher than those for non-Hispanic women, regardless of stage at diagnosis (Figures 1 and 2). For both Hispanic and non-Hispanic women, approximately 30% of all new invasive cervical cancers diagnosed among women aged <50 years were at an advanced stage; among women who were aged ≥50 years, advanced-stage cervical cancer represented 52% of new diagnoses.

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Editorial Note: The findings in this report indicate that in a population defined by 11 SEER registry areas, overall incidences of invasive cervical cancer are decreasing but that incidences remain relatively high for Hispanic women aged ≥30 years and for non-Hispanic women aged ≥50 years. The

FIGURE 1. Incidence* and 95% confidence intervals of localized† invasive cervical cancer among Hispanic and non-Hispanic women, by age group — Surveillance, Epidemiology, and End Results Program, United States, 1992–1999



^{*} Per 100,000 women.
† Localized-stage cancer is confined to the cervix.

findings also indicate that women who have cervical cancer diagnosed at age ≥50 years are more likely to have advanced-stage cervical cancer.

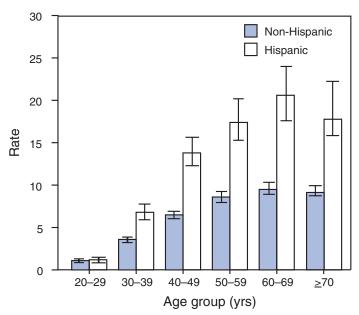
Analyses of cervical cancer incidence by stage at diagnosis contribute to the assessment of the impact of screening programs. Cervical cancer screening identifies precancerous lesions and prompts early treatment to prevent advanced-stage

Localized-stage cancer is confined to the cervix; advanced-stage cancer (includes regional and distant) requires direct extension to corpus uteri or any site beyond the cervix, lymph node involvement, or metastasis. All stages include localized, advanced, and unstaged cancer.

Confidence interval.

Incidence of Hispanic women divided by incidence of non-Hispanic women.

FIGURE 2. Incidence* and 95% confidence intervals of advanced† invasive cervical cancer among Hispanic and non-Hispanic women, by age group — Surveillance, Epidemiology, and End Results Program, United States, 1992–1999



* Per 100,000 women.

cancer and death (6). Risk factors for cervical cancer include early onset of sexual activity, having multiple sex partners, human papillomavirus infection, and smoking. However, the most important determinant of invasive cervical cancer occurrence is infrequent or no cervical cancer screening (6).

The decrease in incidence of localized and advanced-stage cervical cancer for both Hispanic and non-Hispanic women in the United States reflects the widespread use of cervical cancer–screening services (6). Recent data indicate that increases in cervical cancer screening are greater for Hispanics than for non-Hispanics (National Cancer Institute, Division of Cancer Control and Population Science, unpublished data, 2002). To increase access to screening services for women who lack health insurance or who are underinsured, the Breast and Cervical Cancer Mortality Prevention Act was enacted in 1990 (7). During the 1990s, all states, territories, and Indian tribes, in collaboration with CDC, established cervical cancer–screening programs (7).

Hispanics constitute the largest ethnic minority group in the United States, representing 12.5% of the general population (2000 U.S. Census Bureau, http://factfinder.census.gov). Overall, the incidence of cancer among Hispanics differs from those of other U.S. population groups (8). For invasive

cervical cancer, analyses of the SEER data for 1988–1992 indicated that the incidence for Hispanic women was second only to that of Vietnamese women, which was more than twice the incidence for Hispanics (9). Analysis of the 1998 National Health Interview Survey indicated that the prevalence of Pap testing within the preceding 3 years was 80% for non-Hispanic white women, 83% for non-Hispanic black women, and 74% for Hispanic women (4). Barriers to using screening services among Hispanic women include older age, low education, low household income, and lack of health insurance (10). Nonuse of other screening tests (10) and unrecognized social-cultural factors also might play a role. Research is needed to better understand barriers to screening practices.

The higher incidence of invasive cervical cancer among both Hispanic and non-Hispanic women aged ≥50 years and the greater likelihood that they have advanced disease might be a result of the low use of screening services among this population. Across all states, the use of Pap tests ranged from 84% to 93% among women of reproductive age (aged 18–44 years) and from 75% to 91% among older women (4).

The findings in this report are subject to at least three limitations. First, SEER registries cover approximately 14% of the U.S. population and might not be representative of the general U.S. population (5). Second, although the U.S. Hispanic population comprises diverse communities, Hispanics identified by SEER registries represent 25% of the U.S. Hispanic population and are largely of Mexican origin (9). Third, the classification "non-Hispanic women" includes other minority groups (e.g., Asians/Pacific Islanders and blacks) who also have high incidences of cervical cancer.

In the United States, the use of Pap tests has had an important impact on cervical cancer morbidity and mortality. The findings in this report suggest that Hispanic women aged ≥30 years and non-Hispanic women aged ≥50 years need improved access to screening services. To decrease incidence of advanced-stage cervical cancer, public health programs should target women with culturally appropriate interventions that encourage screening. For women with abnormal Pap test results, appropriate diagnostic and treatment services also should be accessible.

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Advanced-stage cancer (includes regional and distant) requires direct extension to corpus uteri or any site beyond the cervix, lymph node involvement, or metastasis.

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Progress Toward Poliomyelitis Eradication — Ethiopia, Somalia, and Sudan, January 2001– October 2002

Since the World Health Assembly resolved in May 1988 to eradicate poliomyelitis, the estimated number of polio cases globally has declined >99%. The number of countries in which polio was estimated to be endemic decreased from 125 in 1988 to 10 in 2001, and three World Health Organization (WHO) regions (American, European, and Western Pacific) comprising approximately 55% of the world's population have been certified polio-free (1). Ethiopia, Somalia, and Sudan have achieved the lowest levels of poliovirus circulation since the polio eradication initiative began and are approaching interruption of transmission. This report describes intensified polio eradication activities in these countries during January 2001-October 2002, summarizes progress made, and highlights remaining challenges. Continued political commitment and financial support will be required to eradicate polio in these countries.

Routine Immunization

According to national estimates, 50% of children in Ethiopia aged <1 year received 3 doses of oral poliovirus vaccine (OPV3) in 2001. In Somalia, where vaccination services are delivered through national and international nongovernment organizations supported by WHO, the United Nations Children's Fund (UNICEF), and other United Nations agen-

cies, OPV3 coverage was an estimated 33% in 2001. In Sudan, officially reported OPV3 coverage increased from 65% in 2000 to 71% in 2001. However, because of the lack of a routine vaccination program in the conflict-affected areas of the southern part of the country, WHO and UNICEF estimate actual total national coverage at 47%.

Supplementary Immunization Activities

Supplementary immunization activities (SIAs) began in 1994 in Sudan, in 1996 in Ethiopia, and in 1997 in Somalia (2-4). SIAs were intensified through house-to-house vaccination beginning in 1999 in Somalia and Sudan and in 2000 in Ethiopia. During 2001-2002, at least two rounds of National Immunization Days (NIDs)* were conducted in Ethiopia, Somalia, and Sudan among children aged <5 years (total estimated target populations: 13.7 million, 1.3 million, and 7.0 million, respectively). In addition to NIDs, countries conducted additional rounds of subnational immunization days[†] (SNIDs) targeting high-risk areas and populations. In Ethiopia, SNIDs were conducted in 21 zones and three subzonal areas in five regions of the country. The criteria used to select these areas included previous isolation of wild poliovirus, poor surveillance indicators, poor routine vaccination coverage, below-optimal performance in previous campaigns, difficulty in obtaining access, and shared borders with countries in which polio is endemic. Approximately 3.5 million children were vaccinated in these campaigns.

High-quality implementation of SIAs has occurred in Somalia and Sudan despite continuing armed conflict in those countries. In Somalia, during lulls in fighting, a "rapid access" SIA strategy has been implemented in which vaccinators have worked independently to target small populations in a short time. In Sudan, which has experienced civil war for 34 years, SIAs in areas controlled by the government have been coordinated successfully with SIAs in areas in the south not controlled by the central government. During 2000–2001, lulls in fighting allowed implementation of SIAs for the first time in the Nuba Mountains and southern Blue Nile areas of Sudan.

Acute Flaccid Paralysis Surveillance

Since 2001, Ethiopia, Somalia, and Sudan have exceeded the WHO-established target for a nonpolio acute flaccid paralysis (AFP) rate indicative of sensitive surveillance (i.e., ≥1 per 100,000 population aged <15 years) (Table). These

^{*}Nationwide mass campaigns during a short period (days to weeks) in which 2 doses of OPV are administered to all children (usually aged <5 years), regardless of previous vaccination history, with an interval of 4–6 weeks between doses. †Mass campaigns similar to NIDs but in a smaller area.

