



MORBIDITY AND MORTALITY WEEKLY REPORT

- 161 Mortality Patterns United States, 1993
- 164 Animal Rabies South Dakota, 1995
- 166 Outbreak of Primary and Secondary Syphilis — Baltimore City, Maryland, 1995
- 170 Adult Blood Lead Epidemiology and Surveillance — United States, Third Quarter, 1995
- 171 Notice to Readers

Mortality Patterns — United States, 1993

In 1993, a total of 2,268,553 deaths were registered in the United States—92,940 more than in 1992 and the highest number ever recorded (1). In addition, life expectancy at birth declined for the first time since 1980. This report characterizes mortality patterns in 1993 (the most recent year for which complete data were available) (1) and compares these with patterns in 1992.

National mortality statistics are based on information from death certificates filed in state vital statistics offices as required by state law and are compiled by CDC into a national database. Cause-of-death statistics are based on the underlying cause of death*, which is recorded on the death certificate by the attending physician, medical examiner, or coroner in a manner specified by the World Health Organization (WHO) and endorsed by CDC. Data are presented only for blacks and whites because of inconsistent reporting of other racial/ethnic groups on death certificates.

From 1992 to 1993, the crude death rate increased 3.2% (from 852.9 to 880.0 deaths per 100,000 population); the age-adjusted death rate[†] increased 1.7% (from 504.5 to 513.3 per 100,000 population). The 10 leading causes of death and their rankings were unchanged during this period; mortality decreased only for cancer (–0.4%) (Table 1)[§]. The largest increase in age-adjusted death rate (9.5%) was for human immunodeficiency virus (HIV) infection (*International Classification of Diseases, Ninth Revision* [ICD-9], codes 042–044[¶]); this rate (13.8) was the highest ever recorded for HIV infection (1).

From 1992 to 1993, age-adjusted death rates increased 1.6% for whites** (from 477.5 to 485.1) and 2.3% for blacks (from 767.5 to 785.2). Rates were higher for blacks

^{*} Defined by the World Health Organization's *International Classification of Diseases, Ninth Revision*, as "(a) the disease or injury which initiated the train of morbid events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury."

[†]Age-adjusted to the 1940 U.S. population. Age-adjusted death rates indicate the risk for death relative to a standard population and are more effective than crude death rates for comparing mortality of population groups with different age structures.

^{§ &}quot;Motor-vehicle accidents" and "all other accidents and adverse effects" are not included as causes of death for which the rate has decreased because these causes are subcategories of the leading cause "accidents and adverse effects." When a death occurs under "accidental" circumstances, the preferred term within the public health community is "unintentional injury."

These codes are from addenda to the ICD-9 (2).

^{**} Hispanics and non-Hispanics are included in totals for both whites and blacks.

Mortality — Continued

TABLE 1. Age-adjusted death rates* for 1993 and percentage changes in age-adjusted death rates for the 10 leading causes of death from 1992 to 1993 and from 1979 to 1993 — United States

		1993	% Change			
Rank [†]	Cause of death (ICD-9 [§] code)	Age-adjusted death rate	1992 to 1993	1979 to 1993		
1	Diseases of heart (390-398, 402, 404-429)	145.3	0.7	-27.2		
2	Malignant neoplasms, including neoplasms					
	of lymphatic and hematopoietic tissues (140–208)	132.6	-0.4	1.4		
3	Cerebrovascular diseases (430–438)	26.5	1.1	-36.3		
4	Chronic obstructive pulmonary diseases					
	and allied conditions (490–496)	21.4	7.5	46.6		
5	Accidents¶ and adverse effects (E800–E949)	30.3	3.1	-29.4		
	Motor-vehicle accidents (E810–E825)	16.0	1.3	-31.0		
	All other accidents and adverse effects					
	(E800-E807, E826-E949)	14.4	5.1	-26.5		
6	Pneumonia and influenza (480–487)	13.5	6.3	20.5		
7	Diabetes mellitus (250)	12.4	4.2	26.5		
8	Human immunodeficiency virus infection (042-044)**	⁺ 13.8	9.5	_		
9	Suicide (E950–E959)	11.3	1.8	- 3.4		
10	Homicide and legal intervention (E960–E978)	10.7	1.9	4.9		

^{*} Per 100,000 population, age-adjusted to the 1940 U.S. population.

than for whites for eight of the 10 leading causes (Table 2). Race-specific ratios were greatest for homicide (6.8) and HIV infection (4.0). Death rates for blacks were lower for chronic obstructive pulmonary diseases and allied conditions (COPD) (ICD-9 codes 490–496; 0.8) and suicide (ICD-9 codes E950–E959; 0.6).

From 1992 to 1993, age-adjusted death rates increased 1.3% for males (from 656.0 to 664.9) and 2.1% for females (from 380.3 to 388.3). Rates were higher for males than females for all 10 leading causes (Table 2). Sex-specific ratios were greatest for HIV infection (6.3), suicide (4.4), and homicide (3.8). Compared with 1992, sex-specific ratios decreased for HIV infection and homicide. The sex-specific ratio was lowest for diabetes mellitus (ICD-9 code 250; 1.2).

In 1993, a total of 302 women were reported to have died from causes associated with pregnancy and childbirth (i.e., deaths assigned to complications of pregnancy, childbirth, and the puerperium [ICD-9 codes 630–676]). The overall maternal mortality rate was 7.5 deaths per 100,000 live-born infants. However, this rate was approximately four times higher for blacks than for whites (20.5 versus 4.8).

From 1992 to 1993, overall life expectancy (LE) at birth declined from 75.8 years to 75.5 years. As in 1992, LE at birth continued to be highest among white females (79.5 years), followed by black females (73.7 years), white males (73.1 years), and black males (64.6 years). Although LE declined for all four racial-sex groups during 1992–1993, the overall race-specific difference in LE for blacks and whites increased slightly, from 6.9 years in 1992 to 7.1 years in 1993.

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[†]Based on number of deaths.

[§] International Classification of Diseases, Ninth Revision.

When a death occurs under "accidental" circumstances, the preferred term within the public health community is "unintentional injury."

^{**} These codes are from addenda to the ICD-9 (2).

Mortality — Continued

TABLE 2. Ratio of age-adjusted death rates* from the 10 leading causes of death, by sex and race of decedent — United States, 1993

Rank [†]	Cause of death (ICD-9 [§] code)	Male:Female	Black:White [¶]
1	Diseases of heart (390-398, 402, 404-429)	1.9	1.5
2	Malignant neoplasms, including neoplasms		
	of lymphatic and hematopoietic tissues (140–208)	1.5	1.4
3	Cerebrovascular diseases (430–438)	1.2	1.8
4	Chronic obstructive pulmonary diseases		
	and allied conditions (490–496)	1.6	0.8
5	Accidents** and adverse effects (E800–E949)	2.6	1.3
	Motor-vehicle accidents (E810–E825)	2.3	1.0
	All other accidents and adverse effects		
	(E800–E807, E826–E949)	2.9	1.6
6	Pneumonia and influenza (480–487)	1.6	1.4
7	Diabetes mellitus (250)	1.2	2.4
8	Human immunodeficiency virus infection		
	(042–044)††	6.3	4.0
9	Suicide (E950–E959)	4.4	0.6
10	Homicide and legal intervention (E960–E978)	3.8	6.8

^{*} Per 100,000 population, age-adjusted to the 1940 U.S. population.

