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# World No-Tobacco Day — May 31, 2001

World No-Tobacco Day is May 31, 2001. The theme, "Second-Hand Smoke Kills-Let's Clear the Air," was designated by the World Health Organization (WHO) to raise awareness of the hazards of exposure to second-hand smoke. Tobacco use worldwide will cause an estimated 10 million deaths annually by 2030 (1).

An effective strategy to promote and encourage tobacco-free policies is to link them with sporting events. Such policies also reduce nonsmokers' exposure to second-hand smoke (2). The 1988 Olympic Winter Games in Calgary, Alberta, Canada, was the first tobacco-free Olympics. Since then, all of the Olympic Games have had tobacco-free policies (3).

For the 2002 games, the Olympic organizing committee for Salt Lake City, Utah, will implement a public information campaign using Olympic athletes to promote healthy lifestyles and sports as an alternative to tobacco use. Plans also include information to increase awareness of the tobacco-free policy among visitors, media, athletes, and officials from participating countries.

Another media campaign is "Tobacco Kills-Don't Be Duped," which aims to ban tobacco advertising and promotion at sporting events globally. Additional information about World No-Tobacco Day 2001 is available at http://tobacco.who.int\*, and http:// www.cdc.gov/tobacco; telephone (800) 232-1311. References

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<sup>\*</sup>References to sites of nonfederal organizations on the World-Wide Web are provided as a service to MMWR readers and do not constitute or imply endorsement of these organizations or their programs by CDC or the U.S. Department of Health and Human Services. CDC is not responsible for the content of pages found at these sites.

# Tobacco Use Among Adults — Arizona, 1996 and 1999

In 1994, Arizona passed the Tobacco Tax and Healthcare Act (Proposition 200) that increased the tax on cigarettes from \$0.18 to \$0.58, and allocated 23% of the resulting revenues to tobacco-control activities. Since 1995, Arizona has used the tobacco-control funds (approximately \$30 million per year) to support the Arizona Department of Health Services (ADHS) Tobacco Education and Prevention Program (TEPP), a comprehensive program to prevent and reduce tobacco use. To track changes in tobacco use, the knowledge and opinions of Arizona residents about tobacco use, and the proportion of smokers advised to quit smoking by health-care providers, ADHS conducted the Arizona Adult Tobacco Survey (ATS) in 1996 and a follow-up survey in 1999. This report compares results of these two surveys, which indicate that prevalence of tobacco use among adults decreased, and the proportion of adults who were both asked about tobacco use and advised to quit by health-care providers and dentists increased. On the basis of these findings, if all states implemented comprehensive programs similar to those in Arizona, the national health objective for 2010 of reducing the adult smoking rate by half during this decade could be achieved.

The Arizona ATS is a random-digit-dialed, computerized, telephone-interview survey of Arizona residents aged >18 years in five regions of the state. Surveys were conducted in English or Spanish. In 1996, 6000 surveys were completed, and in 1999, 4868 were completed. The response rate (1) was 83.4% for the 1996 survey and 74.6% for the 1999 survey. To ensure representativeness and comparability, the samples in 1996 and 1999 standardized 1996 age/race distribution were to the Arizona. The data were weighted by the number of adults in the household and the proportion of the adult population in the regions sampled. The surveys were analyzed by using SAS for point estimates and SUDAAN for standard errors. Hypothesis tests for changes in point estimates of current smoking were conducted for each demographic category. Resulting two-tailed p-values of <0.05 were significant. A current smoker was defined as someone who answered "yes" to the question "Have you smoked at least 100 cigarettes in your entire life?" and who answered "every day" or "some days" to the question "Do you now smoke cigarettes every day, some days, or not at all?" Current smokers also were asked whether their health-care provider asked them about smoking and, if so, whether their health-care provider advised them to guit.

Prevalence of current smoking declined among women, men, whites, and Hispanics (Table 1). The greatest decrease in smoking prevalence, by age, was among smokers aged ≥65 years. By income level, the most substantial decline in smoking prevalence was among those with a household income of <\$10,000 per year. By education level, the greatest reduction in smoking was among persons with an 8th grade education or less.

From 1996 to 1999, a significant increase was found in the percentage of smokers who were asked about smoking by health-care providers (i.e., physicians, nurse practitioners, physician assistants) and dentists (Table 2). Although no difference was found between 1996 and 1999 in the proportion of smokers advised to quit smoking (of those who were asked about smoking), the overall proportion of smokers both asked about smoking and advised to quit by a health-care provider (the product of the first two proportions) increased from 25.1% (95% confidence interval [CI]=±4.1) in 1996 to 36.7% (95% Cl=±4.5) in 1999. The proportion of smokers who were both asked about smoking and advised to quit by a dentist increased from 9.9% (95% Cl=±4.5) in 1996 to 24.9% (95% Cl=±4.7) in 1999.

TABLE 1. Percentage of smokers\*, by selected characteristics — Arizona Adult Tobacco Survey, Arizona, 1996 and 1999

	(ı	1996 n=6000)	(	1999 n=4868)
Characteristic	%	(95% CI <sup>†</sup> )	%	(95% CI)
Sex				
Men	25.3	(±1.9)	19.7	(±1.8)§
Women	21.3	$(\pm 1.6)$	16.9	(±1.6)§
Age group (yrs)				
18–24	26.0	(±4.0)	20.9	(±3.9)
25–34	24.4	(±2.7)	18.3	(±2.9)§
35–44	23.7	(±2.6)	22.9	(±2.9)
45–54	26.7	(±3.1)	21.1	(±3.0)§
55–64	21.4	(±3.4)	16.7	(±3.2)§
≥65	15.1	(±2.4)	8.3	(±1.8)§
Race/Ethnicity				
White	23.4	(±1.4)	19.1	(±1.4)§
Black	28.3	(±9.4)	22.8	(±9.3)
Hispanic	21.9	(±2.9)	13.7	(±2.7)§
Income		, -,		, ,
<\$10,000	31.2	(±5.2)	22.8	(±5.8)§
\$10,000–\$19,999	26.3	(±3.6)	20.8	(±4.2)
\$20,000–\$29,999	26.5	(±3.1)	25.0	(±3.9)
\$30,000–\$49,999	24.7	(±2.7)	20.0	(±2.8)§
\$50,000-\$74,999	20.4	(±3.3)	17.3	(±3.5)
≥\$75,000	18.1	(±4.0)	12.4	(±3.4)§
Education		(=)		(=0)
Grades 1–8	29.3	(±7.5)	16.2	(±7.2)§
Some high school	30.1	(±5.6)	29.1	(±6.6)
High school graduate or GED	27.9	(±2.5)	22.0	(±2.5)§
Some college or tech school	22.9	(±2.1)	21.3	(±2.3)
College graduate	16.0	(±2.0)	10.1	(±1.7)§
Marital status	10.0	(=2.0)	10.1	(=1.7)
Married	20.2	(±1.5)	15.6	(±1.5)⁵
Divorced	20.2 32.4	(±1.5) (±4.1)	32.0	(±1.5)* (±5.1)
Widowed	19.1	(±4.1)	17.4	(±3.1) (±4.0)
Never married	27.3	(±3.3)	21.9	(±3.2) <sup>§</sup>
Unmarried couple	28.8	(±7.7)	23.8	(±8.0)
Total	23.1	(±1.2)	18.3	(±1.2)⁵

<sup>\*</sup> Persons aged ≥18 years who reported having smoked ≥100 cigarettes in their entire life and who reported smoking every day or some days.

<sup>&</sup>lt;sup>†</sup> Confidence interval.

<sup>§</sup> Significant value: two-tailed p≤0.05.

TABLE 2. Percentage of smokers\* asked about tobacco use by a health-care provider or dentist — Arizona Adult Tobacco Survey, Arizona, 1996 and 1999

	(	1996 (n=1670)	(	1999 n=1249)
Question	%	(95% CI <sup>†</sup> )	%	(95% CI)
In the last year, did a health-care provider <sup>§</sup> ask you about smoking?	30.9	(±2.8)	43.7	(±3.7)¶
If yes, were you advised to stop smoking?	81.3	(±4.0)	83.9	(±4.0)
Asked about smoking and advised to stop smoking by a health-care provider?	25.1	(±4.1)	36.7	(±4.5)¶
In the last year, did a dentist ask you about smoking?**	13.7	(±2.2)	31.6	(±5.4)¶
If yes, were you advised to stop smoking?	72.1	(±7.8)	78.9	(±6.8)
Asked about smoking and advised to stop smoking by a dentist?	9.9	(±4.5)	24.9	(±4.7)¶

<sup>\*</sup> Persons aged ≥18 years who reported having smoked ≥100 cigarettes in their entire life and who reported smoking every day or some days.

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**Editorial Note:** The results of the 1996 and 1999 Arizona ATS indicate that the prevalence of cigarette use among Arizona adults decreased substantially following the implementation of the statewide Arizona TEPP. The decrease in smoking prevalence among low income and low education groups also indicates a narrowing in disparities in cigarette use.

TEPP directed many of its activities toward Hispanics, which may, in part, explain the substantial decrease in cigarette smoking in that population. TEPP serves the Hispanic population through its Spanish language statewide media campaign and telephone helpline and through local cessation and prevention services. TEPP uses methods appropriate for this population, including *Promotoras de Salud* (lay health workers) and culturally appropriate materials and curricula.

The Arizona ATS results also showed a substantial increase in the proportion of smokers who reported that either a health-care provider or a dentist both asked about tobaccouse and advised them to quit. Health-care providers can play a key role in assisting

<sup>&</sup>lt;sup>†</sup>Confidence interval.

<sup>§</sup> Includes physicians, nurse practitioners, or physician assistants.

Significant value: two-tailed p<0.05.

<sup>\*\*</sup>Asked of respondents who visited a dentist during the year preceding the survey.

patients to quit smoking (2), and brief physician advice substantially increases successful quitting (2). TEPP, through statewide and local projects, provides training for health-care providers to increase the number of patients with whom they briefly discuss stopping smoking.