TABLE. Number of reported cases of acute flaccid paralysis (AFP) and number of confirmed poliomyelitis cases, by key surveillance indicators, country, and year — Ethiopia, Somalia, and Sudan, January 2001-October 2002*

			No. o	onfirmed wild p	oliovirus cases†			% of persons	with AFP with
	No. AF	P cases_		January-	January-	Nonpolio	AFP rate§	adequate sto	ol specimen [¶]
	2001	2002	2001	October 2001	October 2002	2001	2002	2001	2002
Ethiopia	553	376	1	1	0	1.74	1.31	47%	71%
Somalia	129	98	7	6	3	4.09	3.91	59%	63%
Sudan	303	306	1	1	0	2.15	2.65	74%	89%

*As of November 4, 2002. The three confirmed wild poliovirus cases in Somalia during January-October 2002 include one case reported by personal communication on November 20, 2002.

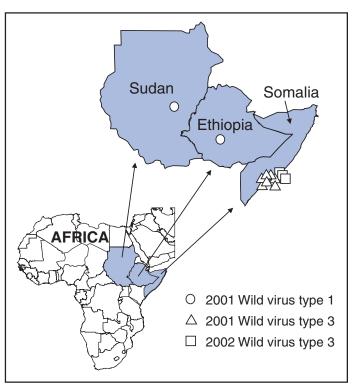
countries did not meet the WHO target measure of adequacy of collected stool specimens (i.e., $\geq 80\%$) in 2001, although Sudan has met this target in 2002. In 2001, the nonpolio enterovirus isolation rate (target: ≥10%), a marker of laboratory performance and the integrity of the reverse cold chain for specimens, was 25% for Ethiopia, 17% for Sudan, and 16% for Somalia.

AFP surveillance in Ethiopia, Somalia, and Sudan is facilitated by staffs comprising trained polio eradication officers. In Ethiopia, 19 staff members are posted throughout the country. In Somalia, which has not had a functioning central government since 1991, UNICEF and WHO have deployed 164 full-time national and international staff in all districts to assist with surveillance and SIAs. In Sudan, 44 persons have been deployed in the north and 230 in the south, a large area lacking infrastructure and experiencing conflict. In addition to polio eradication duties, staff conduct limited activities in the surveillance of other vaccine-preventable diseases (e.g., measles) and participate in the early-warning network for other major infectious diseases.

Wild Poliovirus Incidence

The last reported wild poliovirus—positive cases in Ethiopia and Sudan occurred in January and April of 2001, respectively (Figure). Both polioviruses were type 1. In 2000, Ethiopia reported 155 confirmed polio cases, three of which were confirmed virologically, and Sudan reported 79 cases, four of which were confirmed virologically. In Somalia, 96 cases were reported in 2000; 46 were confirmed virologically, 42 (92%) of which occurred in the capital city, Mogadishu. In 2001, seven virologically confirmed cases were identified in the heavily populated Mogadishu area (Lower Shabelle and Banadir). During 2002, three virologically confirmed cases have been identified in Somalia (most recently in October); all of these cases occurred in the Mogadishu area (Lower Shabelle, Middle Shabelle, and Banadir).

FIGURE. Confirmed cases of poliomyelitis*, by type of wild poliovirus isolate — Ethiopia, Somalia, and Sudan, January 2001-October 2002



*As of November 4, 2002. The 2002 wild virus type 3 includes one case in Somalia reported by personal communication on November 20, 2002.

Reported by: Country Offices for Ethiopia, Somalia, and Sudan, World Health Organization. Polio Eradication Programme, Regional Office for the Eastern Mediterranean, World Health Organization, Cairo, Egypt. Vaccines and Biologicals Dept, World Health Organization, Geneva, Switzerland. Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Global Immunization Div, National Immunization Program, CDC.

As of January 2001, Somalia and Sudan used the virologic classification scheme, which Ethiopia adopted during 2001. Cases with wild poliovirus isolated are classified as "confirmed," and those without adequate specimens but with signs and symptoms consistent with polio are classified as "compatible." Cases among persons with inadequate specimens are reviewed by a committee of experts and either discarded or classified as "polio compatible." Per 100,000 population aged <15 years; rates for 2002 are annualized.

Percentage with two adequate stool specimens, collected ≥24 hours apart, within 14 days of onset of paralysis.

Editorial Note: Since January 2001, substantial progress has been made toward polio eradication in Ethiopia, Somalia, and Sudan. Ethiopia and Sudan have not reported a polio case in >1 year, and transmission in Somalia appears limited to the Mogadishu area. These achievements have been the result of substantial efforts by the countries with the support of the international public- and private-sector partnership for polio eradication.

Progress toward polio eradication in Somalia and Sudan demonstrates that eradication strategies can be implemented successfully even in areas with poor access and ongoing conflict. Cease-fire agreements have allowed access to children previously unreached by health services. National capacity has been strengthened to address other diseases by building disease reporting and surveillance systems and by developing national human resources through training. The program has developed a platform to provide countrywide health services by establishing an extensive system to access children.

Key challenges to the eradication programs include improving the quality of SIAs and surveillance. Countries classified as polio-free should maintain high levels of polio vaccination coverage and surveillance to ensure interruption of virus transmission and provide a barrier against virus importation. Program activities should be strengthened in the Somali and Afar regions of Ethiopia bordering Somalia; weak or absent health infrastructures in these regions have resulted in low vaccination coverage and inadequate AFP surveillance. Although reaching children in conflict-affected areas (including the Mogadishu area) is difficult, access must be secured to interrupt wild poliovirus transmission. The close collaboration between WHO and UNICEF, which has been of critical importance in Somalia, should continue.

To enhance eradication activities, countries must provide the necessary technical support and maintain political commitment as polio incidence declines and attention turns to other pressing health needs. In April 2002, the Global Technical Consultative Group for Poliomyelitis Eradication identified the greatest challenge to polio eradication as securing the necessary financial resources (5). To support continuing high-quality polio eradication activities in Ethiopia, Somalia, and Sudan, WHO and UNICEF will require an estimated \$50 million in 2003.

Efforts to support polio eradication programs will continue. Independent technical advisory groups will meet, and managerial reviews will be conducted in each country to monitor progress and provide guidance. Before regional certification of polio eradication, laboratory containment of wild polioviruses must be achieved. WHO is assisting countries in developing and implementing national plans for laboratory

containment of poliovirus (6), and the polio-free countries of Ethiopia and Sudan have begun the containment process. Substantial trained personnel and infrastructure have been established in Ethiopia, Somalia, and Sudan through polio eradication programs, particularly in Somalia and Sudan; this infrastructure will be available after polio eradication to address other important health issues, and planning will be needed to ensure optimal use.

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 –August 2002. MMWR 2002;51:993

 –6.

West Nile Virus Activity — United States, November 21–26, 2002

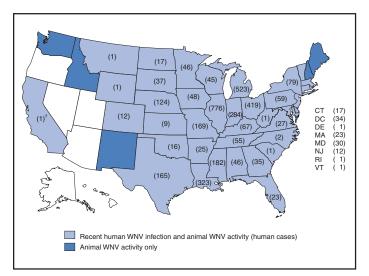
This report summarizes West Nile virus (WNV) surveillance data reported to CDC through ArboNET and by states and other jurisdictions as of 9:30 a.m. Mountain Standard Time, November 26, 2002.

During November 21–26, a total of 39 laboratory-positive human cases of WNV-associated illness were reported from Michigan (n=19), Illinois (n=15), Wisconsin (n=three), Florida (n=one), Maryland (n=one), Minnesota (n=one), and New York (n=one). During the same period, WNV infections were reported in 103 dead crows and 215 other dead birds. A total of 328 veterinary cases and 12 WNV-positive mosquito pools were reported.