Editorial Note: LE summarizes death rates by age into a single measure used as an indicator of the nation's health. Death rates and LE can be used to monitor health status and progress toward national health objectives and to identify groups at increased risk for specific diseases and injuries. The findings in this report indicate that, in 1993, crude and age-adjusted death rates increased and LE decreased from 1992. The decline in LE most likely reflects increases in death rates for 1) chronic diseases during the two influenza outbreaks of 1993, 2) pneumonia and influenza, and 3) HIV infection and unintentional injuries. Race-specific variation in death rates are accounted for, in part, by differences in factors such as socioeconomic status, access to medical care, and risk behaviors. The increases in both the crude and age-adjusted rates in 1993 are the first since 1988 and 1975, respectively; however, preliminary analysis of provisional data for 1994 suggest small, but statistically significant, decreases in these rates (3).

In 1993, death rates for some chronic diseases—heart disease, stroke, COPD, and diabetes—and for pneumonia and influenza accounted for nearly 75% of all deaths during the year. This analysis especially highlights the role of heart disease and cancer as leading causes of death in the United States; these two causes accounted for approximately 56% of deaths in 1993. Although increases in the rates for HIV infection and unintentional injuries among younger persons contributed to the decline in LE, most increases in mortality were among persons aged ≥65 years.

[†]Based on number of deaths.

[§] International Classification of Diseases, Ninth Revision.

[¶]Both groups include Hispanics. Numbers for other racial/ethnic groups were too small for meaningful analysis.

^{**} When a death occurs under "accidental" circumstances, the preferred term within the public health community is "unintentional injury."

^{††} These codes are from addenda to the ICD-9 (2).

Mortality — Continued

References

- 1. NCHS. Advance report of final mortality statistics, 1993. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, CDC, 1996. (Monthly vital statistics report; vol 44, no. 7, suppl).
- 2. NCHS. Vital statistics of the United States, 1988. Vol 2, mortality, part A. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, CDC, 1991; DHHS publication no. (PHS)91-1101.
- 3. NCHS. Annual summary of births, marriages, divorces, and deaths: United States, 1993. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, CDC, 1994. (Monthly vital statistics report; vol 43, no. 13).

Animal Rabies — South Dakota, 1995

On July 28, 1995, the South Dakota Public Health Laboratory diagnosed rabies in an 8-week-old puppy; on July 23, the puppy had had onset of neurologic signs (e.g., head tilt, ataxia, and somnolence) that culminated in seizures, and the puppy was euthanized. A clinically normal littermate owned by a neighboring family was euthanized on July 31 and tested positive for rabies. This report summarizes the epidemiologic investigation and follow-up management by the South Dakota Department of Health (SDDH), with assistance from CDC, of persons and domestic animals potentially exposed to rabies.

On July 8, the neighboring families acquired the two puppies from a private owner near Summit, South Dakota. The puppies were from a litter of nine born on May 29. On June 13 or 14, a skunk attacked the litter in a garage where they were kept. The skunk was killed by the owner of the puppies but was not tested for rabies. All the puppies were free of clinical signs consistent with rabies when given away between July 8 and July 27. However, the original owner of the puppies was uncertain of the identity of all the persons who had adopted them. Through announcements in the local news media and distribution of flyers door-to-door by the Aberdeen Area Indian Health Service in Sisseton, by August 4 the remaining seven puppies were identified to be in private residences located throughout eastern South Dakota. Six of the puppies tested negative for rabies at the South Dakota Public Health Laboratory; the seventh puppy had been killed by the owner because it was part of the exposed litter, and it was unavailable for testing. The dam of the litter and another contact dog-neither of which were currently vaccinated against rabies—were euthanized and tested negative for rabies. Two other potentially exposed pet dogs, past due for rabies vaccination, were identified; they were managed by home quarantine and booster vaccination according to the 1995 animal rabies compendium (1) and remained symptom-free.

The SDDH initiated efforts to identify persons with potential exposure to the two puppies and determine their risk for rabies infection. In response to the alert, the state health department and four major health-care facilities screened by phone or personal interview approximately 150 persons possibly exposed during July 13–31 (the established period of potential rabies transmission). In addition, SDDH conducted town meetings and provided briefings to health-care providers, the news media, and animal-control authorities. Of the 150 persons, 22 (15%) (including nine persons from the veterinary clinic in which the ill puppy had been treated and euthanized and seven persons who had had contact with the puppy that had been destroyed and was un-

Rabies — Continued

available for rabies testing) met the criteria used to determine the need for rabies postexposure treatment (PET) for either a bite or nonbite exposure as defined by the Immunization Practices Advisory Committee (2). Specific antirabies treatment was initiated for 31 persons; the other nine persons requested and received PET despite reassurance they were at low risk for rabies infection.

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Editorial Note: In the United States, the most frequently reported rabid wild animals are raccoons, skunks, bats, and foxes (3). Although the exposure for the two rabid puppies in this report was not confirmed, the skunk that attacked the litter in mid-June was probably the source of infection. Measures for preventing pets from contacting wild animals include keeping them indoors, on leashes, or in fenced outdoor areas. If pets are wounded by wild animals, wounds should be washed immediately with soap and water, and the pet should be evaluated by a veterinarian. Wildlife that attacks persons or pets should be apprehended by trained personnel, euthanized, and tested for rabies. Wild and stray domestic animals exhibiting signs of neurologic illness or of abnormal behavior (signs of rabies among wild animals cannot be interpreted reliably) should be reported to appropriate local health authorities, especially if the animal bites or scratches a person. Only trained personnel should attempt to trap or capture these animals and submit them for rabies testing.

The economic burden of the exposures in South Dakota was minimized because of the small number of persons requiring PET and as a result of efforts to inform and reassure persons who unnecessarily were seeking medical services for exposures not associated with true risk (e.g., petting a rabid puppy, handling a noninfected littermate, or having contact with a human who had been exposed to a rabid puppy). Nonetheless, substantial resources were required to educate potentially exposed persons about rabid animals and to conduct the prompt and standardized assessment of persons who received PET (4). The estimated cost associated with the public health response, assessment, and PET was \$115,000: \$97,900 for chemoprophylaxis and provider services, \$16,500 for the investigation by public health officials, and \$600 for laboratory testing of animals. In South Dakota, from 1990 through 1995, an estimated \$1.4 million was spent for PET for 632 persons exposed to approximately 704 rabiespositive animals. Although this estimate is for a 5-year period, it is similar to the cost (\$1.5 million) associated with the single-point source exposure to a rabid kitten in New Hampshire, in which PET was initiated for 665 persons (5). To facilitate efforts to investigate rabies exposures such as those described in this report, persons involved in the private sale or adoption of pets are encouraged to maintain records of buyers' or adoptees' names and addresses.