The findings in this report are subject to at least five limitations. First, it is difficult to separate the effects of TEPP from price increases. The cigarette tax in Arizona increased from \$0.18 to \$0.58 per pack in November 1994, which may have contributed to the decline in adult smoking prevalence. Although the tax increase occurred more than a year before the first survey, the average retail price of cigarettes in Arizona continued to increase from \$2.08 in 1996 to \$2.50 in 1999 (3). Second, some segments of the population in Arizona, including some low income residents, are more likely than others to lack telephone service and therefore not be included in the study sample. Third, the response rate in 1999 was almost nine percentage points lower than the response rate in 1996, which may have influenced the results. Fourth, health-care provider communication data about smoking was based on self-reported recall for an entire year; the validity of these self-reports was not determined. Finally, although declines in smoking rates in Arizona may be a result of TEPP, a cause-and-effect relation cannot be established by comparing data from the cross-sectional ATS surveys alone. Comparing Arizona smoking prevalence trends and trends in other states with varying levels of interventions during 1996–1999 could help to determine how much of the decline may be related to the Arizona TEPP rather than to regional or national influences.

Arizona is one of seven states that meet CDC's funding recommendations for FY 2001 (4,5). The Arizona TEPP incorporates all nine components of a comprehensive tobacco-control program as recommended by CDC (4). The program added a certification program for smoking cessation counselors. The Arizona TEPP has been implementing strategies recommended in the Surgeon General's report Reducing Tobacco Use (6), CDC's Best Practices for Comprehensive Tobacco Control Programs (4), the Clinical Practice Guidelines for Treating Tobacco Use and Dependence (2), and the Task Force on Community Preventive Services (7). The findings of the 1996 and 1999 Arizona ATS suggest that an adequately funded and comprehensive program can substantially reduce tobacco use overall and across diverse demographic groups. Recent reports from California indicate that sustaining such a program for at least 9 years also could result in reductions in lung and bronchial cancer and coronary heart disease rates (8,9). Attainment of the 2010 national health objective (10) to reduce adult smoking rates to  $\leq$ 12% will require similar programs to be implemented across the United States.

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# Protracted Outbreaks of Cryptosporidiosis Associated With Swimming Pool Use — Ohio and Nebraska, 2000

Swimming is the second most popular exercise in the United States with approximately 400 million pool visits annually (1). During the summer of 2000, five outbreaks of cryptosporidiosis linked to swimming pools were reported to CDC. This report summarizes the investigations of two of these outbreaks involving approximately 1000 cases and provides recommendations to reduce the transmission of pool-related disease.

#### Ohio

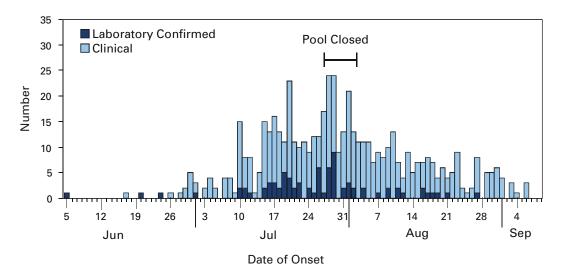
In July 2000, the Delaware City/County Health Department (DCCHD) learned of several laboratory-confirmed cases of cryptosporidiosis potentially linked to a private swim club. To determine associated exposures, DCCHD, in collaboration with the Ohio State Health Department and CDC, conducted an investigation.

A descriptive study and two telephone-based case-control studies were conducted: a community-based study to examine potential sources of the outbreak and a swim club-based study to identify club-related risk factors. Persons were asked about source of drinking water, recent travel, visits to pools and lakes, swimming behaviors, contact with ill persons or young animals, and day care attendance.

A clinical case was defined as diarrhea (three loose stools during a 24-hour period) in a person for at least 1 day. A laboratory-confirmed case was defined as diarrhea, vomiting, or abdominal cramps in a person and a stool specimen that tested positive for *Cryptosporidium parvum*. All case-patients were in central Ohio during June 17–August 18. Case-patients and controls were frequency matched by age.

DCCHD identified 700 clinical cases among residents of Delaware County and three neighboring counties. The outbreak began in late June and continued through September (Figure 1). The club closed during July 28–August 4. Of 268 stool samples submitted to DCCHD, 186 (70%) tested positive for *Cryptosporidium*; 47 laboratory-confirmed casepatients were enrolled in the two case-control studies. The median age of these casepatients was 6 years (range: 1–46 years) and 28 (61%) were female. The median duration of illness was 7 days (range: 1–36 days). Symptoms included diarrhea (91%), loss of appetite (87%), abdominal cramps (83%), and vomiting (35%). Nearly half (45%) reported intermittent diarrhea.

FIGURE 1. Number of laboratory-confirmed\* and clinical<sup>†</sup> cryptosporidiosis cases, by date of onset — Delaware County, Ohio, June–September 2000



- \* Diarrhea, vomiting, or abdominal cramps and a stool specimen that tested positive for *Cryptosporidium*.
- <sup>†</sup> Diarrhea (three loose stools during a 24-hour period) for at least 1 day.

Swimming at the private club was strongly associated with illness in the community case-control study. Of the 47 case-patients, 40 (93.6%) went swimming in the pool, compared with 24 (55%) of 44 controls (odds ratio [OR]=42.3; 95% confidence interval [CI]=12.3–144.9). In the club-based case-control study, activities that increased the risk for pool water getting in the mouth (e.g., standing under a pool sprinkler) increased the risk for illness (OR=8.4; 95% CI=1.8–54.8). At least five fecal accidents, one of which was diarrheal, were observed.

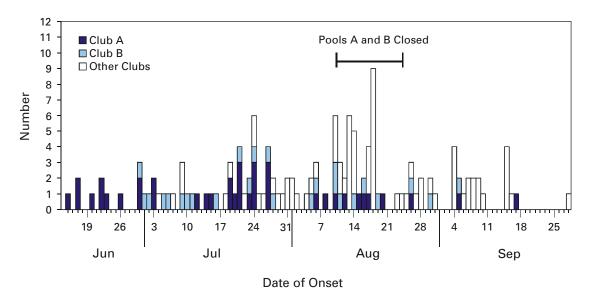
#### Nebraska

In August 2000, the Douglas County Health Department, Nebraska, detected an increase in laboratory-reported cases of cryptosporidiosis. Initial cases were linked to a private club with swimming facilities (club A). Additional case-patients reported swimming at club A, at another nearby private club (club B), or at other local pools. The pools at clubs A and B subsequently closed for 2 weeks in mid-August.

A case-control study was conducted at club A to identify community and club-specific risk factors. A clinical case was defined as diarrhea (three loose stools during a 24-hour period) in a person who was a member of club A. A laboratory-confirmed case was defined as diarrhea, vomiting, or cramps in a person who had a stool specimen that tested positive for *Cryptosporidium*. All case-patients were in the Douglas County area during June 3–September 28. Members of club A with laboratory-confirmed or clinical cases of cryptosporidiosis were enrolled in the study. Controls were randomly selected from the club A membership list and frequency matched by age.

The outbreak began in mid-June, peaked in mid-August, and tapered off in September, coinciding with the end of the outdoor swimming season in Nebraska (Figure 2). Of 225 clinical and laboratory-confirmed cases, 65 (29%) were laboratory-confirmed and

FIGURE 2. Number of primary cryptosporidiosis cases, by club membership and date of onset — Douglas County, Nebraska, June–September 2000



205 (91%) persons were interviewed. Case-patients were primarily children aged <5 years or adults aged 20–40 years, with a median age of 10 years (range: <1–77 years). Symptoms included diarrhea (94%), abdominal cramps (83%), loss of appetite (74%), nausea (60%), and vomiting (43%). The median duration of diarrhea was 7 days (range: 1–44 days), and nearly half (46%) of patients reported intermittent diarrhea.

Thirty-seven case-patients and 36 controls were included in the case-control study at club A. Illness was associated with swimming at club A (OR=5.0; 95% Cl=1.48–17.7) and having been splashed with pool water (OR=5.3; 95% Cl=1.6–18.9).

Swimmers often swam at multiple pool facilities and swim/dive team meets were held at both clubs A and B. Approximately 18% of the case-patients reported swimming while symptomatic, and nearly one third (32%) swam either during illness or during the 2-week period after symptoms subsided. Fecal accidents were observed at both clubs.

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**Editorial Note**: Outbreaks of gastrointestinal illness associated with treated recreational water (e.g., swimming pools) appear to have increased in recent years with most being caused by *Cryptosporidium* (2,3). Although a fecal accident by a swimmer can expose other swimmers to various disease-causing organisms, the probability of transmission of cryptosporidiosis is higher in this setting for two reasons. First, *Cryptosporidium* oocysts are extremely resistant to chlorine and may remain infective for several days in swimming pool water containing recommended chlorine concentrations (4) and, because of their small size, may not be removed efficiently by conventional pool filters. Second, the high titer of *Cryptosporidium* in diarrhea from infected persons (5) and the low

infectious dose (6) make it possible for a single fecal accident to sufficiently contaminate an entire pool such that accidental ingestion of a few mouthfuls of water can result in infection.

The protracted nature of these two outbreaks highlights the challenges faced by health departments and pool managers in detecting and controlling pool-associated cryptosporidiosis outbreaks. The outbreaks went unreported for several weeks, possibly because ill persons often do not seek health care for diarrheal illness (U.S. Department of Agriculture, unpublished data, 1997). During this time, ill persons continued to swim, increasing the likelihood that contamination of the pools continued to occur. It is unclear whether extended pool closure reduced the potential for exposure or contributed to transmission at other pools. A multicomponent approach to outbreak prevention is needed that combines education of swimmers and pool staff, pool design modifications, and improved operations and maintenance procedures.