During 2002, a total of 3,737 human cases with laboratory evidence of recent WNV infection have been reported from Illinois (n=776), Michigan (n=523), Ohio (n=419), Louisiana (n=323), Indiana (n=284), Mississippi (n=182), Missouri (n=169), Texas (n=165), Nebraska (n=124), New York (n=79), Kentucky (n=67), Pennsylvania (n=59), Tennessee (n=55), Iowa (n=48), Alabama (n=46), Minnesota (n=46), Wisconsin (n=45), South Dakota (n=37), Georgia (n=35), the District of Columbia (n=34), Maryland (n=30), Virginia (n=27), Arkansas (n=25), Florida (n=23), Massachusetts (n=23), Connecticut (n=17), North Dakota (n=17), Oklahoma (n=16),

Colorado (n=12), New Jersey (n=12), Kansas (n=nine), North Carolina (n=two), California (n=one), Delaware (n=one), Montana (n=one), Rhode Island (n=one), South Carolina (n=one), Vermont (n=one), West Virginia (n=one), and Wyoming (n=one) (Figure). Among the 3,378 patients for whom data were available, the median age was 55 years (range: 1.5 months-99 years); 1,802 (54%) were male, and the dates of illness onset ranged from June 10 to November 4. A total of 201 human deaths have been reported. The median age of decedents was 78 years (range: 24-99 years); 121 (60%) deaths were among men. In addition, 7,715 dead crows and 6,275 other dead birds with WNV infection were reported from 42 states and the District of Columbia; 9,051 WNV infections in mammals (9,038 equines, three canines, and 10 other species) have been reported from 38 states (Alabama, Arkansas, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, Washington, Wisconsin, and Wyoming). During 2002, WNV seroconversions have been reported in 366 sentinel chicken flocks from Florida, Iowa, Nebraska, North Carolina, Pennsylvania, Texas, and New York City; 4,943 WNV-positive mosquito pools have been reported from 28 states (Alabama, Arkansas, Connecticut, Delaware, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Massachusetts, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oklahoma,

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



^{*} As of 9:30 a.m. Mountain Standard Time, November 26, 2002.
† California has reported human WNV activity only.

Pennsylvania, Rhode Island, South Carolina, South Dakota, Texas, Vermont, and Virginia), New York City, and the District of Columbia.

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

Notice to Readers

Occupational Health Indicators for Tracking Work-Related Health Effects and Their Determinants

Experts in various fields of public health have developed proposed indicators to enhance public health surveillance. These indicators have been published in *Indicators for Chronic Disease Surveillance, June 2000*; State Injury Indicator Report January 2002; and Draft Environmental Public Health Indicators, August 2002. The indicators are measures of health or factors associated with health in specified populations.

The Council of State and Territorial Epidemiologists (CSTE) Occupational Health Surveillance Work Group, a subcommittee of the Environmental/Occupational/Injury Committee, completed a set of proposed occupational health indicators that can be used by states to track work-related adverse health effects and their determinants. Occupational health indicators provide information about a population's health status with respect to workplace factors that can influence health. These proposed indicators include measures of health endpoints (e.g., work-related disease or injury) and measures of workplace factors associated with health (e.g., workplace exposures, hazards, and interventions). These indicators serve as a guide for states about the minimal level of occupational health surveillance activity. The indicators are intended to bring consistency to time-trend analyses and comparisons of occupational health status among states and to inform program and policy development at the national, state, and local levels to protect worker safety and health.

The occupational health indicators were developed, with support from the National Institute for Occupational Safety and Health (NIOSH), by the workgroup, which included representatives of state labor and health agencies, CSTE, and NIOSH. These indicators represent the consensus view of state and NIOSH representatives and are intended as an advisory to the states. The implementation of these indicators will depend on the availability of fiscal resources and epidemiologic capacity. During the next year, California, Maine, Massachusetts, Michigan, New York, and Washington will pilot the occupational health indicators to assess the data

availability and the resources involved in implementing the indicators and to refine recommendations for standard data collection and presentation.

Additional information about the proposed occupational health indicators and publications from the CSTE Occupational Health Surveillance Workgroup are available at http://www.cste.org/occupationalhealth.htm.

Notice to Readers

2003 CDC and ATSDR Symposium on Statistical Methods

The Ninth Biennial Symposium on Statistical Methods sponsored by CDC and the Agency for Toxic Substances and Disease Registry will be held January 28–29, 2003, in Atlanta, Georgia, at the Crown Plaza Ravinia. A short course, "Modeling and Analysis Using Monte Carlo Methods," will be offered January 27, along with the symposium. Presentations will include applications of study designs that have improved public health decision-making, alternate study designs and implications for public health decision-making processes, decision-making algorithms and related software applications and development, and statistics and policymaking in the face of uncertainty. The symposium and course are open to the public, and there is no charge to attend. Registration and additional information about the symposium are available from CDC at http://www.cdc.gov/od/ads/sag.

Notice to Readers

Publication of "Health, United States, 2002 with Chartbook on Trends in the Health of Americans"

CDC has published *Health*, *United States*, 2002 with Chartbook on Trends in the Health of Americans, the 26th edition of the annual report on the nation's health. This report includes 147 trend tables organized around four broad subject areas: health status and determinants, health-care use, health-care resources, and health-care expenditures. Disparities in health by race/ethnicity and socioeconomic status are presented in several tables.

This year's report includes *Chartbook on Trends in the Health of Americans*. The chartbook assesses the nation's health by presenting trends and current information on selected determinants and measures of health status. Determinants of health include demographic factors, health insurance coverage, health behaviors, and preventive health care, and measures of health status focus on trends in mortality and limitations of activity caused by chronic health conditions. During the 20th

century, the health of persons in the United States improved substantially, reflecting the influence of healthier lifestyles, greater use of preventive care, public health efforts, and Maine, Maine, advances in medicine. Despite these health gains, disparities in health and health care among segments of the U.S. population persist.

This report is available at http://www.cdc.gov/nchs/hus.htm. Additional information is available from the National Center for Health Statistics, telephone 301-458-4636 or at nchsquery@cdc.gov. Print copies can be purchased from the Government Printing Office, telephone 202-512-1800, or at http://bookstore.gpo.gov/index.html.

Notice to Readers

World AIDS Day, December 1, 2002

"Live and Let Live" is the theme designated by the Joint United Nations Program on Human Immunodeficiency Virus (HIV)/Acquired Immunodeficiency Syndrome (AIDS) for this year's World AIDS Day, December 1, 2002. This year's theme highlights the challenges that stigma and discrimination pose to the success of prevention, treatment, and care programs for persons living with HIV/AIDS.

AIDS continues to be a stigmatizing health issue for infected persons (1). Discrimination against persons with infectious diseases is not new (2), and after 20 years of HIV and AIDS public education, 18.7% of respondents in a 2000 survey reported some level of agreement with the statement, "People who get AIDS through sex or drug use have gotten what they deserve," a proxy measure for stigma (3). One fourth of these respondents also reported misinformed opinions on modes of HIV transmission (3).

At the end of 2001, an estimated 362,827 persons in the United States (4) and 40 million persons worldwide were living with HIV/AIDS (5). Worldwide in 2001, three million persons died of AIDS and 14 million children lost one or both parents to AIDS (5). Overcoming stigma and discrimination against persons with AIDS remains a challenge to effective public health prevention and education programs.

Information about domestic HIV infection and AIDS is available from CDC's National Prevention Information Network at http://www.cdcnpin.org and from CDC's National Center for HIV, STD, and TB Prevention at http://www.cdc.gov/nchstp/od/nchstp.html. Additional information is available at 800-342-2437 or in Spanish at 800-344-7432. Information on the global pandemic is available from the Joint United Nations Program on AIDS at http://www.unaids.org.

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Erratum: Vol. 51, No. RR-18

In the MMWR Recommendations and Reports, "U.S. Public Health Service Task Force Recommendations for Use of Antiretroviral Drugs in Pregnant HIV-1—Infected Women for Maternal Health and Interventions To Reduce Perinatal HIV-1 Transmission in the United States," published on November 22, 2002, on page 16 of the printed copies, an error occurred, erasing parts of three sentences.

The first sentence in paragraph four should read, "For women with suboptimal suppression of HIV-1 RNA (i.e., ≥1,000 copies/mL) near the time of delivery despite having

received prenatal ZDV prophylaxis with or without combination antiretroviral therapy, it is not known if administration of additional antiretroviral drugs during labor and delivery provides added protection against perinatal transmission."

The third and fourth sentences in paragraph six should read, "However, the appropriate dosage and short- and long-term safety of many antiretroviral agents in the neonate has not been established. The half-lives of ZDV, 3TC, and nevirapine are prolonged during the neonatal period because of immature liver metabolism and renal function, requiring specific dosing adjustments when these agents are administered to neonates."