References

1. CDC. Compendium of animal rabies control, 1995: National Association of State Public Health Veterinarians, Inc. MMWR 1995;44(no. RR-2).

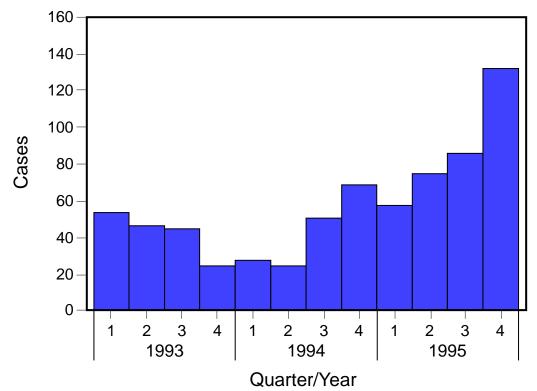
Rabies — Continued

- 2. CDC. Rabies prevention—United States, 1991: recommendation of the Immunization Practices Advisory Committee (ACIP). MMWR 1991;40(no. RR-3).
- 3. Krebs JW, Strine TW, Smith JS, Rupprecht CE, Childs JE. Rabies surveillance in the United States during 1993. J Am Vet Assoc 1994:205:1695–709.
- 4. Childs JE, Noah DL, Rupprecht CE. Rabies. In: Gorbach SL, Bartlett JG, Blacklow NR, eds. Infectious diseases. 2nd ed. Philadelphia, Pennsylvania: Saunders (in press).
- 5. CDC. Mass treatment of humans exposed to rabies—New Hampshire, 1994. MMWR 1995; 44:484–6.

Outbreak of Primary and Secondary Syphilis — Baltimore City, Maryland, 1995

From 1993 to 1995, the number of primary and secondary syphilis cases reported in Baltimore City (1990 population: 736,014) increased 97%, from 179 to 352 cases per year (Figure 1). To identify potential reasons for this increase, CDC, in collaboration with the Baltimore City Health Department (BCHD) and the Maryland Department of Health and Mental Hygiene, analyzed data about primary and secondary syphilis cases during 1992–1995 and about temporal trends in factors that may affect syphilis rates (e.g., partner-notification results, access to medical care, and community illicit-drug use). In addition, data were analyzed from the two public sexually transmitted disease (STD) clinics in Baltimore City. BCHD collects demographic data for all cases of reported syphilis among patients who reside in Baltimore City and attempts to

FIGURE 1. Number of cases of primary and secondary syphilis, by quarter and year of report — Baltimore City, Maryland, 1993–1995



Syphilis — Continued

interview and provide partner notification and treatment for these patients. This report summarizes the results of the analysis, which suggest the outbreak has been associated with decreases in partner notification and health department clinical services and a substantial increase in community cocaine use.

Epidemiology

Of 344 patients with primary or secondary syphilis reported in 1995 and for whom demographic information was available, 196 (57%) were non-Hispanic black males; 120 (35%), non-Hispanic black females; 16 (5%), non-Hispanic white males; nine (3%), non-Hispanic white females; and three (1%), Hispanic (two males and one female). The mean age of males was 37.3 years (range: 13–69 years) and of females, 30.3 years (range: 14–58 years). Among persons with primary or secondary syphilis reported in 1995 and for whom self-reported sexual orientation was known, 16 (8%) of 206 men and nine (7%) of 123 women reported same-sex sexual contact since 1978; in addition, 56 (27%) men and 18 (15%) women reported exchanging money or drugs for sex.

During 1995 at one of the two STD clinics, cocaine use was reported by 18 (26%) of 70 male patients with a presumptive diagnosis of primary or secondary syphilis, compared with 663 (14%) of 4780 without a presumptive diagnosis (p<0.01). Among female patients, cocaine use was reported by 27 (28%) of 97 with a presumptive diagnosis of primary or secondary syphilis, compared with 299 (13%) of 2281 without a presumptive diagnosis (p<0.01). In addition, among female patients with a presumptive diagnosis of primary or secondary syphilis, prostitution was reported by nine (35%) of 26 who reported cocaine use, compared with one (1%) of 69 who did not use cocaine (p<0.01).

During January–September 1995, tests for human immunodeficiency virus (HIV) were positive for 22 (8%) of 265 STD clinic patients with early syphilis (i.e., primary, secondary, or early latent) who were tested for HIV at the time syphilis was diagnosed; in comparison, HIV-antibody tests were positive for 243 (3%) of 7079 STD clinic patients without early syphilis (p<0.01). Based on analysis of interview records, of 293 persons with early syphilis in 1995 for whom current HIV serostatus was known (including persons who were HIV-infected before their syphilis infection), 54 (18%) were HIV-infected.

From 1993 to 1994, the number of clinicians at the two BCHD STD clinics decreased from 12 to eight and, from 1993 to 1995, the number of public health workers conducting partner notification decreased from 14 to eight. The contact index (i.e., the number of sex partners for whom information was sufficient to initiate efforts to locate that person divided by the number of persons with early syphilis interviewed), progressively declined from 1.3 in 1992 to 1.0 in 1995. The treatment index (i.e., the number of persons treated as a result of partner notification divided by the number of persons interviewed) declined from 0.6 in 1992 and 1.0 in 1993 to 0.4 in 1995.

From 1993 to 1995, the number of self-referred patients that visited the two public STD clinics declined 12% (from 17,190 to 15,197). In comparison, during each year from 1990 through 1994, the proportion of gonorrhea cases reported from private health-care providers, a potential marker for access to private provider STD care, remained nearly constant (57% to 59%).

Syphilis — Continued

Community Cocaine Use

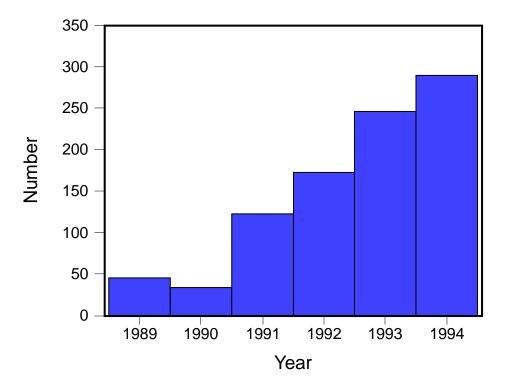
Based on data from the Drug Abuse Warning Network (DAWN), from 1990 through 1994, the annual number of listings of cocaine by medical examiners in drug-abuse-death cases in Baltimore City increased 737% (1) (Figure 2), and the annual number of cocaine-related emergency department episodes increased 239% (from 3023 to 10,243) (2). In addition, DAWN data indicated that the crack cocaine epidemic began in Baltimore City later than in other east coast cities. From 1990 through 1995, annual listings of crack cocaine use by Baltimore City residents entering drug treatment increased 196% (from 2131 to 6312) (Maryland Alcohol and Drug Abuse Administration, unpublished data).

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Editorial Note: During 1990, the rate for primary and secondary syphilis in the United States (20.3 per 100,000 population) was the highest since the 1940s and approximately 10-fold higher than in other industrialized countries (3). Use of crack cocaine and the exchange of sex for drugs were identified as major contributors to this epidemic (4). Although the national rate had declined to 8.1 by 1994, endemic disease at high rates persists in some communities and outbreaks continue to occur.