The high incidence of diarrhea in the United States (7) and the continued use of the pools during illness suggest that education of the public is an important component of any prevention strategy. To reduce pool contamination and the spread of cryptosporidiosis and other diarrheal illnesses, public health officials and pool managers should educate staff and patrons about key messages that may reduce recreational water illness transmission. To prevent transmission, persons with diarrhea should not swim, swimmers should avoid swallowing pool water, and persons should practice good hygiene before swimming, after using the restroom, and after changing a diaper.

Improved design and management of pools also may reduce the risk for disease transmission. Public health officials and pool operators should consider 1) using separate filtration systems for "kiddie" pools and other pools to decrease the potential for cross-contamination; 2) optimizing filtration rates of kiddie pools without facilitating suction injuries to decrease the length of time that swimmers would be exposed to pathogens; and 3) ensuring that restrooms and diaper changing areas are close to the pool and are clean and adequate in number. Management practices should 1) reinforce that pool operators regularly maintain and monitor pH and free residual chlorine levels to help prevent transmission of most waterborne pathogens; 2) develop policies for pool disinfection following a fecal accident (8,9); 3) train staff about prevention of recreational water illness transmission; and 4) institute frequent restroom breaks for young swimmers to reduce the potential for fecal accidents.

During a pool-associated or other local outbreak of cryptosporidiosis, extra vigilance is necessary to prevent swimming-related disease transmission. Those at risk for serious illness (e.g., immunocompromised persons) should consider not swimming during an outbreak. In addition, because persons ill with cryptosporidiosis often have intermittent diarrhea and *Cryptosporidium* can be excreted for several weeks after diarrhea subsides (10), ill swimmers should refrain from swimming while ill with diarrhea and should also not swim for a 2-week period after cessation of diarrhea. Operators of implicated pools should intensify education efforts and consider prohibiting diaper- and toddleraged children from swimming during the outbreak. In addition, health officials should alert pool operators in the geographic area so they can undertake intensive education efforts to prevent infected persons from swimming in and potentially contaminating their pools. Further evaluation is needed to determine the efficacy of extended pool closures on preventing *Cryptosporidium* transmission. Additional information about prevention of recreational water illness is available at http://www.cdc.gov/healthyswimming.

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# Prevalence of Parasites in Fecal Material from Chlorinated Swimming Pools — United States, 1999

As a result of the 1998 outbreak of infection with the chlorine-sensitive pathogen *Escherichia coli* O157:H7 at a waterpark in Georgia (1), many public health departments updated their guidelines for disinfecting pools following a fecal accident. Many of these guidelines recommended treating all fecal accidents as if they contained the highly chlorine-resistant parasite *Cryptosporidium parvum* (2), generally resulting in hyperchlorination and pool closures of up to a day. To determine whether fecal accidents commonly contained *Cryptosporidium*, the prevalence of this parasite and the moderately chlorine sensitive parasite *Giardia intestinalis* (3) was assessed by asking swimming pool operators throughout the United States to collect formed stools from fecal accidents in their pools. This report summarizes the results of this study and provides recommendations for disinfecting pools following fecal accidents.

During 1999, 47 swimming pools, waterparks, or aquatics centers were enrolled in the survey by telephone. Sample collection began Memorial Day weekend (May 29) and ended after Labor Day weekend (September 6). Samples of each fecal accident were collected into vials containing 10% formalin. Labels included no pool-specific identifiers. Samples were tested for *Cryptosporidium*- and *Giardia*-specific stool antigen without prior concentration. All positive specimens were verified using an immunofluorescent antibody mixture specific to *Cryptosporidium* and *Giardia* followed by microscopic identification.

Parasites in Chlorinated Swimming Pools — Continued

None of 293 formed stools from fecal accidents collected by pool operators contained *Cryptosporidium*. *Giardia* was found in 13 (4.4%) of the samples. Because this study addressed parasite prevalence in only formed stool, no information relating to disinfection procedures for diarrheal fecal accidents was obtained.

Reported by: CDC Recreational Waterborne Disease Working Group, Div of Emergency and Environmental Health Svcs, National Center for Environmental Health; Div of Bacterial and Mycotic Diseases, Div of Parasitic Diseases, Div of Viral and Rickettsial Diseases, Div of Healthcare Quality Promotion (proposed), National Center for Infectious Diseases; Div of Unintentional Injuries Prevention, National Center for Injury Prevention and Control, CDC.

**Editorial Note:** During the 1990s, reports of outbreaks of gastrointestinal disease associated with the use of disinfected recreational water (i.e., swimming and wading pools, waterparks, fountains, hot tubs, and spas) have gradually increased (4). During 1989–1998, approximately 10,000 cases of diarrheal illness were associated with 32 recreational waterborne disease outbreaks in disinfected water venues in the United States. Ten outbreaks occurred during 1997–1998, the highest number of recreational water outbreaks ever reported (4). Because diarrheal illness is underreported to public health authorities, the number of outbreaks associated with recreational water use is probably higher (5). The number of swimming exposures in the United States (approximately 400 million annual visits) (6) and increasing attendance at high capacity recreational water venues provide strong incentives to review and improve recommendations to reduce the transmission of gastrointestinal illness resulting from recreational water use.

Because swimming typically involves sharing water with many other persons in a pool, the water contains various bodily fluids, fecal matter, dirt, and debris that wash off bodies during swimming activities. Fecal matter is regularly introduced into the water when someone has a fecal accident through release of formed stool or diarrhea into the water, or residual fecal material on swimmers' bodies is washed into the pool. Fecal contamination may be more likely to occur when there is a high density of bathers, particularly diaper- and toddler-aged children. Swallowing this fecally contaminated water is the primary mode for transmission of enteric pathogens in recreational water outbreaks.

Although chlorine is an effective disinfectant, it does not instantly kill all pathogens (7). In addition, some pathogens, such as the parasite *Cryptosporidium*, are highly resistant to chlorine concentrations routinely used in pools (2). Because of frequent fecal contamination, the inability of chlorine disinfection to rapidly inactivate several pathogens and the common occurrence of accidental ingestion of pool water, transmission of pathogens can occur even in well-maintained pools.

The low prevalence of *Cryptosporidium* in formed fecal accidents in this study indicates that regulators can adopt less stringent disinfection guidelines by disinfecting pool water as if it contained the moderately chlorine-resistant parasite *Giardia*. Although there is a large differential between inactivation times for *Cryptosporidium*, *Giardia*, and *E. coli* (approximately 7 days, <1 hour, and <1 minute, respectively, at 1 mg/L free available chlorine [2,3,8]), responding to formed fecal accidents with water treatment sufficient to inactivate *Giardia* also should be sufficient to inactivate other known viral and bacterial waterborne pathogens, including *E. coli* O157:H7 (8).

On the basis of these findings, CDC has prepared recommendations for responding to fecal accidents in disinfected recreational water venues (see Notice to Readers, page

# Parasites in Chlorinated Swimming Pools — Continued

416). These recommendations assume the presence of *Giardia* in formed stool accidents and the presence of *Cryptosporidium* in diarrheal accidents. The prevalence of *Cryptosporidium* in diarrhetic and nondiarrhetic stools requires further investigation. The *Giardia* inactivation guidelines are based on data developed by the Environmental Protection Agency for disinfection of *Giardia* in drinking water (9). Pool operators should consult with their local or state health authorities for specific fecal accident disinfection procedures.

These recommendations are intended to minimize infectious disease transmission by observed fecal accidents (primarily formed stool); however, the unique circulation patterns found in pools often result in areas of poor pool circulation (i.e., "dead spots") making it unlikely that disease transmission can be fully prevented. In addition, the higher risk associated with diarrheal accidents, which may rarely be observed and/or responded to, makes it important that public health professionals and the aquatics industry address other critical recreational water illness prevention components. These may include improving aquatics industry policies, planning, and practices and educating aquatics staff and patrons about the potential for recreational water illness transmission. Swimmers should be informed by public health professionals and the aquatics industry that healthy swimming practices necessitate that patrons refrain from swimming while ill with diarrhea and avoid swallowing pool water. Improved hygiene before and during swimming (e.g., showering, handwashing, frequent restroom breaks for young children, and appropriate diaper changing) also should be promoted. Additional information about prevention of recreational water illness is available at http://www.cdc.gov/ healthyswimming.

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# **Drowning — Louisiana, 1998**

Drowning is the third leading cause of death from unintentional injuries in Louisiana. In 1998, the fatality rate from drowning for Louisiana residents was 3.1 per 100,000 population, higher than the U.S. rate of 1.9 per 100,000, and more than twice the 2000 national target of 1.3 per 100,000 population. This report describes the demographics and risk factors associated with drownings in Louisiana in 1998. Findings indicate that alcohol or illicit drug use was found in approximately 60% of tested victims aged  $\geq$ 13 years and that none of the victims of boating-related drowning were correctly wearing a personal flotation device (PFD). Prevention efforts should focus on decreasing alcohol and illicit drug use and increasing the proper use of PFDs among boaters and others involved in water recreation.

The Louisiana Office of Public Health examined three sources of data on persons who died by drowning: 1998 death certificates, coroners' records, and records of investigations performed by the Louisiana Department of Wildlife and Fisheries (LDWF). A case was defined as death in a resident of Louisiana coded on the death certificate as having drowned in the state during 1998. Using death certificates, 137 cases were identified. Of these, 114 investigative reports were reviewed: 96 with coroners' records, six with LDWF reports, and 12 with both; investigative reports for 23 (17%) cases could not be obtained. In addition, modifiable risk factors were analyzed. Alcohol and illicit drug use were examined in the deaths of persons aged ≥13 years. Use was determined by the presence of ethanol or metabolites of illicit drugs in samples collected at autopsy. Among deaths that occurred in a swimming pool, pool fencing was described as present or absent, and PFD use was recorded for investigative reports of boating-related drowning.

