



MORBIDITY AND MORTALITY WEEKLY REPORT

- 877 Incidence and Costs to Medicare of Fractures Among Medicare Beneficiaries Aged ≥65 Years
- **883** Ten Leading Nationally Notifiable Infectious Diseases U.S.
- 884 Hunting–Associated Injuries and Wearing "Hunter" Orange Clothing — New York, 1989–1995
- 887 Population-Based Prevalence of Perinatal Exposure to Cocaine — Georgia, 1994
- 891 Notices to Readers

Incidence and Costs to Medicare of Fractures Among Medicare Beneficiaries Aged ≥65 Years — United States, July 1991–June 1992

An estimated 850,000 fractures occur annually in the United States among persons aged \geq 65 years (1,2). Osteoporosis, an age-associated condition resulting in decreased bone density, is a major cause of these fractures, which typically result from a fall to the floor (2); approximately 25 million persons may be at increased risk for fracture because of low bone mass (3). During 1986–1995, annual medical-care costs for fractures among older adults ranged from \$7 billion to \$10 billion in 1986 (4) to \$13.8 billion in 1995 (5). To determine more accurately the incidence of fractures at 10 anatomical sites among persons aged \geq 65 years during July 1991–June 1992 and to estimate the excess costs to Medicare of these fractures during the 1-year period following the fracture, claims data were analyzed for a 5% systematic sample (n=1,288,618) of Medicare beneficiaries. This report summarizes the findings, which indicate that excess costs to Medicare for the 10 incident fracture types represent 3% of all Medicare costs for 1992.

Medicare is a national health insurance program that includes coverage for persons aged ≥65 years, and the Medicare dataset comprises claims for 97% of persons in this age group (6). Medicare data include claims from inpatient hospitals, physicians/suppliers, outpatient-care facilities, skilled-nursing facilities (SNF), homehealth agencies, and hospice care. Claims files for hospital inpatient services, outpatient hospitals, and physicians' services were reviewed to identify persons with a single fracture at one of 10 sites: ankle, nonankle tibia-fibula, patella, nonhip femur, hip, pelvis, distal forearm (wrist), nonwrist radius-ulna, shaft-distal humerus, and proximal humerus. These persons were identified through use of algorithms employing fracture diagnosis codes from the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM), and current procedure codes indicating a particular treatment for fracture (6,7).

Denominators used to compute incidence rates were obtained from the annual Medicare denominator files that include demographic and entitlement information for the beneficiary population. Incidence rates were age-adjusted by 5-year age groups to the 1990 U.S. population aged ≥65 years. Fracture incidence was analyzed by race because previous studies have documented race-specific differences in age-related fractures. The race categories (black, white, and other/unknown) included in this

Fractures — Continued

analysis reflect categories coded in the Medicare dataset. Data were excluded for persons with incomplete information (i.e., health-maintenance organization enrollees, Railroad Retirement Board enrollees, non-U.S. residents, and persons without continuous part A and part B coverage), with bone cancer, or with evidence of previous fracture (i.e., prevalent fractures).

Costs to Medicare were determined for the 10 types of incident fractures by using claims data listing the amount reimbursed by Medicare (including per diem adjustments for inpatient and SNF care) (8). Two types of costs were calculated for three specific time intervals pre- and post-fracture: the 6-month baseline before fracture, an initial 12-week episode of care (i.e., the usual healing time for a simple fracture), and a 40-week follow-up period. Mean costs to Medicare per person per day were computed for each of the 10 fracture sites, and excess costs per person were determined by comparing costs during the initial episode and follow-up periods to baseline costs for the 6-month period before fracture. Excess costs for each fracture site were extrapolated to the entire population that met the criteria for inclusion in this analysis.

Incidence Rates

From July 1991 through June 1992, a total of 26,785 single fractures at the 10 sites were identified among the 1,288,618 Medicare beneficiaries in the 5% sample (Table 1). Hip fracture occurred most frequently (incidence rate: 73.9 per 10,000 population), followed by fracture of the wrist (37.8) and of the proximal humerus (21.8). The incidence rate was lowest for fracture of the patella (5.5). Sex-specific rates were higher for women than for men for all fracture sites and for all races: race-specific rates were higher for whites than for blacks and other/unknown races for all fracture sites; for most fracture sites, rates were highest for white women and lowest for blacks.

Cost of Fractures

From July 1991 through June 1992, the mean daily cost to Medicare for a beneficiary was greatest during the initial 12-week period following a fracture; the daily costs were highest for persons with a fracture of the hip (\$191.50) and of the lower femur (\$153.98) (Table 2). Mean daily costs were lower during the 40-week follow-up period; however, for most fracture sites, these costs were higher than mean daily costs during the 6-month baseline preceding the fracture. Total excess costs to Medicare for a person during the year following a fracture ranged from \$2564 following wrist fracture to \$15,294 following hip fracture. The total excess cost to Medicare for the 10 fracture sites among beneficiaries aged ≥65 years meeting inclusionary criteria was \$4.2 billion; \$2.9 billion (69%) of this excess was associated with hip fracture (Table 3).

Reported by: JA Baron, MD, Dept of Medicine, and Dept of Community and Family Medicine, J Barrett, MSc, Dept of Community and Family Medicine, Dartmouth Medical School, Hanover, New Hampshire. M Berger, MD, Merck & Co., Inc., West Point, Pennsylvania. Prevention Effectiveness Activity, Div of Prevention Research and Analytic Methods (proposed), Epidemiology Program Office; Div of Adult and Community Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: The overall national incidence of fractures cannot be readily estimated because many types of fractures are treated in outpatient settings, which are not linked to integrated databases (3). For Medicare beneficiaries aged ≥65 years, however, the Medicare dataset provides a means for estimating the occurrence and costs of fractures among nearly the entire population, and for fracture types not previously

Ankle (n=2432)						Patella n=712)		nip femur =924)	Hip (n=10,139)		
Characteristic	Rate	(95% CI [¶])	Rate	(95% CI)	Rate	(95% CI)	Rate	(95% CI)	Rate	(95% CI)	
Race											
White	19.2	(18.4-20.1)	7.5	(7.0- 8.1)	5.6	(5.1-6.1)	6.9	(6.3- 7.4)	77.4	(75.8-79.0	
Black	15.8	(13.2-18.4)	7.0	(5.3-8.8)	3.6	(2.3- 4.9)	6.8	(5.1- 8.5)	37.0	(33.2-40.9	
Other/Unknown	17.6	(13.3-22.0)	4.1	(1.9- 6.3)	4.5	(2.3- 6.7)	4.5	(2.1- 6.9)	54.8	(46.2–63.3)	
Sex											
Male	10.2	(9.3–11.2)	3.7	(3.1- 4.3)	2.5	(2.0- 3.0)	2.9	(2.4- 3.4)	48.0	(45.9–50.0	
Female	24.8	(23.6–26.0)	9.5	(8.8–10.3)	7.4	(6.7– 8.0)	8.8	(8.2-9.5)	88.0	(86.0–90.1)	
Total	18.9	(18.1–19.7)	7.4	(6.9- 7.9)	5.5	(5.0- 5.9)	6.8	(6.3- 7.3)	73.9	(72.4–75.4)	

		Pelvis n=1783)	Distal forearm (wrist) (n=4980)			st radius-ulna =1100)		stal humerus n=831)	Proximal humerus (n=2908)		
Characteristic	Rate	(95% CI)	Rate	(95% CI)	Rate	(95% CI)	Rate	(95% CI)	Rate	(95% CI)	
Race											
White	13.7	(13.0-14.4)	39.6	(38.4-40.8)	8.8	(8.2-9.4)	6.5	(6.0- 7.0)	22.9	(22.0-23.8)	
Black	5.3	(3.8- 6.8)	17.3	(14.6-20.0)	3.2	(2.0-4.4)	3.7	(2.4- 5.0)	7.6	(5.8-9.4)	
Other/Unknown	11.3	(7.5–15.2)	33.5	(27.2 - 39.8)	7.2	(4.3–10.1)	5.3	(2.7- 8.0)	22.7	(17.4–27.9)	
Sex											
Male	5.1	(4.4- 5.8)	11.7	(10.7-12.7)	3.7	(3.1- 4.3)	3.2	(2.7- 3.8)	9.5	(8.5–10.4)	
Female	17.3	(16.3–18.2)	54.0	(52.4–55.7)	11.4	(10.6–12.2)	8.1	(7.4– 8.7)	29.2	(28.0-30.4)	
Total	13.0	(12.4–13.7)	37.8	(36.7-38.9)	8.4	(7.8– 8.9)	6.2	(5.8- 6.7)	21.8	(20.9–22.6)	

¶Confidence interval.

