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MORBIDITY AND MORTALITY WEEKLY REPORT

Epidemiologic Notes and Reports

Severe Acute Respiratory Illness Linked to Use of Shoe Sprays — Colorado, November 1993

On November 3, 1993, the Colorado Department of Health (CDH) was notified of acute respiratory illness in a Colorado woman following use of an aerosolized leathershoe conditioner. Active surveillance by CDH identified two additional cases. This report summarizes the case investigations.

Patient 1

On November 2, a 44-year-old woman sprayed the entire contents of a 5-oz can of aerosolized leather-shoe conditioner on a pair of boots; the application lasted approximately 5 minutes. She used the product in a small, poorly ventilated room. Approximately 45 minutes later, she developed a severe cough, burning of her eyes and throat, shortness of breath, weakness, wheezing, myalgia, headache, and slurred speech. She was taken to an emergency department; her temperature was 101.1 F (38.4 C); pulse, 100 per minute; blood pressure, 110/60; and respiratory rate, 28 per minute. She had bilateral rales on lung examination and an oxygen partial pressure (PO₂) of 60 mmHg in arterial blood on 3 liters of oxygen through a nasal canula. A chest radiograph revealed bilateral midzone interstitial infiltrates. On admission to the hospital, her white blood cell count was 21,300 cells per mm³ with 90% segmented forms, and her hematocrit was 47.3%. Results of tests for liver function, electrolytes, urea, and creatinine were normal. Within 1–8 hours following admission, she developed vomiting, chills, and epigastric cramping. Treatment was initiated with amantadine, erythromycin, and a bronchodilator.

On November 3, the patient's dyspnea had resolved, and she was afebrile; her pulse and respiratory rate were normal. Her chest radiograph showed an almost complete clearing of the pulmonary infiltrates. A persistent dry cough, abdominal cramps, and vomiting resolved gradually during the next 36 hours.

The patient had had a mild upper respiratory-tract illness for 3–4 days before using the spray. She has a 28-year history of smoking approximately 20 cigarettes per day but reportedly did not smoke on November 2 because of her respiratory-tract illness. She had no past history of severe respiratory illness.

Severe Acute Respiratory Illness — Continued

As a result of this case, CDH initiated active surveillance for additional cases of acute respiratory illness. Directors of emergency departments and intensive-care units at hospitals in metropolitan Denver were contacted by telephone and facsimile to identify case-patients previously treated for this illness and to request reporting of future cases. In addition, CDH issued a news release to warn the public of the adverse health effects associated with use of sprays in poorly ventilated areas. CDH retrospectively identified two additional cases: patient 2 was identified by patient 1, and patient 3 was identified by a pulmonologist who had read about patient 1 in the newspaper.

Patient 2

An 11-year-old boy, who was in an adjacent room when patient 1 used the leather conditioner, developed a burning throat, shortness of breath, cough, and abdominal pain approximately 45 minutes after exposure. He did not seek medical attention.

Patient 3

On November 1, a 23-year-old nonsmoking man sprayed three pairs of shoes with a water and soil repellant (a nonaerosol pump spray) in an enclosed garage with a partially open door. Within 30 minutes, he developed chest tightness, a nonproductive cough, dizziness, lightheadedness, shortness of breath, and tachycardia; within 1–2 hours, he developed severe chills. On November 2, the patient continued with a non-productive cough and had an episode of posttussive emesis, a temperature of 100 F (38 C), chest tightness, and nasal congestion. On November 3, he was admitted to the hospital with a temperature of 99.5 F (37.5 C) and pulse of 104. Chest radiograph showed bilateral upper-lobe alveolar/interstitial infiltrates. He was treated with supplemental oxygen and bronchodilators and was discharged November 4.

As a result of these cases, the manufacturer of the implicated leather conditioner spray issued a voluntary nationwide recall of the product on November 3. The Consumer Product Safety Commission is investigating the water and soil repellant as well as other products of the manufacturer.

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Editorial Note: In December 1992, at least 157 persons nationwide consulted physicians about acute respiratory illnesses following the use of reformulated Wilsons Leather Protector (1). In August 1993, another reformulated leather conditioner, Magic Guard, was associated with 38 cases of similar respiratory illness in Pennsylvania and Virginia. Symptoms typically began within 6 hours after using the products and most frequently included shortness of breath, coughing, and chest tightness. Of these 198 reported cases (including the three described in this report), 23 persons have been hospitalized; none have died.

The shoe sprays linked recently to illness had been reformulated to eliminate 1,1,1 trichloroethane (i.e., methyl chloroform), an ozone-depleting solvent, from the

Severe Acute Respiratory Illness — Continued

formula, in accordance with Title VI of the Clean Air Act amendments of 1990*. This legislation prohibits the sale or distribution of nonessential aerosol products that release Class I substances[†] (such as 1,1,1 trichloroethane) and requires reformulation of products containing such substances by January 1994. In addition, the fluoropolymers and the propellants in these sprays had been changed. The product changes to the leather conditioner and the water and soil repellant sprays involved the solvent (from 1,1,1 trichloroethane to hexane and 2,2,4 trimethylpentane, respectively), the propellant (from carbon dioxide to isobutane and isooctane, respectively), and the fluoropolymers (from FC-905 and FC-3537, respectively, to FS-4565).

The illnesses described in this report appear to be either acute chemical pneumonitis or polymer-fume fever. Diseases with similar symptoms and signs include atypical pneumonia, congestive heart failure, hypersensitivity pneumonitis, and adult respiratory distress syndrome. Many chemicals cause pulmonary symptoms, usually related to either direct injury to airway cells or an exaggeration of normal physiologic responses (2). Chemical pneumonitis is caused by inhalation of hydrocarbons (3) and polymer-fume fever, by inhalation of fumes containing pyrolytic products released when fluoropolymers are heated to high temperatures and has been associated with smoking of cigarettes contaminated with fluoropolymers (4).

Consumers should be warned about potential adverse health effects linked to use of shoe sprays (aerosol and nonaerosol) in enclosed areas. Any spray containing polymers or solvents should be used only in adequately ventilated areas. In addition, manufacturers of shoe sprays should be aware that problems have occurred following reformulation.