The investigation of primary and secondary syphilis in Baltimore City identified epidemiologic patterns consistent with other urban areas of the United States: most cases occurred among blacks, and cocaine use and the exchange of money or drugs

FIGURE 2. Number of drug-abuse-related deaths with mentions of cocaine by medical examiners — Drug Abuse Warning Network, Baltimore City, Maryland, 1989–1994



Syphilis — Continued

for sex were frequently reported risk behaviors; the predominance of cases among blacks may reflect factors including area of residence, socioeconomic status, and access to health services. A communitywide expansion in crack cocaine use preceded the increase in Baltimore City and most likely was the primary contributing factor. In addition, a decline in clinical and partner-notification service staffing may have limited the public health response to the increase in cases, although cocaine-associated syphilis outbreaks may be characterized by lower partner notification indices independent of available personnel (5).

At least three potential intersecting epidemics may be associated with the increased occurrence of early syphilis in Baltimore City, including crack-cocaine use, congenital syphilis, and HIV infection. Because the numbers of syphilis-infected pregnant women in Baltimore City may increase, efforts to prevent congenital syphilis must be intensified (6). HIV transmission in Baltimore City may be increasing because HIV infection is associated with the use of crack cocaine (7) and because genital ulcers directly facilitate HIV transmission (8). In a previous syphilis epidemic, 18% of all documented HIV seroconversion in STD clinic patients was attributable to syphilis infection (9). Because of the duration of the incubation period of HIV and its effect on recognition of HIV transmission patterns, additional efforts should assess whether early syphilis rates are useful indicators of risk for HIV transmission.

To control the increase in syphilis cases, BCHD is alerting the medical community about the syphilis outbreak (e.g., letters to and teleconferences with health-care providers), filling STD program personnel vacancies, and expanding case-finding and surveillance activities.

References

- Office of Applied Studies, Substance Abuse and Mental Health Services Administration. Annual medical examiner data, 1994: data from the Drug Abuse Warning Network. Rockville, Maryland: US Department of Health and Human Services, Public Health Service, Substance Abuse and Mental Health Services Administration, 1995.
- 2. Office of Applied Studies, Substance Abuse and Mental Health Services Administration. Preliminary estimates from the Drug Abuse Warning Network: 1994 preliminary estimates of drug-related emergency department episodes. Rockville, Maryland: US Department of Health and Human Services, Public Health Service, Substance Abuse and Mental Health Services Administration, 1995. (Advance report no. 11).
- 3. Nakashima AK, Rolfs RT, Flock ML, Kilmarx P, Greenspan JR. Epidemiology of syphilis in the United States, 1941–1993. Sex Transm Dis 1996;23:16–23.
- 4. Rolfs RT, Goldberg M, Sharrar RG. Risk factors for syphilis: cocaine and prostitution. Am J Public Health 1990;80:853–7.
- 5. Andrus JK, Fleming DW, Harger DR, et al. Partner notification: can it control epidemic syphilis? Ann Intern Med 1990;112:539–43.
- CDC. Guidelines for the prevention and control of congenital syphilis. MMWR 1988;37(suppl no. S-1).
- 7. Edlin BR, Irwin KL, Faruque S, et al. Intersecting epidemics: crack cocaine use and HIV infection among inner-city young adults. N Engl J Med 1994;331:1422–7.
- 8. Plummer FA, Simonsen JN, Cameron DW, et al. Cofactors in male-female sexual transmission of HIV. J Infect Dis 1991;163:233–9.
- 9. Otten MW, Zaidi AA, Peterman TA, Rolfs RT, Witte JJ. High rate of HIV seroconversion among patients attending urban sexually transmitted disease clinics. AIDS 1994;8:549–53.

Adult Blood Lead Epidemiology and Surveillance — United States, Third Quarter, 1995

CDC's National Institute for Occupational Safety and Health Adult Blood Lead Epidemiology and Surveillance program (ABLES) monitors elevated blood lead levels (BLLs) among adults in the United States (1). This report presents ABLES data for the third quarter of 1995.

During July–September 1995, the 5410 reports of BLLs \geq 25 µg/dL represented a 14% decrease from the 6298 reports for the third quarter of 1994 (2). Compared with the third quarter of 1994, the number of reports for the same period in 1995 decreased 11% at the 25–39 µg/dL level, 29% at the 40–49 µg/dL level, and 11% at the 50–59 µg/dL level; they increased 23% at the \geq 60 µg/dL level. For the first three quarters of 1995, cumulative reports of BLLs \geq 25 µg/dL decreased by 4% from reports for the same period of 1994 (Table 1). The number of reports increased only at the lowest reporting level (25–39 µg/dL) and decreased at all higher reporting levels (40–49 µg/dL, 50–59 µg/dL, and \geq 60 µg/dL).

Compared with quarterly data for 1994, the number of reports increased at the highest blood lead level (\geq 60 μ g/dL) by 4% (from 112 to 117) in the second quarter (3) and again by 23% (from 90 to 111) in the third quarter of 1995. Reports at all lower BLLs decreased in both quarters.

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TABLE 1. Number of reports of elevated blood lead levels (BLLs) among adults, number of adults with elevated BLLs, and percentage change in number of reports — 23 states,* third quarter, 1995

Reported BLL	Third qua	rter, 1995	Cumulative	Cumulative	% Change		
(μ g/dL)	No. reports [†]	No. persons§	reports, 1995	reports, 1994¶	1994 to 1995		
25–39	4,151	3,318	13,458	13,311	+ 1%		
40-49	941	702	3,290	4,077	-19%		
50-59	207	141	660	773	-15%		
≥60	111	72	310	319	- 3%		
Total	5,410	4,233	17,718	18,480	- 4%		

^{*}Alabama, Arizona, California, Connecticut, Illinois, Iowa, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, North Carolina, Oklahoma, Oregon, Pennsylvania, South Carolina, Texas, Utah, Vermont, Washington, and Wisconsin.

[†]Data for Alabama, Arizona, and South Carolina were missing; third quarter 1994 data were used as an estimate.

Individual reports are categorized according to the highest reported BLL for the person during the given quarter. Pennsylvania provides the number of reports but not the number of persons; the numbers of persons for Pennsylvania in this table are estimates based on the proportions from the other 22 states combined and the number of reports received from Pennsylvania. Data for Alabama, Arizona, and South Carolina were missing; third quarter 1994 data were used as an estimate.

[¶]Data for the third quarter of 1994 include data for Maine, which were not previously included in the published report (2).

Adult Blood Lead Epidemiology and Surveillance — Continued

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Editorial Note: In contrast to previous reports, which documented a pattern of an increasing number of BLLs at lower levels and a decreasing number at higher levels, the findings in this report indicate a decrease at lower levels and an increase at higher levels. Variation in national quarterly reporting totals may result from 1) changes in the number of participating states; 2) timing of receipt of laboratory BLL reports by state-based surveillance programs; 3) changes in staffing and funding in state-based surveillance programs; and 4) interstate differences in worker BLL testing by leadusing industries. Variation from these sources reduces the capability to confidently identify trends in the actual data reported.

