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Prevalence of Selected Cardiovascular Disease Risk Factors Among American Indians and Alaska Natives — United States, 1997

Heart disease and stroke, the principal causes of cardiovascular disease (CVD), are the first and fifth leading causes of death among American Indians and Alaska Natives (Al/AN) (1,2). Risk factors for CVD frequently cluster, which may increase CVD risk multiplicatively (3). To characterize the prevalence of risk factors for CVD (i.e., hypertension, current cigarette smoking, high cholesterol, obesity, and diabetes) among Al/AN, CDC analyzed data from the 1997 Behavioral Risk Factor Surveillance System (BRFSS). This report summarizes the results of that analysis, which indicated that 63.7% of Al/AN men and 61.4% of Al/AN women who participated in the survey had one or more CVD risk factors.

BRFSS is an ongoing state-based, random-digit-dialed telephone survey of the U.S., noninstitutionalized civilian population. Self-reported data were analyzed for the 1820 Al/AN aged ≥18 years who participated in the 1997 BRFSS in 50 states and the District of Columbia (DC). Identification of race as AI/AN was based on response to the question, "What is your race?" Awareness of hypertension, high cholesterol, and diabetes was determined by the response to, "Have you even been told by a doctor or other health professional that you have (hypertension, high cholesterol, diabetes)." Current smoking status was defined as having smoked at least 100 cigarettes during one's lifetime and still smoking at the time of the survey. Self-reported data on height and weight were used to calculate body mass index (BMI). Obesity was defined as a BMI ≥30 kg/m². Persons defined as employed were either employed for wages or self-employed, regardless of the number of hours spent on the job. The 50 states and DC were grouped into the four geographic regions defined by the U.S. Bureau of the Census (1). Sample estimates were weighted by sex, age, and race to reflect the state's noninstitutionalized civilian population. To account for the complex sampling design, SUDAAN was used for data analysis (4).

Of the 1820 Al/AN BRFSS participants, 46.3% were women; 63.3% were aged 18–44 years, 25.6% were 45–64 years, and 11.1% were ≥65 years (mean: 42.4 years; standard deviation=16.2); 15.9% were college graduates; 60.2% were employed; and 49.8% ranked their health status as excellent or very good. The largest percentage of Al/AN participants in the BRFSS lived in the West (47.4%), followed by the South (25.9%),

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the Midwest (17.4%) and the Northeast (9.3%).*

Approximately 22% of participants reported being told by a health professional that they had hypertension (women=23.0%, men=21.0%). Thirty-one percent reported they were current smokers (men=32.8%; women=28.8%). Approximately 16% were told by a health professional that they had high cholesterol, and 7% were told they had diabetes. Awareness of high cholesterol and diabetes was higher among women (17.6% and 9.1%, respectively) than men (13.8% and 5.5%, respectively). Nearly one fourth (23.6%) of men and nearly one fifth (19.1%) of women were categorized as obese (21.5% of all Al/AN).

Among Al/AN men, 36.3% reported having none of the selected CVD risk factors, 41.4% reported having one risk factor, and 22.3% reported having ≥2 risk factors (Table 1). Among Al/AN women, 38.6% reported having no CVD risk factors, 37.7% reported having one risk factor, and 23.7% reported having ≥2 risk factors.

The prevalence of having one or more CVD risk factors increased with increasing age (Table 1). The prevalence of having ≥ 2 risk factors was highest among respondents aged ≥ 65 years. The prevalence of having ≥ 2 CVD risk factors varied inversely with level of education (Table 1). Approximately 25% of Al/AN men with less than a high school education reported having ≥ 2 CVD risk factors, compared with approximately 15% of Al/AN men who were college graduates. Al/AN women with less than a high school education were almost three times more likely to report having ≥ 2 risk factors than were Al/AN women who had graduated from college. The percentage of having ≥ 2 risk factors was almost three times higher among unemployed women than employed women.

Half of the respondents who reported their health status as fair or poor reported having ≥2 CVD risk factors (women=51.8%; men=50.0%) compared with approximately one eighth of respondents who reported their health status as excellent or very good (women=13.3%; men=13.2%) (Table 1).

The number of reported CVD risk factors varied by geographic region (Table 1). For men, the prevalence of having ≥ 2 risk factors was highest in the Midwest (26.1%) and lowest in the Northeast (13.8%). Less geographic variation was observed among women. The prevalence of having ≥ 2 risk factors was highest in the Northeast (28.0%) and lowest in the West (20.0%).

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^{*}Northeast=Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; *Midwest*=Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; South=Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and West=Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

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Continued

TABLE 1. Weighted percentage of self-reported CVD risk factors* among American Indians/Alaska Natives, by sex and selected characteristics — Behavioral Risk Factor Surveillance System, United States, 1997

			Risk	factors	among m	en	Risk factors among women									
			0		1		≥ 2			0		1		≥2		
Characteristic	No.†	%	95% CI [§]	%	95% CI	%	95% CI	No.	%	95% CI	%	95% CI	%	95% CI		
Age (yrs)																
18–44	484	42.4	± 7.9	42.2	± 7.7	15.4	± 4.9	613	49.5	± 7.7	34.8	± 7.4	15.7	± 4.7		
45–64	232	27.8	±11.2	40.9	±12.0	31.3	±11.2	267	23.3	± 9.2	41.4	±13.0	35.2	±12.3		
≥65	82	14.8	± 9.6	37.9	±17.1	47.2	±18.1	132	18.1	± 9.5	44.4	±15.8	37.5	±13.8		
Education																
<high school<="" td=""><td>175</td><td>40.8</td><td>±15.4</td><td>33.7</td><td>±14.5</td><td>25.6</td><td>±11.9</td><td>227</td><td>20.3</td><td>±10.2</td><td>41.0</td><td>±13.7</td><td>38.7</td><td>±12.7</td></high>	175	40.8	±15.4	33.7	±14.5	25.6	±11.9	227	20.3	±10.2	41.0	±13.7	38.7	±12.7		
High school	295	32.1	±10.5	42.5	±10.3	25.4	± 8.8	318	40.7	± 9.6	34.6	± 9.3	24.7	± 8.0		
Some college/																
Tech school	210	29.9	±10.3	49.8	±11.1	20.3	± 8.7	331	40.9	±11.5	43.9	±11.9	15.3	± 6.5		
College graduate	119	48.5	±13.8	36.7	±13.9	14.8	± 8.3	137	58.6	±15.2	28.0	±14.4	13.5	± 8.4		
Employment status																
Employed	515	39.7	± 7.5	39.4	± 7.3	20.9	± 6.0	555	46.8	± 8.5	40.6	± 8.7	12.6	± 4.3		
Unemployed	285	28.9	±10.9	45.7	±11.0	25.4	± 8.4	458	30.5	± 7.9	35.1	± 8.4	34.4	± 8.0		
Health status																
Excellent/Very good	390	40.6	± 8.2	46.2	± 8.4	13.2	± 5.0	454	53.9	± 8.5	32.8	± 7.8	13.3	± 5.1		
Good	251	34.6	±11.7	46.5	±11.8	18.9	± 9.1	342	34.6	±10.3	47.0	±11.9	18.4	± 6.6		
Fair/Poor	158	27.4	±16.1	22.6	±10.3	50.0	±14.8	219	13.4	± 7.7	34.8	±12.0	51.8	±12.4		
Region [¶]																
Northeast	53	58.3	±18.6	28.0	±17.3	13.8	± 9.9	77	46.0	±14.9	26.0	±12.0	28.0	±14.3		
Midwest	165	28.3	±11.6	45.6	±11.5	26.1	± 9.1	198	30.3	± 9.8	43.2	±10.5	26.4	± 8.8		
South	150	35.5	± 9.8	42.1	±10.3	22.4	± 8.5	193	34.8	± 8.6	38.5	±10.2	26.6	± 9.3		
West	433	36.3	±10.3	41.5	±10.1	22.3	± 8.2	551	41.8	±10.4	38.2	±10.6	20.0	± 7.3		
Total	801	36.3	± 6.2	41.4	± 6.1	22.3	± 4.9	1019	38.6	± 5.8	37.7	± 6.1	23.7	± 4.8		

^{*} Risk factors include hypertension, current cigarette smoking, high blood cholesterol, obesity, and diabetes.

[†] Unweighted sample size and numbers may not add to total because of missing data.