State health departments are requested to report to CDC persons who have been hospitalized following exposure to any shoe spray (aerosol or nonaerosol). Standardized case-report forms are available from CDC's Air Pollution and Respiratory Health Branch, Division of Environmental Hazards and Health Effects, National Center for Environmental Health, telephone (404) 488-7320.

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Health Objectives for the Nation

Dental Health of School Children — Oregon, 1991–92

Dental caries remains among the most prevalent diseases of both children and adults. To establish a baseline for monitoring oral disease trends in Oregon, the State Health Division, Oregon Department of Human Resources; Oregon Health Sciences

^{*}Public Law no. 101-549, §610 (42 U.S.C. §7671).

[†]Controlled substances that include chlorofluorocarbons, halons, methyl chloroform, and carbon tetralchloride.

Dental Health — Continued

University; and Multhomah County Health Department collaborated in a statewide assessment of oral health needs. Phase 1 (1991–92) evaluated Head Start and elementary school children. Phase 2 (1993) is assessing the oral health of adults. This report presents the results of Phase 1.

The study population was a convenience sample of 2872 Head Start and elementary school children. Seventeen communities representing all of the state's 13 administrative districts were selected to ensure that certain age and racial/ethnic groups were included in the survey. Elementary schools within each community were selected randomly. In the elementary schools, students in first and second grades (aged 6–8 years) and fifth and sixth grades (aged 10–12 years) who returned consent forms (n=2084, approximately 40% of the children in those classes) were examined for dental caries and other oral conditions. Head Start children aged 3–5 years (n=788) were examined at five different programs within the state. Two dental professionals completed clinical examinations following the protocol and criteria used for prevalence surveys conducted by the National Institute of Dental Research (1).

Among children aged 3–5 years, 47% had experienced dental caries (Table 1). Among these children, 4% needed urgent dental care (i.e., had signs of a dental abscess or a statement that the child had been awakened at night by dental pain), 26% needed routine restorative treatment, and 17% had fillings but no active decay.

Among children aged 6–8 years, 55% had experienced dental caries in their permanent or primary teeth or in both (Table 1): 5% required urgent care, 23% needed routine restorative treatment, 24% had had all of their carious lesions filled, and 3% had primary anterior teeth that were decayed but might not require treatment because exfoliation was imminent (i.e., teeth already were loose or all other disease had been treated). Fifteen percent of these children had dental sealant on at least one permanent molar tooth (Figure 1).

Age group	White (n=2229)	Black (n=221)	Hispanic (n=224)	American Indian/ Alaskan Native (n=95)	Asian/ Pacific Islander (n=103)	Total (n=2872)
	(n=515)	(n=117)	(n=82)	(n=51)	(n=23)	(n=788)
3–5 yrs With dental caries* Needing treatment	46% 28%	36% 21%	52% 35%	71% 55%	57% 26%	47% 30%
	(n=1168)	(n=56)	(n=113)	(n=23)	(n=48)	(n=1408)
6-8 yrs With dental caries [†] Needing treatment	52% 26%	64% 29%	65% 43%	91% 43%	67% 46%	55% 28%
	(n=546)	(n=48)	(n=29)	(n=21)	(n=32)	(n=676)
10–12 yrs With dental caries [§] Needing treatment	44% 21%	48% 23%	48% 21%	62% 29%	69% 38%	46% 22%

TABLE 1. Dental health status of school children, by age group and racial/ethnic group — Oregon, 1991–92

* Primary teeth only.

[†]Primary and permanent teeth.

§Permanent teeth only.

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Dental Health — Continued

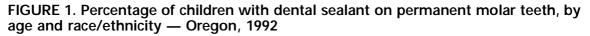
Among children aged 10–12 years, 2% required urgent care, 20% needed routine restorative treatment, and 24% had all decay treated. Twenty-eight percent of the students had had dental sealant on at least one permanent molar tooth (Figure 1).

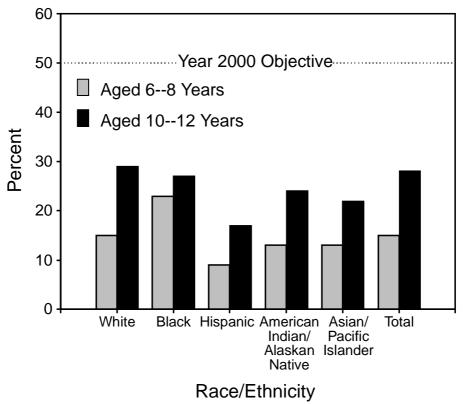
When the data were stratified by race/ethnicity, children of minority groups had higher prevalences of dental caries and untreated disease (Table 1). For example, among children aged 6–8 years, American Indians/Alaskan Natives had the highest prevalence of disease, and higher proportions of Asians/Pacific Islanders, Hispanics, and American Indians/Alaskan Natives required dental treatment.

When the data were stratified by urban (\geq 10,000 population)/rural status, differences appeared in the proportion of children in need of dental care, even among racial/ethnic groups with the lowest disease rates. For example, among 10–12-year-old white children, 16% in urban areas and 26% in rural areas needed dental treatment (p=0.1).

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Editorial Note: The findings in this report indicate that substantial differences in oral health status exist among racial/ethnic groups. In addition, Oregon must make substantial progress to achieve the national health objectives for the year 2000 regarding oral health (objectives 13.1, 13.2, and 13.8) (*2*). These data are the first systematic comparison of dental caries prevalence among multiple racial/ethnic groups in a specific geographic area and among the first compiled during the 1990s for evaluating





Dental Health — Continued

progress of an individual state toward achievement of the national health objectives regarding oral health.

Variations in oral health status among racial/ethnic groups may reflect other characteristics associated with a history of dental caries. Higher prevalence of dental caries and untreated disease have been found among children of parents who have lower educational levels and incomes (3,4); are members of immigrant groups that remain less acculturated (5); lack dental insurance coverage (6); and live in rural areas (1,3). In this sample, larger proportions of American Indian/Alaskan Native and Hispanic children lived in rural areas.

The prevalence of dental sealant among children in this survey exceeds that found in surveys in other geographic areas (2,3,7) but does not approach the national health objective of 50%. The higher proportion of blacks aged 6–8 years with dental sealant on their first permanent molars may be associated with the county in which most blacks in Oregon live (Multnomah County [Portland]), which operates a school-based program to apply dental sealant. In addition, public health personnel in Oregon may emphasize dental sealant programs because relatively few children have access to fluoridated water.