The findings in this report document the continuing hazard of work-related lead exposures as an occupational health problem in the United States. ABLES enhances surveillance for this preventable condition by expanding the number of participating states, reducing variability in reporting, and distinguishing between new and recurring elevated BLLs in adults.

References

- CDC. Surveillance of elevated blood lead levels among adults—United States, 1992. MMWR 1992;41:285–8.
- 2. CDC. Adult blood lead epidemiology and surveillance—United States, third quarter, 1994. MMWR 1994;44:36–7.
- 3. CDC. Adult blood lead epidemiology and surveillance—United States, second quarter, 1995. MMWR 1995;44,801–2.

Notice to Readers

Availability of Case Definitions for Public Health Surveillance on Internet

In response to high demand from state and local health departments, the 1990 MMWR Recommendations and Reports entitled Case Definitions for Public Health Surveillance (1) is now available electronically on the Internet. This document provides case definitions for use by health-care providers, laboratories, and other public health personnel who report the occurrences of notifiable diseases to state and local health departments. The reported numbers of cases of selected notifiable diseases are printed each week in Tables I–III of MMWR.

Notice to Readers — Continued

Case definitions for specific conditions can be accessed individually as World-Wide Web (WWW) pages. To access these pages, use WWW browser software to connect to the CDC home page at http://www.cdc.gov/, then select MMWR — Morbidity and Mortality Weekly Reports; go to the "new" item titled Case Definitions for Public Health Surveillance. To access the Case Definitions directly, connect to http://www.cdc.gov/epo/mmwr/other/case_def/about.html.

Users can download the complete document as a .pdf file (Adobe[®] Acrobat[®]* portable document format) from the **Case Definitions for Public Health Surveillance** WWW page and from CDC's file transfer protocol server at **ftp.cdc.gov**/. When prompted for user name enter **anonymous**, and give your Internet e-mail address when prompted for the password. Select **pub/publications/mmwr/rr/rr3913.pdf** and download the file (309,488 bytes). Because of changes in software used for processing the file, the page numbers for this file do not correspond to those in the original document.

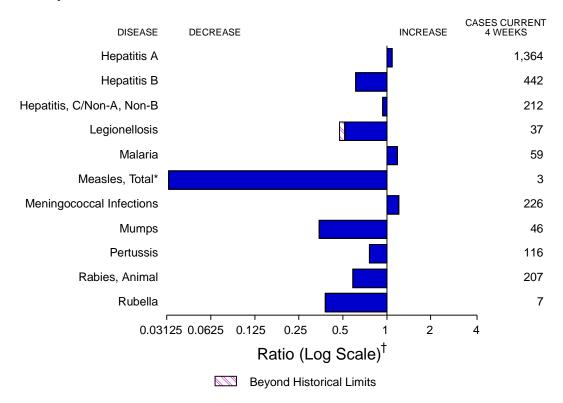
Case definitions for conditions recently made nationally reportable and newly revised case definitions will be included in a supplement to this 1990 publication, which will be added to this website at a later date. The Council of State and Territorial Epidemiologists and CDC are revising the entire case definitions document for publication in late 1996.

Reference

1. CDC. Case definitions for public health surveillance. MMWR 1990;39(no. RR-13).

^{*}Use of trade names and commercial sources is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

FIGURE I. Selected notifiable disease reports, comparison of 4-week totals ending February 24, 1996, with historical data — United States



^{*}The large apparent decrease in the number of reported cases of measles (total) reflects dramatic fluctuations in the historical baseline.

TABLE I. Summary — cases of selected notifiable diseases, United States, cumulative, week ending February 24, 1996 (8th Week)

	Cum. 1996		Cum. 1996
Anthrax Brucellosis Cholera Congenital rubella syndrome Cryptosporidiosis* Diphtheria Encephalitis: California* eastern equine* St. Louis* western equine* Hansen Disease	136 1 - - - - - - - - - -	HIV infection, pediatric*§ Plague Poliomyelitis, paralytic¶ Psittacosis Rabies, human Rocky Mountain spotted fever (RMSF) Streptococcal toxic-shock syndrome* Syphilis, congenital** Tetanus Toxic-shock syndrome Trichinosis	26 - - 2 - 8 1 - - 2 18 4
Hantavirus pulmonary syndrome*†	-	Typhoid fever	22

^{*}Not notifiable in all states.

[†]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.

Updated monthly to the Division of HIV/AIDS Prevention, National Center for Prevention Services (NCPS), last update Jan-

No suspected cases of polio reported for 1996.

**Updated quarterly from reports to the Division of STD Prevention, NCPS. First quarter 1996 is not yet available.

^{-:} no reported cases

TABLE II. Cases of selected notifiable diseases, United States, weeks ending February 24, 1996, and February 25, 1995 (8th Week)