Erratum: Vol. 51, No. 46

In the Notice to Readers, "Approval of a New Rapid Test for HIV Antibody," an error occurred in the first paragraph on page 1051. The second sentence should read, "OraQuick is a simple, rapid test that can detect antibodies to HIV in fingerstick whole blood specimens and provide results in as little as 20 minutes." Test results are read 20–60 minutes after the test is initiated.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending November 23, 2002, with historical data

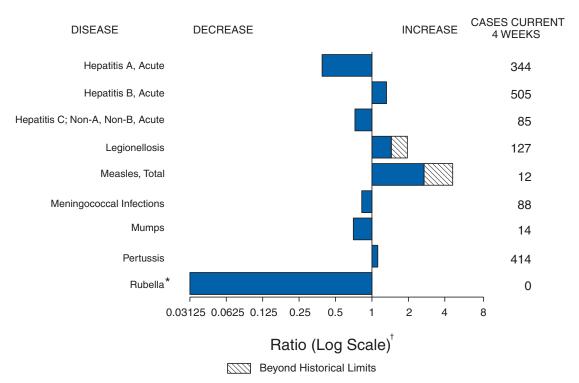


TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending November 23, 2002 (47th Week)*

		Cum. 2002	Cum. 2001		Cum. 2002	Cum. 2001
Anthrax		2	21	Encephalitis: West Nile [†]	1,404	53
Botulism:	foodborne	12	33	Hansen disease (leprosy)†	62	62
	infant	50	86	Hantavirus pulmonary syndrome†	13	7
	other (wound & unspecified)	26	16	Hemolytic uremic syndrome, postdiarrheal†	178	166
Brucellosis†		70	116	HIV infection, pediatric ^{†§}	116	172
Chancroid		64	31	Plague	-	2
Cholera		5	4	Poliomyelitis, paralytic	-	-
Cyclosporiasi	s [†]	160	141	Psittacosis†	17	20
Diphtheria		1	2	Q fever [†]	43	23
Ehrlichiosis:	human granulocytic (HGE)†	319	203	Rabies, human	2	1
	human monocytic (HME)†	158	106	Streptococcal toxic-shock syndrome†	72	68
	other and unspecified	11	5	Tetanus	20	28
Encephalitis:	California serogroup viral†	118	112	Toxic-shock syndrome	101	107
	eastern equine [†]	3	8	Trichinosis	12	21
	Powassan [†]	1	-	Tularemia [†]	56	125
	St. Louis†	11	76	Yellow fever	1	-
	western equine†	2	-			

^{-:} No reported cases.

^{*} No rubella cases were reported for the current 4-week period yielding a ratio for week 47 of zero (0).

† 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.

 $_{\scriptscriptstyle \perp}^{\scriptscriptstyle \star}$ Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

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 October 31, 2002.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending November 23, 2002, and November 24, 2001 (47th Week)*

(47th Week)*							Esch	erichia coli, E	nterohemorrhag	gic
	AID	9	Chlar	nydia†	Cryptos	poridiosis	011	57:H7		in Positive, p non-O157
Reporting Area	Cum. 2002§	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	24,713	34,080	693,729	695,659	2,590	3,515	3,234	2,946	151	143
NEW ENGLAND Maine N.H.	1,011 23 20	1,268 40 31	24,393 1,505 1,426	21,921 1,205 1,245	170 11 29	138 18 15	253 38 32	233 26 33	32 5	38 1 3
Vt. Mass. R.I. Conn.	8 519 71 370	13 654 84 446	847 9,885 2,505 8,225	562 9,264 2,668 6,977	32 61 21 16	32 52 4 17	12 113 14 44	13 112 13 36	1 9 - 17	1 10 1 22
MID. ATLANTIC Upstate N.Y. N.Y. City N.J.	5,619 404 3,210 925	8,977 1,168 4,773 1,509	77,471 15,332 24,998 10,764	76,451 13,028 26,916 12,795	320 131 123 10	326 100 116 20	224 163 13 48	219 139 16 64	., - - -	- - -
Pa. E.N. CENTRAL Ohio Ind. III. Mich.	1,080 2,494 453 347 1,170 398	1,527 2,499 476 306 1,110 457	26,377 121,040 29,298 15,552 32,653 29,083	23,712 129,004 34,211 13,901 38,886 27,025	56 824 120 52 87 115	90 1,532 168 81 478 178	N 779 144 69 165 132	N 756 205 80 165 92	19 15 1 - 3	11 9 - - 2
Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak.	126 421 90 54 189	150 718 118 80 337 2	14,454 38,184 8,408 4,909 13,859 801	14,981 35,364 7,414 4,517 12,641 908	450 386 201 42 32 20	627 506 174 80 50 13	269 485 155 117 69 17	214 470 191 77 60 19	37 32 N	38 29 - N 2
S. Dak. Nebr. Kans.	3 43 41	23 72 86	1,946 2,456 5,805	1,610 2,898 5,376	28 47 16	7 179 3	39 54 34	42 59 22	2 3	6 1
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	7,537 131 1,066 371 538 58 555 547 1,160 3,111	10,268 217 1,517 733 843 71 778 612 1,232 4,265	134,539 2,426 15,102 3,036 15,180 2,081 22,601 10,921 27,046 36,146	133,584 2,511 13,754 2,933 16,244 2,128 19,817 13,676 28,965 33,556	329 3 21 4 23 2 32 6 142 96	347 6 38 12 24 2 27 7 150 81	350 8 25 - 59 9 130 5 55 59	227 4 29 - 48 10 46 16 44 30	37 - - 9 - - 10 18	34 1 - 5 - - 9 19
E.S. CENTRAL Ky. Tenn. Ala. Miss.	1,128 173 483 197 275	1,532 299 488 378 367	43,642 7,991 14,460 11,972 9,219	44,774 8,110 12,987 12,913 10,764	109 8 52 42 7	48 5 13 16 14	99 30 44 18 7	135 64 42 17 12	- - - -	- - - -
W.S. CENTRAL Ark. La. Okla. Tex.	2,696 163 693 133 1,707	3,435 176 699 204 2,356	95,983 6,516 17,312 9,496 62,659	96,348 6,680 16,428 9,530 63,710	35 8 5 16 6	126 9 7 14 96	65 11 2 22 30	199 15 7 31 146	- - - -	- - - -
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	790 8 18 6 157 53 327 43 178	1,175 15 19 3 262 133 446 98 199	42,002 1,976 2,228 841 12,417 5,739 13,264 2,354 3,183	41,629 1,739 1,812 746 11,981 5,489 13,092 2,365 4,405	153 5 29 9 56 18 17 15	228 37 22 7 40 28 7 81 6	335 29 48 14 87 12 34 83 28	271 20 67 10 87 14 27 31	18 - 8 2 4 3 1 -	16 - 3 2 6 5 -
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	3,017 302 216 2,416 17 66	4,208 427 177 3,525 19 60	116,475 13,496 6,133 89,908 3,120 3,818	116,584 12,184 6,528 91,863 2,374 3,635	264 43 38 180 1	264 U 53 207 1 3	644 138 221 239 7 39	436 121 67 226 4 18	8 - 8 - -	6 - 6 - -
Guam P.R. V.I. Amer. Samoa C.N.M.I.	2 668 66 U 2	11 1,017 2 U U	1,997 125 U 138	360 2,479 137 U U	- - - U	- - U U	N - - U	N 2 - U U	- - - U	- - U U

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

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

† Chlamydia refers to genital infections caused by *C. trachomatis*.

§ Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update October 31, 2002.

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending November 23, 2002, and November 24, 2001 (47th Week)*