Of the 137 drowning cases, 115 (84%) occurred among males. Blacks and whites died in almost equal numbers, 68 (50%) and 67 (49%), respectively; however, the rate of drowning among blacks was more than twice the rate of whites, 4.8 per 100,000 and 2.3 per 100,000, respectively. The median age of drowned persons was 32 years (range: 10 months–94 years). The highest drowning rate was among persons aged 25–35 years (3.8 per 100,000). Children aged <4 years accounted for 10% of the total deaths and had the second highest rate (3.5 per 100,000). Among those cases in which the manner of death could be determined, 122 (95%) were classified as "accident" (unintentional); seven (5%) were classified as suicide. Twelve (9%) drowning deaths were work-related.

Of 114 deaths with coroner or LDWF records, 83 (73%) occurred in natural bodies of water (e.g., lakes, bayous, rivers, and the Gulf of Mexico), 19 (17%) in swimming pools, and seven (6%) in bathtubs or hot tubs. Four deaths were classified to have occurred in an "other setting" and in one death the setting was unknown. Alcohol testing was recorded in 72 (76%) of the 94 decedents aged  $\geq$ 13 years; 43 (60%) had evidence for the presence of alcohol and/or illicit drugs. Thirteen (30%) decedents were positive for alcohol and illicit drugs, 28 (67%) were positive for alcohol, and one (2%) was positive for illicit drugs.

Among the 19 deaths that occurred in a swimming pool, 11 (58%) were in children aged <14 years. Children aged <4 years died in swimming pools at the highest rate (1.3 per 100,000). The presence or absence of fences was noted in eight (42%) deaths. Six pools had and two did not have fencing.

Drowning — Continued

Coroner and LDWF reports indicated that 35 (31%) of 114 deaths occurred during boating-related activities: 11 (31%) involved a fall from the boat, seven (20%) occurred when the boat capsized, and six (17%) involved a collision. Five (14%) persons who drowned had entered the water voluntarily, and six (17%) had entered the water for unknown reasons. PFD use was recorded for 22 (63%) boating-related drownings; only one decedent had been wearing a PFD and it was unfastened. Among persons aged  $\geq$ 13 years, 34 drownings occurred; 13 (48%) tested positive for alcohol or illicit drugs.

Reported by: M Kohn, MD, Health Div, Oregon Dept of Human Svcs. R Duthu, Louisiana Dept of Wildlife and Fisheries; H Flood, MPH, G Hall, J Wiley, MHSE, H Benson Kutinac, MPH, Louisiana Office of Public Health. State Br, Div of Applied Public Health Training, Epidemiology Program Office; National Center for Injury Prevention and Control; and an EIS Officer, CDC.

Editorial Note: The circumstances of drowning identified in this report highlight ways to prevent drowning deaths. Drowning in Louisiana occurred most often in natural bodies of water. Approximately 30% of the deaths during 1998 were associated with boating, which is proportionately more than in the entire United States, where boating accounts for 20% of drowning (1). In this investigation, the findings indicated that alcohol or illicit drug use was present in nearly half of the tested boating-related deaths among persons aged ≥13 years, that none of the boating-related decedents had been wearing a PFD correctly, and that during 1998, drowning in swimming pools accounted for 17% of deaths, with children aged <4 years at highest risk. Louisiana state regulations pertaining to alcohol use focus only on boat operators, and state regulations on wearing PFD pertain only to children aged <13 years.

The findings in this report are subject to at least two limitations. First, some investigative reports were not available. Second, risk factor information was missing in many of the reports that were examined. Both of these limitations could effect the reported prevalence of risk behaviors.

By analyzing the state-level data described in this report, the Louisiana Office of Public Health determined that drowning prevention efforts should include: 1) decreasing alcohol and illicit drug use among both boating passengers and operators; 2) focusing on the proper use of PFDs not only among children but among persons of all ages; and 3) instructing caretakers to supervise children and maintain adequate fencing around swimming pools (2). For a pool fence to protect against drowning, the fence must completely enclose the pool and must be at least 4 feet high with vertical openings <4 inches wide and with a functional self-latching gate (3). All of these prevention efforts need to be delivered in a manner culturally appropriate for the highest risk populations.

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# Notice to Readers

# National Safe Boating Week — May 19–25, 2001

National Safe Boating Week is May 19–25, 2001. Boating safety improved in the United States throughout the 1990s. Despite a 15% increase in boats registered, the boating fatality rate declined 32% from 1990 to 1999. However, boating-related deaths continue to occur. In 1999, 734 persons died in boating incidents. Boaters routinely should adopt safety practices.

All boaters should wear personal flotation devices (PFDs). Capsizing and falling overboard account for more than half of all recreational boating deaths each year (1). Although all states and territories (except Guam, Hawaii, and Idaho) have regulations on wearing life jackets, most affect only children aged <12 years.

Boaters should avoid alcoholic beverages while boating. Alcohol use affects judgment, vision, balance, and coordination. Approximately one third of all deaths caused by a collision involved alcohol use.

Boaters should be aware of the risk for carbon monoxide (CO) poisoning. Potential sources of CO poisoning include using air conditioning powered by an onboard motor generator, operating a gasoline powered engine while docked and/or rafted with other boats operating engines, or being underway with improper cabin ventilation. To avoid CO poisoning, boaters should have sufficient ventilation, properly install and maintain equipment, and use CO detectors.

Boaters should be aware of potential hazards and the regulations of operating a boat. Boating education courses teach the regulatory and statutory rules for safely operating and navigating recreational boats. The U.S. Coast Guard Auxiliary and U.S. Power Squadron offer the Vessel Safety Check (VSC) program to promote boating safety. Volunteers check safety equipment and provide information about equipment purpose, safety procedures, and applicable regulations.

Additional information about boating safety is available from the U.S. Coast Guard, Office of Boating Safety at http://www.uscgboating.org or National Association of State Boating Law Administrators at http://www.nasbla.org.\* Information about the VSC program is available at http://www.usps.org/national/vsc/vsc\_main.htm. CDC fact sheets and articles on boating and water safety are available at http://www.cdc.gov/safeusa/water/water.htm and http://www.cdc.gov/mmwr/preview/mmwrhtml/mm4949a1.htm.

#### Reference

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<sup>\*</sup>References to sites of nonfederal organizations on the World-Wide Web are provided as a service to *MMWR* readers and do not constitute or imply endorsement of these organizations or their programs by CDC or the U.S. Department of Health and Human Services. CDC is not responsible for the content of pages found at these sites.

# Notice to Readers

# Responding to Fecal Accidents in Disinfected Swimming Venues

These recommendations are solely for management of fecal accidents in disinfected recreational water venues. The recommendations do not address use of other nonchlorine disinfectants because there is limited pathogen inactivation data for many of these compounds. Because improper handling of chlorinated disinfectants could cause injury, appropriate occupational safety and health requirements should be followed.

## A. Formed stool (solid, nonliquid)

- 1. Direct everyone to leave all pools into which water containing the feces is circulated. Do not allow anyone to enter the contaminated pool(s) until all decontamination procedures are completed.
- 2. Remove as much of the fecal material as possible using a net or scoop and dispose of it in a sanitary manner. Clean and disinfect the net or scoop (e.g., after cleaning, leave the net or scoop immersed in the pool during disinfection). Vacuuming stool from the pool is not recommended\*.
- 3. Raise the free available chlorine concentration to 2 mg/L, pH 7.2–7.5, if it is <2.0 mg/L. Ensure this concentration is found throughout all co-circulating pools by sampling at least three widely spaced locations away from return water outlets. This free available chlorine concentration was selected to keep the pool closure time to approximately 30 minutes. Other concentrations or closure times can be used as long as the CT inactivation value<sup>†</sup> is kept constant (Table 1).
- 4. Maintain the free available chlorine concentration at 2.0 mg/L, pH 7.2–7.5, for at least 25 minutes before reopening the pool. State or local regulators may require higher free available chlorine levels in the presence of chlorine stabilizers such as chlorinated isocyanurates<sup>§</sup>. Ensure that the filtration system is operating while the pool reaches and maintains the proper free available chlorine concentration during the disinfection process.
- 5. Establish a fecal accident log. Document each fecal accident by recording date and time of the event, formed stool or diarrhea, free available chlorine concentration at the time or observation of the event and before opening the pool, the pH, the procedures followed to respond to the fecal accident (including the process used to increase free chlorine residual if necessary), and the contact time.

## B. Diarrhea (liquid stool)

- 1. See A1.
- 2. See A2.
- 3. Raise the free available chlorine concentration to 20 mg/L¹ and maintain the pH between 7.2 and 7.5. Ensure this concentration is found throughout all co-circulating pools by sampling at least three widely spaced locations away from return water outlets. This chlorine and pH level should be sufficient to inactivate *Cryptosporidium* and should be maintained for at least 8 hours, equivalent to a CT inactivation value of 9600. A higher or lower free available chlorine level/inactivation time can be used as long as a CT inactivation value equaling 9600 is maintained for *Cryptosporidium* inactivation. State or local regulators may require higher free available chlorine levels in the presence of chlorine stabilizers such as chlorinated isocyanurates. If necessary, consult an aquatics professional to determine and identify the feasibility, practical methods, and safety considerations before attempting the hyperchlorination of any pool.
- 4. Ensure that the filtration system is operating while the pool reaches and maintains the proper free available chlorine concentration during disinfection.
- 5. Backwash the filter thoroughly after reaching the CT value. Be sure the effluent is discharged directly to waste and in accordance with state or local regulations. Do not return the backwash through the filter. Where appropriate, replace the filter media.
- 6. Swimmers may be allowed into the pool after the required CT value has been achieved and the free available chlorine level has been returned to the normal operating range allowed

by the state or local regulatory authority. Maintain the free available chlorine concentration and pH at standard operating levels based on state or local regulations. If necessary, consult state or local regulatory authorities for recommendations on bringing the free available chlorine levels back to an acceptable operating range.