	AIDS*		AIDS*		Chlamydia	Esche coli O NETSS [†]	richia 157:H7 PHLIS [§]	Gono	rrhea		atitis A,NB	Legion	ellosis
Reporting Area	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1996	Cum. 1996	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995		
UNITED STATES	4,357	10,759	22,189	86	20	39,244	60,560	463	594	96	157		
NEW ENGLAND	208	510	1,494	13	3	957	910	7	8	4	-		
Maine N.H.	7 3	15 12	98	2 1	- 1	3 18	8 17	-	1	1 -	-		
Vt.	-	1	-	3	2	15	4	3	-	-	-		
Mass. R.I.	135 9	285 28	1,045 351	4 2	-	362 82	512 92	4	7 -	2 1	-		
Conn.	54	169	-	1	-	477	277	-	-	Ň	N		
MID. ATLANTIC	1,235	2,832	1,124	11	3	2,875	6,578	29	49	15	18		
Upstate N.Y. N.Y. City	158 696	248 1,571	N -	7	3	713	1,013 2,124	25 1	20 1	4	3 1		
N.J.	244	626	1,124	2 N	-	481	739	-	21	2	5		
Pa. E.N. CENTRAL	137 419	387 981	5,940	11	2	1,681 7,119	2,702 12,857	3 55	7 51	9 37	9 58		
Ohio	143	125	907	8	-	566	4,460	2	1	17	24		
Ind. III.	50 156	80 531	1,304	2 1	- 1	1,132 2,783	1,228 2,990	- 1	- 18	8	7 12		
Mich.	37	216	3,392	-	1	2,765	3,102	52	32	12	7		
Wis.	33	29	337	N	-	283	1,077	-	-	-	8		
W.N. CENTRAL Minn.	145 20	235 64	2,322	10 1	6 4	1,917	3,279 492	57 -	13	6	16		
lowa	17	14	183	2	1	83	220	34	2	1	2		
Mo. N. Dak.	53 -	98	1,585	1 1	- 1	1,357	1,854 5	23	7	1	14		
S. Dak.	2	-	166	-	-	24	28	-	1	1	-		
Nebr. Kans.	15 38	20 39	388	1 4	-	57 396	173 507	-	1 2	3	-		
S. ATLANTIC	880	2,666	6,779	9	_	16,038	18,347	19	48	10	32		
Del.	32	69	· -	-	-	227	322	-	-	-	-		
Md. D.C.	69 64	348 140	723 N	N	-	2,126 700	2,543 972	-	2	1 1	8 1		
Va.	36	233	1,631	N	-	1,192	1,686	1	-	2	-		
W. Va. N.C.	7 1	13 160	-	N 4	-	95 3,136	106 4,227	4 6	14 12	1 3	3 7		
S.C.	13	165	-	1	-	2,037	1,951	1	1	1	3		
Ga. Fla.	215 443	383 1,155	1,165 3,260	1	-	3,620 2,905	3,297 3,243	- 7	6 13	- 1	4 6		
E.S. CENTRAL	152	381	1,121	5	_	4,074	7,225	66	263	9	7		
Ky.	43	38	-	_	-	637	808	1	2	2	2		
Tenn. Ala.	56 35	167 103	1,101	N 1	-	1,201 2,109	1,807 3,150	65 -	260 1	3	3 1		
Miss.	18	73	20	2	-	127	1,460	-	-	4	1		
W.S. CENTRAL	495	904	990	3	1	2,432	4,500	49	12	-	3		
Ark. La.	19 113	45 168	-	2 N	1	438 1,322	560 1,975	8	3	-	1		
Okla.	1	57	990	1	-	672	58	32	7	-	2		
Tex. MOUNTAIN	362 120	634 408	- 757	8	1	986	1,907 1,442	9 111	2 57	- 5	- 18		
Mont.	2	7	-	-	-	2	19	3	2	-	1		
ldaho Wyo.	1	15 4	229 102	2	-	12 6	26 8	43 29	8 22	-	1		
Colo.	54	187	-	3	1	304	467	4	15	4	10		
N. Mex.	8	34	-	- N	-	146	194 448	20	5 2	-	1 1		
Ariz. Utah	37 17	88 5	68	2	-	385 26	31	8 4	3	-	2		
Nev.	1	68	358	1	-	105	249	-	-	1	2		
PACIFIC Wash.	703 65	1,842 145	1,662 1,470	16 3	4 4	2,846 394	5,422 408	70 11	93 11	10 -	5		
Oreg.	48	59	- 1,470	5	-	46	60	2	5	-	-		
Calif. Alaska	580 3	1,547 29	- N	6	-	2,280 66	4,700 156	31	69	10	3		
Hawaii	7	62	192	N	-	60	98	25	8	-	2		
Guam	<u>-</u>	-	-	N		-	12	-	-	-	-		
P.R. V.I.	255 1	494	N N	N N	U U	28	75 3	8	12	-	-		
Amer. Samoa	-	-	-	N	U	-	6	-	-	-	-		
C.N.M.I.	-	-	N	N	U	-	4	-	-	-	-		

N: Not notifiable

U: Unavailable

-: no reported cases

C.N.M.I.: Commonwealth of Northern Mariana Islands

^{*}Updated monthly to the Division of HIV/AIDS Prevention, National Center for Prevention Services, last update January 30, 1996.

†National Electronic Telecommunications System for Surveillance.

§Public Health Laboratory Information System.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending February 24, 1996, and February 25, 1995 (8th Week)

	Lyme Disease		Mal		Mening Dise	ococcal	Syp (Primary &	hilis Secondary)	Tubero	ulosis	Rabies, Animal		
Reporting Area	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	
UNITED STATES	367	626	116	143	575	499	1,441	2,436	1,605	1,771	418	810	
NEW ENGLAND	22	24	4	7	23	31	24	30	43	29	53	226	
Maine N.H.	-	- 1	1	- 1	6 1	2 7	-	- 1	4	- 1	- 5	33	
Vt.	-	1	1	-	1	2	-	-	-	-	11	28	
Mass. R.I.	4 13	2	2	2	7	10	12	13	16 7	11 6	14 7	108	
Conn.	5	20	-	4	8	10	12	16	16	11	16	57	
MID. ATLANTIC	305	504	35	31	40	50	47	164	173	287	72	194	
Upstate N.Y. N.Y. City	89 124	200 27	9 17	3 14	9 5	17 8	18	13 92	23 67	30 144	23	117 -	
N.J.	-	78	6	10	14	16	16	31	62	59	20	37	
Pa.	92	199	3	4	12	9	13	28	21	54	29	40	
E.N. CENTRAL Ohio	6 4	5 3	12 3	21 1	68 32	76 20	308 128	402 121	298 48	229 38	4 2	1 1	
Ind.	2	1	1	1	5	12	41	39	20	8	-	-	
III. Mich.	-	1 -	2 5	15 2	21 4	27 10	83 32	143 62	193 30	135 44	-	-	
Wis.	-	-	1	2	6	7	24	37	7	4	2	-	
W.N. CENTRAL Minn.	13 -	11 -	2	5 3	50 3	26 1	58 -	139 6	43 11	50 10	42 3	42 4	
lowa Mo.	9	4	1 1	2	15 19	7 12	4 51	10 121	5 16	15 15	25 3	10 7	
N. Dak.	-	-	-	-	1	-	-	-	-	-	4	5	
S. Dak. Nebr.	-	-	-	-	2 5	2	3	2	5	-	7	11	
Kans.	4	7	-	-	5	4	-	-	6	10	-	5	
S. ATLANTIC	17	65	23	33	88	87	473	638	157	299	207	240	
Del. Md.	12	8 47	2 10	1 6	1 11	1 1	9 70	4 65	- 27	9 66	10 62	11 58	
D.C.	-	-	1	3	2	1	15	26	10	16	-	1	
Va. W. Va.	2	1 5	5	6	5 3	10	56 1	85 -	1 11	6 13	52 3	44 11	
N.C.	3	3	3	4	15	11	157	186	36	16	35	51	
S.C. Ga.	-	1 -	2	3	16 26	11 27	71 46	90 112	31	43 40	6 34	16 39	
Fla.	-	-	-	10	9	25	48	70	41	90	5	9	
E.S. CENTRAL	-	5	-	1	44	26	370	578	138	135	8	34	
Ky. Tenn.	-	3	-	-	7 3	9 5	32 84	37 123	31	17 53	-	3 18	
Ala. Miss.	-	2	-	1	17 17	8 4	108 146	109 309	58 49	65	8	13	
W.S. CENTRAL	-	_	1	-	76	52	140	309	82	73	3	22	
Ark.	-	-	-	-	9	5	41	70	10	23	-	12	
La. Okla.	-	-	-	-	16 3	5 7	78 22	174 26	9	25	3	8 2	
Tex.	-	-	1	-	48	35	-	54	63	25	-	-	
MOUNTAIN Mont.	-	1	8	8 1	44 1	39 1	19	45 2	65	60	6	7 3	
Idaho	-	-	1	-	4	2	1	-	2	2	-	-	
Wyo. Colo.	-	-	4	5	4 4	1 10	9	21	12	3	4	-	
N. Mex.	-	-	1	2	10	6	-	8	2	13	1	-	
Ariz. Utah	-	-	1 1	-	14 3	17 1	6	9 1	39	38 3	1	4	
Nev.	-	1	-	-	4	i	3	4	10	1	-	-	
PACIFIC Wash.	4	11	31	37 4	142 9	112 10	1 -	116 1	606 37	609 34	23	44	
Oreg.	2	-	4	3	26	25	1	1	15	4	-	-	
Calif. Alaska	2	11 -	26	28 1	103 2	76 -	-	114 -	525 11	532 13	20 3	42 2	
Hawaii	-	-	1	1	2	1	-	-	18	26	-	-	
Guam P.R.	-	-	-	-	-	1 9	- 29	1 44	-	4	- 4	- 11	
V.I.	-	-	-	-	-	9	-	- 44	-	-	- -	-	
Amer. Samoa C.N.M.I.	-	-	-	-	-	-	-	-	-	2 5	-	-	