(47th Week)*	Eschei	richia coli						s influenzae, sive	
	Enterohe Shiga Tox	emorrhagic kin Positive,	Giardiasis	Gono	rrhea	All All S	Ages,	Age <5 Serot	уре
Departing Avec	Cum. 2002	Cum.	Cum. 2002	Cum. 2002	Cum. 2001	Cum. 2002	Cum.	Cum.	Cum.
Reporting Area UNITED STATES	39	2001 17	15,419	293,607	321,969	1,355	1,307	2002 22	2001 22
NEW ENGLAND	1	1	1,532	6,864	6,223	118	98	-	1
Maine	-	-	194	121	125	1	2	-	-
N.H. Vt.	1	1	41 130	117 86	164 62	9 7	3	-	-
Mass. R.I.	-	-	779 145	2,986 858	2,846 764	50 10	41 5	-	1
Conn.	-	-	243	2,696	2,262	41	41	-	-
MID. ATLANTIC	-	3	3,315	35,579	38,749	238	200	4	3
Upstate N.Y. N.Y. City	-	-	1,139 1,174	7,897 10,444	7,929 11,431	108 56	69 51	2	-
N.J.	-	-	342	6,130	7,455	49	45	-	-
Pa.	-	3	660	11,108	11,934	25	35	2	3
E.N. CENTRAL Ohio	11 10	6 6	2,948 862	58,991 16,373	67,878 19,043	191 74	250 65	3 -	2 1
Ind.	-	-	682	6,709 17,429	6,260 21,495	38 57	46 94	1	-
Mich.	1	-	857	13,186	15,592	14	13	2	-
Wis.	-	-	547	5,294	5,488	8	32	-	1
W.N. CENTRAL Minn.	2	3	1,831 714	14,963 2,564	15,104 2,369	63 42	67 37	1 1	1
Iowa	-	-	289	1,143	1,207	1	-	-	-
Mo. N. Dak.	N 2	N 3	431 27	7,873 47	7,801 42	11	18 7	-	-
S. Dak.	-	-	70	240	252	-	-	-	-
Nebr. Kans.	- -	-	133 167	713 2,383	1,060 2,373	1 8	3 2	- -	1 -
S. ATLANTIC	1	-	2,671	75,830	82,887	333	322	4	1
Del.	-	-	49	1,446	1,545	-	-	-	-
Md. D.C.	-	-	106 42	7,987 2,442	8,249 2,592	78 -	82 -	2	-
Va. W. Va.	- 1	-	283 54	8,557 812	9,609 642	31 15	27 14	-	- 1
N.C.	-	-	-	14,441	15,373	30	44	-	-
S.C. Ga.	-	-	118 846	6,587 14,992	9,724 16,031	12 84	6 86	-	-
Fla.	-	-	1,173	18,566	19,122	83	63	2	-
E.S. CENTRAL	8	3	346	25,059	28,905	62	68	1	-
Ky. Tenn.	8	3 -	165	3,402 8,533	3,237 8,704	5 32	2 38	-	-
Ala.	-	-	181	7,729	9,932	16	26	1	-
Miss.	-	-	-	5,395	7,032	9	2	-	-
W.S. CENTRAL Ark.	4	-	225 155	42,955 4,131	47,227 4,201	60 2	51 1	2	2
La.	-	-	4	10,675	11,228 4,333	9	9	-	-
Okla. Tex.	4	-	66	4,088 24,061	27,465	44 5	39 2	2	2
MOUNTAIN	12	1	1,512	9,029	9,351	172	132	4	8
Mont. Idaho	-	-	78 121	99 83	98 69	2	2	-	-
Wyo.		.	29	55	76	1	1	-	-
Colo. N. Mex.	12	1 -	516 132	3,082 1,204	2,873 910	31 25	37 22	- -	1
Ariz.	-	-	190	3,307	3,547	84	52	2	4
Utah Nev.	-	-	303 143	239 960	175 1,603	17 12	7 11	1 1	1 2
PACIFIC	-	-	1,039	24,337	25,645	118	119	3	4
Wash.	-	-	376 411	2,637 789	2,717 1,006	3 59	5 34	2	-
Oreg. Calif.	-	-	73	19,765	20,979	22	52	1	4
Alaska Hawaii	-	-	99 80	516 630	386 557	1 33	6 22	-	-
Guam	-	-	-	-	46	-	-	-	-
P.R.	-	-	38	292	540	1	1	-	-
V.I. Amer. Samoa	- U	- U	Ū	31 U	31 U	U	- U	U	- U
C.N.M.I.	-	ŭ	1	13	ŭ	-	Ŭ	-	ŭ

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 23, 2002, and November 24, 2001 (47th Week)*

(47th Week)*	. ا	omonhilus in	fluenzae, Invas	ivo						
	П		5 Years	ive	-	н	epatitis (Viral,	Acute). By Ty	ne	
	Non-Se	rotype B	Unknown S	erotype			Topatitis (viiai,	B	C; Non-A	. Non-B
D	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting Area UNITED STATES	2002 226	2001 218	2002 15	2001 26	7,550	9,280	2002 6,145	2001 6,539	2002 3,113	2001 3,550
NEW ENGLAND	13	15	-	-	272	671	224	128	23	33
Maine	-	-	-	-	8	11	13	5	-	-
N.H. Vt.	-	1 -	-	-	11 1	16 16	20 4	13 5	13	7
Mass.	8	7	-	-	135	346	123	33	9	26
R.I. Conn.	5	7	-	-	30 87	59 223	28 36	25 47	1 -	-
MID. ATLANTIC	28	34	-	3	967	1,165	1,413	1,242	1,594	1,219
Upstate N.Y.	12 8	10 11	-	1	171 479	241 406	127 737	116 581	64	26
N.Y. City N.J.	5	6	-	-	122	267	345	269	1,499	1,123
Pa.	3	7	-	2	195	251	204	276	31	70
E.N. CENTRAL Ohio	32 9	38 12	1	2	1,003 314	1,113 226	589 108	877 88	91 4	150 8
Ind.	7	6	-	1	45	94	51	48	-	1
III.	11	14	-	-	253	412	129	148	13	11
Mich. Wis.	3 2	6	-	1 -	218 173	307 74	301	552 41	74 -	130
W.N. CENTRAL	6	5	3	6	284	355	202	192	722	1,043
Minn.	5	3	1	2	39 75	40 34	28 17	21 21	1	9
Iowa Mo.	-	-	2	4	75 78	78	108	110	702	1,021
N. Dak.	-	1	-	-	3	3	5	1	-	· -
S. Dak. Nebr.	1	1	-	-	3 17	3 32	2 22	1 26	1 13	6
Kans.	-	-	-	-	69	165	20	12	5	7
S. ATLANTIC Del.	47	44	2	6	2,181 12	2,278 16	1,485 7	1,384 25	178 5	96 10
Md.	4	8	-	1	282	243	111	131	8	8
D.C.	-	-	-	-	72	51	22	11	-	-
Va. W. Va.	5 1	5 1	1	1	141 19	122 25	185 18	163 20	16 3	9
N.C.	3	2	-	4	198	206	207	199	25	19
S.C. Ga.	2 18	1 18	-	-	56 410	70 871	112 338	29 395	4 34	6
Fla.	14	9	1	-	991	674	485	411	83	44
E.S. CENTRAL	14	12	1	3	245	370	347	428	183	183
Ky. Tenn.	1 8	6	-	1 1	41 111	123 142	48 120	49 216	3 26	10 63
Ala.	3	5	1	1	36	72	99	80	10	4
Miss.	2	1	-	-	57	33	80	83	144	106
W.S. CENTRAL Ark.	14 1	9 1	-	-	562 50	775 65	614 85	772 92	160 7	652 10
La.	2	2	-	-	66	85	95	114	66	145
Okla. Tex.	9 2	6	-	-	48 398	107 518	44 390	92 474	5 82	4 493
MOUNTAIN	49	21	7	1	522	645	560	420	60	50
Mont.	- 1	-	-	-	13	11	9 7	3	1	1
ldaho Wyo.	-	-	-	-	28 3	52 7	17	11 3	5	2 7
Cólo.	3	2	-	-	72	84	73	95	18	8
N. Mex. Ariz.	6 30	9 8	1 5	1 -	28 268	40 323	140 201	120 122	1 4	11 9
Utah	5	2	-	-	63	65	58	22	4	3
Nev.	4		1	-	47	63	55 711	1 006	26	9
PACIFIC Wash.	23 1	40 3	1 -	5 2	1,514 141	1,908 140	711 64	1,096 132	102 24	124 22
Oreg.	5	7	-	-	64	96	116	157	16	14
Calif. Alaska	13 1	28 1	1 -	1 -	1,297 10	1,642 14	519 4	780 9	62	88
Hawaii	3	i	-	2	2	16	8	18	-	-
Guam	-	-	-	-	-	2	- 04	- 040	-	-
P.R. V.I.	-	1 -	-	-	96	206	84	243	-	1 -
Amer. Samoa	U	U	U	U	U	U	U	U	U	U
C.N.M.I.	- H:Hnavailable	U	- ported eaces	U	-	U	37	U	-	U

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending November 23, 2002, and November 24, 2001 (47th Week)*