Oregon remains among the states and territories with the smallest proportion of its population receiving fluoridated water at optimal levels (8). Although water fluoridation for larger water systems is particularly cost-effective (9), only 11 of 39 Oregon cities or census-defined places with populations \geq 10,000 and only one of three cities with \geq 100,000 persons (1990 census) are fluoridated.

Several factors may contribute to the observed urban/rural differences in treatment needs. Community- and school-based programs may not exist in many rural areas, thus limiting access to primary preventive measures such as fluoridated water, fluoride mouthrinse, or dental sealant. In addition, access to care may be restricted in rural areas because most dentists practicing in these areas may not be "active" * Medicaid providers.

Reaching preschool children before dental caries occurs will require the cooperation of other health professionals. During well-child appointments, primary-care providers (e.g., pediatricians and nurse practitioners) should screen and refer young children for oral health prevention services (10).

Although the sample in Oregon was selected to ensure representation of all racial/ethnic groups and to allow comparison of their dental caries rates, anecdotal reports suggest that the participation level (40%) was adversely affected by sending informed consent forms home with children; by parents' perception that children who receive regular dental care need not participate in the survey; and by concerns about transmission of human immunodeficiency virus in clinical dental settings.

A dental survey requires trained examiners and substantial travel. Because such surveys are costly, they are conducted infrequently. Current data are essential for planning programs that use resources most effectively; therefore, alternate methods for routine assessment of oral health status (e.g., telephone interview data and respondent-assessed measures) must be developed and validated.

^{*}Defined by the Oregon Health Division as having filed 50 or more Medicaid claims during the preceding fiscal year.

Dental Health — Continued

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Current Trends

Mortality Patterns — United States, 1991

In 1991, 2,169,518 deaths were registered in the United States—21,055 more than in 1990 and the most ever recorded (1). Despite this increase, the overall ageadjusted death rate* was 513.7 per 100,000 population, the lowest ever recorded. Provisional data for 1992 indicate that the death rate continued to decline through 1992 (1). As in previous years, nearly two thirds of deaths in 1991 were caused by the first three leading causes of death (i.e., heart disease, cancer, and stroke). This report summarizes mortality data for 1991 (2) and compares patterns with 1990.

National death statistics are based on information contained on death certificates filed in state vital statistics offices as required by state law and are compiled by CDC's National Center for Health Statistics into a national data base for monitoring the nation's health and for research. In this report, cause-of-death statistics are based on the underlying cause of death.[†] The causes of death are recorded on the death certificate

^{*} Age-adjusted to the 1940 U.S. population. Age-adjusted death rates indicate changes in the risk for death more effectively than crude death rates and are better indicators for comparisons of mortality by race or sex.

[†]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."

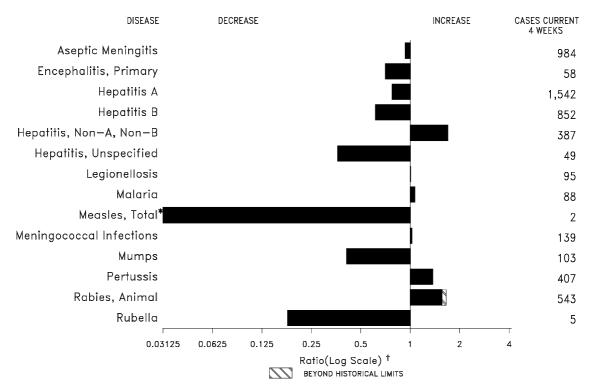


FIGURE I. Notifiable disease reports, comparison of 4-week totals ending November 20, 1993, with historical data — United States

*The large apparent decrease in reported cases of measles(total) reflects dramatic fluctuations in the historical baseline. (Ratio (log scale) for week forty-six is 0.00599).

[†]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 thehatched area begins is based on the mean and two standard deviations of these 4-week totals.

	Cum. 1993		Cum. 1993
AIDS* Anthrax Botulism: Foodborne Infant Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea <i>Haemophilus influenzae</i> (invasive disease) [†] Hansen Disease Leptospirosis Lyme Disease	83,485 - - - - - - - - - - - - -	Measles: imported indigenous Plague Poliomyelitis, Paralytic [§] Psittacosis Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year [¶] Tetanus Toxic shock syndrome Trichinosis Tuberculosis Tuberculosis Tularemia Typhoid fever, tickborne (RMSF)	55 222 10 - 51 1,493 40 204 13 18,881 115 312 441

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending November 20, 1993 (46th Week)

*Updated monthly; last update October 2, 1993. [†]Of 1046 cases of known age, 339 (32%) were reported among children less than 5 years of age. [§]Two (2) cases of suspected poliomyelitis have been reported in 1993; 4 of the 5 suspected cases with onset in 1992 were confirmed; the confirmed cases were vaccine associated.

[¶]Reports through second quarter of 1993.