N: Not notifiable

U: Unavailable

-: no reported cases

TABLE III. Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending February 24, 1996, and February 25, 1995 (8th Week)

	H. influ	-		Hepatitis (vi		Measles (Rubeola)				
	inva		Cum.	A Cum.	Cum.		Ind	igenous	lmp	orted [†]
Reporting Area	Cum. 1996*	Cum. 1995	1996	1995	tum. 1996	Cum. 1995	1996	Cum. 1996	1996	Cum. 1996
UNITED STATES	176	220	3,157	3,429	891	1,167	1	6	-	1
NEW ENGLAND	4	8	29	23	3	39	-	3	-	-
Maine N.H.	4	-	5 2	6 1	-	1 3	-	-	-	-
Vt. Mass.	-	1 1	13	3	1 1	1 5	-	3	-	-
R.I.	-	-	2	6	1	6	-	-	-	-
Conn.	-	6	7	7	-	23	U	-	U	-
MID. ATLANTIC Upstate N.Y.	26 9	23 6	194 36	144 21	146 32	119 35	-	1 -	-	-
N.Y. City N.J.	2 8	4 5	138	69 28	100	21 40	-	1	-	-
Pa.	7	8	20	26	14	23	-	-	-	-
E.N. CENTRAL	26	48	285	599	96	183	-	-	-	-
Ohio Ind.	18 -	25 3	165 57	347 29	19 9	13 37	-	-	-	-
III. Mich.	8	17 3	13	123	7	56 69	-	-	-	-
Wis.	-	- -	43 7	59 41	58 3	8	-	-	-	-
W.N. CENTRAL	10	5	256	144	85	90	-	-	-	-
Minn. Iowa	6	1	3 82	9 8	2 35	1 11	-	-	-	-
Mo.	4	4	121	109	35	70	-	-	-	-
N. Dak. S. Dak.	-	-	2 10	1 -	-	-	-	-	-	-
Nebr. Kans.	-	-	14 24	9 8	2 11	4 4	-	-	-	-
S. ATLANTIC	34	53	106	142	148	153	1	1	-	_
Del.	-	-	1	2	-	1	U	-	U	-
Md. D.C.	11 -	20	31 3	30 1	48 1	37 7	1 -	1 -	-	-
Va. W. Va.	2	6	10 4	33 5	17 6	13 11	U	-	U	-
N.C.	5	10	19	17	57	43	-	-	-	-
S.C. Ga.	1 15	- 7	11	3 5	6	3 5	-	-	-	-
Fla.	-	10	27	46	13	33	-	-	-	-
E.S. CENTRAL	4	3	104	162	12	153	-	-	-	-
Ky. Tenn.	1 -	1 -	4 19	15 113	1 6	17 116	-	-	-	-
Ala. Miss.	3	2	26 55	23 11	5 -	20	-	-	-	-
W.S. CENTRAL	7	6	548	239	63	54	-	-	-	-
Ark.	-	1	94	12	6	1	-	-	-	-
La. Okla.	- 7	5	9 283	10 83	6 19	5 11	-	-	-	-
Tex.	-	-	162	134	32	37	-	-	-	-
MOUNTAIN Mont.	13	21	481 10	634 10	135	89 4	-	-	-	-
Idaho	1	1	70 5	74	17	14	-	-	-	-
Wyo. Colo.	3 1	1 2	5 24	25 94	4 9	1 20	-	-	-	-
N. Mex. Ariz.	4 2	4 6	92 125	132 148	66 12	30 13	-	-	-	-
Utah	1	2	124	128	20	2	-	-	-	-
Nev.	1	5	31	23	7	5	-	-	-	-
PACIFIC Wash.	52	53 3	1,154 65	1,342 43	203 11	287 12	-	1 1	-	1 -
Oreg.	7 43	6 42	183	257 1,022	13 176	19 252	-	-	-	-
Calif. Alaska	-	-	875 12	13	2	1	-	-	-	-
Hawaii	2	2	19	7	1	3	-	-	-	1
Guam P.R.	-	3	12	3	33	19	U -	-	U -	-
V.I. Amer. Samoa	-	-	-	-	-	1	U	-	U	-
C.N.M.I.	-	-	-	4 5	-	-	U U	-	U U	-

^{*}Of 33 cases among children aged <5 years, serotype was reported for 8 and of those, 1 was type B.

[†]For imported measles, cases include only those resulting from importation from other countries.

N: Not notifiable

TABLE III. (Cont'd.) Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending February 24, 1996, and February 25, 1995 (8th Week)