^{*}Per 10,000 Medicare beneficiaries. Age-adjusted by 5-year age groups to the 1990 U.S. population aged ≥65 years.

¹ The race categories (black, white, and other/unknown) included in this analysis reflect categories coded in the Medicare dataset.

⁵ Data were analyzed for a 5% systematic sample (n=1,288,618) of Medicare beneficiaries. Data were excluded for persons with incomplete information (i.e., health-maintenance organization enrollees, Railroad Retirement Board enrollees, non-U.S. residents, and persons without continuous part A and part B coverage), with bone cancer, or with evidence of previous fracture (i.e., prevalent fractures).

— Continued

TABLE 2. Estimated mean daily costs and estimated total excess costs to Medicare* per person for beneficiaries aged ≥65 years with an incident fracture, by fracture site — United States, July 1991–June 1992[†]

Type of Cost/ Time period	Ankle (n=2247)	Nonankle tibia-fibula (n=809)	Patella (n=595)	Nonhip femur (n=752)	Hip (n=9343)	Pelvis (n=1523)	Distal forearm (wrist) (n=4405)	Nonwrist radius-ulna (n=869)	Shaft distal humerus (n=639)	Proximal humerus (n=2477)
Mean daily cost Baseline (6 mos pre-fracture)	\$ 9.14	\$ 12.84	\$ 10.47	\$ 20.43	\$ 16.16	\$ 18.37	\$ 9.00	\$ 9.43	\$ 12.26	\$ 12.22
12 wks post-fracture	47.71	82.01	54.00	153.98	191.50	93.62	φ 3.00 27.86	38.60	66.86	φ 12.22 52.13
13–52 wks post- fracture	13.37	17.96	15.15	20.52	18.17	16.89	12.48	13.18	16.63	16.36
Total excess cost 12 wks post-fracture	3,240.00	5,811.00	3,656.00	11,218.00	14,729.00	6,321.00	1,584.00	2,450.00	4,586.00	3,352.00
13–52 wks post- fracture	1,188.00	1,438.00	1,316.00	25.00	565.00	-414.00 [§]	979.00	1,054.00	1,227.00	1,163.00
Total excess costs 0–52 wks post-fracture	\$4,328.00	\$7,249.00	\$4,972.00	\$11,242.00	\$15,294.00	\$5,907.00	\$2,564.00	\$3,505.00	\$5,814.00	\$4,515.00

^{*} Medicare costs are the amounts the program paid institutions (inpatient hospitals, outpatient hospitals, skilled-nursing facilities, home-health agencies, and hospices) or providers (physicians/suppliers). These costs include costs for fractures plus excess costs of complications or comorbid conditions. Excess costs were calculated by subtracting baseline costs from post-fracture costs.

[†] Data were analyzed for a 5% systematic sample (n=1,288,618) of Medicare beneficiaries. Data were excluded for persons with incomplete information (i.e., health-maintenance organization enrollees, Railroad Retirement Board enrollees, non-U.S. residents, and persons without continuous part A and part B coverage), with bone cancer, or with evidence of previous fracture (i.e., prevalent fractures). The sample size for each type of fracture in this table is lower than in Table 1 because of the exclusion of persons with fewer than 6 months of data before the fracture.

[§] Negative excess costs during the 40-week follow-up period may be the result of a high proportion of deaths among persons with a pelvis fracture.

TABLE 3. Estimated total excess costs to Medicare* for beneficiaries aged ≥65 years who met the inclusionary criteria and had an incident fracture, by fracture site — United States, July 1991-June 1992

Time period	Ankle	Nonankle tibia-fibula	Patella	Non-hip femur	Hip	Pelvis	Distal forearm (wrist)	Nonwrist radius-ulna	Shaft distal humerus	Proximal humerus	Total
12 wks post-fracture 13–52 wks post-fracture	146 54	94 23	44 16	169 0	2,752 106	193 –13 [§]	140 86	43 18	59 16	166 58	3,806 364
Total excess costs 0–52 wks post- fracture	199	117	59	169	2,858	180	226	61	74	224	4,167 [¶]

^{*}In millions of dollars. Medicare costs are the amounts the program paid institutions (inpatient hospitals, outpatient hospitals, skilled-nursing facilities, home-health agencies, and hospices) or providers (physicians/suppliers). These costs include costs for fractures plus excess costs of complications or comorbid conditions. Excess costs were calculated by subtracting baseline costs from post-fracture costs.

† Data were analyzed for a 5% systematic sample (n=1,288,618) of Medicare beneficiaries. Data were excluded for persons with incomplete information (i.e., health-maintenance organization enrollees, Railroad Retirement Board enrollees, non-U.S. residents, and persons without continuous part A and part B

The row total differs from the column total because of rounding.

coverage), with bone cancer, or with evidence of previous fracture (i.e., prevalent fractures).

Segative excess costs during the 40-week follow-up period may be the result of a high proportion of deaths among persons with a pelvis fracture.

Fractures — Continued

characterized. The race- and sex-specific fracture incidence rates in this report reflect known differences in bone density between the sexes and among racial groups. For example, women have lower peak bone density and lose bone more rapidly than men; similarly, whites have lower bone mass and may lose bone more rapidly than blacks (2). These findings also highlight the increased risk among older women—particularly white women—for fractures later in life.

The total excess costs to Medicare for all fracture sites combined (\$4.2 billion) represent 3% of the total annual federal outlay for the Medicare program for 1992 (\$138.3 billion) (1). However, the excess costs to Medicare described in this report represent only part of the total costs of health care for fractures among the elderly; these excess costs omit beneficiary deductibles, copayments, and other out-of-pocket expenses (8) and estimates for persons excluded from the study. The number of persons aged ≥65 years is projected to increase from 32.0 million to 51.5 million during 1990–2020; with a concomitant increase in the proportion of the U.S. population at risk for age-related fractures, excess costs to Medicare for fracture treatment are likely to increase steadily. Future estimates of the cost impact of fractures also must consider these additional costs to the health-care system and social costs related to functional impairment and disability resulting from fractures.

The findings in this report include cost estimates to Medicare for several fracture types for which specific costs have not previously been characterized. Vertebral compressions, which are among the more common fractures among older persons, were not included in this study because onset often is gradual and painless; in addition, because there are no uniform diagnostic criteria for vertebral compressions, these fractures are likely to be underreported.