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		Acontia	Enceph	alitis			Her	oatitis (\	/iral), by t	type		
Deporting Area	AIDS*	Aseptic Menin- gitis	Primary	Post-in- fectious	Gono	rrhea	A	В	NA,NB	Unspeci- fied	Legionel- losis	Lyme Disease
Reporting Area	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993
UNITED STATES	83,485	11,155	794	145	336,169	433,949	19,132	10,742	4,478	547	1,107	6,747
NEW ENGLAND	4,183	371	15	8	7,394	8,976	423	429	487	15	71	1,668
Maine N.H.	118 83	41 52	2	2	76 66	85 102	15 33	10 112	4 398	4	5 6	11 63
Vt. Mass.	58 2,210	42 153	4 7	- 4	22 2,773	23 3,227	8 200	8 220	4 73	- 11	2 40	5 165
R.I.	274	83	2	2	370	593	67	20	8	-	18	255
Conn.	1,440	-	-	-	4,087	4,946	100	59	-	-	-	1,169
MID. ATLANTIC Upstate N.Y.	20,227 3,118	847 488	58 41	9 6	40,256 7,845	49,615 9,911	956 399	1,172 388	357 241	6 1	217 74	3,721 2,267
N.Y. City	10,941	104	1	-	10,703	17,594	177	121	1	-	3	3
N.J. Pa.	3,909 2,259	255	16	3	5,135 16,573	6,825 15,285	247 133	356 307	83 32	5	32 108	678 773
E.N. CENTRAL	6,686	1,952	180	29	65,278	82,478	2,138	1,256	519	13	295	96
Ohio Ind.	1,286 718	684 201	64 20	4 11	20,492 7,308	24,631 7,972	288 561	165 211	36 15	- 1	151 51	40 26
III.	2,423	446	41	3	16,536	27,452	720	237	65	5	17	13
Mich. Wis.	1,606 653	582 39	45 10	11	15,578 5,364	18,557 3,866	188 381	355 288	365 38	7	58 18	17
W.N. CENTRAL	2,694	692	35	10	17,716	23,191	2,048	583	170	17	88	203
Minn. Iowa	579 159	95 145	12 5	- 2	2,286 1,431	2,669 1,442	391 53	68 33	12 9	4 4	2 15	111 8
Mo.	1,466	219	2	8	9,953	13,075	1,269	408	124	9	25	38
N. Dak. S. Dak.	2 22	12 21	3 7	-	38 193	67 156	63 16		-	-	1	2
Nebr.	164	26	1	-	476	1,451	181	19	10	-	38	4
Kans. S. ATLANTIC	302 17,732	174 2,337	5 216	- 57	3,339 88,510	4,331 128,204	75 1,120	55 2,035	15 715	- 86	7 197	40 835
Del.	308	74	3	-	1,357	1,573	10	144	141	-	12	394
Md. D.C.	2,039 1,181	223 33	24	-	14,651 4,409	14,381 5,736	142 11	246 38	24 1	5	44 14	147 2
Va.	1,273	297	37	7	10,516	13,740	137	131	41	40	9	72
W. Va. N.C.	66 960	53 235	111 31	-	580 22,380	746 21,990	26 82	39 273	33 67	-	4 25	50 79
S.C. Ga.	1,269 2,328	29 156	- 1	-	9,509 4,660	9,948 35,269	18 100	48 257	4 173	1 1	19 36	9 46
Fla.	8,308	1,237	9	50	20,448	24,821	594	859	231	39	34	36
E.S. CENTRAL	2,179	689	41	7	39,561	44,354	287	1,199	914	4	40	32
Ky. Tenn.	275 897	297 159	14 8	6	4,442 11,421	4,209 13,972	114 85	78 1,021	15 884	- 3	15 17	10 18
Ala.	611	161	3	-	14,486	15,497	53	94	5	1	2	4
Miss. W.S. CENTRAL	396 8,451	72 1,307	16 69	1 2	9,212 41,076	10,676 47,094	35 2,300	6 1,556	10 314	- 156	6 30	- 65
Ark.	327	62	1	-	8,255	6,711	48	53	4	2	4	2
La. Okla.	1,028 648	79 1	6 7	-	10,536 3,436	12,975 4,919	73 149	186 269	131 111	4 10	3 13	2 22
Tex.	6,448	1,165	55	2	18,849	22,489	2,030	1,048	68	140	10	39
MOUNTAIN	3,375	658	29	5	9,766	11,077	3,593	612 7	319	71	64	20
Mont. Idaho	29 58	11	-	1	70 148	102 108	71 251	71	3	3	5 1	2
Wyo. Colo.	33 1,106	7 209	- 15	-	74 3,103	50 4,040	13 787	29 65	101 50	- 39	6 9	9
N. Mex.	267	118	4	2	862	835	341	200	104	3	5	2
Ariz. Utah	1,136 231	172 64	8 1	- 1	3,569 320	3,777 291	1,262 731	81 52	13 32	12 13	13 10	2
Nev.	515	77	1	1	1,620	1,874	137	107	16	1	15	5
PACIFIC Wash.	17,958 1,337	2,302	151 1	18 -	26,612 3,285	38,960 3,515	6,267 715	1,900 206	683 167	179 9	105 10	107 4
Oreg. Calif.	680 15,586	- 2,166	- 144	- 18	1,059 21,168	1,491 32,900	85 4,717	30 1,636	13 490	1 166	- 87	2 100
Alaska	58	20	5	-	546	591	689	9	10	-	-	-
Hawaii	297	116	1	-	554 48	463 51	61 2	19 2	3	3	8	1
Guam P.R.	2,338	2 58	-	-	461	51 192	2 73	2 355	87	3 2	-	-
V.I. Amer. Samoa	40	-	-	-	90 40	90 46	- 19	4	-	-	-	-
C.N.M.I.	-	3	1	-	69	68	-	1	-	1	-	-

TABLE II. Cases of selected notifiable diseases, United States, weeks ending November 20, 1993, and November 14, 1992 (46th Week)

N: Not notifiable U: Unavailable *Updated monthly; last update October 2, 1993. C.N.M.I.: Commonwealth of Northern Mariana Islands