#### 7. See A5.

- \* No uniform recommendations for disinfection of vacuum systems are available. However, if a vacuum system is accidentally used, the waste should be discharged directly to a sewer or other approved waste disposal system and not through the filtration system. The dilution effect of the pool water going through the hose may reduce the risk for high-level contamination of the vacuum system.
- <sup>†</sup> CT refers to concentration (C) of free available chlorine in mg/L or ppm multiplied by time (T) in minutes. If pool operators want to use a different chlorine concentration or inactivation time, they need to ensure that CT values always remain the same. For example, if an operator finds a formed fecal accident in the pool and his pool has a free available chlorine reading of 3 mg/L and a pH of 7.5, to determine how long the pool should be closed to swimmers, locate 3 mg/L in the left column of the table and then move right and read the pool closure time. The pool should be closed for 19 minutes. Example 2: The CT inactivation value for *Cryptosporidium* is 9600, which equals (20 mg/L)(480 minutes) (i.e., 8 hours). After a diarrheal accident in the pool, an operator determines she can only maintain 15 mg/L. How long would hyperchlorination take? Answer: 9600=CT=[(15)(T)];T=9600/15=640 minutes=10.7 hours.
- <sup>§</sup> The impact of chlorine stabilizers (e.g., chlorinated isocyanurates) on pathogen inactivation and disinfectant measurement is unclear and requires further investigation. State or local regulations on chlorinated isocyanurates use should be consulted.
- ¶ Many conventional test kits cannot measure free available chlorine levels this high. Use chlorine test strips that can measure free available chlorine in a range that includes 20mg/L (such as those used in the food industry) or make dilutions for use in a standard DPD (N, N-diethyl-p-phenylenediamine) test kit using chlorine-free water.

TABLE 1. Free available chlorine concentrations and pool closure time\* required for disinfection of pools after a formed fecal accident

Concentration (mg/L or ppm)	Pool closure time (minutes)	
<0.4	105	
0.6	72	
0.8	55	
1.0	45	
1.2	39	
1.4	34	
1.6	30	
1.8	28	
2.0	25	
2.2	24	
2.4	22	
2.6	21	
2.8	20	
3.0	19	

<sup>\*</sup> Theoretical pool closure times for 99.9% inactivation of *Giardia* cysts by free available chlorine, pH 7.5, 25 C were derived from the Environmental Protection Agency's (EPA) Disinfection Profiling and Benchmarking Guidance Manual. EPA data were generated from original pathogen inactivation data and modeled for use in drinking water treatment facilities. These data were used to develop the pathogen inactivation table from which these pool closure times were derived. The applicability of these data to pools, where water and disinfectant mixing may not be uniform, has not been shown. Therefore, these pool closure times do not take into account "dead spots" and other areas of poor pool water mixing.

# Notice to Readers

# Deferral of Routine Booster Doses of Tetanus and Diphtheria Toxoids for Adolescents and Adults

A shortage of tetanus and diphtheria toxoids (Td) and tetanus toxoid (TT) in the United States has resulted because one of two manufacturers discontinued production of tetanus toxoid-containing products (1). Aventis Pasteur (Swiftwater, Pennsylvania) is the only major manufacturer of tetanus and Td in the United States. In response to the shortage, Aventis Pasteur has increased production of Td to meet national needs; however, because 11 months are required for vaccine production, the shortage is expected to last for the remainder of 2001.

To assure vaccine availability for priority indications (2), all routine Td boosters in adolescents and adults should be delayed until 2002. Td use should follow existing recommendations for all other indications, which include 1) persons traveling to a country where the risk for diphtheria is high\*; 2) persons requiring tetanus vaccination for prophylaxis in wound management; 3) persons who have received <3 doses of any vaccine containing Td; and 4) pregnant women who have not been vaccinated with Td during the preceding 10 years.

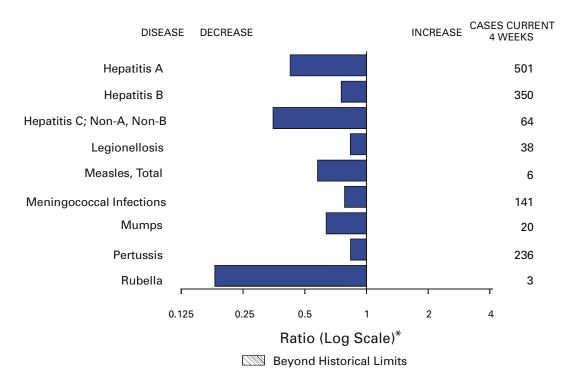
CDC recommends that health-care providers, including clinic personnel, record the names of patients whose booster dose is delayed during the shortage. When Td supplies are restored, these patients should be notified to return to their health-care provider for vaccination. According to Aventis Pasteur, sufficient vaccine will be available in early 2002 to supply the national demand.

Health-care providers using Td for wound management should follow recommendations from the Advisory Committee on Immunization Practices for wound management (3). All wound patients should receive Td if they have received <3 tetanus-containing vaccines or if vaccination history is uncertain. These patients also should receive tetanus immune globulin for wounds that are contaminated with dirt, feces, soil or saliva, puncture wounds, and avulsions and wounds resulting from missiles, crushing, burns or frost-bite (3). For persons with  $\geq$ 3 doses of TT-containing vaccine and severe or contaminated wounds, Td should be given only if >5 years have passed since the last dose of tetanus-containing vaccine. For clean and minor wounds, Td should be given only if the patient has not received a tetanus-containing vaccine during the preceding 10 years. Health-care providers should inquire from patients presenting for wound management about the timing of their last tetanus-containing vaccine to avoid unnecessary vaccination.

Pediatric formulations of diphtheria and tetanus toxoids (DT) and diphtheria and tetanus toxoids and acellular pertussis vaccine (DTaP) should not be used for persons aged ≥7 years. Although TT might be considered a substitute for Td in wound management

<sup>\*</sup>Travelers to certain countries may be at substantial risk for exposure to toxigenic strains of *C. diphtheriae*, especially with prolonged travel, extensive contact with children, or exposure to poor hygiene. Based on surveillance data and consultation with the World Health Organization, countries at highest risk are: *Africa*=Algeria, Egypt, and sub-Saharan Africa; *Americas*=Brazil, Dominican Republic, Ecuador, and Haiti; *Asia/Oceania*=Afghanistan, Bangladesh, Cambodia, China, India, Indonesia, Iran, Iraq, Laos, Mongolia, Myanmar, Nepal, Pakistan, Philippines, Syria, Thailand, Turkey, Vietnam, and Yemen; *Europe*=Albania and all countries of the former Soviet Union (3).

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending May 19, 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 May 19, 2001 (20th Week)

		Cum. 2001		Cum. 2001
Anthrax		-	Poliomyelitis, paralytic	-
Brucellosis*		20	Psittacosis*	4
Cholera		2	Q fever*	6
Cyclosporiasis	*	39	Rabies, human	-
Diphtheria		1	Rocky Mountain spotted fever (RMSF)	63
Ehrlichiosis:	human granulocytic (HGE)*	30	Rubella, congenital syndrome	-
	human monocytic (HME)*	5	Streptococcal disease, invasive, group A	1,542
Encephalitis:	California serogroup viral*	-	Streptococcal toxic-shock syndrome*	22
•	eastern equine*	-	Syphilis, congenital <sup>¶</sup>	34
	St. Louis*	-	Tetanus	6
	western equine*	-	Toxic-shock syndrome	54
Hansen diseas	se (leprosy)*	22	Trichinosis	5
	Imonary syndrome*†	3	Tularemia*	12
	mic syndrome, postdiarrheal*	26	Typhoid fever	83
HIV infection,	pediatric*§	72	Yellow fever	-
Plague	•	-		

<sup>-:</sup> No reported cases. \*Not notifiable in all states.

<sup>†</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 April 24, 2001.

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

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending May 19, 2001, and May 20, 2000 (20th Week)