The findings in this report emphasize the need for further characterization of modifiable risk factors for fractures at specific sites and improved interventions for fracture prevention. Strategies for primary prevention of fractures optimally should include maximizing bone density during adolescence and young adulthood through measures such as promoting a calcium-rich diet and physical activity, and later in life, by reducing falls. Current efforts for primary prevention, which have especially been directed toward perimenopausal white women, include promotion of adequate dietary intake of calcium, regular weight-bearing physical activity, avoidance of smoking and excess alcohol consumption, and elimination of host and environmental causes of falls (e.g., poor balance or household obstacles, respectively) (2,9,10). Strength and balance training also may effectively reduce the incidence of falls and subsequent fractures among older adults (9). Strategies for secondary prevention for high-risk postmenopausal women include bone-density screening; hormone-replacement therapy; or for women with low bone density, the use of agents that retard bone resorption (9). Reduction of fractures among the elderly requires increased awareness among the public and health-care providers about this problem, therapies, and modifiable risk factors.

References

- Bureau of the Census. Statistical abstract of the United States, 1995. 115th ed. Washington, DC: US Department of Commerce, Economics and Statistics Administration, Bureau of the Census, 1995.
- Melton LJ. Epidemiology of fractures. In: Riggs BL, Melton LJ, eds. Osteoporosis: etiology, diagnosis, and management. New York: Raven Press, 1988:133–54.

Fractures — Continued

- 3. Institute of Medicine. Osteoporosis. In: The second fifty years: promoting health and preventing disability. Washington, DC: National Academy Press, 1990:76–100.
- 4. Peck WA, Riggs BL, Bell NH, et al. Research directions in osteoporosis. Am J Med 1988;84: 275–82.
- 5. Ray NF, Chan JK, Thamer M, Melton LJ. Medical expenditures for the treatment of osteoporotic fractures in the United States in 1995. J Bone Miner Res (in press).
- 6. Ray WA, Griffin MR, Fought RL, Adams ML. Identification of fractures from computerized Medicare files. J Clin Epidemiol 1992;45:703–14.
- 7. Baron JA, Karagas M, Barrett J, et al. Basic epidemiology of fractures of the upper and lower limb among Americans over 65. Epidemiology (in press).
- 8. Lave JR, Pashos CL, Anderson GF, et al. Costing medical care: using Medicare administrative data. Med Care 1994;32:JS77–JS89.
- 9. Centre for Review and Dissemination, National Health Service/Nuffield Institute for Health. Preventing falls and subsequent injuries in older people. Eff Health Care 1996;2:1–16.
- 10. Black DM. Why elderly women should be screened and treated to prevent osteoporosis. Am J Med 1995;98(suppl 2A):675–75S.

Ten Leading Nationally Notifiable Infectious Diseases — United States, 1995

The National Notifiable Diseases Surveillance System (NNDSS) is a national passive surveillance system comprising 52 infectious diseases designated by the Council of State and Territorial Epidemiologists as reportable to CDC (1). This report is based on the *Summary of Notifiable Diseases* for 1995 (2) and presents the most commonly reported nationally notifiable diseases for 1995. During 1995, sexually transmitted diseases (STDs) predominated and were reported among all age groups.

The 10 most frequently reported nationally notifiable infectious diseases for 1995 were, in descending order, chlamydia, gonorrhea, acquired immunodeficiency syndrome (AIDS), salmonellosis, hepatitis A, shigellosis, tuberculosis (TB), primary and secondary syphilis, Lyme disease, and hepatitis B (2). The STDs of chlamydia, gonorrhea, AIDS, primary and secondary syphilis, and hepatitis B accounted for 87% of cases reported for these 10 diseases.

Although 1995 was the first year genital infections with *Chlamydia trachomatis* were nationally notifiable, this condition was the most commonly reported disease for 1995. Most cases were reported among women; infection with *C. trachomatis* is tested for and reported less frequently for men than for women. Rates for AIDS and TB were substantially higher among males than females. Consistent with previous surveillance data, the rate of AIDS reported among men was more than four times that for women, and for TB, nearly twice that for women. Except for AIDS, TB, and genital infection with *C. trachomatis*, sex-specific rates of notifiable diseases were similar.

The most commonly reported infectious diseases varied by age group. Salmonellosis and shigellosis continued to be the most common notifiable diseases reported among children aged <5 years (61.8 and 46.3 per 100,000 population, respectively). Among children aged 5–14 years, gonorrhea and shigellosis (rates of 21.8 and 20.1, respectively) were the most frequently reported diseases. Gonorrhea remained the most common disease reported among persons aged 15–24 years (645.0), and rates for both gonorrhea and AIDS were high among persons aged 25–44 years (162.4 and 65.3, respectively) and persons aged 45–64 years (22.3 and 27.8, respectively). Among

Notifiable Infectious Diseases — Continued

persons aged >65 years, TB was the most commonly reported notifiable disease (16.3). Age-specific data about chlamydial infections were not available for 1995. Reported by: Council of State and Territorial Epidemiologists. Div of Public Health Surveillance and Informatics (proposed), Epidemiology Program Office, CDC.

Editorial Note: The findings in the *Summary of Notifiable Diseases* reflect only diseases that are diagnosed by health-care or laboratory workers and reported to state and local health departments, who then report to CDC. Resources available for conducting surveillance vary widely by disease (3). In addition, patterns of detection and reporting probably vary by disease, age or population group, state, and locality. Consequently, for many of these conditions, the true incidences in the United States probably are underestimated. Despite such limitations, however, these and other surveillance data are useful for monitoring trends and for determining relative disease burdens.

As part of the *MMWR* series, CDC will release on October 25 the *Summary of Notifiable Diseases*, *United States*, 1995 (2). This publication contains summary tables of the official statistics for the reported occurrence of nationally notifiable diseases during 1995. Data for 1995 are presented by month; geographic location; and patient age, sex, and race/ethnicity in maps and graphs for many conditions. Also included are a brief history of notifiable disease reporting, highlights of important developments in the reported occurrences of selected nonnotifiable diseases (e.g., dengue fever, hantavirus pulmonary syndrome, penicillin-nonsusceptible *Streptococcus pneumoniae*, and Ebola hemorrhagic fever), and data from the Public Health Laboratory Information System.

References

- 1. Koo D, Wetterhall SF. History and current status of the National Notifiable Diseases Surveillance System. Journal of Public Health Management Practice 1996;2:4–10.
- 2. CDC. Summary of notifiable diseases, United States, 1995. MMWR 1996;44(53) (in press).
- 3. Osterholm MT, Birkhead GS, Meriwether RA. Impediments to public health surveillance in the 1990s: the lack of resources and the need for priorities. Journal of Public Health Management Practice 1996;2:11–5.

Hunting-Associated Injuries and Wearing "Hunter" Orange Clothing — New York, 1989–1995

"Hunter" orange (i.e., fluorescent or international orange) is worn by hunters to increase their visibility and to reduce their potential for being mistaken for game. Although education courses for hunters promote the use of hunter orange, hunters in New York are not required to wear high-visibility clothing. To examine factors associated with two-party hunting injuries involving firearms (i.e., the injury resulted from the intentional or unintentional discharge of the firearm of another hunter), including the use of hunter orange, the New York State Department of Environmental Conservation (DEC) and the New York State Department of Health analyzed hunting-associated injury reports during 1989–1995. This report describes three of the 62 reported hunting-associated injuries during 1995 and summarizes information about two-party hunting-associated injuries involving firearms during 1989–1995. The

Hunting Injuries — Continued

findings indicate that most injured hunters in two-party incidents were not wearing hunter orange.

In New York, reporting of hunting injuries involving firearms is required by law, and all incidents are investigated, either by local law enforcement officers or a state environmental conservation officer. Hunting-injury reports filed with DEC include a description of the event, the primary factor contributing to the injury as determined by the investigator, and the type and color of clothing worn by the participants. Hunter orange use was defined as the wearing of one or more of the following solid orange colored garments: hat, coat, vest, or pants. The number of licensed hunters in New York during 1989–1995 was used as the denominator to calculate injury rates.