			Measle	s (Rube	ola)		Menin-					-			
Reporting Area	Malaria	Indig	enous	Impo	orted*	Total	gococcal Infections	Mu	mps	I	Pertussi	s		Rubella	1
J	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	1993	Cum. 1993	Cum. 1992
UNITED STATES	5 1,069	-	222	-	55	2,195	2,071	21	1,438	93	5,102	2,844	-	182	147
NEW ENGLAND Maine) 88 5	-	58 2	-	6	65 4	119 9	1	10	10	685 19	211 11	-	2 1	6 1
N.H.	6	-	2	-	-	13	14	-	-	2	242	49	-	-	-
Vt. Mass.	1 44	-	30 14	-	1 4	- 21	7 62	-	- 2	2	83 259	10 99	-	- 1	-
R.I. Conn.	5 27	-	1 9	-	1	21 6	1 26	- 1	2	4 2	10 72	3 39	-	-	4 1
MID. ATLANTIC	207	-	11	-	6	207	251	2	111	15	686	181		61	10
Upstate N.Y.	116	-	-	-	2	111	111	-	38	3	310	103	-	17	7
N.Y. City N.J.	24 42	-	5 6	-	2 2	56 40	19 38	-	2 12	-	7 51	20 58	-	22 16	- 3
Pa.	25	-	-	-	-	-	83	2	59	12	318	119	-	6	-
E.N. CENTRAL Ohio	68 15	-	21 7	-	6 2	61 6	328 94	5 3	220 71	29 20	1,167 431	632 95	-	7 1	10
Ind.	3	-	1	-	-	20	51	-	5	7	136	39	-	2	-
III. Mich.	33 17	-	5 5	-	- 1	18 13	89 58	- 2	59 70	- 2	288 104	49 14	-	1 2	9 1
Wis.	-	-	3	-	3	4	36	-	15	-	208	435	-	1	-
W.N. CENTRAL Minn.	29 9		1	-	2	14 12	144 15		47 2	15 14	527 310	289 104	-	1	8
lowa	3	-	-	-	-	1	25	-	9	1	37	9	-	-	3
Mo. N. Dak.	7 2	-	1	-	-	-	53 3	-	28 5	-	136 3	104 15	-	1	1
S. Dak. Nebr.	2 4		-		-	-	6 14	:	- 2	-	8 14	14 11	-	-	
Kans.	2	-	-	-	2	1	28	-	1	-	19	32	-	-	4
S. ATLANTIC	278	-	18	-	13	128 1	382	7	432	4	566	165	-	9 2	20
Del. Md.	2 43	-	1	-	- 4	16	13 50	- 2	6 76	3	14 132	7 32	-	2	- 5
D.C. Va.	11 34	-	-	-	- 4	- 16	5 44	- 3	1 35	-	12 59	1 15	-	-	-
W. Va.	2	-	-	-	-	-	13	2	20	-	8	9	-	-	1
N.C. S.C.	96 7	-	-	-	-	24 29	61 31	-	222 16	-	152 70	42 10	-	-	- 7
Ga. Fla.	20 63	-	1 16	-	- 5	3 39	88 77	-	16 40	1	36 83	17 32	-	- 5	-7
E.S. CENTRAL	28	-	10	-	-	467	133	1	48	3	266	29	-	1	, 1
Ky.	5	-	-	-	-	450	24	-	-	-	29	1	-	-	-
Tenn. Ala.	11 7	-	- 1	-	-	-	35 43	1	14 22	2 1	167 59	8 17	-	1	1
Miss.	5	-	-	-	-	17	31	-	12	-	11	3	-	-	-
W.S. CENTRAL Ark.	31 3	-	7	-	3	1,104	207 20	3	216 4	6 1	161 11	216 16	-	17	7
La. Okla.	6	-	1	-	-	- 12	35 28	-	17 11	-	12 96	10 38	-	1 1	-
Tex.	6 16	-	6	-	3	1,092	124	3	184	-	42	152	-	15	7
MOUNTAIN	34	-	5	-	1	35	158	1	62	5	386	391	-	10	8
Mont. Idaho	2 1	-	-	-	-	-	13 13	-	- 5	2 1	11 114	9 41	-	- 2	- 1
Wyo. Colo.	- 20	-	- 2	-	- 1	1 29	3 32	-	2 16	-2	1 132	- 87	-	- 1	- 2
N. Mex.	5	-	-	-	-	2	5	N	N	-	39	97	-	-	-
Ariz. Utah	1 2	-	2	-	-	3	72 13	-	13 4	-	48 37	121 34	-	2 4	2 1
Nev.	3	-	1	-	-	-	7	1	22	-	4	2	-	1	2
PACIFIC Wash.	306 28	-	100	-	18	114 11	349 69	1	292 10	6	658 67	730 196	-	74	77 8
Oreg.	5	-	-	-	-	3	23	N	N	-	31	41	-	3	1
Calif. Alaska	264 3	-	89 -	-	7 2	59 9	234 13	1	251 9	6	543 5	429 14	-	43 1	45
Hawaii	6	-	11	-	9	32	10	-	22	-	12	50	-	27	23
Guam P.R.	1	-	2 241	-	-	10 411	2 9	-	8 3	-	- 9	- 12	-	-	3 1
V.I.	-	-	-	-	-	-	7	-	4	-	-	-	-	-	-
Amer. Samoa C.N.M.I.	-	- 2	1 16	-	- 1	- 2	-	-	1 13	-	2 1	6 2	-	-	-
*For measles on	L		-						-			-			

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending November 20, 1993, and November 14, 1992 (46th Week)

*For measles only, imported cases include both out-of-state and international importations. N: Not notifiable U: Unavailable [†] International [§] Out-of-state