[§] Confidence interval.

Northeast=Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; Midwest=Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; South=Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and West=Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

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Editorial Note: The findings in this report document the prevalence of selected CVD risk factors among AI/AN by sociodemographic characteristics and are consistent with previous findings that CVD risk factors and death rates are not uniformly distributed across regions among Al/AN (2,5). Higher CVD death rates have been reported among Al/AN residing in the Midwest (2); data from this study indicate that Al/AN men residing in the Midwest were most likely to report having ≥2 CVD risk factors. Geographic variation in risk factors and death rates may reflect differences in cultural backgrounds, historical circumstances, and socioeconomic conditions. Prevalence estimates probably are influenced by sociodemographic factors (i.e., age distribution, educational attainment, employment status, and poverty), lifestyle (i.e., physical inactivity), aspects of the social environment (i.e., educational and economic opportunities), and factors affecting the health-care system (i.e., access to health care, cost, and availability of screening for diseases and risk factors). Higher prevalences of multiple CVD risk factors among AI/AN participants who were either unemployed or had completed less than a high school education corroborate the well-documented influence of low socioeconomic status on CVD risk factors.

The findings in this report are subject to at least five limitations. First, estimates of CVD risk factors are based on self-reported data and are subject to the biases associated with self-reported data. Second, these results probably underestimate the prevalence of CVD risk factors because the data are dependent on the respondent being aware of his risk factor profile. Third, data on physical inactivity, a risk factor for CVD, was not collected in the 1997 BRFSS survey. If data on physical activity levels had been included, the prevalence of CVD risk factors among Al/AN probably would have been higher. Fourth, approximately 23% of Al/AN households do not have a telephone (6); these findings could underestimate the prevalence of CVD risk factors among Al/AN because persons without telephones are more likely to be of lower socioeconomic status and to have higher risk for disease (7). Finally, BRFSS does not collect information on reservation residency or tribal affiliation. Aggregating the Al/AN participants into relatively large geographic regions may mask important differences among the tribes.

The percentages of Al/AN with multiple CVD risk factors highlight the importance of enhancing primary prevention activities among communities of Al/AN. Through CDC's Racial and Ethnic Approaches to Community Health (REACH 2010) Project (8), two Al/AN communities are developing effective and sustainable programs designed to eliminate racial/ethnic disparities in CVD and diabetes. Another activity is the Inter-Tribal Heart Project, a collaboration between CDC, the Indian Health Service, and three tribal communities to determine the prevalence of risk factors for heart disease and to implement community-based heart disease prevention programs (9). Reducing the prevalence of CVD risk factors among Al/AN requires an understanding of the diversity of cultural values and practices among Al/AN, and historical circumstances that contributed to the current socioeconomic conditions. Therefore, tribal-specific assessments of CVD risk factor profiles and CVD morbidity and mortality profiles are needed to develop culturally relevant CVD prevention programs and policies that support heart-healthy living and working conditions for Al/AN.

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HIV/AIDS Among Men Who Have Sex With Men and Inject Drugs — United States, 1985–1998

Men who have sex with men and inject drugs (MSM/IDU) pose unique challenges for human immunodeficiency virus (HIV) risk reduction efforts because they have multiple risks for HIV acquisition and transmission. This report presents 1) the demographic characteristics of MSM/IDU diagnosed with acquired immunodeficiency syndrome (AIDS) in 1998 and MSM/IDU living with AIDS as of December 31, 1998; 2) trends in AIDS incidence among MSM/IDU from 1985 to 1998; and 3) information on selected behaviors from interviews of MSM/IDU who had AIDS diagnosed from 1996 to 1998 in 12 states.* The findings indicate that 1) over half of MSM/IDU with AIDS were non-Hispanic blacks and Hispanics, and most MSM/IDU with AIDS were reported from large metropolitan statistical areas (MSAs); 2) AIDS incidence has declined since 1996; and 3) a high prevalence of drug-related and sexual risk behaviors occurred among MSM/IDU with AIDS.

Demographic and risk characteristics of MSM/IDU aged ≥13 years with AIDS reported to CDC were obtained from AIDS surveillance data in the 50 states, the District of Columbia, and all U.S. territories. Risk information for AIDS surveillance generally was obtained from medical records. For this analysis, only persons with the reported dual risk factors for HIV transmission of male-male sex and injecting-drug use were included. AIDS diagnoses were adjusted for reporting delays on the basis of cases reported to CDC through December 1999, and for the anticipated reclassification of cases initially reported without risk (1,2).

^{*}Arizona, California, Colorado, Connecticut, Delaware, Florida, Georgia, Michigan, New Jersey, New Mexico, South Carolina, and Washington.

Information on selected behavioral characteristics of MSM/IDU with AIDS was obtained from the Supplement to HIV/AIDS Surveillance (SHAS) project (3). SHAS is a cross-sectional interview study aimed at extending information routinely collected in AIDS surveillance. Persons aged ≥18 years recently reported with HIV/AIDS to the 12 health departments participating in SHAS were interviewed about their sexual and drug-related risk behaviors. Interview data are presented for men who were classified as MSM/IDU on the HIV/AIDS case report or who reported male-male sex and injecting-drug use in the SHAS interview.

Trends Among MSM/IDU

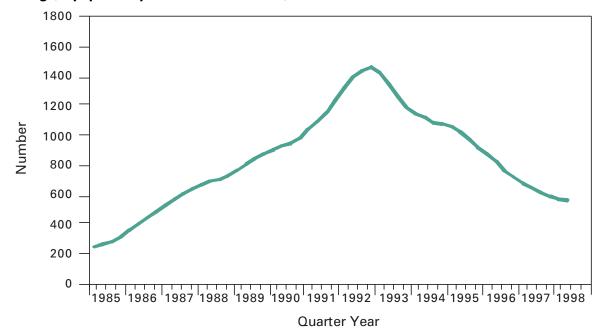
The proportion of all AIDS cases among MSM/IDU decreased from 8% in 1990 to 5% in 1998; 2161 MSM/IDU had AIDS diagnosed in 1998, and 18,133 MSM/IDU were living with AIDS as of December 1998 (Table 1). Most were diagnosed in large MSAs (≥1,000,000 persons) and in the South and West.[†]Non-Hispanic blacks and Hispanics accounted for more than half of each group.

AIDS incidence among MSM/IDU increased steadily from 1985 to 1992, and peaked during 1992–1993 (Figure 1), corresponding with the 1993 expansion of the AIDS surveillance case definition. AIDS incidence declined 37% from 1996 to 1998.

Interviews of MSM/IDU

A total of 513 MSM/IDU who had AIDS diagnosed during 1996–1998 were interviewed for the SHAS project. Of these, 435 (85%) were aged 30–49 years. Non-Hispanic blacks, non-Hispanic whites, and Hispanics accounted for 36%, 42%, and 17%,

FIGURE 1. Estimated incidence* of AIDS among men who have sex with men and inject drugs, by quarter year — United States, 1985–1998



^{*}Adjusted for reporting delays and unreported risk.

[†]South=Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and West=Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

TABLE 1. Estimated number and percentage of AIDS cases diagnosed in 1998* among men who have sex with men and inject drugs (MSM/IDU) and number of MSM/IDU living with AIDS* as of December 31, 1998, by selected characteristics — United States

	_	I/IDU with diagnosed	MSM/IDU living with AIDS				
Characteristic	No.	(%)†	No.	(%)			
Age group (yrs)⁵							
13–19	5	(0.2)	8	(0.0)			
20–29	258	(11.9)	1,011	(5.6)			
30–39	1,009	(46.7)	8,221	(45.3)			
40–49	695	(32.1)	7,018	(38.7)			
50–59	161	(7.5)	1,604	(8.8)			
≥60	35	(1.6)	271	(1.5)			
Race/Ethnicity							
White, non-Hispanic	882	(40.8)	8,803	(48.5)			
Black, non-Hispanic	891	(41.2)	6,288	(34.7)			
Hispanic	350	(16.2)	2,804	(15.5)			
Asian/Pacific Islander	15	(0.7)	84	(0.5)			
American Indian/Alaska Native	21	(0.9)	138	(0.8)			
Region [¶]							
Northeast	359	(16.6)	3,047	(16.8)			
Midwest	221	(10.2)	1,986	(11.0)			
South	956	(44.2)	7,133	(39.3)			
West	557	(25.8)	5,378	(29.7)			
U.S. territory	68	(3.1)	589	(3.2)			
Metropolitan statistical area (MSA)							
≥1,000,000	1,466	(67.8)	12,790	(70.5)			
500,000-999,999	188	(8.7)	1,328	(7.3)			
50,000-499,999	256	(11.9)	2,309	(12.7)			
<50,000	201	(9.3)	1,436	(7.9)			
Non-MSA/Unknown	50	(2.3)	269	(1.5)			
Total	2,161	(100.0)	18,133	(100.0)			

^{*} Adjusted for reporting delays and risk redistribution.

respectively; Asians/Pacific Islanders and American Indians/Alaska Natives accounted for <2%. The South and the West accounted for 42% and 51% of respondents, respectively, reflecting the geographic distribution of SHAS sites.