Case Reports

Case 1: On December 3, 1995, four hunters separated to flush deer out of an overgrown field. Two hunters walked through the field attempting to drive deer toward the other two hunters who were in a stationary position. One of the stationary hunters observed movement in the thick brush and, believing the movement to be a deer, fired his shotgun at a range of 48 yards. However, the movement had been caused by a hunter who was not wearing orange and who was struck in the chest by the shotgun slug and killed.

Case 2: On October 30, 1995, two hunters looking for grouse became separated while hiking through an area of dense brush. One hunter flushed a grouse, which took flight, and fired at the bird. The other hunter, who was in the line of fire 25 yards away and dressed in camouflage clothing, was wounded by 12 pellets to the upper body.

Case 3: On May 1, 1995, a licensed guide assisted a client in hunting turkey. The guide issued calls to attract turkeys. Another hunter in the area heard the calls and, believing that a turkey was nearby, began to move through open woods toward the sound. The hunter, who was wearing camouflage clothing, moved to within 40 yards of the guide and fired his shotgun after observing movement. The guide, who was not wearing orange, was wounded by shotgun pellets in the shoulder, neck, and face.

Injuries During 1989–1995

During 1989–1995, a total of 508 hunting-associated firearm injuries were reported to DEC, representing an annual mean rate of 9.8 injuries per 100,000 licensed hunters. Of these 508 injuries, 39 (8%) were fatal, 152 (30%) involved one person, and 356 (70%) involved two persons (rate: 6.9). Of the 39 fatal injuries, 31 (79%) were two-party incidents.

Among two-party injuries, big-game (e.g., deer and bear) hunters accounted for 135 (38%) injuries, including 25 (81%) fatalities. Turkey hunters accounted for 78 (22%) injuries, including two (6%) fatalities; and small-game (e.g., rabbit, squirrel, pheasant, grouse, raccoon, and woodchuck) hunters accounted for 132 (37%) injuries, including three (10%) fatalities.

Of the 331 (93%) two-party injuries in which the estimated distance from the hunter to the injured hunter was recorded, 54 (16%) occurred at a range of \leq 10 yards, 161 (49%) between 11–50 yards, and 116 (35%) at >50 yards. In 125 (35%) incidents, the primary contributing factor was listed as injured hunter mistaken for game (Table 1). In 79 (22%) incidents, the injured person was out of sight of the hunter, and 60 (17%) incidents occurred when the injured person was in the line of fire. Of

Hunting Injuries — Continued

TABLE 1. Number and percentage of two-party hunting-associated firearm injuries, by factor contributing to injury* and "hunter" orange use† by injured hunter— New York, 1989–1995

				njured h	unter w	earing h	unter ora	nge
			Υ	es	N	lo	Unkn	own
Contributing factor	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Mistaken for game	125	(35)	6	(5)	117	(94)	2	(1)
Out of sight	79	(22)	29	(37)	46	(58)	4	(5)
In line of fire	60	(17)	18	(30)	37	(62)	5	(8)
Unintentional discharge	39	(11)	11	(28)	27	(69)	1	(3)
Struck by ricochet	37	(10)	13	(35)	23	(62)	1	(3)
Other/Unknown	16	(5)	7	(44)	9	(66)	0	(0)
Total	356	(100)	84	(24)	259	(73)	13	(4)

^{*}Determined by a local law enforcement officer or a state environmental conservation officer following an investigation of the injury.

78 injuries associated with turkey hunting, 61 (78%) were the result of one hunter mistaking another for game.

Wearing of hunter orange was determined for 343 (96%) two-party hunters who were injured. In 259 (76%) incidents, the injured hunter was not wearing hunter orange. Of the 125 incidents in which the injured hunter was mistaken for game, 117 (94%) were not wearing hunter orange, and six (5%) were wearing hunter orange; for two (1%), hunter orange information was not recorded. Wearing of hunter orange was determined for 77 (99%) of 78 persons injured who were hunting turkey; none were wearing hunter orange.

In 1992, DEC interviewed 576 randomly selected licensed hunters in New York about the use of hunter orange clothing. Of the 559 (97%) respondents who hunted big game, 452 (81%) reported routine use of hunter orange clothing. Of the 566 (98%) respondents who hunted small game, 359 (63%) reported routinely wearing hunter orange clothing.

Reported by: W Jones, M O'Hara, Sportsman Education Program; JE Kautz, PhD, Bur of Wildlife, New York State Dept of Environmental Conservation, Albany; B Hutton, Bur of Injury Prevention, D Ackman, MD, Div Of Chronic Disease Prevention, D Morse, MD, State Epidemiologist, New York State Dept of Health. State Br, Div of Applied Public Health Training (proposed), Epidemiology Program Office, CDC.

Editorial Note: Based on estimates by the International Hunter Education Association (IHEA), in 1995, approximately 17 million persons purchased hunting licenses in the United States (excluding Alaska) (1). In 1995, IHEA reported 1201 hunting injuries involving firearms, including 107 (9%) fatalities (2). Of these injuries, 851 (71%) involved two parties, including 69 (5.8%) fatalities.

In 40 states, hunters are required to wear hunter orange; however, in some states, regulations apply only to hunting on public lands or hunting big game. In New York, the 1992 survey indicated that an estimated 19% of big-game hunters and 37% of small-game hunters did not routinely wear hunter orange clothing. The finding that approximately 72% of injured hunters in two-party incidents were not wearing hunter orange clothing is consistent with previous reports that found low proportions of hunter orange use among injured hunters (3,4).

[†]Wearing any one of the following solid orange garments: hat, coat, vest, or pants.

Hunting Injuries — Continued

In New York, hunter orange clothing was not usually worn by persons who bowhunted, hunted with muzzle-loaded firearms, or hunted waterfowl—activities which accounted for only 10 (3%) two-party injuries during 1989–1995. However, 22% of two-party injuries involved turkey hunting; most (78%) injuries resulted from one hunter mistaking another for game. None of the turkey hunters involved in a two-party injury were wearing hunter orange, and many were dressed in complete camouflage because of the perception that turkeys will see and avoid displays of hunter orange. Because turkey hunting often occurs in areas of thick brush or undergrowth, increasing hunter visibility may be particularly important in preventing "mistaken for game" injuries.

Since 1960, the state legislature in New York has required that all first-time hunting license holders complete a hunter-education course. From 1965 to 1994, reported hunting injuries in New York decreased steadily from 157 (22.3 injuries per 100,000 licensed hunters) to 52 (7.2) and from 11 deaths to one death. In 1991, DEC reviewed hunting-injury reports and concluded that most hunting injuries were associated with violations of basic firearms safety rules. DEC also found that most hunters who were injured as the result of being "mistaken for game" or "in line of fire" were not wearing hunter orange at the time of injury (3).

In 1992, DEC initiated a campaign in New York to promote basic firearms safety and the use of hunter orange clothing through hunter education courses, meetings with hunter organizations, and advertisements in hunting literature. During 1992–1995, following the initiation of this safety promotion campaign, the average annual injury rate decreased 27% compared with the rate during 1988–1991.

The routine wearing of hunter orange clothing can increase visibility of hunters, especially if worn in combinations that display orange in all directions. Efforts to increase the use of hunter orange also should include education of experienced hunters to wear hunter orange and, for turkey hunters who do not wear hunter orange, to display hunter orange near their calling location.

References

- 1. Workman D, ed. Hunter education instructor 1996. Vol 24. Seattle: Outdoor Empire Publishing, 1996:4–10.
- 2. International Hunter Education Association. 1995 Hunting accident report. Seattle: Outdoor Empire Publishing, 1996.
- 3. New York State Department of Environmental Conservation. Hunting accidents in New York: their causes and prevention. Albany, New York: New York State Department of Environmental Conservation, 1994.
- 4. Cole TB, Patetta MJ. Hunting firearm injuries, North Carolina. Am J Public Health 1988;78: 1585–6.