MMWR

	11000111								
Reporting Area		ohilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993
UNITED STATES	22,431	29,977	204	18,881	20,290	115	312	441	7,815
NEW ENGLAND	362	591	15	460	450	-	29	6	1,480
Maine N.H.	7 29	8 37	3 5	35 9	19 17	-	- 2	-	- 126
Vt.	1	1	1	5	6	-	-	-	31
Mass. R.I.	115 15	294 35	5 1	248 50	252 31	-	21	6	625
Conn.	195	216	-	113	125	-	6	-	698
MID. ATLANTIC	2,101	4,086	32	4,144	4,754	1	65	27	2,813
Upstate N.Y. N.Y. City	186 1,044	311 2,284	16 1	513 2,335	634 2,741	1	18 26	7	2,070
N.J.	288	503	-	727	792	-	15	10	401
Pa.	583	988	15	569	587	-	6	10	342
E.N. CENTRAL Ohio	3,200 1,018	4,554 726	42 11	1,706 278	1,989 285	4	38 8	13 8	106 6
Ind.	307	249	2	206	174	1	1	1	11
III. Mich.	938 515	2,081 831	8 21	722 417	1,035 415	2 1	21 7	2	22 18
Wis.	422	667	-	83	80	-	1	-	49
W.N. CENTRAL	1,374	1,331	12	438	475	38	2	23	311
Minn.	62	89	2	62	136	-		1	40
lowa Mo.	61 1,129	47 1,009	5 2	52 222	38 206	- 15	- 2	7 11	70 22
N. Dak.	1	1	-	5	9	-	-	-	51
S. Dak. Nebr.	1 10	- 24	-	12 18	20 21	17 3	-	3	41 10
Kans.	110	161	3	67	45	3	-	1	77
S. ATLANTIC	5,839	8,097	23	3,692	3,735	4	46	206	1,886
Del. Md.	90 337	185 562	1 1	42 338	43 343	-	1 8	1 11	128 573
D.C.	297	346	-	147	94	-	-	-	16
Va. W. Va.	567 13	644 17	7	386 68	305 82	-	6	11 6	358 84
N.C.	1,657	2,235	- 3	483	82 504	2	3	0 124	84 96
S.C.	847	1,086	-	346	352	-	-	10	149
Ga. Fla.	981 1,050	1,564 1,458	2 9	677 1,205	776 1,236	2	3 25	36 7	433 49
E.S. CENTRAL	3,558	3,829	11	1,421	1,321	4	7	56	194
Ky.	314	152	3	340	347	1	2	10	19
Tenn. Ala.	946 761	1,065 1,289	4 2	424 442	386 358	2 1	2 3	32 4	72 103
Miss.	1,537	1,323	2	215	230	-	-	10	-
W.S. CENTRAL	5,201	5,516	2	2,082	2,413	45	7	95	542
Ark. La.	662 2,294	788 2,302	-	157	186 198	27	- 1	7 1	37 6
Okla.	334	384	2	141	133	14	1	83	64
Tex.	1,911	2,042	-	1,784	1,896	4	5	4	435
MOUNTAIN Mont.	212 1	310 7	14	476 23	516	13 5	10	15 2	165 23
Idaho	-	1	2	12	21	-	-	-	6
Wyo.	8 65	5 58	- 2	6 49	- 60	3 1	- 5	10 3	22 27
Colo. N. Mex.	24	39	2	49 59	60 71	1	2	-	27
Ariz.	92	151	1	212	222	-	2	-	59
Utah Nev.	10 12	8 41	6 2	28 87	65 77	2 1	1	-	4 15
PACIFIC	584	1,663	53	4,462	4,637	6	108	-	318
Wash.	55	74	7	234	271	1	7	-	-
Oreg. Calif.	37 478	43 1,534	46	89 3,865	119 3,957	2 3	1 97	-	- 298
Alaska	8	4	-	49	52	-	-	-	20
Hawaii	6	8	-	225	238	-	3	-	-
Guam P.R.	2 454	3 290	-	31 185	59 200	-	1	-	- 42
V.I.	39	62	-	2	3	-	-	-	-
Amer. Samoa C.N.M.I.	- 7	- 6	-	2 37	- 50	-	1	-	-
G.IN.IVI.I.	1	0	-	31	50	-	-	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending November 20, 1993, and November 14, 1992 (46th Week)

U: Unavailable

	All Causes, By Age (Years)							2&I [†]		All Causes, By Age (Years)					
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, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn.	48 44 48 41	449 123 20 18 30 40 19 12 19 29 35 2 33 29	115 35 6 5 4 15 1 10 9 2 11 8	46 17 1 1 8 1 - 1 6 - 2 2	12 2 1 - - 3 - 1 2 - - 1 2	15 4 2 - 1 3 - - 1 - 2 1	62 22 2 2 3 4 1 3 5 - 3 6	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	1,400 208 262 78 114 114 49 U 47 72 179 254 23 764	837 122 153 45 82 56 30 U 34 51 112 133 19 523	290 33 62 17 15 30 11 0 6 12 47 55 2 139	178 37 27 15 13 20 4 U 3 3 11 43 2 58	48 7 9 3 2 3 U 4 4 3 13 - 27	44 9 11 1 4 1 U 2 5 10 - 17	78 4 27 3 7 1 4 U 6 3 21 2 50
Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§ Jersey City, N.J.	57 2,543 63 23 100 46 35 44 45	40 1,671 43 19 72 27 23 37 29	8 472 13 4 18 11 6 6 8	6 283 5 - 6 3 3 1 7	2 70 2 4 3	1 47 - 2 1 - - 1	7 125 7 1 4 3 1	Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	136 46 74 104 131 56 53 164	80 36 55 68 96 42 40 106	27 4 12 22 22 9 6 37	13 5 4 10 2 6 14	7 1 7 3 3 5	9 2 3 - 1 2	4 7 8 9 6 1 14
New York City, N.Y. New York City, N.Y. 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.		207 22 15 210 96 108 21 27 72 15 18 U	259 16 43 25 3 19 6 5 16 6 2 U	163 19 8 29 9 1 11 2 1 9 4 2 U	34 4 7 5 - 6 1 - 2 - U	18 3 1 10 4 - 2 1 - 4 - 4 - U	42 7 17 15 2 12 2 1 8 3 U	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.	1,297 67 84 55 218 67 104 347 80 107 U 68 100	813 43 58 37 131 48 65 198 45 59 U 53 76	247 12 11 7 40 9 21 81 22 21 U 10 13	146 10 7 29 4 11 39 9 15 U 3 9	58 1 5 3 8 4 7 22 6 U 1 1	30 1 10 2 7 4 3 U 1 1	60 5 4 2 6 - 6 28 3 - U 2 4
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Celveland, Ohio Dayton, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Micf Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio	2,183 84 33 412 156 159 40 145 297 55 72 23 1. 41 208 46 127 46 127 52 59 117 97	1,379 57 19 170 90 00 99 181 56 12 31 31 143 32 95 38 45 87 76	419 18 87 342 29 511 9 35 35 12 20 9 12 14	220 4 6 80 12 15 U 8 39 2 4 4 3 19 2 6 U 4 1 9 2 6 0 4 4 3 19 2 6 0 19 2 0 19 2 19 19 2 19 19 2 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10	115 663 4 U 7 10 1 1 4 2 7 - 1 U 1 1 2 4	50 4 9 1 8 U 2 14 - 2 U - 3 1	113 5 14 12 4 0 8 4 6 4 15 12 12 7 27 3	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. Pasadena, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif.	5. 55 62 158 32 213 32 107 107 171 2,070 18 134 31 85 98 456 21 159 185	12 89 21 64 52 276 16 107 129	10 28 5 40 2 14 30 364 2 24 8 9 20 85 3 40 33	73 14 5 10 3 22 1 8 9 229 3 12 - 10 17 66 2 7 13	25 1 1 3 9 3 6 - 5 8 5 8 5 1 2 3 14 4 5 9	18 2 5 2 9 - - 41 4 1 4 5 - 15	58 2 5 6 10 3 10 15 7 110 2 12 1 7 3 20 4 4 15 20 4 4 5 20 4 5 5 6 10 3 10 2 5 7 10 3 10 2 5 7 7 7 8 10 3 10 7 7 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 7 7 8 7
W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	804 45 28 37 97 37	592 30 26 27 72 28 144 68 110 45 42	122 11 2 6 17 3 28 11 22	54 2 3 5 2 15 8 10 3 6	14 2 - 2 2 1 3 3 1	22 1 3 2 8 3 3 2 -	45 3 - 8 3 17 3 3 4 4	San Diego, Calif. San Francisco, Cali San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	127 f. 184 211 32 170 57 102 12,642 [¶]	72 113 151 28 122 36 79 8,291	3 20 14 15	22 32 17 1 21 1 5 1,287	9 6 2 4 2 1 427	1 - 3 4 2 284	12 8 12 5 1 4 701

TABLE III. Deaths in 121 U.S. cities,* week ending November 20, 1993 (46th Week)

*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.