	Legion	ellosis	Lister	iosis	Lyme	Disease	Mai	laria	Meas Tot	
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	1,053	990	537	552	15,663	13,913	1,172	1,334	36 [†]	114§
NEW ENGLAND	94	67	57	53	4,826	3,996	58	92	-	5
Maine	3	8	5	2	111	-	5	4	-	-
N.H. √t.	6 36	10 5	4 3	4 3	235 32	98 17	7 4	2 1	-	1
Mass.	30	20	31	28	1,186	1,119	21	50	-	3
R.I.	5	10	1	1	335	449	7	9	-	-
Conn.	14	14	13	15	2,927	2,313	14	26	-	1
MID. ATLANTIC Jpstate N.Y.	285 94	234 62	151 55	97 25	8,942 4,742	7,677 3,261	303 43	401 60	7 1	20 4
I.Y. City	52	43	32	24	161	61	192	236	6	7
l.J.	27	21	31	17	1,641	1,984	36	62	-	1
Pa.	112	108	33	31	2,398	2,371	32	43	-	8
E.N. CENTRAL Ohio	246 115	283 122	72 24	85 15	91 72	707 40	126 23	161 24	3 1	10 3
nd.	21	20	11	8	19	22	13	16	2	4
l.	-	24	11	24	-	31	30	66	-	3
∕lich. Vis.	76 34	74 43	19 7	24 14	U	17 597	46 14	36 19	-	-
V.N. CENTRAL	56	46	17	19	364	368	56	34	3	5
⁄linn.	14	9	3	2	269	296	17	6	1	3
owa 40	12 15	8 20	2 8	2	40 40	34	4	7	-	-
Ло. I. Dak.	15	20 1	8 1	10	40 1	32	15 1	13	2	2
S. Dak.	4	3	1	-	2	-	1	-	-	-
lebr. (ans.	10	4 1	1 1	1 4	6 6	4 2	5 13	2 6	-	-
S. ATLANTIC	199	170	77	73	1,211	906	346	268	2	5
Del.	9	170	-	2	1,211	152	4	200	-	-
/ld.	44	32	18	14	641	553	105	108	-	3
D.C. /a.	6 29	8 21	7	12	21 146	16 115	19 32	13 45	-	- 1
V. Va.	Ň	N	-	5	17	13	3	1	-	-
N.C.	11	11	6	5	124	38	21	17	-	-
S.C. Ga.	8 18	13 11	8 12	5 14	20 2	5	7 84	7 43	-	1
la.	74	62	26	16	76	14	71	32	2	-
S. CENTRAL	43	56	19	22	47	65	19	35	12	2
⟨y. Γenn.	19 16	12 27	4 11	7 8	22 22	23 27	7 3	14 11	-	2
Na.	8	13	4	7	3	8	4	6	12	-
/liss.	-	4	-	-	-	7	5	4	-	-
V.S. CENTRAL	16	24	18	32	17	83	16	83	2	1
Ark. .a.	4	6	- -	1 -	3 4	1 8	2 4	3 6	-	-
Okla.	3	3	9	2	-	-	9	3	-	-
ēx.	9	15	9	29	10	74	1	71	2	1
MOUNTAIN Mont.	46 3	50	28	37	21	11	45 2	56 3	2	2
daho	1	3	2	1	4	5	-	3	-	1
Vyo.	1	2	-	2	2	1	-	-	-	-
Colo. J. Mex.	7 2	15 3	6 3	10 7	3 1	-	22 3	23 3	-	-
Ariz.	12	16	13	8	3	1	10	11	.	1
Jtah lev.	15 5	7 4	3 1	2 7	7 1	1 3	5 3	4 9	1 1	-
ACIFIC	68	60	98	134	144	100	203	204	5	64
<i>l</i> ash.	7	10	8	10	10	7	22	11	-	15
reg.	N	N	9	12	15	11	9	17	-	3
alif. Jaska	60	44 1	73 -	106	116 3	80 2	163 2	164 1	3	39
lawaii	1	5	8	6	Ň	N	7	11	2	7
auam	-	-	-	-	-	-	-	1	-	-
!R. 'I.	-	2	1	-	N	N	-	5	-	1
n. mer. Samoa	U	Ū	U	Ū	U	Ū	Ū	U	Ū	U
N.M.I.	-	ŭ	-	Ü	-	Ŭ	-	Ŭ	-	Ŭ

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

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

† Of 36 cases reported, 23 were indigenous and 13 were imported from another country.

§ Of 114 cases reported, 60 were indigenous and 54 were imported from another country.

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending November 23, 2002, and November 24, 2001 (47th Week)*

(4/th Week)*	Meningo	coccal			T			
	Disea	ise	†	mps	†	tussis		, Animal
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	1,484	2,060	238	220	6,793	5,071	5,593	6,509
NEW ENGLAND Maine N.H. Vt. Mass. R.I.	82 8 12 4 39 5	98 4 12 6 54 4	8 1 4 - 2	2 - - - 2	611 17 17 132 406 13	528 22 27 38 418 5	861 58 45 88 285 71	677 63 21 59 250 65
Conn.	14	18	1	-	26	18	314	219
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	137 41 22 26 48	235 65 41 42 87	24 6 2 - 16	25 3 12 3 7	429 316 13 4 96	323 131 53 18 121	1,061 654 17 171 219	1,207 735 36 178 258
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	197 72 32 36 42 15	319 80 36 80 74 49	38 13 2 14 8 1	27 1 3 16 5 2	828 401 125 147 50 105	777 285 79 91 135 187	147 39 31 31 46	156 50 15 24 47 20
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	139 32 23 45 3 2 26	146 20 29 52 6 5 20	17 4 1 5 1 - - 6	10 3 - 2 - - 1 4	677 340 133 129 2 6 8 59	351 146 68 94 5 4 7 27	411 36 74 49 31 65 -	344 43 77 40 37 55 4 88
S. ATLANTIC Del. Md. D.C.	265 7 8	321 5 38	25 - 5 -	38 - 6	378 3 58 2	232 - 42 1	2,287 24 321	2,282 30 470
Va. W. Va. N.C. S.C. Ga. Fla.	40 4 30 28 34 114	37 13 62 32 51 83	4 - 2 3 4 7	8 5 5 9 5	133 31 40 41 21 49	40 4 69 31 22 23	468 164 663 133 347 167	449 131 533 106 375 188
E.S. CENTRAL Ky. Tenn. Ala. Miss.	86 14 36 22 14	128 24 56 31 17	13 3 2 3 5	9 3 1 - 5	242 91 110 32 9	179 80 58 36 5	164 27 102 31 4	202 29 106 63 4
W.S. CENTRAL Ark. La. Okla. Tex.	183 23 35 21 104	300 21 74 28 177	17 - 1 - 16	13 - 2 - 11	1,494 470 7 66 951	615 168 9 28 410	116 3 - 112 1	1,035 - 8 57 970
MOUNTAIN Mont. Idaho Wyo. Colo.	87 2 4 - 21	88 4 7 5 34	18 - 1 - 2	14 1 1 1 3	972 5 67 11 387	1,253 36 170 1 305	284 18 38 18 59	253 38 28 28
N. Mex. Ariz. Utah Nev.	4 30 6 20	10 13 8 7	1 1 8 5	2 1 1 4	170 187 98 47	129 507 76 29	7 120 13 11	15 128 15 1
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	308 60 45 191 4 8	425 59 56 295 2 13	78 N 64 - 14	82 2 N 39 1 40	1,162 399 175 567 4 17	813 157 52 552 12 40	262 - 13 225 24 -	353 - 4 311 38 -
Guam P.R.	- 5	- 5	-	1	3	-	49	- 87
V.I. Amer. Samoa C.N.M.I.	U -	U U	U -	U U	- U 1	U U	U -	U U

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending November 23, 2002, and November 24, 2001 (47th Week)*