	4100								<i>coli</i> O157:H7	
	Cum.	DS Cum.	Chlan Cum.	<u>,                                    </u>	ydia <sup>†</sup> Cryptosporid Cum. Cum. C		NET Cum.	Cum.	PHI Cum.	LIS Cum.
Reporting Area	2001⁵	2000	2001	2000	2001	2000	2001	2000	2001	2000
UNITED STATES NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	11,921 469 14 13 10 271 40 121	13,943 933 14 13 1 668 33 204	236,293 8,739 448 440 213 3,909 1,045 2,684	262,069 8,932 525 397 211 3,818 993 2,988	539 19 2 - 9 3 3 2	553 33 5 2 10 9 2 5	415 50 5 8 2 19 4 12	614 67 4 2 2 33 - 24	306 39 6 6 1 16 2	503 69 4 5 3 27 4 26
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	2,254 97 1,028 635 494	3,254 157 1,931 722 444	19,456 N 10,071 1,715 7,670	24,422 N 10,472 4,864 9,086	56 29 25 1 1	107 26 73 4 4	37 30 - 7 N	89 66 7 16 N	31 20 1 10	71 38 3 14 16
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	926 167 85 433 189 52	1,311 173 97 803 184 54	34,390 4,145 5,849 9,262 11,538 3,596	45,525 11,876 4,810 13,203 9,245 6,391	171 45 20 1 41 64	115 19 7 17 15 57	94 31 17 12 18 16	110 19 12 36 17 26	50 23 9 7 - 11	74 13 12 27 15 7
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	243 47 24 117 1 - 16 38	284 47 24 124 - 3 19 67	12,387 2,436 1,490 4,281 352 718 894 2,216	14,629 3,072 1,914 4,927 340 674 1,373 2,329	26 - 15 5 - 3 3	32 4 11 6 2 3 3 3	42 8 8 10 - 4 4 8	86 18 14 26 5 2 14	45 21 3 11 3 3 -	78 31 8 19 5 2 9
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	3,720 72 436 297 270 28 190 250 392 1,785	3,816 63 449 264 259 19 169 294 356 1,943	49,005 1,087 4,704 1,408 6,738 888 7,516 4,931 9,867 11,866	47,672 1,143 4,813 1,244 5,985 797 7,913 3,804 9,656 12,317	117 1 24 7 7 - 14 - 42 22	89 2 4 - 3 3 8 - 50 19	48 - 3 - 11 1 20 2 4 7	53 1 8 - 12 2 9 3 5	22 - - U 7 - 9 2 2 2	42 - 1 U 11 2 6 2 10
E.S. CENTRAL Ky. Tenn. Ala. Miss.	682 121 220 174 167	639 98 283 163 95	17,328 3,370 5,446 4,433 4,079	19,179 3,084 5,514 6,036 4,545	14 1 2 5 6	19 1 3 8 7	17 2 10 5	33 10 14 1 8	12 3 8 - 1	21 8 11 - 2
W.S. CENTRAL Ark. La. Okla. Tex.	1,296 81 331 67 817	1,423 92 214 112 1,005	38,275 3,015 6,163 3,872 25,225	39,778 2,380 7,212 3,625 26,561	7 2 3 2	26 1 3 2 20	24 1 1 8 14	32 4 2 7 19	29 - 13 8 8	49 4 12 3 30
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	510 11 7 1 109 40 202 48 92	515 7 11 2 129 50 142 57	12,567 862 650 260 1,057 2,090 5,391 318 1,939	15,400 591 731 297 4,604 1,901 4,864 965 1,447	44 3 5 - 15 8 1 10 2	30 4 3 8 1 2 7 2	43 3 5 1 19 2 7 3 3	51 9 8 3 15 2 12 1	29 - - 15 2 7 4 1	30 - 4 2 7 3 11 1 2
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	1,821 201 69 1,526 9 16	1,768 196 47 1,457 5 63	44,146 5,270 847 36,912 991 126	46,532 5,075 2,635 36,488 973 1,361	85 N 3 81 - 1	102 U 3 99 -	60 14 10 34 1	93 21 12 52 1 7	49 13 7 27 - 2	69 34 14 14 1 6
Guam P.R. V.I. Amer. Samoa C.N.M.I.	9 408 2 - -	13 284 18 - -	2,090 53 U U	213 U - U U	- - U U	- - - U U	N - - U U	N 3 - U U	U U U U	U U U U

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

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

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

† Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update April 24, 2001.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending May 19, 2001, and May 20, 2000 (20th Week)

	WCCK3 CI	lullig iviay	Hepati		20, 20	700 (2	THE TOTAL PROPERTY OF THE PROP	Lyme			
	Gono Cum.	rrhea	Non-A,	Non-B	Legionel		Listeriosis Cum.		ease		
Reporting Area	2001	Cum. 2000	2001	Cum. 2000	Cum. 2001	Cum. 2000	2001	2001	Cum. 2000		
UNITED STATES	110,345	129,076	832	9,741	236	252	134	855	1,999		
NEW ENGLAND Maine	2,407 48	2,480 32	12	11 -	12 -	17 2	13 -	<b>26</b> 8	365 -		
N.H. Vt.	51 30	36 25	- 5	3	3 4	2	-	42 1	26 2		
Mass. R.I.	1,197 272	992 244	7	5 3	3	9 1	8	48	123		
Conn.	809	1,151	-	-	2	3	5	177	214		
MID. ATLANTIC Upstate N.Y.	11,529 2,732	13,679 2,279	28 18	274 10	26 17	61 19	20 9	335 266	1,289 392		
N.Y. City N.J.	4,255 932	4,379 2,744		251	4	8 4	3 5		49 381		
Pa.	3,610	4,277	10	13	2	30	3	69	467		
E.N. CENTRAL Ohio	18,722 2,816	26,055 6,575	85 5	102 3	63 35	70 30	17 4	20 19	71 9		
Ind.	2,414	2,192	1	-	5	9	2	1	-		
III. Mich.	5,798 6,534	7,925 6,680	9 70	9 90	16	7 13	10		5 3		
Wis.	1,160	2,683	-	-	7	11	1	U	54		
W.N. CENTRAL Minn.	5,154 765	6,129 1,207	255 -	211 1	19 1	13 1	3 -	33 20	30 13		
lowa Mo.	392 2,662	401 2,962	251	1 203	5 9	3 6	- 1	3 7	11		
N. Dak. S. Dak.	13 87	22 97	-	-	-	- 1	-	-	-		
Nebr. Kans.	270 965	484 956	1 3	2 4	3 1	2	1 1	1 2	1 5		
S. ATLANTIC	29,750	33,382	41	30	38	42	24	146	188		
Del. Md.	587 2,715	636 3,278	11	2 2	7	4 9	2	103	33 120		
D.C. Va.	1,190 3,311	873 3,841	-	- 1	1 6	3	4	7 25	- 14		
W. Va. N.C.	209 6,106	247 6,648	5 7	4 12	N 4	N 6	2	1 5	8 8		
S.C. Ga.	3,611 5,396	3,377 5,971	3	-	1 2	2	2 7	1	1		
Fla.	6,625	8,511	15	9	17	15	7	4	4		
E.S. CENTRAL Ky.	10,932 1,300	13,533 1,278	90 3	180 16	22 6	7 5	8 2	4 2	9 2		
Ténn. Ala.	3,526 3,516	4,209 4,581	28 1	38 6	9	1 1	3 3	2	5 1		
Miss.	2,590	3,465	58	120	2	-	-	-	1		
W.S. CENTRAL Ark.	18,290 1,883	20,442 1,258	148 3	8,840 2	3	11 -	4 1	7	15 -		
La. Okla.	4,197 1,791	5,027 1,590	62 2	217 2	2 1	5 1	-	1	1		
Tex.	10,419	12,567	81	8,619	-	5	3	6	14		
MOUNTAIN Mont.	3,876 43	3,973 20	126	26 1	20	15 -	13	3	1 -		
ldaho Wyo.	30 17	34 24	1 101	- 1	- 1	2	-	1	- 1		
Colo. N. Mex.	1,190	1,264 401	8	5 6	6	6 1	1 3	-	-		
Ariz.	347 1,504	1,596	4	10	1 6	2	3	-	-		
Utah Nev.	34 711	107 527	3	3	4 2	4 -	1 5	1	-		
PACIFIC	9,685	9,403	47	67	33	16	32	39	31		
Wash. Oreg.	1,150 145	886 340	12 5	9 14	6 N	7 N	2 1	2 3	3		
Calif. Alaska	8,236 124	7,884 117	30	44 -	27 -	9	29 -	34 -	27 1		
Hawaii	30	176	-	-	-	-	-	N	N		
Guam P.R.	653	20 213	-	1 1	2	-	-	N	N		
V.I. Amer. Samoa	6 U	- U	Ū	Ū	Ū	Ū	-	Ū	Ū		
C.N.M.I.	U	U	U	U	U	U	-	U	U		

N: Not notifiable.

U: Unavailable.

-: No reported cases.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending May 19, 2001, and May 20, 2000 (20th Week)

	WCCKS	enumy w	uy 13, 2	oo i, alia iv	Salmonellosis*							
	Ma	laria	Rabi	es, Animal	NE	TSS		HLIS				
Reporting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.				
UNITED STATES	<b>2001</b> 325	<b>2000</b> 409	<b>2001</b> 2,218	2000 2,361	<b>2001</b> 8,542	2000 10,227	<b>2001</b> 7,178	10,010				
NEW ENGLAND Maine N.H. Vt. Mass.	23 2 2 - 6	17 2 1 2 8	224 29 7 33 65	262 59 3 16 85	696 86 50 30 388	616 47 44 43 356	665 70 42 32 320	645 31 46 52 351				
R.I. Conn.	1 12	2 2	25 65	19 80	33 109	25 101	54 147	45 120				
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	58 15 30 8 5	79 20 36 11 12	291 231 5 53 2	363 255 3 57 48	770 305 263 121 81	1,487 321 421 419 326	1,085 322 362 159 242	1,710 447 459 317 487				
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	41 9 9 1 15 7	50 4 2 31 10 3	12 1 1 2 8	25 4 - 1 13 7	1,233 445 126 281 234 147	1,473 316 165 491 248 253	1,028 408 112 179 226 103	1,438 345 172 522 299 100				
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	14 6 1 3 - - 2 2	19 4 1 3 2 - 3 6	125 15 23 13 17 15 1	215 30 32 9 54 46 - 44	452 71 82 141 1 38 44 75	568 66 68 211 14 25 71 113	579 207 83 182 18 30	725 214 78 244 25 35 45				
S. ATLANTIC Del. Md. D.C. Va.	85 1 34 4 20	87 2 35 - 20	791 12 92 - 161	814 13 154 - 208	2,219 25 228 24 365	1,693 35 234 - 223	1,398 27 240 U 291	1,462 37 263 U 228				
W. Va. N.C. S.C. Ga. Fla.	1 1 4 3 17	9 1 4 16	52 232 50 110 82	48 204 49 91 47	28 369 265 312 603	41 252 139 281 488	33 194 239 301 73	40 211 124 420 139				
E.S. CENTRAL Ky. Tenn. Ala. Miss.	10 2 5 3	14 2 5 6 1	76 9 56 11	74 10 45 19	496 94 135 172 95	502 111 124 150 117	301 53 115 109 24	400 77 181 119 23				
W.S. CENTRAL Ark. La. Okla. Tex.	5 2 1 1	22 1 4 1 16	477 - - 35 442	415 - - 29 386	755 108 100 56 491	1,139 104 194 99 742	498 79 168 53 198	682 74 144 83 381				
MOUNTAIN Mont. Idaho	19 2 2	18 1 -	88 14 -	84 23	621 25 28	885 38 47	509 - 4	819 - 43				
Wyo. Colo. N. Mex. Ariz. Utah Nev.	9 1 1 2 2	10 - 2 3 2	16 - 2 56 -	24 - 5 31 1 -	25 181 79 169 68 46	20 273 77 205 135 90	16 180 66 158 62 23	17 256 69 215 130 89				
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	70 2 3 62 1 2	103 7 20 74 - 2	134 - - 101 33	109 - - 89 20	1,300 143 53 1,070 15 19	1,864 146 123 1,507 22 66	1,115 205 92 704 - 114	2,129 233 157 1,659 19 61				
Guam P.R. V.I.	- - -	2	- 61 -	- 24 -	104 -	7 124 -	U U U	U U U				
Amer. Samoa C.N.M.I.	U U	U U	U U	U U	U U	U U	Ŭ U	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 II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending May 19, 2001, and May 20, 2000 (20th Week)