Population-Based Prevalence of Perinatal Exposure to Cocaine — Georgia, 1994

Maternal cocaine use during pregnancy is associated with adverse health effects for both the mother and the infant (e.g., intrauterine growth retardation, placental abruption, preterm delivery, congenital anomalies, and cerebral injury) (1). Because cocaine use often occurs concurrently with use of other substances (e.g., cigarettes and alcohol) and because fear of prosecution may deter women from obtaining

medical care, the occurrence of perinatal exposure to cocaine has not been well characterized. In Georgia, the routine collection of dried blood spots (DBSs) from a heelstick of newborns for screening for metabolic diseases enabled the Georgia Chapter of the March of Dimes Birth Defects Foundation, the Georgia Department of Human Resources (DHR), and CDC to collaborate on a feasibility study of the use of residual DBSs for conducting low-cost population-based surveillance for perinatal cocaine exposure. This report presents the findings of the study, which indicate that, in 1994, at least 0.5% of infants in Georgia had had perinatal exposure to cocaine.

The sample for this study comprised newborns whose DBS specimens were submitted to DHR during a 2-month period in 1994 and for whom an adequate specimen was available after completion of metabolic screening. Because of probable fear of prosecution and lack of informed consent, testing for cocaine metabolite was conducted with anonymous specimens. If more than one DBS specimen was obtained for a newborn, only the results of the earliest specimen were included in this analysis. Newborns with gestations <31 weeks or birthweights <1500 g (<3 lbs, 5 oz) were excluded from analysis because only approximately 50% of these newborns were tested within 7 days after birth—a maximum time period for reliable detection of cocaine metabolite in the DBS specimen. Multiple births and all newborns tested after 7 days of age also were excluded. A total of 16,470 eligible infants were born during the 2-month period; of these, DBS specimens from 14,968 (91%) newborns were submitted to DHR and tested by CDC for cocaine metabolite.

Data about maternal characteristics were collected from the birth certificate. For each specimen, a ½-punch (equivalent to a 12-µL blood specimen) was obtained from one blood spot and was tested for benzoylecognine (BE)—a primary cocaine metabolite—using a modified radioimmunoassay (RIA) (2). Samples with BE measured at >0 ng/mL by RIA were then tested by liquid chromatography/tandem mass spectrometry for confirmation of BE at CDC (3).

Rigorous measures were employed to ensure anonymity of the final analysis database. In particular, personal identifying information and laboratory results were not present in the database simultaneously, and the analysis files precluded combination of attributes that potentially could permit inferential identification of any person.

Of the 14,968 newborns, specimens for 73 tested positive for BE, representing a statewide prevalence rate of 4.9 BE-positive per 1000 newborns. Maternal characteristics associated with high rates of BE in newborns included older age; education of <13 years; self-reported cigarette smoking, alcohol drinking, or both during pregnancy; inadequate weight gain during pregnancy; black race; having had three or more previous live-born infants; and having a short interpregnancy interval (Table 1). Rates also were higher for mothers residing in large standard metropolitan statistical areas (population ≥1,000,000). Mothers of BE-positive newborns resided in 17 of the 19 health districts in Georgia.

The mothers of BE-positive newborns were more likely than those of BE-negative newborns to have received late or no prenatal care. However, 74% of the mothers of BE-positive newborns had received some prenatal care, and 34% had initiated prenatal care during the first trimester. Mothers of BE-positive newborns were more likely to have given birth in large hospitals with specialized perinatal services (level III) and in hospitals with no obstetric services or outside of hospitals (level 0) than in hospitals with intermediate obstetric services (levels I and II).

TABLE 1. Number and rate* of detection of benzoylecognine (BE) in residual dried blood spots of newborns, by selected maternal characteristics — Georgia, 1994

	Sample		BE-positiv	e infant		
characteristic	size	No.	Rate	(95% CI [†])	OR⁵	(95% CI)
Age group (yrs)						
<25	7,143	17	2.4	(1.4– 3.8)	1.0	referent
≥25	7,824	56	7.2	(5.4–9.3)	3.0	(1.8– 5.1)
Education (yrs)	0.055	F 0	0.7	/ 5.4 0.6)	0.0	/ 10
≤12 ≥13	8,855 5,993	59 14	6.7 2.3	(5.1– 8.6) (1.3– 3.9)	2.9 1.0	(1.6– 5.0) referent
Cigarette smoking	0,000	1-7	2.0	(1.0 0.0)	1.0	TOTOTOTIC
and drinking						
during pregnancy						
Cigarette smoking only Drinking only	1,584 111	28 3	17.7 27.0	(11.7- 25.5) (5.6- 79.0)	8.1 12.5	(5.2–12.6) (4.9–31.9)
Both	106	13	122.6	(65.3–209.7)	63.1	(43.6–91.3)
Neither	13,117	29	2.2	(1.5- 3.2)	1.0	referent
Weight gain during						
pregnancy (lbs)	000	10	10.1	/ (0 22 2)	2.7	(0 1
<15 15–24	996 3,001	13 18	13.1 6.0	(6.9- 22.3) (3.6- 9.5)	3.7 1.7	(2.1– 6.8) (1.0– 3.0)
≥25	9,955	35	3.5	(2.4– 4.9)	1.0	referent
Unknown	1,016	7	6.9	(2.8– 14.2)	2.0	(0.9- 4.4)
Race/Ethnicity ¹						
Black, non-Hispanic White, non-Hispanic	5,049 9,139	61 12	12.1 1.3	(9.2– 15.5) (0.7– 2.3)	9.3 1.0	(5.6–15.5) referent
Hispanic	491	0	1.3 —	(0.7- 2.3) —	— —	—
Other	287	Ö		_	_	_
Previous births						
0 1–2	6,520	6	0.9 4.1	(0.3- 2.0)	1.0	referent
i–z ≥3	7,277 1,171	30 37	4.1 31.6	(2.8– 5.9) (22.2– 43.6)	4.5 35.4	(2.0–10.0) (20.7–60.8)
Interpregnancy interval	.,.,	0,	01.0	(22.2 10.0)	00.1	(2017 0010)
(mos)						
0–6	675	15	22.2	(12.4- 36.7)	3.9	(2.2– 6.7)
≥7 Na provious birth	7,542	44	5.8 0.9	(4.2– 7.8) (0.3– 2.0)	1.0 0.2	referent
No previous birth Unknown	6,520 231	6 8	34.6	(15.0- 68.2)	6.1	(0.1– 0.3) (3.1–12.0)
Residence				, ,		,
Large SMSA**	7,471	48	6.4	(4.7- 8.5)	2.2	(1.2- 4.1)
Other SMSA	3,003	12	4.0	(2.1– 15.6)	1.4	(0.6- 3.0)
Non-SMSA	4,493	13	2.9	(1.5– 5.0)	1.0	referent
Month of pregnancy at initiation						
of prenatal care						
0–3	12,080	25	2.1	(1.3- 3.1)	1.0	referent
4–6 7–9	2,139 447	21 8	9.8 17.9	(6.1– 15.0) (7.7– 5.3)	4.8 8.8	(2.8– 8.1) (4.5–17.1)
No prenatal care	167	15	89.8	(50.3–148.1)	47.6	(32.4–69.8)
Unknown	135	4	29.6	(8.1-75.9)	14.5	(6.6–33.0)
Hospital services received						
Specialized perinatal	7,152	45	6.3	(4.6-8.4)	2.2	(1.3- 3.6)
Intermediate obstetric No obstetric services	7,661 149	22 6	2.9 40.3	(1.8– 4.3) (14.8– 87.6)	1.0 14.6	referent (7.3–29.2)
Total ^{††}	14,968	73	4.9	(3.8- 6.1)		, , , , , , , , , , , , , , , , , , , ,
· Otal	17,300	,,	7.3	(0.0- 0.1)		

^{*}Per 1000 live-born infants.