	Measles (Rubeola), cont'd.			Mumn		<u> </u>	Pertussi		Rubella			
Reporting Area	Cum. 1996	Cum. 1995	1996	Mump Cum. 1996	Cum. 1995	1996	Cum. 1996	Cum. 1995	1996	Cum. 1996	Cum. 1995	
UNITED STATES	7	47	10	85	105	29	218	394	2	19	11	
NEW ENGLAND	3	3	-	-	-	8	35	41	_	2	2	
Maine N.H.	-	-	-	-	-	2	2 6	5 5	-	-	- 1	
Vt.	-	-	-	-	-	-	5	2	-	-	-	
Mass. R.I.	3	1 2	-	-	-	6	22	26	-	-	1	
Conn.	-	-	U	-	-	U	-	3	U	2	-	
MID. ATLANTIC	1	-	3	12	13	2	30	33	-	-	-	
Upstate N.Y. N.Y. City	1	-	3 -	5 2	3 2	1 1	23 5	19 9	-	-	-	
N.J.	-	-	-	-	-	-	2	3	-	-	-	
Pa. E.N. CENTRAL	-	-	- 4	5 24	8 16	- 7	40	2 49	-	-	-	
Ohio	-	-	3	13	7	7	31	23	-	-	-	
Ind. III.	-	-	-	1	2	-	2	3	-	-	-	
Mich.	-	-	1	10	7	-	5	21	-	-	-	
Wis.	-	-	-	-	-	-	2	2	-	-	-	
W.N. CENTRAL Minn.	-	1	-	2	9	-	1 1	18	-	-	-	
lowa	-	-	-	-	1	-	-	1	-	-	-	
Mo. N. Dak.	-	1 -	-	2	8 -	-	-	7 1	-	-	-	
S. Dak.	-	-	-	-	-	-	-	2	-	-	-	
Nebr. Kans.	-	-	-	-	-	-	-	1 6	-	-	-	
S. ATLANTIC	1	-	2	8	15	2	18	41	_	-	1	
Del. Md.	- 1	-	U	2	4	U 2	13	1	U	-	-	
D.C.	-	-	1 -	-	-	-	-	1	-	-	-	
Va. W. Va.	-	-	U	2	4	U	-	-	U	-	-	
N.C.	-	_	-	-	3	-	-	30	-	-	-	
S.C. Ga.	-	-	1	3 1	1	-	2 1	7	-	-	-	
Fla.	-	-	-	-	3	-	2	2	-	-	1	
E.S. CENTRAL	-	-	-	3	4	1	6	9	-	-	-	
Ky. Tenn.	-	-	-	-	-	-	4	-	-	-	-	
Ala.	-	-	-	3	2	-	1	9	- N.	- NI	- N	
Miss. W.S. CENTRAL	-	-	-	3	2 7	1	1 3	8	N	N	N	
Ark.	-	-	-	-	2	-	2	-	-	-	-	
La. Okla.	-	-	-	3	1	-	1	-	-	-	-	
Tex.	-	-	-	-	4	-	-	8	-	-	-	
MOUNTAIN	-	43	-	8	4	1	22	135	-	-	2	
Mont. Idaho	-	-	-	-	-	-	2 2	2 47	-	-	-	
Wyo.	-	-	-	-	-	-	-	-	-	-	-	
Colo. N. Mex.	-	17 21	N	N	N	-	9	30 4	-	-	-	
Ariz.	-	5	-	-	-	-	2	51	-	-	2	
Utah Nev.	-	-	-	8	1 3	1 -	1 6	1	-	-	-	
PACIFIC	2	-	1	25	37	8	63	60	2	17	6	
Wash. Oreg.	1	-	- N	2 N	1 N	1 -	6 13	9 1	-	-	-	
Calif.	-	-	-	15	33	6	42	48	2	17	6	
Alaska Hawaii	- 1	-	- 1	1 7	2 1	- 1	2	2	-	-	-	
Guam		_	U	-	-	Ü	-	-	U	-	_	
P.R.	-	-	-	-	-	-	-	1	-	-	-	
V.I. Amer. Samoa	-	-	U U	-	1 -	U U	-	-	U U	-	-	
C.N.M.I.		-	Ŭ	-	-	Ŭ	-	-	ŭ	-	-	

N: Not notifiable

U: Unavailable

-: no reported cases

TABLE IV. Deaths in 121 U.S. cities,* week ending February 24, 1996 (8th Week)

	All Causes, By Age (Years)						po t	All Causes, By Age (Years)						no it	
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I [†] Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&l [†] Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass New Haven, Conn. Providence, R.I. Somerville, Mass. Waterbury, Conn.	38 55 2 48 38	447 126 33 19 24 U 29 12 25 22 47 2 34	12 3 3 0 7 3 7 5 - 8 7	47 18 3 2 1 U 1 1 2 4 3 - 4 4	12 8 - - - - - - - - - - - - - - - - - -	8 2 - - - - 3 - - 1	34 7 2 1 U 4 2 1 1 3	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del. E.S. CENTRAL	1,508 217 249 191 138 111 61 84 53 61 182 151 10	913 127 144 115 100 58 38 49 33 44 132 67 6	352 51 55 51 29 29 14 23 12 36 38 2	157 25 35 13 6 16 2 7 5 3 7 36 2	49 10 6 9 3 6 3 2 1 1 3 5	34 4 8 3 2 4 3 2 1 3 4	82 6 19 14 2 1 2 3 7 4 20 4
Worcester, Mass. MID. ATLANTIC Albany, N.Y. 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. 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.	67 2,584 46 16 70 33 1,374 55 50 400 57 26 126 34 21 78 26 23 31	47 1,709 40 15 53 23 10 30 34 873 25 37 18 87 300 275 54 20 18 19	1 12 6 5 14 283 12 7 75 13 3 20 1 3 19 4 2	4 275 2 - 1 12 176 13 8 32 4 2 14 2 - 1 1 1	1 57 1 2 2 2 3 1 25 1 2 8 2 4 - 1 1 1 3 3 3 1 2 3 8 2 1 3 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	2 49 - 1 2 17 43 10 11 - 3 - 1	6 141 7 12 22 3 60 5 5 21 4 9 2 1 4 5	E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	141 37 76 70 182 53 60 115 1,481 60 43	91 26 52 52 123 38 44 75 976 43 32 46 125 60 71 234 41 61 147 29 87	132 28 7 14 13 30 9 11 20 297 11 3 50 14 19 100 23 35 4	11 4 10 5 16 1 16 137 6 21 4 12 4 3 5 13 15 5 5 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	14 11 1 2 39 1 8 4 5 11 3 5 1	32 32 35 37 41 14 44	54 7 1 9 1 21 3 4 8 96 7 - 5 8 3 - 43 7 - 12 4 7
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	292 60 128 46 55 113 69 900 106 20 1129 37	1,587 47 289 53 108 132 96 88 32 46 10 45 100 36 44 38 82 58 642 75 642 75 150 150 150 68	9 114 12 29 27 37 7 12 4 2 60 9 14 4 7 3 20 5 149 19 4 10 22 9 28 14 20 20 20 20 20 20 20 20 20 20 20 20 20	210 5 1 7 13 16 6 20 3 4 3 5 24 5 6 2 2 4 7 5 6 3 2 4 7 5 6 6 2 2 8 8 8 8 8 8 8 8 8 8 9 8 8 8 8 8 8 8	70 1 17 4 4 2 3 9 1 6 - 3 10 1 4 - 2 - 1 1 7 - 1 7 - 1 7 - 1 - 1 - 1 - 1 - 1	644	167 7 438 5 24 9 7 2 6 - 6 10 3 11 3 8 3 9 3 42 4 2 - 10 1 12 3 - 5 5	MOUNTAIN Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Diego, Calif. San Francisco, Calif. San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	124 230 299 184 32 90 161 1,718 18 95 16 65 86 392 30 150 135	696 78 33 86 149 24 66 117 1,171 64 14 55 257 255 101 96 74 23 72 37 67 8,642	181 18 17 19 49 2 2 32 5 13 26 30 4 21 64 30 25 30 22 4 21 6 64 21 64 30 22 4 21 64 22 4 21 64 22 4 22 4 22 4 4 22 4 4 4 4 4 4 4 4	91 16 4 12 23 11 15 2 7 11 159 4 4 4 41 13 5 20 19 11 3 3 9	34 2 4 2 6 1 10 2 7 44 1 4 - 2 15 2 2 6 5 1 1 2 2 2 1 2 2 3 3 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	23 2 2 5 2 1 8 1 2 2 - 1 1 4 15 1 1 3 3 2 2 2 1 1 2 2 2 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2	82 5 81 11 17 31 2 5 10 145 17 6 6 11 12 4 15 20 22 10 24 2 3 3 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. 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 these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Total includes unknown ages.
U: Unavailable -: no reported cases

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