	<u>weeks e</u>			<u>001, and M</u>	/lay 20, 2000 (20th Week)							
	NET		llosis*	PHLIS		philis & Secondary)	Tube	rculosis				
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.				
Reporting Area UNITED STATES	<b>2001</b> 4,116	<b>2000</b> 6,407	<b>2001</b> 1,979	<b>2000</b> 4,167	2001 1,906	<b>2000</b> 2,457	<b>2001</b> 3,869	<b>2000</b> 4,746				
NEW ENGLAND	67	111	67	94	15	29	132	144				
Maine N.H.	2	4	1	4	-	1	5 7	3				
Vt. Mass.	2 45	1 74	1 39	- 60	11	: 21	, 2 81	2 88				
R.I.	6	9	9	10	1	1	13	12				
Conn. MID. ATLANTIC	11 346	22 985	16 300	20 615	3 125	5 112	24 772	36 803				
Upstate N.Y.	156	322	14	140	4	5	117	104				
N.Y. City N.J.	113 40	480 111	169 52	306 84	85 17	50 24	410 166	441 193				
Pa.	37	72	65	85	19	33	79	65				
E.N. CENTRAL Ohio	593 203	1,129 <i>7</i> 7	309 118	711 66	294 29	535 27	418 <i>6</i> 5	499 105				
Ind. III.	99 141	231 373	17 84	38 304	70 82	180 185	28 227	51 234				
Mich. Wis.	120 30	307 141	81 9	277 26	104 9	119 24	68 30	73 36				
W.N. CENTRAL	413	426	3 377	404	24	36	160	186				
Minn. Iowa	105 82	47 97	189 <i>7</i> 3	125 115	12 1	3 10	87 9	65 13				
Mo. N. Dak.	108 9	224 2	64 1	132 1	6	18	43	68				
S. Dak.	44	2	33	1	-	-	6	9				
Nebr. Kans.	27 38	22 32	17	11 19	5	2 3	15 -	7 24				
S. ATLANTIC	674	712	209	270	751	796	728	821				
Del. Md.	4 42	5 36	4 18	5 12	2 92	2 125	72	2 85				
D.C. Va.	21 46	49	U 21	U 62	16 55	17 53	15 80	98				
W. Va. N.C.	4 147	2 44	6 70	2 24	180	1 230	11 94	15 119				
S.C. Ga.	61 83	18 89	35 51	36 80	106 102	80 139	32 156	30 187				
Fla.	266	469	4	49	198	149	268	285				
E.S. CENTRAL Ky.	373 124	312 67	150 36	228 35	217 18	365 37	223 37	333 36				
Tenn. Ala.	36 98	154 14	28 78	177 13	123 38	229 46	43 110	125 109				
Miss.	115	77	8	3	38	53	33	63				
W.S. CENTRAL Ark.	712 216	1,128 <i>7</i> 3	270 65	347 24	258 18	338 44	485 49	754 72				
La. Okla.	33 13	106 14	71 2	53 14	52 32	77 61	- 49	52 46				
Tex.	450	935	132	256	156	156	387	584				
MOUNTAIN Mont.	273	343 3	170 -	222	79 -	78 -	142 -	172 4				
ldaho Wyo.	14 -	28 2	-	19 2	-	- 1	4	3				
Colo. N. Mex.	56 48	63 35	47 29	30 21	15 6	4 7	4 <u>2</u> 11	23 20				
Ariz.	117	119	69	69	48	64	48	66				
Utah Nev.	18 20	30 63	17 8	35 46	6 4	2	6 31	12 44				
PACIFIC Wash.	665 65	1,261 231	127 76	1,276 273	143 22	168 23	809 76	1,034 83				
Oreg.	17	90	36	54	2	6	35	32				
Calif. Alaska	580 2	920 6	- -	935 3	118	138	680 14	846 30				
Hawaii Guam	1	14 10	15	11	1	1	4	43				
P.R.	7	18 14	U U	U U	136	2 73	58	23 50				
V.I. Amer. Samoa	Ü	Ü	U U	U U	Ü	Ü	Ü	Ü				
C.N.M.I.	U	U	U	U	U	U	U	U				

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

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

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 19, 2001, and May 20, 2000 (20th Week)

	i .		1	IVIAY 2		IVVEE	K)					
		<i>ienzae,</i> isive	H A	epatitis (V	iral), By Ty <sub>l</sub> B	ре	Indige	noue	Impo	les (Rubec	ola) Total	
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.		Cum.		Cum.	Cum.	Cum.
Reporting Area UNITED STATES	2001 <sup>†</sup> 545	<b>2000</b> 535	<b>2001</b> 3,499	<b>2000</b> 5,010	<b>2001</b> 2,274	<b>2000</b> 2,515	<b>2001</b> 2	<b>2001</b> 24	2001	<b>2001</b> 20	2001 44	<b>2000</b> 30
NEW ENGLAND Maine N.H. Vt. Mass. R.I.	18 1 - 1 16	43 1 6 3 25	158 3 5 3 48 8	124 6 11 3 50 6	36 3 8 2 3	43 4 8 3 2	- U - - -	3 - - 1 2	- U - - -	1 - - 1	4 - - 1 3	 - - - -
Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	63 25 23 14 1	7 82 30 26 21 5	91 290 93 131 46 20	48 465 92 195 75 103	12 302 54 175 44 29	17 455 45 217 83 110	- - - U	- 2 1 - - 1	- - - U	- 5 4 - 1	- 7 5 - 1 1	10 - 10 -
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	68 32 19 10 3 4	81 26 10 27 6 12	392 97 36 106 138 15	675 124 18 283 207 43	284 51 12 24 197	265 40 20 36 159	- - - - -	-	-	10 3 4 3	10 3 4 3 -	3 2 - - 1
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	23 11 1 9 - 1	26 15 - 7 1 - 2	162 12 17 43 - 1 21 68	375 92 36 176 - - 17 54	79 10 9 41 - 1 8 10	103 7 14 54 2 - 18 8	- - - U - -	4 2 - 2 - -	- - - U - -	-	4 2 - 2 - -	- - - - -
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga.	187 - 44 - 12 4 22 5 49 51	127 - 30 - 27 3 10 3 37 17	711 105 18 55 2 46 23 260 202	473 8 55 - 60 37 84 15 67 147	483 - 57 3 53 12 84 6 121 147	403 5 51 - 57 4 109 3 67 107	U	3 - 2 1 1	- U - - - -	1 - 1	4 - 3 - - - - 1	- - - - - -
E.S. CENTRAL Ky. Tenn. Ala. Miss.	42 1 19 21 1	25 10 11 3	126 18 57 47 4	205 20 75 26 84	141 16 55 36 34	170 34 72 19 45	2 2 - -	2 2 - -	-	- - - -	2 2 - -	- - - -
W.S. CENTRAL Ark. La. Okla. Tex.	20 2 18	31 10 20 1	535 27 34 69 405	932 77 37 126 692	273 41 20 34 178	380 41 65 44 230	- - - -	1 - - 1	- - - -	- - - -	1 - - - 1	- - - -
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	89 - 1 4 20 12 42 3 7	55 - 2 - 11 13 23 4 2	311 4 28 15 29 11 162 27 35	338 1 13 3 70 38 161 25 27	230 1 6 16 47 63 69 11	186 3 4 - 33 56 63 9 18	- - U - - -	-	- - U - - -	1 - 1 - - - - -	1 - 1 - - - - -	9 - - 2 - 3 4
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	35 1 7 24 2 1	65 3 20 25 1 16	814 33 27 743 11	1,423 119 97 1,191 6 10	446 40 18 385 3	510 24 39 439 2 6	- - - -	9 - 1 7 - 1	- - - -	2 - - 1 - 1	11 - 1 8 - 2	8 3 - 5 -
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- - - U U	- 2 - U U	- 41 - U U	1 138 - U U	- 28 - U U	8 93 - 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 115 cases among children aged <5 years, serotype was reported for 55, and of those, eight were type b.