⁹Because 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. ¹Total includes unknown ages.

U: Unavailable.

Mortality Patterns — Continued

by the attending physician, medical examiner, or coroner as specified by the World Health Organization (WHO) and endorsed by CDC.

For nine of the 15 leading causes of death, mortality decreased from 1990 to 1991 (Table 1)[§]; the age-adjusted death rate for heart disease (*International Classification of Diseases, Ninth Revision* [ICD-9], codes 390–398, 402, and 404–429), the leading cause of mortality in the United States, declined 2.5%. Mortality from unintentional injuries decreased 4.6%, the largest decline among the 15 leading causes of death. Mortality from cancer decreased 0.4%, and mortality from stroke decreased 3.2%. In contrast, mortality from chronic obstructive pulmonary disease (COPD) and allied conditions (ICD-9 codes 490–496), homicide and legal intervention (ICD-9 codes E960–E978), and human immunodeficiency virus (HIV) infection (ICD-9 codes 042–044)[¶] increased

[§] "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 (3).

TABLE 1. Age-adjusted death rates* for 1991 and percentage changes in age-adjusted
death rates from the 15 leading causes of death from 1990 to 1991 and 1979 to 1991
— United States

		1991	% Ch	ange
Rank [†]	Cause of death (ICD-9 code [§])	Age-adjusted death rate	1990 to 1991	1979 to 1991
1	Diseases of heart (390–398, 402, 404–429)	148.2	-2.5	-25.7
2	Malignant neoplasms, including neoplasms of			
	lymphatic and hematopoietic tissues (140–208)	134.5	-0.4	2.8
3	Cerebrovascular diseases (430–438)	26.8	-3.2	-35.6
4	Chronic obstructive pulmonary diseases and			
	allied conditions (490–496)	20.1	2.0	37.7
5	Accidents [¶] and adverse effects (E800–E949)	31.0	-4.6	-27.7
	Motor-vehicle accidents (E810–E825)	17.0	-8.1	-26.7
	All other accidents and adverse effects			
	(E800–E807, E826–E949)	13.9	-0.7	-29.1
6	Pneumonia and influenza (480–487)	13.4	-4.3	19.6
7	Diabetes mellitus (250)	11.8	0.9	20.4
8	Suicide (E950–E959)	11.4	-0.9	-2.6
9	Human immunodeficiency virus infection			
	(042–044)**	11.3	15.3	—
10	Homicide and legal intervention (E960–E978)	10.9	6.9	6.9
11	Chronic liver disease and cirrhosis (571)	8.3	-3.5	-30.8
12	Nephritis, nephrotic syndrome, and nephrosis			
	(580–589)	4.3	_	—
13	Septicemia (038)	4.1	—	78.3
14	Atherosclerosis (440)	2.6	-3.7	-54.4
15	Certain conditions originating in the perinatal period ^{††} (760–779)	_	-4.0	-39.5
	All causes	513.7	-1.2	-11.0

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

[†]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 (3).

^{††}Based on infant mortality rates.

Mortality Patterns - Continued

2.0%, 6.9%, and 15.3%, respectively. The death rates from homicide and HIV infection in 1991 were the highest ever recorded. Provisional data for 1992 indicate that HIV is the eighth leading cause of death in the United States (2).

Compared with 1990, age-adjusted death rates declined for whites** (from 492.8 to 486.8) and for blacks (from 789.2 to 780.7). Differences in death rates from leading causes of death contributed to the differential in mortality between the black and white populations in 1991. For most of the leading causes, age-adjusted death rates were higher for blacks than for whites. The largest differences in rates were for homicide and HIV infection: the rate for blacks was 6.8 times and 3.4 times that for whites, respectively (Table 2). Death rates were lower for blacks for two of the 15 leading causes of death—COPD and allied conditions and suicide (ICD-9 codes E950–E959).

As in the past, age-adjusted death rates for males in 1991 were higher than those for females (Table 2). Compared with 1990, age-adjusted death rates declined for both

Rank [†]	Cause of death (ICD-9 [§])	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	1.9
4	Chronic obstructive pulmonary diseases and		
	allied conditions (490–496)	1.7	0.8
5	Accidents** and adverse effects (E800–E949)	2.6	1.3
	Motor-vehicle accidents (E810–E825)	2.4	1.0
	All other accidents and adverse effects		
	(E800–E807, E826–E949)	2.9	1.7
6	Pneumonia and influenza (480–487)	1.7	1.5
7	Diabetes mellitus (250)	1.1	2.4
8 9	Suicide (E950–E959)	4.4	0.6
9	Human immunodeficiency virus infection		
	(042–044)††	7.4	3.4
10	Homicide and legal intervention (E960–E978)	3.8	6.8
11	Chronic liver disease and cirrhosis (571)	2.3	1.6
12	Nephritis, nephrotic syndrome, and nephrosis		
	(580–589)	1.5	2.8
13	Septicemia (038)	1.3	2.7
14	Atherosclerosis (440)	1.4	1.1
15	Certain conditions originating in the perinatal		
	period ^{§§} (760–779)	1.3	3.1
	All causes	1.7	1.6

TABLE 2. Ratio of age-adjusted death rates* from the 15 leading causes of death, by sex and race of decedent — United States, 1991

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

[†]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 (3).

§§Based on infant mortality rates.