MSM/IDU interviewed in SHAS had high rates of high-risk sexual and drug-related risk behaviors (Table 2). Eighty-two percent of MSM/IDU had ever used noninjecting drugs, and 61% of MSM/IDU had ever used crack cocaine. Of those injecting drugs

[†] Percentages may not add to 100% because of rounding.

[§] Age at time of diagnosis for persons with AIDS. Age as of December 31, 1998, for persons living with AIDS.

Northeast=Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; Midwest=Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; South=Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; West=Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming; and U.S. territory=Guam, Pacific Islands, Puerto Rico, and Virgin Islands.

TABLE 2. Prevalence of sex and drug-use behaviors among men who have sex with men and inject drugs who had AIDS diagnosed, Supplement to HIV/AIDS Surveillance project — selected states*, January 1996–December 1998[†]

Characteristic	No.	(%)
Had used noninjecting drugs during previous 5 years	422	(82.3)
Had ever used crack	311	(60.6)
Had used crack during previous year	153	(29.8)
Had injected drugs during previous 5 years	174	(34.1)
Of those who injected during previous 5 years, shared needles	79	(45.1)
Drug treatment during previous 5 years	209	(40.7)
Had sex with a man during previous 5 years	390	(76.0)
Had receptive anal intercourse (RAI) with men during previous year	185	(36.1)
Always used condom with RAI in previous year	<i>83</i>	(44.9)
Had insertive anal intercourse (IAI) with men during previous year	48	(9.4)
Always used condom with IAI during previous year	25	(52.1)
Had sex with a woman during previous 5 years	219	(42.7)
Had vaginal intercourse (VI) during previous year	127	(24.8)
Always used condom with VI during previous year	67	(52.8)
Received money for sex during previous 5 years	94	(18.3)
Always used condom with exchange during previous 5 years	44	(46.8)
Received drugs for sex during previous 5 years	101	(19.7)
Always used condom with exchange during previous 5 years	27	(26.7)

^{*}Arizona, California, Colorado, Connecticut, Delaware, Florida, Georgia, Michigan, New Jersey, New Mexico, South Carolina, and Washington.

† n=513.

during the 5 years preceding the interview, 45% had shared needles. Seventy-six percent of MSM/IDU had sex with men during the 5 years preceding the interview, and 43% had sex with women. Nearly half of those who had sex during the year preceding the interview did not always use condoms. However, consistent condom use was higher when the steady sex partner was known to be uninfected: 61% who had vaginal intercourse, 57% who had insertive anal intercourse with a man, and 61% who had receptive anal intercourse with a man during the year preceding the interview said that they had always used condoms. During the 5 years preceding interview, 18%–20% of MSM/IDU exchanged sex for money or drugs.

To assess the degree to which multiple risks are captured in AIDS surveillance, risk classification of the MSM/IDU interviewed in SHAS was examined in AIDS surveillance. Of the 513 MSM/IDU, 352 (69%) were classified as MSM/IDU in AIDS surveillance, 106 (21%) were classified as MSM, 50 (10%) were classified as IDU, and two (0.4%) were classified as having had heterosexual contact or contact with an adult with hemophilia.

Reported by: State and territorial health departments; Div of HIV/AIDS Prevention–Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention; and an EIS Officer, CDC.

Editorial Note: The findings in this report document continued declines in AIDS incidence among MSM/IDU since 1996, which resulted in large part from increased use of antiretroviral therapies that delay disease progression (4) and also reflect earlier decreases in HIV incidence among MSM/IDU. The supplemental interview information in a sample of MSM/IDU with AIDS indicates a high prevalence of drug-related and sexual risk behaviors, including sex with men and women. Previous studies have reported similar findings (5,6).

Differences in the racial/ethnic, age, and regional distribution of incident and prevalent AIDS cases reflect some differences in historical patterns of HIV incidence. Those include the later onset of the HIV epidemic in the South compared with the West and the Northeast, and the increasing impact on racial/ethnic minorities (7,8). In addition, differences in AIDS incidence and prevalence may reflect differential access to or use of effective antiretroviral treatments. Integrated surveillance for HIV infection and AIDS characterizes persons more recently infected with HIV (9).

Non-Hispanic black and Hispanic men were overrepresented among MSM/IDU, accounting for half of MSM/IDU living with AIDS but 22% of the general male population. Race/ethnicity is not a risk factor for HIV infection; social and economic factors associated with race/ethnicity, such as high poverty rates and unemployment and lack of access to health care, are associated with high rates of risk behavior (10).

Behavioral risk information for HIV is important to assure that state/local prevention programs are directed to appropriate populations. If providers do not elicit this information or are reluctant to question patients about their sexual and drug-using behaviors, then information in medical records may underrepresent true risks for HIV in the population. Data from the SHAS interviews show that the AIDS surveillance system may have underestimated the number of MSM/IDU and that the true proportion of AIDS cases attributable to MSM/IDU in 1998 may be 7%.

Because MSM/IDU have multiple risks for HIV infection, they are particularly vulnerable to infection and can transmit HIV across multiple populations, including MSM, IDU, and heterosexual women. Prevention strategies must provide the information, skills, and support necessary to reduce both sexual and drug-related risk behaviors among MSM/IDU, and include access to drug treatment and to prevention case management. Additional research is needed to determine whether risk reduction strategies that have been effective for groups with single risks also are effective for groups with multiple risks. HIV/AIDS disease surveillance supplemented with behavioral surveys will help in planning prevention, treatment, and other services needed to reduce transmission and to improve survival and quality of life for infected persons.

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Heat-Related Illnesses, Deaths, and Risk Factors — Cincinnati and Dayton, Ohio, 1999, and United States, 1979–1997

During the summer of 1999, a heat wave* occurred in the midwestern and eastern United States. This period of hot and humid weather persisted from July 12 through August 1, 1999, and caused or contributed to 22 deaths among persons residing in Cincinnati (18 deaths) and Dayton (four deaths). A CDC survey of 24 U.S. metropolitan areas indicated that Ohio recorded some of the highest rates for heat-related deaths during the 1999 heat wave, with Cincinnati reporting 21 per million and Dayton reporting seven per million (CDC, unpublished data, 1999). This report describes four heat-related deaths representative of those that occurred in Cincinnati or Dayton during the 1999 heat wave, summarizes heat-related deaths in the United States during 1979–1997, describes risk factors associated with heat-related illness and death, and recommends preventive measures.

Case Reports

Case 1. In July 1999, a 34-year-old woman with schizophrenia was found dead in a group home in Cincinnati at 9 a.m. A caretaker discovered the decedent lying on the couch of a second-floor living room; two windows were open and fans were blowing. The decedent was last seen alive around noon the previous day. She had a medical history of hypertensive heart disease, asthma, and swelling of the ankles for which she had been taking a diuretic, furosemide. The temperature inside the home at the time of her death was unknown; however, the ambient temperature was 92.1 F (33.4 C) when the decedent was found. Her liver core temperature was 106.2 F (41.2 C). The Hamilton County Coroner's Office attributed the death to heatstroke.

Case 2. In July 1999, an 84-year-old man was found dead in his Dayton residence. He lived alone and was found lying in bed, supine and nude. The doors to his home were locked and all the windows were shut. When the body was discovered, the temperature inside the home was approximately 86 F (30 C). A fan was blowing air toward the ceiling, an air conditioner was present but not running, and the thermostat was set in the heat mode. The temperature in Dayton that day reached >90 F (>32 C) with high humidity. An autopsy report indicated the decedent suffered from arteriosclerosis and hypertensive cardiovascular disease. The Montgomery County Coroner's Office attributed the death to exposure to excessive environmental heat.