† Confidence interval.

§ Odds ratio.

Numbers for racial/ethnic groups other than blacks, whites, and Hispanics were too small for meaningful

^{**}Standard metropolitan statistical area. Large SMSAs have populations ≥1,000,000.

††Some numbers do not total to 14,968 because of missing data: age (one); education (120); smoking and drinking during pregnancy (50); race and ethnicity (two); SMSA (one); and hospital services received (six).

Reported by: M Brantley, MPH, R Rochat, MD, Office of Perinatal Epidemiology, Epidemiology and Prevention Br; V Floyd, MD, D Norris, Family Health Br; E Franko, DrPH, Public Health Laboratory; P Blake, MD, Epidemiology Section, K Toomey, MD, State Epidemiologist, Div of Public Health, Georgia Dept of Human Resources. P Fernhoff, MD, B Ziegler, L Mayer, Georgia Chapter, March of Dimes Birth Defects Foundation, Atlanta. Clinical Biochemistry Br, Div of Environmental Health Laboratory Sciences, Birth Defects and Genetic Diseases Br, and Div of Birth Defects and Developmental Disabilities, National Center for Environmental Health; Pregnancy and Infant Health Br, Div of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: This study in Georgia is the first to use newborn DBSs to determine perinatal exposure to cocaine. Statewide prevalences of perinatal cocaine exposure have been estimated previously by testing maternal urine samples obtained at delivery from women in California (4), Missouri (5), Rhode Island (6), South Carolina (7), and Utah (8). In Alabama, statewide prevalence was estimated by testing maternal urine specimens at delivery from pregnant women attending public health clinics (9). Although these studies employed different methodologies, the characteristics of women in Georgia who used cocaine during pregnancy were consistent with patterns in previous reports (1,8). In addition, in Georgia, evidence of antepartum cocaine exposure was present among newborns in areas throughout the state and in diverse population groups.

To reduce cocaine use during pregnancy, in 1990 the Georgia General Assembly convened a Conference on Children of Cocaine and Substance Abuse (CCCSA), which recommended that cocaine-using pregnant women be treated and not prosecuted. Acknowledging this recommendation, in 1992 the Georgia Court of Appeals established that mothers who prenatally pass cocaine to their infants may not be prosecuted under Georgia law.* In addition, CCCSA recommended the feasibility study detailed in this report.

The findings in this report probably underestimate the prevalence of cocaine exposure during pregnancy in Georgia for at least three reasons. First, screening of newborns provides information about cocaine exposure only near the time of delivery and not about exposures that may have occurred earlier (10). Second, DBS samples are not collected for fetal deaths and may not be collected routinely during the interval of detection of BE for early neonatal deaths and for newborns in intensive care, especially for infants with very low birthweight and infants born prematurely. Finally, because cocaine metabolite is excreted from the body, testing must occur soon after birth; in a preliminary analysis before this Georgia study, no positive test results were identified for newborns aged >7 days.

Despite these limitations, this feasibility study illustrates that DBS screening can assist in estimating the population-based prevalence of perinatal cocaine exposure. As a result of technological improvements associated with this effort in Georgia, the immunoassay for BE in DBSs can now be used for screening with laboratory confirmation of positive values by liquid chromatography/tandem mass spectrometry (2). This methodology also can be used to detect other substances (e.g., tetrahydrocannabinol and nicotine) and their metabolites. When measures for ensuring anonymity are employed and legal protection against prosecution is provided, this approach can assist states or large communities in designing and evaluating population-wide prevention and intervention activities to reduce cocaine and other substance use

^{*}The State v. Luster, 204 Ga. App. 156; 419 S.E. 2d. 32, (1992).

among pregnant women. In addition, efforts are needed to increase public support for such studies and for programs to prevent cocaine use during pregnancy.

References

- 1. Holzman C, Paneth N. Maternal cocaine use during pregnancy and perinatal outcomes. Epidemiol Rev 1994;16:315–34.
- 2. Henderson LO, Powell MK, Hannon WH, et al. Radioimmunoassay screening of dried blood spot materials for benzoylecgonine. J Anal Toxicol 1993;17:42–7.
- 3. Sosnoff CS, Ann Q, Bernert JT, et al. Analysis of benzoylecgonine in dried blood spots by liquid chromatography/atmospheric pressure chemical ionization tandem mass spectrometry. J Anal Toxicol 1996;20:179–84.
- 4. Vega WA, Kolody B, Hwang J, Noble A. Prevalence and magnitude of perinatal substance exposures in California. N Engl J Med 1993;329:850–4.
- 5. Dempsey ME, Schlechte T, Stockbauer JW, Schramm WF, Cary PC. Prevalence and implications of perinatal substance use in Missouri. Missouri Medicine 1996;93:292–9.
- Hollinshead WH, Griffin JF, Scott HD, Burke ME, Coustan DR, Vest TA. Statewide prevalence of illicit drug use by pregnant women—Rhode Island. MMWR 1990;39:225–7.
- 7. Nalty D. 1991 South Carolina prevalence study of drug use among women giving birth: report of the South Carolina Commission of Alcohol and Drug Abuse. Columbia, South Carolina: South Carolina Commission on Alcohol and Drug Abuse, 1991.
- 8. Buchi KF, Varner MW, Chase RA. The prevalence of substance abuse among pregnant women in Utah. Obstet Gynecol 1993;81:239–42.
- 9. Pegues DA, Engelgau MM, Woernle CH. Prevalence of illicit drugs detected in the urine of women of childbearing age in Alabama public health clinics. Public Health Rep 1994;109:530–8.
- 10. Casanova OQ, Lombardero N, Behnke M, Eyler FD, Conlon M, Bertholf RL. Detection of cocaine exposure in the neonate: analyses of urine, meconium, and amniotic fluid from mothers and infants exposed to cocaine. Arch Pathol Lab Med 1994;118:988–93.

Notice to Readers

Recommendations from a Meeting on the Feasibility of Global Measles Eradication

During July 9–10, 1996, the World Health Organization (WHO), the Pan American Health Organization, and CDC cosponsored a meeting to review recent progress in controlling measles and to discuss the feasibility of global measles eradication. Participants included representatives from each WHO regional office, U.S. academic medical institutions, the Council of State and Territorial Epidemiologists, local health departments, and several state public health laboratories.

Country and regional presentations documented tremendous recent progress in worldwide measles control and increasing interest in pursuing global measles eradication. Six principal conclusions and recommendations resulted from the meeting:

- 1. Worldwide measles eradication is feasible using currently available vaccines and should be achievable within the next 10–15 years;
- 2. Single-dose strategies are not adequate to achieve eradication, and intensive efforts are needed to achieve adequate levels of population immunity;
- 3. Surveillance for measles, which must guide all efforts to control measles, must be based on clinical findings suggestive of measles;
- Laboratory diagnosis will become increasingly important as control of measles improves, and molecular epidemiologic studies, which require measles virus isolates, will be increasingly used to track transmission of measles;

Notice to Readers — Continued

- Measles outbreaks represent an opportunity to build the political will necessary to implement appropriate prevention strategies and must be well understood to refine prevention strategies; and
- 6. The major obstacles to measles eradication are perceptual, political, and financial. Considerable efforts are needed to change the incorrect perception that, in many industrialized countries, measles is a mild illness.