^{**}Hispanics and non-Hispanics are included in totals for both whites and blacks. Numbers for other racial/ethnic groups were too small for meaningful analysis.

Mortality Patterns — Continued

males (from 680.2 to 669.9) and for females (from 390.6 to 386.5). The greatest sex differential in mortality was associated with HIV infection: the rate for males was 7.4 times that for females. Rates for suicide and homicide were 4.4 and 3.8 times, respectively, higher for males than for females, and the rate for unintentional injuries (ICD-9 codes E800–E949) was 2.6 times higher for males. The smallest sex-specific difference was for diabetes mellitus (ICD-9 code 250) (male:female ratio=1.1:1).

In 1991, 323 women were reported to have died of maternal causes; however, this number includes only those deaths assigned to complications of pregnancy, childbirth, and the puerperium (ICD-9 codes 630–676). The maternal mortality rate was 7.9 deaths per 100,000 live births. The maternal mortality rate for blacks was 3.2 times greater than that for whites.

In 1991, 29,555 deaths were attributed to HIV infection. Age-specific death rates were highest for persons aged 35–44 years. Age-adjusted death rates were highest for black males (52.9), followed by white males (16.7), black females (12.0), and white females (1.3).

In 1991, overall life expectancy (LE) at birth was 75.5 years (Figure 1). Despite increases in HIV infection and homicide, the overall LE increased by 0.1 years, primarily because of decreases in mortality from heart disease and unintentional injuries. White females continued to have the highest LE at birth (79.6 years), followed by black females (73.8 years), white males (72.9 years), and black males (64.6 years). All four racial-sex groups experienced increases in LE during 1990–1991. The gap between the

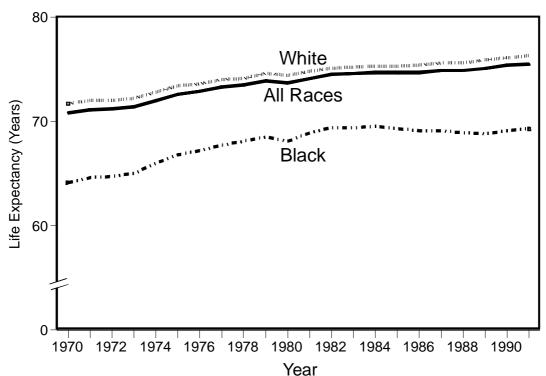


FIGURE 1. Life expectancy at birth, by year of birth and race* — United States, 1970–1991

*Hispanics and non-Hispanics are included incalculations for whites and blacks. Numbers for other racial/ethnic groups were too small for meaningful analysis.

Mortality Patterns — Continued

life expectancy of blacks and whites remained the same as the previous year; during 1984–1989, the gap had widened.

Reported by: Mortality Statistics Br, Div of Vital Statistics, National Center for Health Statistics, CDC.

Editorial Note: The mortality data in this report can be used to monitor the health of the nation and to identify groups at greatest risk for death from specific diseases and injuries. Differences in death rates by race may reflect differences in factors such as socioeconomic status, access to medical care, and the prevalence of specific risks. Although the data indicate that mortality from some chronic diseases (e.g., heart disease and stroke) and unintentional injuries has declined, these gains are offset by trends in younger age groups in which mortality is increasing, primarily because of homicide and HIV infection.

LE summarizes death rates by age into a single measure used as an indicator of the nation's health. Overall, LE has increased every year during the past decade. Improvements in LE reflect decreases in many of the leading causes of death, particularly heart disease; however, increased LE is largely offset by mortality patterns for homicide and HIV infection. Decreasing mortality in heart disease among older persons and decreases in unintentional injuries for most age groups between ages 15 and 64 years contributed most to the increased LE for the total population. Increasing mortality attributed to HIV for all age groups, particularly between ages 25 and 54 years, and increasing mortality for homicide, particularly within the 15–24-year age group, helped offset LE gains.

Another approach to mortality data is to examine the major risk factors contributing to death. A recent study emphasized the importance of risk factors as the cause of death rather than the medical cause reported by physicians on death certificates (4). Studies of attributable risk use cause-of-death profiles from the death certificate as the basis for estimates. Examining the underlying causes of death and the attributable risk of underlying risk factors has been useful in establishing public health priorities, such as the national health objectives for the year 2000 (5).

References

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Notice to Readers

Publication of National Strategic Plan for Early Detection and Control of Breast and Cervical Cancers

CDC has released *The National Strategic Plan for the Early Detection and Control of Breast and Cervical Cancers* (NSP) (1), a collaborative effort by the Food and Drug Administration, the National Cancer Institute, and CDC, with participation from public, private, and voluntary organizations. The NSP identifies the strategic elements needed to recruit women into breast and cervical cancer screening and follow-up programs and to guarantee high-quality tests. The NSP requires integration of resources from the Public Health Service, state and local health departments, professional organizations, health-care providers, voluntary and community organizations, and consumers to achieve and surpass the national objectives for breast and cervical cancer for the year 2000 (objectives 16.3 and 16.4) (2). Although the NSP recognizes the entire continuum of primary prevention through treatment and recovery, it focuses on early detection.

The NSP identifies five program areas: 1) integration and coordination—providing better access to screening services and closing gaps in follow-up services; 2) public education—ensuring that women are aware of the value of screening and sources of care; 3) professional education and practice—addressing educational needs of health professionals to ensure effective screening and appropriate follow-up; 4) quality assurance for cancer screening—ensuring consistent, high-quality cancer screening throughout the entire process of obtaining, interpreting, and reporting mammogram and Papanicolaou test results; and 5) surveillance and evaluation—assessing whether programmatic efforts are increasing the number of women screened for these cancers, identifying cancers earlier, and reducing mortality.

Additional information and copies of the NSP are available from the Chief, Office of External Communications, Division of Cancer Prevention and Control, National Center for Chronic Disease Prevention and Health Promotion, CDC, Mailstop K-52, 4770 Buford Highway, NE, Atlanta, GA 30341; telephone (404) 488-4751.

Reported by: Div of Cancer Prevention and Control, National Center for Chronic Disease Prevention and Health Promotion, CDC.

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- 1. CDC. The national strategic plan for the early detection and control of breast and cervical cancers. Atlanta: US Department of Health and Human Services, Public Health Service, CDC, 1993.
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MMWR

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