Case 3. In July 1999, a 65-year-old man was found in his residence by a neighbor, unresponsive and having seizures. Following transport to the emergency department of a local hospital by the Cincinnati Fire Division, the patient had a rectal temperature of

^{*}Three or more consecutive days of air temperatures $\geq 90 \text{ F}$ ($\geq 32.2 \text{ C}$).

Heat-Related Illnesses — Continued

108 F (42.2 C) and subsequently died. The decedent had a history of chronic alcoholism and hypertensive cardiovascular disease. He lived alone in an attic apartment without air conditioning. The Hamilton County Coroner's Office attributed the death to hypoxic encephalopathy following resuscitation for heatstroke.

Case 4. In August 1999, a 24-year-old man was found lying face down on the living room floor of his Dayton apartment in an early stage of decomposition. The room temperature was 99 F (37.2 C), and the apartment had no air conditioning. The decedent lived alone and was last seen alive 3 days earlier at his home by a neighbor. The decedent had a history of mental illness and depression and had been taking benztropine. The Montgomery County Coroner's report listed the probable cause of death as cardiac arrhythmia caused by hyperthermia resulting from exposure to high environmental temperature.

United States

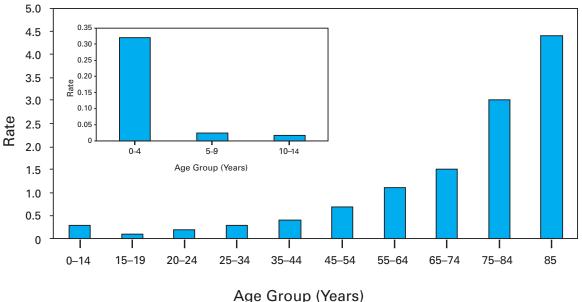
During 1979-1997, the most recent years for which data are available, an annual average of 371 deaths in the United States (1) were attributable to "excessive heat exposure"[†] (median: 249; range: 148 in 1979 to 1700 in 1980) (5). This translates into a mean annual death rate of 1.5 per million and a median annual death rate of one per million. Because of a record heat wave, the heat-related death rate for 1980 was more than three times higher than that for any other year during the 19-year period. The median annual death rate for hyperthermia in persons aged ≥65 years was three per million. During 1979–1997, 7046 deaths were attributable to excessive heat exposure: 3010 (43%) were "due to weather conditions," 351 (5%) to heat "of manmade origin," and 3683 (52%) "of unspecified origin." Of the 2954 persons whose deaths were caused by weather conditions and for whom age data were available, persons aged ≥65 years accounted for 1783 (44%) deaths, and persons aged ≤14 years accounted for 127 (4%) deaths. Except children aged ≤14 years, the average annual rate of heat-related deaths increased with each age group, particularly for persons aged ≥65 years (Figure 1). During 1979–1997, among persons of all ages, the annual death rate "due to weather conditions" was two times higher for men (0.8 per million) than for women (0.4 per million), and more than three times higher for blacks (1.6 per million) than for whites (0.5 per million). Arizona and Missouri (four per million) and Arkansas and Kansas (three per million) had the highest annual age-adjusted rates for heat-related deaths "due to weather conditions" (1).

Reported by: MP Adcock, PhD, City of Cincinnati. WH Bines, MS, Montgomery County; FW Smith, MD, State Epidemiologist, Ohio Dept of Health. Health Studies Br, Div of Environmental Hazards and Health Effects, National Center for Environmental Health; and an EIS Officer, CDC.

The National Association of Medical Examiners' (NAME) definition for heat-related death includes exposure to high ambient temperature either causing the death or as substantially contributing to it, cases where the body temperature at time of collapse was ≥ 105 F (≥ 40.6 C), and a history of exposure to high ambient temperature and the reasonable exclusion of other causes of hyperthermia (1). Because death rates from other causes (e.g., cardiovascular and respiratory disease) increase during heat waves (2–4) (defined by the National Weather Service as ≥ 3 consecutive days of temperature > 90 F [≥ 32.2 C]), deaths classified as caused by hyperthermia represent only a portion of heat-related death.

Heat-Related Illnesses — Continued

FIGURE 1. Average annual rate* of heat-related deaths[†], as the result of weather conditions, by age group — United States, 1979–1997



*Per 1 million population.

Editorial Note: Behavioral and environmental precautions are essential to preventing illness and death[§] associated with heat waves or sustained periods of hot weather (daytime heat index[¶] of \geq 105 F [\geq 40.6 C] and a nighttime minimum temperature of 80 F [26.7 C] persisting for at least 48 hours) (6).

Illnesses associated with high environmental temperatures include heatstroke (hyperthermia), heat exhaustion, heat syncope, and heat cramps (2). Heatstroke is a medical emergency characterized by the rapid onset and increase (within minutes) of the core body temperature to ≥ 105 F (≥ 40.6 C), lethargy, disorientation, delirium, and coma (2). Heatstroke is often fatal despite rapidly lowering the body temperature (e.g., ice baths), because frequently irreparable neurologic damage has occurred (2). Heat exhaustion is characterized by dizziness, weakness, or fatigue often following several days of sustained exposure to hot temperatures, and results from dehydration or electrolyte imbalance (2); treatment includes replacing fluids and electrolytes and may require hospitalization (2). Physical exertion during hot weather increases the likelihood of heat syncope and heat cramps caused by peripheral vasodilation (2). Persons who lose consciousness because of heat syncope should be placed in a recumbent position

[†] Underlying cause of death attributed to excess heat exposure classified according to the *International Classification of Diseases, Ninth Revision* (ICD-9), as code E900.0 "due to weather conditions (deaths)."

Underlying cause of death attributed to "excessive heat exposure," classified according to the *International Classification of Diseases, Ninth Revision* (ICD-9), code E900.0, "due to weather conditions" (deaths); code E900.1, "of manmade origin" (deaths); or code E900.9, "of unspecified origin" (deaths). Data were obtained from the Compressed Mortality File of CDC's National Center for Health Statistics, which contains information from death certificates filed in 50 states and the District of Columbia. All rates were age-standardized to the 1990 U.S. population.

[¶] Heat index is a measure of the effect of combined elements (e.g., heat and humidity) on the body.

Heat-Related Illnesses — Continued

with feet elevated and given fluid and electrolyte replacement (2). For heat cramps, physical exertion should be discontinued and fluids and electrolytes replaced (2,7).

All persons are at risk for hyperthermia when exposed to a sustained period of excessive heat (2); however, factors that increase the risk for hyperthermia and heat-related death include age (e.g., the elderly), chronic health conditions (e.g., cardiovascular disease or respiratory diseases), mental illness (e.g., schizophrenia), social circumstances (e.g., living alone), and other conditions that might interfere with the ability to care for oneself (2,3). Other risk factors are alcohol consumption, which may cause dehydration, previous heatstroke, physical exertion in exceptionally hot environments, the use of medications that interfere with the body's heat regulatory system, such as neuroleptics (e.g., antipsychotics and major tranquilizers), and medications with anticholinergic effects (e.g., tricyclic antidepressants, antihistamines, some antiparkinsonian agents, and some over-the-counter sleep medication [2-4]). Persons working in hot indoor or outdoor environments should take 10-14 days to acclimate to high temperatures. Although adequate salt intake is important, salt tablets are not recommended and can be hazardous to some persons (2). Although the use of fans may increase comfort at temperatures <90 F (<32.2 C), fans are not protective against heatstroke when temperatures reach \geq 90 F (\geq 32.2 C) and humidity exceeds 35% (2,4).

Measures for preventing heat-related illness and death during a heat wave include spending time in air conditioned environments, increasing nonalcoholic fluid intake, exercising only during cooler parts of the day, and taking cool baths (2). Elderly persons should be encouraged to take advantage of air conditioned environments (e.g., shopping malls, senior centers, and public libraries), even for part of the day (2–4). Public health information about exceptionally high temperatures should be directed toward persons aged \geq 65 years and <5 years. Parents should be educated about the heat sensitivity of children aged <5 years (2), and should never leave them unattended, especially in motor vehicles. When a heat wave is predicted, friends, relatives, neighbors, and caretakers should check frequently on elderly, disabled, mentally ill, chronically ill, and home-bound persons, and during periods of high temperatures, prevention messages should be disseminated to the public as early and often as possible.