(47th week)				Ru	ıbella			
		/lountain d Fever	Rul	pella	Conge Rub		Salmor	ellosis
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	944	554	13	21	2	-	37,498	36,130
NEW ENGLAND	8	3	-	-	-	-	2,028	2,178
Maine	-	-	-	-	-	-	141	161
N.H. Vt.	-	1 -	-	-	-	-	127 72	156 76
Mass.	4	2	-	-	-	-	1,117	1,255
R.I. Conn.	4	-	- -	-	-	-	163 408	120 410
MID. ATLANTIC	42	31	1	8	_	_	4,689	4,744
Upstate N.Y.	7	2	i	1	-	-	1.444	1,116
N.Y. City N.J.	9 10	2 9	-	6 1	-	-	1,329 671	1,190 1,106
Pa.	16	18	-	-	-	-	1,245	1,332
E.N. CENTRAL	19	16	1	2	-	-	4,834	4,614
Ohio	13	2	-	-	-	-	1,289	1,260
Ind. III.	3	1 12	-	2	-	-	458 1,493	485 1,288
Mich.	3	1	1	-	-	-	820	803
Wis.	-	-	-	-	-	-	774	778
W.N. CENTRAL	97	68	-	3	-	-	2,399	2,089
Minn. Iowa	3	2	-	1	-	-	523 477	565 324
Mo.	89	62	-	i	-	-	791	573
N. Dak. S. Dak.	- 1	1 2	-	-	-	-	42 102	58 144
Nebr.	4	1	-	-	-	-	150	145
Kans.	-	-	-	1	-	-	314	280
S. ATLANTIC	492	275	5	5	-	-	10,461	8,515
Del. Md.	4 58	11 38	-	- 1	-	-	87 879	91 723
D.C.	2	1	-	-	-	-	71	78
Va.	42	26	-	-	-	-	1,131	1,211
W. Va. N.C.	2 274	- 155	-	-	-	-	140 1,440	126 1,256
S.C.	68	31	-	2	-	-	720	805
Ga. Fla.	27 15	9 4	- 5	2	-	-	1,889 4,104	1,563 2,662
E.S. CENTRAL	105	107	3	2	1	_	2,996	2,502
Ky.	5	2	-	-	-	-	2,996 361	342
Tenn.	78	74	-	-	1	-	753	585
Ala. Miss.	18 4	15 16	-	-	-	-	815 1,067	707 868
W.S. CENTRAL	159	42	2	1			3,302	4,692
Ark.	97	9	-	-	-	-	1,006	4,092 854
La.	-	2	-	-	-	-	736	794
Okla. Tex.	61 1	31	2	1	-	-	466 1,094	443 2,601
MOUNTAIN	14	11	1	_	_	_	2,003	1,984
Mont.	1	1	-	-	-	-	81	72
ldaho Wyo.	- 5	1 2	-	-	-	-	136 102	127 58
Colo.	2	2	-	-	-	-	506	546
N. Mex.	1	1	-	-	-	-	281	267
Ariz. Utah	-	3	- 1	-	-	-	529 190	537 207
Nev.	5	1	-	-	-	-	178	170
PACIFIC	8	1	3	2	1	-	4,786	4,812
Wash.	-	-	-	-	-	-	471	476
Oreg. Calif.	3 5	1 -	3	1	-	-	331 3,660	256 3,710
Alaska	-	-	-	· -	-	-	72	44
Hawaii	-	-	-	1	1	-	252	326
Guam P.R.	-	-	-	- 3	-	-	201	24 843
V.I.	-	-	-	- -	- -	-	-	043
Amer. Samoa	U	U	U	U	U	U	U	U
C.N.M.I.	-	U	-	U	-	U	25	U

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending November 23, 2002, and November 24, 2001 (47th Week)*

	Shio	ellosis		cal Disease, , Group A		<i>is pneumoniae,</i> tant, Invasive	Streptococcus Invasive (
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	16,914	17,506	3,656	3,300	2,095	2,325	243	381
NEW ENGLAND Maine N.H. Vt. Mass.	298 10 11 1	283 6 6 7 198	171 20 35 10 91	209 12 N 15 63	18 - - 5 N	116 - - 7 N	3 - N 2 N	41 - N 1 N
R.I. Conn.	176 17 81	17 49	15	12 107	13	4 105	1 -	3 37
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	1,278 299 405 349 225	1,381 442 382 257 300	594 268 136 128 62	608 240 157 132 79	103 85 U N 18	151 144 U N 7	67 65 U N 2	98 98 U N
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	1,646 602 95 629 172 148	4,042 2,686 213 569 285 289	660 195 46 145 273	733 187 57 235 203 51	216 67 144 2 3 N	169 3 166 - - N	106 23 57 N 26	119 - 56 63 N
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	929 205 118 171 16 153 179 87	1,777 402 348 294 21 556 87 69	227 113 - 42 3 13 18 38	346 159 - 70 17 11 39 50	417 292 N 5 1 1 29	142 63 N 10 6 4 21 38	49 49 N - - N N	54 45 N - 9 - N N
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	6,344 316 1,101 56 905 12 405 106 1,453 1,990	2,578 16 139 54 389 8 316 238 524 894	734 2 128 7 70 19 112 34 155 207	540 4 N 21 72 19 135 12 171 106	1,103 3 N 52 N 42 N 169 270 567	1,223 6 N 7 N 37 N 256 387 530	8 N N 1 N 7 U N N N	8 N N 4 N U N N N
E.S. CENTRAL Ky. Tenn. Ala. Miss.	1,343 176 104 747 316	1,575 753 93 198 531	105 18 87	108 36 72 -	122 17 105 -	218 24 193 1	- N N N	N N N
W.S. CENTRAL Ark. La. Okla. Tex.	1,625 188 394 534 509	2,700 544 226 86 1,844	105 7 - 41 57	305 - 1 43 261	75 8 67 N N	264 16 248 N N	6 - 3 3	61 - 61 -
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	817 3 15 9 165 194 350 36 45	879 8 39 7 229 112 358 57 69	537 9 7 135 96 260 30	374 - 7 12 146 78 128 3	41 N 10 - 30 - 1	38 - N 7 - 29 - 2	4 - N - - - N 4	- N - - N
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	2,634 158 108 2,301 6 61	2,291 197 103 1,928 7 56	523 65 N 366 - 92	77 - N - - 77	- N N -	4 - N N - 4	N N N N	N N N N
Guam P.R.	- 8	48 16	N	1 N	- -	- -	N	- N
V.I. Amer. Samoa C.N.M.I.	- U 17	U U	U -	U U	- - -	- - -	Ū -	U U

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending November 23, 2002, and November 24, 2001 (47th Week)*

(47th Week)*	1	Syn	hilis		1		Typ	hoid
	Primary &		r	genital	Tubero	culosis		ver
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	5,705	5,415	313	450	10,474	12,525	243	321
NEW ENGLAND Maine	127 2	56 1	-	8 3	344 10	412 17	14	16 1
N.H.	7	1	-	-	15	16	-	2
Vt. Mass.	1 85	3 32	-	3	- 197	4 212	8	10
R.I. Conn.	6 26	9 10	-	2	35 87	58 105	6	3
MID. ATLANTIC	638	473	60	71_	1,865	2,054	58	106
Upstate N.Y. N.Y. City	30 396	18 256	10 23	5 32	267 933	333 1,013	9 30	15 44
N.J. Pa.	138 74	116 83	26 1	34	439 226	446 262	15 4	38 9
E.N. CENTRAL	976	958	55	64	1,043	1,292	18	32
Ohio Ind.	151 64	70 142	4 1	2 12	137 110	250 94	6 2	4 2
III. Mich.	295 442	348 375	30 20	40 6	531 224	609 268	1 4	17 5
Wis.	24	23	-	4	41	71	5	4
W.N. CENTRAL Minn.	95 48	91 32	-	9 2	474 203	485 207	8	15 6
Iowa	2	4	-	- 5	24	34	-	-
Mo. N. Dak.	25 -	24	-	- -	117 4	123 3	1 -	9 -
S. Dak. Nebr.	3	8	- -	-	10 23	12 32	4	-
Kans.	17	23	-	2	93	74	-	-
S. ATLANTIC Del.	1,535 11	1,816 14	69 -	106	2,126 15	2,379 15	45 -	41 1
Md. D.C.	184 58	244 35	14 1	4 2	260	207 51	8 -	10
Va. W. Va.	60 2	93 4	1	5	166 28	232 26	7	11
N.C.	264	416	18	14	311	307	2	2
S.C. Ga.	120 328	216 352	9 10	21 23	146 358	161 429	9	9
Fla.	508	442	16	37	842	951	19	8
E.S. CENTRAL Ky.	428 85	597 44	20 3	31 1	650 118	753 116	4 4	1 -
Tenn. Ala.	156 146	297 122	10 4	18 5	260 183	274 240	-	1 -
Miss.	41	134	3	7	89	123	-	-
W.S. CENTRAL Ark.	769 32	678 36	65 2	74 8	1,463 115	1,885 139	5	18
La. Okla.	138 61	162 56	- 3	- 6	- 127	114 139	2	-
Tex.	538	424	60	60	1,221	1,493	3	18
MOUNTAIN Mont.	264	201	15 -	32	323 6	502 14	10	8 1
Idaho Wyo.	5	1 1	-	-	9	7 3	-	-
Colo.	44	20	1	1	55	117	5	1
N. Mex. Ariz.	30 169	16 146	14	2 29	22 188	49 200	1 -	1
Utah Nev.	8 8	10 7	- -	- -	26 14	33 79	2 2	1 4
PACIFIC	873	545	29	55	2,186	2,763	81	84
Wash. Oreg.	57 21	43 13	1 1	-	198 101	216 101	6 2	5 7
Calif. Alaska	787	477	26	55 -	1,717 43	2,266 46	68	68 1
Hawaii	8	12	1	- -	127	134	5	3
Guam P.R.	- 227	9 248	- 15	1 13	- 75	54 95	-	3
V.I. Amer. Samoa	1 U	- U	 U	U	U	U	- U	- U
C.N.M.I.	15	Ü	-	Ü	32	Ü	-	Ü

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

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

TABLE III. Deaths in 122 U.S. cities.* week ending November 23, 2002 (47th Week)