International consensus and commitment and a global plan of action are essential to facilitate coordination between countries, donors, technical agencies, and international organizations to assure that activities are efficiently conducted. In addition, polio-eradication efforts need to be strengthened in countries with endemic poliovirus transmission to ensure that the introduction of measles-elimination activities sustains the polio-eradication initiative.

The report of the meeting is available in WHO's Weekly Epidemiological Record (1) from the World Wide Web at http://www.who.ch/wer/wer_home.htm or from WHO, Distribution and Sales, 20 Avenue Appia, CH-1211 Geneva 27, Switzerland; fax: 41 22 791 4857. Additional information about the progress in controlling measles will be provided in an MMWR Recommendations and Reports during the first quarter of 1997.

Reference

1. World Health Organization. Expanded Programme on Immunization (EPI). Meeting on advances in measles elimination: conclusions and recommendations. Wkly Epidemiol Rec 1996;71:305–9.

Notice to Readers

Voluntary Worldwide Recall of Albuminar $^{^{\circledR}}$ and Plasma-Plex $^{^{\circledR}}$ by Centeon, L.L.C.

On October 9, 1996, Centeon, L.L.C. (King of Prussia, Pennsylvania) announced a worldwide recall of all lots of Albumin, 5%, 20%, 25% (Human), U.S.P. (Albuminar®-5, Albuminar®-20, Albuminar®-25), and Plasma Protein Fraction, (Human) U.S.P. 5% Solution Heated-Treated (Plasma-Plex®, PPF) distributed under the Centeon or Armour label as a precaution because of concerns related to manufacturing (1). Hospitals, dialysis centers, and other users should discontinue use of all lots of Centeon/Armour Albuminar® and Plasma-Plex®, quarantine all vials, and contact their distributors or Centeon for disposition orders.

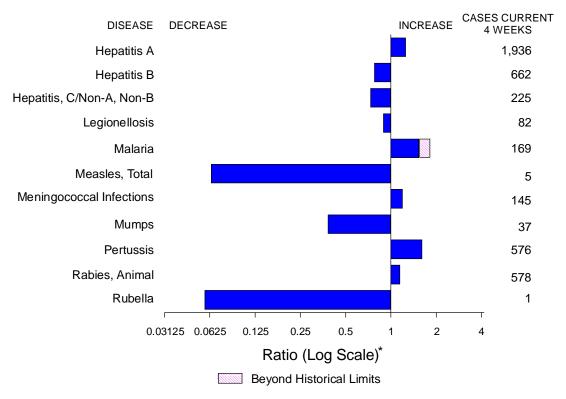
Health-care professionals should report any episode of infection associated with Centeon Albuminar[®] or Plasma-Plex[®] to CDC's Hospital Infections Program, National Center for Infectious Diseases (telephone [404] 639-6413]; fax [404] 639-6459), and to Food and Drug Administration's (FDA's) MedWatch Program (telephone [800] 332-1088; fax [800] 332-0178).

Replacement albumin is available from other U.S.-licensed sources. Shortages should be reported to the FDA Biologics Supply Officer, telephone (301) 827-0379.

Reference

1. CDC. Bacterial sepsis associated with receipt of albumin. MMWR 1996;45:866-7.

FIGURE I. Selected notifiable disease reports, comparison of provisional 4-week totals ending October 12, 1996, with historical data — United 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.

TABLE I. Summary — provisional cases of selected notifiable diseases, United States, cumulative, week ending October 12, 1996 (41st Week)

	Cum. 1996		Cum. 1996
Anthrax Brucellosis Cholera Congenital rubella syndrome Cryptosporidiosis* Diphtheria Encephalitis: California* eastern equine* St. Louis* western equine* Hansen Disease Hantavirus pulmonary syndrome*†	63 3 1 1,683 1 74 1 - 84	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 Typhoid fever	216 2 34 1 566 13 225 22 106 16 282

^{-:} no reported cases

^{-:} no reported cases

*Not notifiable in all states.

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

§ Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention (NCHSTP), last update September 24, 1996.

¶ Three suspected cases of polio with onset in 1996 has been reported to date.

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

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 1996, and October 14, 1995 (41st Week)

	AIE	os*	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	51,611	55,190	285,193	2,129	1,116	222,015	310,841	2,626	3,131	690	946
NEW ENGLAND	2,065	2,741	13,120	289	67	5,441	6,000	94	102	42	29
Maine N.H.	32 66	82 77	707 397	21 36	31	49 80	72 91	8	12	2 3	5 2
Vt.	18	28	U	30	26	42	48	32	10	4	-
Mass. R.I.	997 129	1,235 187	5,529 1,517	136 15	10	1,769 408	2,106 417	48 6	73 7	24 9	18 4
Conn.	823	1,132	4,970	51	-	3,093	3,266	-	-	N	N
MID. ATLANTIC	14,243 1,855	15,014 1,779	34,298 N	185 127	39 12	26,142	34,499 7,410	241 190	364	172	162 43
Upstate N.Y. N.Y. City	7,855	7,617	15,878	10	-	5,290 8,618	13,879	190	184 1	58 6	43 5
N.J. Pa.	2,905 1,628	3,716 1,902	4,161 14,259	48 N	5 22	3,971 8,263	3,325 9,885	- 50	143 36	12 96	24 90
E.N. CENTRAL	4,076	4,197	48,428	504	326	32,875	62,303	360	261	183	279
Ohio	871	847	14,294	147	82	10,288	19,416	30	9	83	127
Ind. III.	498 1,808	423 1,727	7,933 19,358	72 199	47 84	5,160 14,119	7,147 16,010	8 53	4 72	38 9	69 25
Mich.	685	914	Ū	86	65	Ū	14,473	269	176	36	27
Wis.	214	286	6,843	N 400	48	3,308	5,257	-	-	17 25	31
W.N. CENTRAL Minn.	1,221 226	1,265 284	22,096 2,702	490 224	287 202	9,934 U	16,052 2,430	98 2	68 4	35 4	68 6
lowa Mo.	72 626	91 559	3,435 9,654	105 53	55	906	1,274 9,081	43 33	12 18	7 8	19 14
N. Dak.	10	4	2	14	14	6,553	26	-	5	-	3
S. Dak. Nebr.	10 83	14 84	739 2.049	20 45	4	104 783	172 945	- 5	1 15	2 11	3 16
Kans.	194	229	3,515	29	12	1,588	2,124	15	13	3	7
S. ATLANTIC	13,079	14,165	43,375	118	59	75,658	86,852	213	197	116	149
Del. Md.	232 1,961	265 2,226	1,148 5,448	1 N	1 8	1,147 11,478	1,771 10,467	1 1	- 7	11 25	2 24
D.C.	1,001	828	N	-	-	3,386	3,668	-	-	8	4
Va. W. Va.	8 96 88	1,122 84	8,984 1	N N	29 2	7,108 419	8,636 542	13 9	16 43	16 1	21 4
N.C.	677	835	-	37	12	14,440	19,208	41	47	9	31
S.C. Ga.	667 1,867	766 1,791	9,315	9 30	7 -	8,594 14,685	9,844 16,399	25 U	19 15	5 3	30 14
Fla.	5,690	6,248	18,479	29	-	14,401	16,317	123	50	38	19
E.S. CENTRAL	1,749 309	1,760 220	24,075 5,230	55 11	50 6	25,724 3,310	32,109 3,776	453 27	810 28	39 4	50 10
Ky. Tenn.	647	709	10,559	23	41	9,405	10,913	330	780	19	24
Ala. Miss.	470 323	483 348	6,690 U	10 11	3	10,622 2,387	13,242 4,178	5 91	2 U	3 13	6 10
W.S. CENTRAL	5,138	4,686	32.045	61	12	24,199	43,695	371	259	18	20
Ark.	207	222	-	13	3	2,620	4,359	8	6	2	6
La. Okla.	1,177 189	792 207	5,935 5,996	6 10	4 1	6,341 3,863	8,779 4,696	175 69	148 40	1 5	3 4
Tex.	3,565	3,465	20,114	32	4	11,375	25,861	119	65	10	7
MOUNTAIN Mont.	1,533 33	1,757 17	12,861	174 23	87	5,499 25	7,426 55	459 14	386 13	37 1	97 4
ldaho	32	38	1,213	30	10	86	115	93	44	-	2
Wyo. Colo.	5 406	13 523	461 -	11 62	9 35	32 1,077	43 2,281	146 47	161 57	3 7	12 35
N. Mex.	139	138	3,017	10	-	685	837	63	42	2	4
Ariz. Utah	461 144	550 112	5,132 1,234	N 23	22	2,713 241	2,865 209	56 22	38 11	16 3	9 13
Nev.	313	366	1,804	15	11	640	1,021	18	20	5	18
PACIFIC Wash	8,506	9,605 712	54,895 7,287	253	189	16,543 1,606	21,905	337 46	684 161	48 6	92 20
Wash. Oreg.	538 359	348	Ū	79 65	72 37	475	2,172 610	46 6	161 34	1	-
Calif. Alaska	7,440 28	8,295	41,530	105 4	70 2	13,848 340	18,110	111	437 1	36 1	67
Hawaii	20 141	60 190	946 1,031	N N	8	274	544 469	3 171	51	4	5
Guam	4	-	168	N		31	89	1	5	2	1
P.R. V.I.	1,792 17	1,951 27	N N	16 N	U U	296	470 -	81 -	185 -	-	-
Amer. Samoa	-		-	N	U	-	26	-	-	-	-
C.N.M.I.	1	-	N	N	U	11	51	-	5	-	