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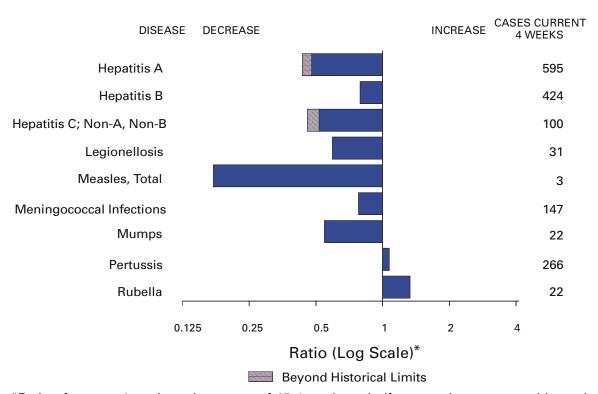
Erratum: Vol. 48, No. 22

In the article, "Heat-Related Illnesses and Death — Missouri, 1998, and United States 1979–1996," on page 471, the legend below Figure 1 should read: †Underlying cause of death attributed to excessive heat exposure classified according to the *International Classification of Diseases, Ninth Revision*, as code E900.0, "due to weather conditions," code E900.1, "of manmade origin," or code E900.9, "of unspecified origin."

Erratum: Vol 49, No. 19

In the article "Cause-Specific Adult Mortality: Evidence From Community-Based Surveillance—Selected Sites, Tanzania, 1992–1998," on page 416, the district location of Dar es Salaam was misidentified. The first sentence of the second paragraph should read: The AMMP surveillance project was conducted in a low-income and in a middle-income section of the city of Dar es Salaam, in part of a region ranked by the Tanzanian government as being among the 50% most deprived in Tanzania (i.e., Morogoro Rural District in Morogoro Region), and in part of a region ranked as one of the 15% least deprived (i.e., Hai District in Kilimanjaro Region) (1).

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending May 27, 2000, with historical data



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

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending May 27, 2000 (21st Week)

		Cum. 2000		Cum. 2000
Anthrax		_	HIV infection, pediatric*§	85
Brucellosis*		15	Plague	2
Cholera		-	Poliomyelitis, paralytic	-
Congenital ru	bella syndrome	4	Psittacosis*	6
Cyclosporiasis	s* ,	5	Rabies, human	-
Diphtheria		1	Rocky Mountain spotted fever (RMSF)	57
Encephalitis:	California serogroup viral*	2	Streptococcal disease, invasive, group A	1,245
•	eastern equine*	-	Streptococcal toxic-shock syndrome*	45
	St. Louis*	-	Syphilis, congenital [¶]	38
	western equine*	-	Tetanus	9
Ehrlichiosis	human granulocytic (HGE)*	28	Toxic-shock syndrome	56
	human monocytic (HME)*	6	Trichinosis	4
Hansen diseas	se (leprosy)*	14	Typhoid fever	104
	ulmonary syndrome*†	4	Yellow fever	· -
	emic syndrome, postdiarrheal*	31		

^{-:} No reported cases.

^{*}Not notifiable in all states.

†Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).

§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 30, 2000. Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending May 27, 2000, and May 29, 1999 (21st Week)

	411	20	Oh I		0				coli O157:H	
	Cum.	Cum.	Cum.	nydia [†] Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting Area UNITED STATES	2000 [§] 13,355	1999 18,500	2000 211,016	1999 274,013	2000 438	1999 653	2000 627	1999 510	2000 376	1999 453
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	802 14 11 2 535 34 206	940 22 25 6 614 61 212	8,511 516 413 216 4,093 952 2,321	8,539 362 431 202 3,607 953 2,984	25 5 2 10 6 2	33 4 5 6 15	74 5 5 2 32 32 3	79 4 9 8 35 4	58 4 4 2 26 -	76 - 10 1 35 6 24
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	3,280 186 1,943 703 448	4,449 529 2,109 957 854	12,606 N 2,188 2,355 8,063	31,478 N 15,182 5,089 11,207	42 31 6 1 4	149 44 86 11 8	79 74 4 1 N	33 25 2 6 N	56 40 - 8 8	29 3 - 26 -
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	1,310 194 100 809 153 54	1,280 211 167 590 248 64	36,587 8,300 4,425 10,612 9,621 3,629	47,779 12,511 4,719 17,125 9,235 4,189	90 20 8 7 15 40	116 16 8 18 17 57	112 24 19 31 21	92 33 14 26 19 N	38 12 9 - 11 6	74 23 12 19 14 6
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	299 55 26 139 - 3 20 56	389 69 46 155 4 11 32 72	13,240 2,441 1,786 4,949 61 664 1,197 2,142	15,505 3,123 1,726 5,619 361 667 1,460 2,549	41 10 11 8 2 3 5	36 13 7 4 4 2 5	118 34 18 39 6 2 11	88 22 9 9 3 3 35 7	68 30 7 17 4 2 5	90 25 4 11 2 6 42
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	3,641 65 392 264 278 21 195 294 357 1,775	5,168 72 561 207 263 25 358 482 827 2,373	35,551 1,143 4,756 1,375 6,133 753 8,302 3,694 8,482 913	57,270 1,157 5,373 N 5,916 741 9,318 8,002 14,603 12,160	80 2 6 2 4 3 8 53 2	120 - 6 4 7 - 1 - 72 30	43 - 8 - 12 2 9 3 5 4	58 3 4 - 17 1 11 7 3 12	28 - 1 U 10 2 3 2 5 5	39 - - U 13 1 11 5 U 9
E.S. CENTRAL Ky. Tenn. Ala. Miss.	639 80 287 169 103	840 128 337 212 163	19,624 3,216 5,785 6,399 4,224	17,921 3,194 5,803 3,893 5,031	19 1 4 8 6	7 1 4 1	32 11 14 1 6	35 9 12 9 5	21 8 11 - 2	29 7 12 9 1
W.S. CENTRAL Ark. La. Okla. Tex.	1,128 69 232 65 762	2,077 70 409 55 1,543	37,279 1,978 7,648 3,297 24,356	36,276 2,299 6,245 3,296 24,436	12 1 - 2 9	48 20 1 27	23 4 - 7 12	26 5 3 6 12	42 3 13 3 23	31 4 5 5 17
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	477 6 9 2 99 50 165 52 94	717 4 11 3 143 37 352 70 97	12,422 591 765 316 1,862 1,687 5,166 1,028 1,007	14,081 512 689 312 3,156 1,985 5,300 822 1,305	34 4 3 2 9 2 3 9 2	30 4 2 - 4 11 7 N 2	57 9 8 3 20 2 13 1	40 3 1 3 15 2 7 7 2	23 - - 2 7 2 11 1	29 - 3 4 8 1 4 7 2
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	1,779 202 47 1,476 5 49	2,640 151 63 2,378 6 42	35,196 5,026 2,067 26,413 1,021 669	45,164 4,835 2,574 35,693 787 1,275	95 N 3 92	114 N 11 103	89 22 12 50 1 4	59 17 14 27 - 1	42 22 14 - - 6	56 24 12 19 - 1
Guam P.R. V.I. Amer. Samoa C.N.M.I.	13 284 18 - -	1 627 13 - -	142 - - -	190 U U U U	- - - -	- U U U	N 2 - -	N 10 U U 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 30, 2000.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending May 27, 2000, and May 29, 1999 (21st Week)