TABLE III. Deaths	hs in 122 U.S. cities,* week ending November 23, 2 All Causes, By Age (Years)						3, 2002 (2 (47th Week) All Causes, By Age (Years)						_	
	All	All C	Jauses, E	y Age (1	ears)		P&I [†]		All	All	Tauses, r	y Age (rears)	1	- no.11
Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&I [†] Total
NEW ENGLAND	486	352	76	42	13	3	43	S. ATLANTIC	1,246	839	252	92	44	17	86
Boston, Mass.	134	90	24	16	4	-	8	Atlanta, Ga.	U	U	U	U	ñ	U	U
Bridgeport, Conn. Cambridge, Mass.	37 22	28 17	7 3	2 2	-	-	3 1	Baltimore, Md. Charlotte, N.C.	255 124	164 91	55 21	28 4	5 3	3 5	25 14
Fall River, Mass.	22	17	1	3	1	- 1	3	Jacksonville, Fla.	145	93	34	8	7	2	7
Hartford, Conn.	32	21	8	-	2	1	1	Miami, Fla.	130	80	24	12	12	2	6
Lowell, Mass.	22	18	3	-	1	-	1	Norfolk, Va.	49	35	9	3	-	2	1
Lynn, Mass.	14	11	2	1	-	-	1	Richmond, Va.	51	36	10	2	3	-	8
New Bedford, Mass.	31	25 24	4	2	-	-	6	Savannah, Ga.	90	63 52	16	9	2	-	3
New Haven, Conn. Providence, R.I.	35 U	24 U	4 U	4 U	3 U	U	6 U	St. Petersburg, Fla. Tampa, Fla.	64 167	5∠ 119	8 34	3 8	1 4	2	2 10
Somerville, Mass.	11	9	2	-	-	-	1	Washington, D.C.	150	93	36	14	5	1	6
Springfield, Mass.	41	30	5	4	1	1	3	Wilmington, Del.	21	13	5	1	2	-	4
Waterbury, Conn.	19	17	2	-	-	-	2	E.S. CENTRAL	924	607	215	56	20	25	88
Worcester, Mass.	66	45	11	8	1	1	7	Birmingham, Ala.	182	120	46	9	3	3	20
MID. ATLANTIC	2,232	1,569	425	154	42	42	96	Chattanooga, Tenn.	71	51	17	2	-	1	4
Albany, N.Y.	51	38	9	3	-	1	2	Knoxville, Tenn.	117	83	28	4	1	1	5
Allentown, Pa. Buffalo, N.Y.	23 82	20 54	2 18	1 6	2	2	3	Lexington, Ky. Memphis, Tenn.	60 206	41 125	12 48	3 18	1 7	3 8	1 27
Camden, N.J.	29	16	4	7	1	1	1	Memphis, Tenn.	200 U	123 U	U	U	Ú	Ü	U
Elizabeth, N.J.	26	20	6	-		- 1		Mobile, Ala.	80	48	20	9	-	3	3
Erie, Pa.	34	26	5	1	-	2	3	Montgomery, Ala.	50	39	6	2	3	-	13
Jersey City, N.J.	38	27	8	1	1	1	-	Nashville, Tenn.	158	100	38	9	5	6	15
New York City, N.Y.	1,200	832	237	86 4	26 1	19 1	36	W.S. CENTRAL	1,320	870	288	79	44	39	90
Newark, N.J. Paterson, N.J.	44 18	25 14	13 3	1	-	-	3 1	Austin, Tex.	99	64	22	6	5	2	10
Philadelphia, Pa.	300	195	61	25	7	12	13	Baton Rouge, La.	60	39	18	3	_	-	1
Pittsburgh, Pa.§	33	26	4	3	-	-	6	Corpus Christi, Tex. Dallas, Tex.	64 201	41 120	14 54	3 17	5 6	1 4	6 19
Reading, Pa.	21	18	3	-	-	-	-	El Paso, Tex.	75	54	14	4	-	3	3
Rochester, N.Y.	135	103	24	4	3	1	8	Ft. Worth, Tex.	Ü	Ü	U	Ü	U	Ŭ	Ü
Schenectady, N.Y. Scranton, Pa.	26 21	22 16	1 4	3 1	-	-	1 -	Houston, Tex.	309	189	74	14	14	18	25
Syracuse, N.Y.	72	55	12	4	_	1	9	Little Rock, Ark.	64	42	9	7	5	1	
Trenton, N.J.	21	15	3	1	1	1	-	New Orleans, La. San Antonio, Tex.	U 207	U 150	U 32	U 16	U 5	U 4	U 8
Utica, N.Y.	29	24	5	-	-	-	5	Shreveport, La.	207 93	150 68	32 15	4	2	4	5
Yonkers, N.Y.	29	23	3	3	-	-	5	Tulsa, Okla.	148	103	36	5	2	2	13
E.N. CENTRAL	1,777	1,237	335	125	40	40	124	MOUNTAIN	828	566	167	59	25	11	68
Akron, Ohio	64	34	17	6	4	3	7	Albuquerque, N.M.	102	71	21	8	1	1	11
Canton, Ohio Chicago, III.	31 126	24 80	3 29	3 13	3	1 1	5 6	Boise, Idaho	33	24	5	2	1	1	2
Cincinnati, Ohio	106	76	22	4	1	3	8	Colo. Springs, Colo.	68	46	10	6	5	1	4
Cleveland, Ohio	126	80	29	13	3	1	6	Denver, Colo. Las Vegas, Nev.	103 166	65 106	22 36	10 15	2 8	4 1	11 9
Columbus, Ohio	210	144	41	18	1	6	11	Ogden, Utah	29	18	9	2	-	-	2
Dayton, Ohio	126	88	22	7	4	5	7	Phoenix, Ariz.	Ü	Ü	Ŭ	Ū	U	U	Ū
Detroit, Mich. Evansville, Ind.	216 51	139 37	44 13	19 1	9	5	19 4	Pueblo, Colo.	32	23	7	-	2	-	3
Fort Wayne, Ind.	60	51	6	1	1	1	2	Salt Lake City, Utah	129	93	22	8	3	3	17
Gary, Ind.	10	3	3	2	1	1	-	Tucson, Ariz.	166	120	35	8	3	-	9
Grand Rapids, Mich.	46	34	8	2	1_	1	4	PACIFIC	1,709	1,190	357	106	32	24	142
Indianapolis, Ind.	198	123	46	14	7	8	18 4	Berkeley, Calif.	15	10	4	1	-	-	1
Lansing, Mich. Milwaukee, Wis.	38 109	29 84	5 16	3 8	1 -	1	8	Fresno, Calif. Glendale, Calif.	119 28	81 24	29 3	8	1	1	14
Peoria, III.	43	38	5	-	-		-	Honolulu, Hawaii	73	61	9	1	2	-	5
Rockford, III.	66	55	7	2	1	1	4	Long Beach, Calif.	44	25	16	3	-	-	6
South Bend, Ind.	U	U	U	U	U	U	U	Los Angeles, Calif.	448	289	90	47	11	11	21
Toledo, Ohio	86	66	11	6	2	1	9	Pasadena, Calif.	22	18	4	-			5
Youngstown, Ohio	65	52	8	3	1	1	2	Portland, Oreg. Sacramento, Calif.	U 221	U 158	U 42	U 11	U 6	U 4	U 24
W.N. CENTRAL	616	441	110	31	16	18	52	San Diego, Calif.	196	145	33	13	2	3	23
Des Moines, Iowa	41	31	8	-	1	1	4	San Francisco, Calif.	U	U	U	Ü	Ū	Ü	Ü
Duluth, Minn. Kansas City, Kans.	39 32	30 19	7 8	3	1 2	1	6 1	San Jose, Calif.	208	161	30	10	4	3	22
Kansas City, Mo.	102	62	28	10	1	1	9	Santa Cruz, Calif.	34	20	13	1	-	-	2
Lincoln, Nebr.	59	49	6	1	2	1	2	Seattle, Wash.	130 42	81 30	40	6 1	2 2	1	4 4
Minneapolis, Minn.	89	59	15	6	2	7	4	Spokane, Wash. Tacoma, Wash.	129	30 87	8 36	4	2	1 -	11
Omaha, Nebr.	91	74	11	3	1	2	16	· ·							
St. Louis, Mo. St. Paul, Minn.	U 59	U 40	U 11	U 3	U 2	U 3	U 7	TOTAL	11,138 ¹	7,671	2,225	744	276	219	789
Wichita, Kans.	104	40 77	16	5 5	4	2	3								
U. U il-lala			- 10					l .							

U: Unavailable.

U: Unavailable. -:No reported cases.

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

† Pneumonia and influenza.

§ 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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