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 19, 2001, and May 20, 2000 (20th Week)

			and ivi	ay 20, 2								
	Disc	jococcal 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	1,089	1,049	8	67	163	62	1,647	2,018	1	7	62	
NEW ENGLAND	66	57	.5	-	2		179	523		-	10	
Maine N.H.	1 7	3 4	U -	-	-	U	16	11 54	U -	-	- 1	
Vt. Mass.	4 37	2 36	-	-	-	-	22 133	98 330	-	-	- 8	
R.I.	2	3	-	-	1	-	1	7	-	-	-	
Conn.	15	9	-	-	1	-	7	23	-	-	1	
MID. ATLANTIC Upstate N.Y.	81 34	101 24	-	2 1	11 5	1 1	101 85	190 92	-	1 1	5 1	
N.Y. City N.J.	20 22	26 22	- U	1	3	Ū	6 2	35	Ū	-	4	
Pa.	5	29	-	-	3	-	8	63	-	-	-	
E.N. CENTRAL	138	186	1	9	16	6	198	266	1	3	-	
Ohio Ind.	49 24	35 21	-	1 1	7 -	4 1	123 18	155 22	-	- 1	-	
III.	20	48	-	6	4	-	21	22	1	2	-	
Mich. Wis.	24 21	59 23	1 -	1 -	4 1	1 -	18 18	18 49	-	-	-	
W.N. CENTRAL	73	67	1	4	8	1	77	76	-	1	1	
Minn. Iowa	10 17	7 15	-	1 -	- 4	-	17 10	39 8	-	- 1	-	
Mo.	25	33		-	2	ū	33	14		-	-	
N. Dak. S. Dak.	3 4	1 4	U -	-	-	U -	3	1 1	U -	-	-	
Nebr. Kans.	5 9	4 3	1	1 2	1 1	- 1	2 12	3 10	-	-	1	
S. ATLANTIC	204	148	6	16	24	5	87	147	_	2	27	
Del.	-	-	Ú	-	-	U	-	3	U	-	-	
Md. D.C.	26	15 -	-	4 -	5 -	-	13 1	<b>3</b> 8	-	-	-	
Va. W. Va.	21 4	28 5	-	2	4	-	10 1	13	-	-	-	
N.C.	44	25	-	-	3	-	30	39	-	-	20	
S.C. Ga.	21 28	11 26	6	1 7	7 2	4	19 3	16 19	-	- 1	5 -	
Fla.	60	38	-	2	3	1	10	19	-	1	2	
E.S. CENTRAL Ky.	76 13	74 14	-	1 1	4	-	38 11	40 25	-	-	4 1	
Tenn.	28	33	-	-	2	-	16	6	-	-	-	
Ala. Miss.	<b>2</b> 8 7	21 6	-	-	2	-	8 3	8 1	-	-	3	
W.S. CENTRAL	159	125	_	7	19	1	53	82	-	-	5	
Ark. La.	10 52	6 33	-	1 2	1 3	-	3 1	10 6	-	-	- 1	
Okla.	17	19	-	-	-	-	1	8	-	-	-	
Tex.	80	67 E1	-	4	15 12	1	48	58 310	-	-	4	
MOUNTAIN Mont.	56 -	51 1	-	6	13 1	41 -	784 6	310 6	-	-	1 -	
ldaho Wyo.	5 1	6	Ū	1 1	- 1	Ū	160 1	38	Ū	-	-	
Colo.	23 8	14	-	1	-	-	135	179	-	-	1	
N. Mex. Ariz.	10	6 16	-	2	1 3	40	49 415	51 26	-	-	-	
Utah Nev.	5 4	6 2	-	- 1	4	1	13 5	7	-	-	-	
PACIFIC	236	240	-	22	66	- 7	130	384	-	-	9	
Wash.	37	22	-	-	2	6	40	114	-	-	9 7	
Oreg. Calif.	16 181	27 180	N -	N 20	N 55	1 -	7 83	36 209	-	-	2	
Alaska Hawaii	1	3	-	1	4 5	-	-	5 20	-	-		
Guam	-	-	- U	-	1	U	-	20	- U	-	1	
P.R.	1	5	U	-	-	U	-	1	U	-	-	
V.I. Amer. Samoa	Ū	Ū	U U	Ū	Ū	U U	Ū	Ū	U U	Ū	Ū	
C.N.M.I.	Ū	Ū	Ü	Ü	Ú	Ū	Ū	Ū	Ü	Ü	Ū	

N: Not notifiable.

U: Unavailable.

TABLE IV. Deaths in 122 U.S. cities,\* week ending May 19, 2001 (20th Week)

May 19, 2001 (20th Week)  All Causes, By Age (Years)  All Causes, By Age (Years)															
	,	All Cau	ises, By	Age (Y	ears)		P&I⁺			All Cau	ises, 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.	. 16 26 40 26 16 ss. 31 . 38 64 . 3	470 114 39 14 21 26 19 12 28 29 50 3 30 31 54 1,524 37 16	3 1 3 8 6 1 2 4 13 8 4 6	46 24 2 1 5 - 2 1 3 - 3 2 2 2	13 7 2 - 1 1 1 - - 1 43 5	12 3 2 - 1 - - 2 1 1 1 1 25 1	79 16 6 1 3 3 2 1 5 5 6 6 1 7 6 17 10 8 3 2 2	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, I Tampa, Fla. Washington, D. Wilmington, De E.S. CENTRAL Birmingham, Al Chattanooga, Te Knoxville, Tenn. Levington, V.	179 48 57 63 Fla. 92 170 C. 200 I. 24 843 a. 174	992 109 122 74 109 117 31 34 42 79 130 121 24 568 113 55 63 326	297 41 49 25 16 38 8 18 14 12 25 51 - 175 42 14 24 6	141 26 34 10 16 13 7 3 2 1 10 19 - 63 15 4 5 3	40 5 8 1 4 5 2 1 3 - 4 7 - 18 3 4 - 2	25 8 5 6 - 1 2 - 1 2 - 1 8 5 1	106 3 20 13 13 25 1 2 5 12 5 7 64 19 2 2 7
Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§ Jersey City, N.J. New York City, N.Y. Newark, 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.	79 20 27 37 49 4. 1,152 U 12 341 34 22 109	10 58 10 30 29 797 U 51 26 18 90 20 14 80 18 16 U	11 3 6 4 14 252 U 3 70 5 2 14 3	7 4 1 3 6 8 0 3 18 3 2 2 6 2 U	3 1 1 20 U 1 8 - 1 1 2	2 14 U - 4 3 U	29112 - 42U - 16313421441U	Lexington, Ky. Memphis, Tenn Mobile, Ala. Montgomery, A Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La Corpus Christi, Dallas, Tex. El Paso, Tex. Houston, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La San Antonio, Te Shreveport, La. Tulsa, Okla.	. 133 76 18 192 1,380 71 . 60 Fex. 58 205 72 117 322 57 . U	26 91 57 44 119 902 50 30 42 123 49 74 204 35 U 212 U 83	23 8 50 280 10 19 10 46 12 32 66 15 U 39 U 31	3 11 7 3 15 131 4 4 5 16 9 8 41 4 U 25 U 15	2 4 1 1 3 35 4 3 1 12 · 3 66 1 U 3 U 2	3 - 5 30 1 4 - 8 2 - 5 2 U 5 U 3	7 12 10 12 74 3 3 4 14 4 5 15 1 1 1 1 1 2
E.N. CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Chicago, Ill. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Grand Rapids, Mi Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, Ill. Rockford, Ill. 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. Wichita, Kans.	199 51 96 49 43 48 96 70 760 50 37 . 36 91	1,142 33 31 10 82 91 112 110 24 47 8 37 121 38 72 34 65 57 532 20 83 30 110 69 53 67 65	18 34 13 7 5 12 58 7 17 8 4 9 25 9 25 9 144 8 7 12 18 12 27 16 17 17 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	111 4 2U 10 917 11 14 23 33 33 11 46 22 39 11 94 64 9	32 1U315151112121321 - 1 18 312 - 417	38 1 - U 6 6 3 3 3 1 7 - 1 6 6 1 3 3 2 2 1 19 1 - 1 3 - 3 2 5 2 2	814U4376p36·195361182 562753p5738	MOUNTAIN Albuquerque, N Boise, Idaho Colo. Springs, C Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, U Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawa Long Beach, Cal Los Angeles, Ca Pasadena, Calif. Portland, Oreg. Sacramento, Ca San Diego, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	47 colo. 67 113 236 18 200 23 tah 129 141 2,056 36 36 18 116. 684 36 127 lift. 208 . 172 calif. U 198 f. 32 142	756 90 44 65 173 15 119 21 99 1,490 65 31 52 64 514 28 84 143 123 U 145 39 96 39 8,376	200 16 5 12 28 51 2 45 16 24 365 4 17 6 24 18 6 24 33 18 6 22 15 17 2 17 2 2 2 2 3 3 4 17 18 18 2 4 17 18 18 18 18 18 18 18 18 18 18	88 11 2 9 15 10 12 8 109 7 7 3 4 31 2 8 8 17 6 U 10 2 14 3 2 8 7 8 7 8 8 7 8 8 7 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	32 3 - 1 3 2 - 8 16 8 52 - 2 1 2 13 - 6 3 8 U 2 3 6 2 4 2 8 3 2 4 2 3 6 2 4 2 3 6 2 4 2 4 3 6 2 4 4 3 6 2 4 4 2 4 3 6 2 4 4 4 4 2 4 3 4 4 4 4 2 4 3 4 4 4 4 4	19 2 - 1 2 1 - 6 - 5 2 37 - 2 2 - 3 3 - 4 2 2 - 4 2 2 - 2 2 2 3	86 11 4 3 10 19 1 8 2 13 15 165 8 1 4 12 4 2 16 2 10 5 5 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1

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.

when Td is not available, TT is not available for national distribution. Existing stocks of TT are extremely limited and are mainly reserved for production of tetanus immune globulin and other special circumstances.

Health-care providers and institutions requiring Td for priority indications should contact Aventis Pasteur, telephone (800) 822-2463 or (800) VACCINE. Institutions should place orders for their anticipated needs for priority indications only. Limiting quantities of vaccine in each order is necessary to assure the widest possible distribution of available vaccine. For emergency situations (e.g., natural disasters) requiring increased use of Td, Aventis Pasteur can provide vaccine within 24 hours.

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- 1. CDC. Update on the supply of tetanus and diphtheria toxoids and of diphtheria and tetanus toxoids and acellular pertussis vaccine. MMWR 2001;50:189–90.
- 2. CDC. Shortage of tetanus and diphtheria toxoids. MMWR 2000;49:1029-30.
- Immunization Practices Advisory Committee. Diphtheria, tetanus, and pertussis: recommendations for vaccine use and other preventive measures—recommendations of the Immunization Practices Advisory Committee (ACIP). MMWR 1991;40(no. RR-10).

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In the article, "Update: Syringe Exchange Programs — United States, 1998," on page 387, an error occurred in the fourth sentence of the last paragraph. It should read, "Assuring availability of sterile syringes for IDUs who continue to inject is only one component of a comprehensive approach to HIV prevention for IDUs."

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