	Gono	rrhea	Нера	ntitis C;		nellosis		/me sease
Reporting Area	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999
UNITED STATES	109,554	147,108	1,020	1,527	245	339	1,346	2,160
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	2,300 32 39 25 1,054 249 901	2,613 22 33 25 1,010 240 1,283	23 - - 3 18 2	8 1 - 2 2 2 3	17 2 2 - 8 2 3	22 3 3 3 5 2 6	234 30 1 107 - 96	496 1 - 119 16 360
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	8,460 2,427 824 1,286 3,923	16,889 2,492 6,329 2,954 5,114	23 23 - -	56 26 - - 30	50 21 - 2 27	93 25 12 7 49	840 401 4 - 435	1,182 409 34 234 505
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	22,645 4,823 2,020 7,443 6,838 1,521	30,792 6,735 2,594 13,466 6,352 1,645	94 3 1 6 84	877 - - 21 307 549	67 32 13 6 11 5	101 29 11 13 28 20	16 13 2 1 U	100 14 4 4 1 77
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr.	5,685 987 375 2,929 4 96 413	6,469 1,163 376 3,132 36 65 663	267 4 1 242 - - 3	65 2 - 60 - - 3	20 1 3 12 - 1	16 1 5 7 - 1 2	50 13 1 10 - -	47 13 3 21 1 5
Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga.	881 26,186 636 3,273 962 4,042 227 6,877 4,065 5,341 763	1,034 42,489 685 4,895 2,529 3,915 246 7,986 4,283 9,414 8,536	17 26 - 5 - 1 4 12 - 1 3	- 85 - 23 - 8 11 20 12 1 10	3 41 4 16 1 3 N 6 2 4 5	37 3 4 - 10 N 7 6	26 166 20 109 - 18 7 8 2 -	4 237 14 173 1 15 4 28 1
E.S. CENTRAL Ky. Tenn. Ala. Miss.	13,986 1,345 4,436 4,876 3,329	13,869 1,372 4,446 3,715 4,336	170 16 39 6 109	106 5 38 1 62	7 5 1 1	16 8 6 2	4 - 3 1 -	30 3 13 6 8
W.S. CENTRAL Ark. La. Okla. Tex.	19,415 1,065 5,405 1,450 11,495	20,626 1,090 5,314 1,680 12,542	266 3 168 2 93	186 9 124 3 50	4 - 2 1 1	1 - 1 -	1 - 1 -	6 3 2 1
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	3,939 20 36 28 1,268 367 1,693 108 419	3,818 17 34 11 874 344 1,961 81	88 1 56 12 6 10 - 3	85 4 31 11 14 16 2 3	16 - 2 1 7 1 2 3	23 - - 4 1 3 9 6	1	3 - 1 - 1 - 1
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	6,938 877 263 5,594 121 83	9,543 862 369 8,004 136 172	63 8 15 40 -	59 7 7 45 -	23 9 N 14 -	30 7 N 22 1	34 - 2 32 - N	59 1 3 55 - N
Guam P.R. V.I. Amer. Samoa C.N.M.I.	211 - - -	27 147 U U U	- 1 - - -	- U U U	- - - -	- U U U	- N - -	- N 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 27, 2000, and May 29, 1999 (21st Week)

	17001	o onamy i	1.0, 27, 2	000, 4114 111	Salmonellosis*					
	Mal	aria	Rabie	s, Animal	NE.	TSS		ILIS		
Reporting Area	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999		
UNITED STATES	339	452	1,947	2,328	9,299	10,856	6,664	9,669		
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	15 2 1 2 5 3 2	16 1 - 1 6 - 8	259 60 3 21 88 6 81	360 63 25 55 79 44 94	615 51 45 45 341 25 108	614 40 32 23 358 32 129	598 31 45 48 329 36 109	646 28 33 25 367 48 145		
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	56 19 20 7 10	128 29 58 27 14	372 261 U 60 51	427 286 U 85 56	1,264 343 288 324 309	1,473 314 420 354 385	1,374 378 402 215 379	1,212 362 435 342 73		
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	34 5 2 15 10 2	52 8 7 24 9 4	17 4 - - 13 -	25 8 - 17 -	1,457 373 166 440 304 174	1,628 309 137 511 357 314	821 307 145 1 275 93	1,437 277 132 522 344 162		
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	18 7 - 1 2 - 2 6	18 5 7 - - 1	201 32 31 5 57 40 - 36	313 38 50 11 68 91 1 54	605 73 90 246 15 25 53 103	663 177 67 209 15 31 70 94	662 200 60 244 22 24 37 75	741 238 58 256 21 42 53 73		
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	81 2 35 1 23 - 9 1 4 6	111 1 35 9 22 1 9 1 10 23	823 18 163 - 20 51 217 51 91 12	837 24 186 - 207 46 172 62 73 67	1,438 32 268 19 245 48 274 154 319 79	1,944 47 264 35 239 31 342 103 342 541	1,127 30 223 U 184 42 171 116 329 32	1,707 52 287 U 217 33 353 121 461 183		
E.S. CENTRAL Ky. Tenn. Ala. Miss.	15 2 5 7 1	9 2 4 3	70 10 41 19	109 20 40 49	491 111 126 158 96	580 134 144 175 127	335 56 152 111 16	386 95 153 118 20		
W.S. CENTRAL Ark. La. Okla. Tex.	4 1 2 1	11 2 7 1 1	30 - - 30 -	50 - - 50 -	760 114 71 105 470	1,237 116 154 119 848	727 66 118 73 470	795 76 170 85 464		
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	18 1 - 10 - 2 3 2	19 2 1 7 2 4 2 1	87 24 1 24 - 5 32 1	74 27 - 26 1 1 19	970 40 49 19 296 79 259 144	943 21 33 12 302 108 271 130 66	641 - 14 246 59 197 125	882 1 37 17 310 106 218 140 53		
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	98 8 21 67 - 2	88 5 10 68 - 5	88 - - 71 17 -	133 - 1 126 6 -	1,699 147 127 1,337 24 64	1,774 156 144 1,350 16 108	379 157 145 - 18 59	1,863 267 181 1,303 7 105		
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- - - -	- U U U	19 - - -	35 U U U	39 - - -	20 189 U U U	U U U U	U U U U		

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

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

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending May 27, 2000, and May 29, 1999 (21st Week)

	weeks ending May 27, 2000, and May 29, 1999 (21st Week) Shigellosis* Synhilis												
	NET:			HLIS		philis k Secondary)	Tube	rculosis					
Reporting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.					
UNITED STATES	2000 5,409	1999 5,200	2000 2,681	1999 2,833	2000 2,260	1999 2,826	2000 3,483	1999 [†] 5,602					
NEW ENGLAND	108	134	89	114	28	26	134	146					
Maine N.H.	4 1	2 7	- 4	- 6	-	-	2 2	6 1					
Vt.	1	4	-	3	-	1	-	-					
Mass. R.I.	72 10	84 12	57 8	70 9	24 1	16 1	88 12	77 16					
Conn.	20	25	20	26	3	8	30	46					
MID. ATLANTIC Upstate N.Y.	799 358	373 82	537 136	194 26	75 7	117 10	864 91	911 116					
N.Y. City	307	127	264	87	23	46	499	456					
N.J. Pa.	69 65	106 58	61 76	79 2	14 31	29 32	200 74	183 156					
E.N. CENTRAL	1,006	849	340	432	466	555	457	583					
Ohio Ind.	89 252	233 31	58 31	47 11	29 181	36 129	94 23	75 41					
III.	287	319	2	273	117	303	255	315					
Mich. Wis.	308 70	127 139	234 15	85 16	119 20	70 17	51 34	117 35					
W.N. CENTRAL	556	356	330	260	33	61_	182	196					
Minn. Iowa	97 145	42 6	93 92	53 8	2 10	7 4	63 13	77 19					
Mo. N. Dak.	255 2	262 2	119 1	168 2	16	42	76 -	72 2					
S. Dak.	2	8	-	4	-	-	9	3					
Nebr. Kans.	19 36	22 14	9 16	12 13	2 3	4 4	6 15	8 15					
S. ATLANTIC	334	834	166	217	680	928	446	1,044					
Del. Md.	5 37	7 50	3 10	2 11	2 125	4 189	- 91	12 98					
D.C.	8	25	U	U	23	46	1	19					
Va. W. Va.	66 2	29 4	35 2	9 2	54 1	65 2	57 15	104 19					
N.C. S.C.	49 27	77 39	22 34	48 16	240 84	220 111	112 30	153 134					
Ga.	98 42	85	28 32	30 99	136	169	140	221					
Fla. E.S. CENTRAL	302	518 456	203	288	15 378	122 491	- 278	284 361					
Ky.	6 8	54	31	40	42	45	47	69					
Tenn. Ala.	158 15	315 50	160 9	223 24	239 45	262 118	114 117	106 125					
Miss.	61	37	3	1	52	66	-	61					
W.S. CENTRAL Ark.	688 81	1,128 41	576 24	365 21	348 44	419 27	121 <i>7</i> 3	835 61					
La.	67 25	6 8	53	47 71	81	107 94	1 47	Ü 47					
Okla. Tex.	515	232 787	8 491	226	68 155	191	4/ -	727					
MOUNTAIN	386	273	153	163	87	89	168	169					
Mont. Idaho	3 28	6 4	-	3	-	-	6 5	5 -					
Wyo. Colo.	1 68	2 47	2 30	1 34	1 2	- 1	1 14	1 U					
N. Mex.	41	37	20	22 77	11	5	19	21					
Ariz. Utah	152 33	143 18	66 35	// 20	71 -	79 2	75 20	92 18					
Nev.	60	16	-	6	2	2	28	32					
PACIFIC Wash.	1,230 291	797 38	287 222	800 48	165 23	140 28	833 82	1,357 61					
Oreg. Calif.	89 827	28 710	51 -	28 705	3 139	2 108	6 677	39 1,166					
Alaska	7	-	3	-	-	1	30	28					
Hawaii	16	21	11	19	-	1	38	63					
Guam P.R.	- 1	4 33 U	U U	U U	- 55	- 79 U	-	- 73 U					
V.I. Amer. Samoa	-	U U	U U	U U	-	U U	-	U U					
C.N.M.I.	-	Ŭ	ŭ	ŭ	-	ŭ	-	ŭ					

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

†Cumulative reports of provisional tuberculosis cases for 1999 are unavailable ("U") for some areas using the Tuberculosis Information System (TIMS).

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 27, 2000, and May 29, 1999 (21st Week)

-	H influ	I. influenzae, Hepatitis (Viral), By Type					T		Meas	les (Ruber	Measles (Rubeola)						
	Inva		A	spatitis (Vi	B	ре	Indige	nous	Impo		Tota	I					
Reporting Area	Cum. 2000†	Cum. 1999	Cum. 2000	Cum. 1999	Cum. 2000	Cum. 1999	2000	Cum. 2000	2000	Cum. 2000	Cum. 2000	Cum. 1999					
UNITED STATES	495	504	4,248	7,839	2,098	2,681	<u>12000 1</u> 1	13	<u> 2000 </u> -	4	17	<u>1 1999</u> 51					
NEW ENGLAND	35	38	97	87	21	62	_	-	-	-	-	9					
Maine N.H.	1 6	4 6	7 11	2 7	5 8	- 6	-	-	-	-	-	- 1					
Vt. Mass.	2	4 16	3 42	1	3	1 27	-	-	-	-	-	-					
R.I.	19 1	_	1	28 9	2	11	-	-	-	-	-	6					
Conn.	6	8	33	40	-	17	-	-	-	-	-	2					
MID. ATLANTIC Upstate N.Y.	74 32	80 31	193 91	493 96	212 50	396 81	-	-	-	-	-	2 2					
N.Y. City N.J.	18 19	26 22	102	132 65	162	125 57	-	-	-	-	-	-					
Pa.	5	1	-	200	-	133	-	-	-	-	-	-					
E.N. CENTRAL Ohio	64 27	79 27	570 128	1,396 322	259 46	245 43	-	3 2	-	-	3 2	1					
Ind.	10	12	22	47	20	23	-	-	-	-	-	1					
III. Mich.	22 5	33 7	204 203	273 715	38 154	- 159	-	- 1	-	-	1	-					
Wis.	-	-	13	39	1	20	-	-	-	-	-	-					
W.N. CENTRAL Minn.	30 15	23 12	527 110	317 25	213 14	119 16	-	1 -	-	-	1	-					
lowa	-	2	43	6 8	19	20	-	-	-	-	-	-					
Mo. N. Dak.	5 1	2	260 -	181 1	139 2	6 8 -	-	-	-	-	-	-					
S. Dak. Nebr.	3	1 3	- 17	8 27	18	1 11	U	-	U	-	-	-					
Kans.	6	3	97	7	21	3	-	1	-	-	1	-					
S. ATLANTIC Del.	123	107	397	681 2	343	412	-	-	-	-	-	4					
Md.	31	30	67	137	48	82	-	-	-	-	-	-					
D.C. Va.	- 27	3 10	3 63	32 54	5 60	11 40	-	-	-	-	-	3					
W. Va. N.C.	4 10	3 21	37 84	13 51	4 109	11 100	-	-	-	-	-	-					
S.C. Ga.	6 40	2 26	16 74	14 202	3 75	36 50	-	-	-	-	-	-					
Fla.	5	12	53	176	39	82	-	-	-	-	-	1					
E.S. CENTRAL	26	37 5	142	185	128	191 14	-	-	-	-	-	2 2					
Ky. Tenn.	9 14	18	21 21	33 76	35 27	84	-	-	-	-	-	-					
Ala. Miss.	3	12 2	26 74	32 44	23 43	46 47	Ū	-	Ū	-	-	-					
W.S. CENTRAL	27	35	767	2,228	261	420	-	-	-	-	-	3					
Ark. La.	- 6	1 9	78 2 8	20 68	41 46	31 82	-	-	-	-	-	-					
Okla. Tex.	20 1	23 2	134 527	238 1,902	56 118	53 254	-	-	-	-	-	- 3					
MOUNTAIN	60	51	369	634	180	246		8		1	9	-					
Mont.	-	1	1	12	3	15	-	-	-	-	-	-					
Idaho Wyo.	2	1 1	13 6	24 3	4	13 5	-	-	-	-	-	-					
Colo. N. Mex.	11 12	6 11	73 38	114 20	37 42	39 85	-	1 -	-	1	2	-					
Ariz.	30	28	183	387	67	52	-	-	-	-	-	-					
Utah Nev.	4 1	2 1	30 25	22 52	10 17	13 24	Ū	3 4	Ū	-	3 4	-					
PACIFIC	56	54	1,186	1,818	481	590	1	1	-	3	4	30					
Wash. Oreg.	3 17	1 19	120 95	106 126	25 41	23 49	-	-	-	-	-	5 10					
Calif. Alaska	22 1	28 4	966 5	1,575 4	406 4	505 8	U 1	- 1	U	3	3 1	15 -					
Hawaii	13	2	-	7	5	5	ΰ	-	U	-	-	-					
Guam P.R.	-	- 1	- 42	2 120	30	2 114	U	-	U	-	-	1					
V.I.	-	U	-	U	-	U	U	-	U	-	-	Ų					
Amer. Samoa C.N.M.I.	-	U U	-	U U	-	U U	U U	-	U U	-	-	U U					
N: Not potificable		Unovoilab		. No ror													

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 49 and of those, 11 were type b.

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 27, 2000, and May 29, 1999 (21st Week)

			and iv	lay 29,	1999 (2	ist vve	ek)					
	Mening Dise			Mumps			Pertussis		Rubella			
Reporting Area	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	2000	Cum. 2000	Cum. 1999	
UNITED STATES	968	1,160	3	159	155	65	1,782	2,399	1	48	71	
NEW ENGLAND	60	59	-	2	3	15	463	243	-	5	7	
Maine N.H.	5 4	4 9	-	-	- 1	1 -	12 54	- 52	-	- 1	-	
Vt. Mass.	2 39	4 34	-	-	2	6 8	101 271	9 170	-	3	- 7	
R.I.	3 7	2	-	1 1	-	-	7 18	3 9	-	- 1	-	
Conn. MID. ATLANTIC	96	112	-	9	- 19	8	148	5 519	-	2	9	
Upstate N.Y.	25	30	-	6	3	3	80	456	-	2	5	
N.Y. City N.J.	24 21	36 20	-	-	3 1	-	-	10 14	-	-	- 1	
Pa.	26	26	-	3	12	5	68	39	-	-	3	
E.N. CENTRAL Ohio	184 41	202 <i>7</i> 5	-	17 7	23 6	1 -	223 156	193 98	-	-	-	
Ind. III.	23 43	23 55	-	3	2 7	-	22 18	10 39	-	-	-	
Mich.	59	25	-	7	7	1	17	18	-	-	-	
Wis.	18	24	-	-	1	-	10	28	-	-	-	
W.N. CENTRAL Minn.	83 7	121 27	2	12 -	6 1	8 7	85 47	67 18	-	2	31 -	
lowa Mo.	16 48	23 43	1	5 1	3 1	-	11 14	15 17	-	-	3	
N. Dak.	1	3	Ū	-	-	Ū	1	., - 2		-	-	
S. Dak. Nebr.	4 3	5 8	-	2	-	-	1 3	1	U -	-	28	
Kans.	4	12	1	4	1	1	8	14	-	2	-	
S. ATLANTIC Del.	123	161 3	1 -	24	22	7 1	137 4	113	1 -	28	2	
Md. D.C.	16	29 1	-	5	4 2	3	39	36	-	-	1	
Va. W. Va.	28 4	24 3	-	4	8	2	15	13 1	-	-	-	
N.C.	28	23	-	3	5	-	39	27	-	20	1	
S.C. Ga.	12 26	23 30	1 -	8 2	3 -	-	16 19	7 12	1 -	7 -	-	
Fla.	9	25	-	2	-	1	5	17	-	1	-	
E.S. CENTRAL Ky.	72 15	88 16	-	5	3	1	31 16	51 12	-	4 1	2	
Tenn. Ala.	32 21	33 22	-	2	- 1	1	6 8	25 12	-	3	2	
Miss.	4	17	Ū	1	2	Ū	1	2	Ū	-	-	
W.S. CENTRAL	80	117	-	17	21	2	64	64	-	2	4	
Ark. La.	6 25	21 38	-	1 3	3	-	9 3	5 3	-	-	-	
Okla. Tex.	19 30	19 39	-	13	1 17	2	6 46	8 48	-	2	4	
MOUNTAIN	56	83	-	14	6	20	335	264	-	1	13	
Mont. Idaho	1 6	2 8	-	1	-	1 1	7 3 8	1 91	-	-	-	
Wvo.	_	3	-	1 1	- 2	-	-	2	-	- 1	-	
Colo. N. Mex.	16 7	22 10	-	1	3 N	9 3	182 60	73 19	-	1 -	-	
Ariz. Utah	17 7	27 6	-	3 4	2	4 2	37 8	47 29	-	-	11 1	
Nev.	2	5	U	3	1	U	3	2	U	-	1	
PACIFIC Wash.	214 23	217 31	-	59 3	52 1	3 2	296 105	885 437	-	4	3	
Oreg. Calif.	23 29 155	31 39	N U	N 51	N 45	1 U	37 144	17 411	- U	- 4	3	
Alaska	155 3	138 5	-	4	1	-	6	3	-	-	- -	
Hawaii	4	4	U	1	5	U	4	17	U	-	-	
Guam P.R.	3	1 7	U	-	1	U -	-	1 7	U 	-	-	
V.I. Amer. Samoa	-	U U	U U	-	U U	U U	-	U	U U	-	U U	
C.N.M.I.	-	Ŭ	Ŭ	-	ŭ	ŭ	-	Ŭ	ŭ	-	<u> </u>	

N: Not notifiable.

U: Unavailable.

-: No reported cases.

TABLE IV. Deaths in 122 U.S. cities,* week ending May 27, 2000 (21st Week)

	-	All Cau	ses, By	Age (Y		, _,,	P&I	U (Z ISL VVECK)		All Cau	ses, By	Age (\	ears)		D0 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	P&I [†] Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Ma New Haven, Conn Providence, R.I. Somerville, Mass Springfield, Mass Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J.	. 17 25 40 30 9 sss. 27 . 42 63 . 51 28 61 2,236 54 U 67 27 15	428 97 366 12 233 266 244 8 199 29 45 2 388 19 50 1,486 38 U 45 55 8	99 23 12 4 2 2 10 4 - 6 6 10 - 7 7 7 8 U 17 6 6	34 8 2 1 - 2 1 1 1 4 4 4 1 4 2 3 3 155 4 U 1 2	13 6 1 - 1 1 1 1 - 1 1 - 48 3 U	9 1 1 - - 2 3 - 1 - - 46 1 U 4 2	55 18 4 2 - 7 3 - 1 1 1 2 2 10 101 6 U 2 2	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla Miami, Fla. Norfolk, Va. Richmond, Va. Richmond, Va. St. Petersburg, F Tampa, Fla. Washington, D.G Wilmington, De E.S. CENTRAL Birmingham, Al. Chattanooga, Te Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, A	U 522 80 43 43 76 143 20 100 1. 30 741 a. 186 nn. 84 79 172 70 1a. 30	567 U 97 53 79 U 40 38 27 53 97 65 18 492 129 54 102 52 20	213 U 36 21 36 21 36 U 9 23 10 12 28 26 12 158 35 12 U 17 45 11 8	86 U 23 8 14 U 2 12 5 5 11 6 - 57 16 7 U 5 17 6 1	28 U 6 1 4 1 5 3 3 - 19 4 3 3 2 - 1	16 U 2 4 4 2 U - 3 3 - 1 4 4 6 6 1 - 6 1	43 U 15 5 5 U 1 4 3 4 4 5 1 5 5 10 2 U 6 11 5 5
Erie, Pa. § Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa. § Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa. § Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	65 17 400 55 30 141	34 U 753 32 8 251 43 23 107 20 24 52 17 16 U	7 U 260 23 4 91 11 4 28 8 1 10 9 4 U	5 U 84 6 4 34 1 2 3 - - 7 1	U 22 3 1 15 - 1 - - 1	U 21 1 - 9 - 3 - 3 1 1 U	1 U 38 - 2 24 2 1 12 1 - 7 - 3 U	Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La Corpus Christi, Dallas, Tex. EI Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La San Antonio, Te Shreveport, La. Tulsa, Okla.	Fex. 83 164 81 97 334 80 . 72 x. 225 55 132	75 937 50 31 65 102 55 63 215 50 36 146 36 88	30 295 9 10 15 37 13 19 85 15 6 49 11 26	5 121 13 5 2 13 11 6 19 7 10 22 5 8	6 46 2 1 1 6 2 9 2 13 4 1 6	4 45 1 1 6 2 7 6 6 6 4 2 4	14 66 3 3 5 3 4 6 9 4 3 5 4 7
E.N. CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Chicago, Ill. Cincinnati, Ohio Cleveland, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, 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.	191 40 111 53 53 53 91 0 39 1,098 1 U	1,338 27 260 2400 93 97 1055 80 95 38 37 7 36 31 41 42 69 32 7 93 U22 110 64 37	9 11 38 19 38 30 18 55 15 10 2 6 38 7 15 13 8 9 18 7 18 19 6 31 19 19 19 19 19 19 19 19 19 19 19 19 19	147 4 4 36 7 15 9 6 18 4 3 2 2 2 10 6 3 1 2 7 7 6 1 1 2 7 7 7 1 5 7 7 7 1 7 7 7 7 7 7 7 7 7 7 7	40 11 12 3 4 6 1 1 1 1 25 0 4 4 4 2	58 1 1 9 4 7 6 6 1 9 1 1 2 - 1 1 7 - 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	129 95 121 759 211 - 121 2336653 8U31424	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, Cal Pasadena, Calif. Portland, Oreg. Sacramento, Ca San Diego, Califsan Francisco, C San Jose, Calif. Santa Cruz, Calif.	46 olo. 66 118 221 40 25 14h 104 154 1,210 16 171 16 175 . 165 alif. U 201 f. 37 131 52	738 80 31 42 81 137 28 123 19 72 125 854 13 92 U 57 47 U 22 U 125 120 150 24 36	200 20 8 17 22 51 6 37 2 19 18 221 4 27 U 10 17 U 2 U 31 30 U 35 11 21 8	91 13 3 4 9 22 5 15 2 8 10 8 1 18 10 1 10 13 8 10 13 13 13 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	26 1 - 2 4 5 1 6 2 4 4 1 26 - 6 U 2 2 U 2 U 2 2 U 2 1 - 5 0	19 - 4 1 1 2 4 4 - 7 7 - 1 1 U 2 2 1 1 U 5 U 4 5 U 3 3 - 3 2 2 1	82 13 6 3 12 7 2 14 1 10 12 8 U 5 9 U 3 U 15 14 U 16 2 15 2 15 3 16 2 16 2 16 2 16 2 16 2 16 2 16 2 16
Minneapolis, Min Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.		141 52 76 U 291	23 14 24	11 2 15 U 26	2 - 4 U 9	4 3 3 U 3	17 12 2 U 30	Tacoma, Wash. TOTAL	110 11,298¶	76 7,633	25 2,277	4 847	2 271	1 255	8 713

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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