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 HIV, STD, and TB Prevention, last update September 24, 1996.

†National Electronic Telecommunications System for Surveillance.

§Public Health Laboratory Information System.

TABLE II. (Cont'd.) Provisional cases of selected notifiable diseases, United States, weeks ending October 12, 1996, and October 14, 1995 (41st Week)

	Lyı Dise		Mal	aria	Mening@ Dise			hilis Secondary)	Tubero	culosis	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	10,668	8,843	1,164	1,045	2,535	2,404	8,508	13,019	14,693	16,399	5,387	6,228
NEW ENGLAND	3,380	1,706	46	39	109	111	133	292	341	391	594	1,248
Maine N.H.	43 38	24 20	7 2	5 1	12 5	8 19	1	2 1	21 11	11 15	89 51	46 125
Vt. Mass.	15 292	8 116	4 17	1 13	3 41	9 38	63	48	1 171	2 217	122 94	149 369
R.I. Conn.	428 2,564	285 1,253	6 10	4 15	13 35	5 32	2 67	3 238	27 110	40 106	33 205	269 290
MID. ATLANTIC	6,288	5,785	321	282	227	302	342	667	2,641	3.407	1,140	1,583
Upstate N.Y. N.Y. City	3,323 244	2,888 368	70 169	53 156	68 32	82 44	57 106	72 289	325 1,315	407 1,910	849	934
N.J.	1,100	1,540	56	55	55	70	77	136	589	603	107	284
Pa. E.N. CENTRAL	1,621 67	989 381	26 109	18 133	72 341	106 341	102 1,107	170 2,240	412 1,604	487 1,549	184 85	365 90
Ohio	41	24	13	11	128	96	466	709	238	213	11	10
Ind. III.	23 3	16 16	13 35	15 68	54 89	48 89	164 339	267 866	140 840	138 799	7 23	14 15
Mich. Wis.	Ū	5 320	35 13	18 21	38 32	62 46	U 138	232 166	297 89	330 69	31 13	37 14
W.N. CENTRAL	133	157	42	23	202	151	289	620	369	465	440	310
Minn. Iowa	59 20	80 12	19 2	4 3	25 41	25 28	51 16	37 39	81 50	113 49	25 204	24 110
Mo. N. Dak.	22	42	9 1	7 1	85 3	56 1	189	507	155 6	179 3	17 56	28 24
S. Dak.	3	- 4	-	2	9	5	-	-	17	20	105	82
Nebr. Kans.	29	19	3 8	3 3	17 22	14 22	11 22	11 26	13 47	20 81	5 28	5 37
S. ATLANTIC Del.	558 78	552 38	244 3	207 1	516 2	401 6	2,970 34	3,257 14	2,832 20	2,903 46	2,226 61	1,728 79
Md.	328	364	66	55	66	35	521	370	241	314	504	347
D.C. Va.	3 42	3 47	7 39	16 47	10 48	5 55	113 325	91 497	108 234	86 202	9 480	11 350
W. Va. N.C.	11 62	22 49	5 25	3 15	11 65	8 68	3 836	9 894	50 400	58 335	79 581	97 392
S.C. Ga.	5 1	16 10	11 23	1 27	48 117	51 78	305 524	472 610	277 502	253 571	74 240	107 233
Fla.	28	3	65 65	42	149	95	309	300	1,000	1,038	198	112
E.S. CENTRAL Ky.	56 14	62 13	26 3	23 3	184 25	169 37	1,992 119	2,686 148	1,014 185	1,132 248	173 36	238 24
Tenn. Ala.	19 6	28 7	13 3	9	50 62	67 34	654 448	697 520	306 337	345 324	66 68	80 125
Miss.	17	14	7	3	47	31	771	1,321	186	215	3	9
W.S. CENTRAL Ark.	95 21	93 7	38	48 2	289 33	283 27	1,175 121	2,593 398	1,763 146	2,228 192	322 21	534 41
La. Okla.	2 20	5 40	6	5 1	47 31	43 30	429 148	803 151	59 134	217 146	13 27	24 28
Tex.	52	41	32	40	178	183	477	1,241	1,424	1,673	Ú	441
MOUNTAIN Mont.	7	12	51 7	53 3	144 4	171 2	111	176 4	488 14	525 10	130 20	155 41
Idaho	1	-	, - 7	1	22	8	4	-	7	12	-	3
Wyo. Colo.	2	3	21	23	3 31	8 43	2 23	96	6 71	3 59	26 41	23 9 6
N. Mex. Ariz.	1 -	1 1	2 6	5 10	22 35	30 50	1 66	6 36	64 186	66 257	6 28	6 47
Utah Nev.	1 2	1 6	4	6 5	15 12	15 15	2 13	4 30	39 101	31 87	4 5	15 11
PACIFIC	84	95	287	237	523	475	389	488	3,641	3,799	277	342
Wash. Oreg.	14 13	10 15	20 18	19 15	82 93	76 86	5 11	12 19	211 134	217 103	6 1	13 2
Calif. Alaska	56	70	239	190 3	336 8	299 10	372	455 2	3,107 50	3,269 61	262 8	320 7
Hawaii	1	-	7	10	4	4	1	-	139	149	-	-
Guam P.R.	-	-	-	1 1	1 4	2 23	3 108	8 229	35 63	86 162	- 38	- 35
V.I. Amer. Samoa	-	-	-	2	-	-	-	-	-	4	-	-
C.N.M.I.	-	-	-	1	-	-	1	9	-	31	-	

N: Not notifiable

U: Unavailable

-: no reported cases

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending October 12, 1996, and October 14, 1995 (41st Week)

-	H. influ	ienzae,		Hepatitis (vir	al), by type		1	Measles	(Rubeol	a)
		sive		A	E		Ind	igenous	lm	ported [†]
Reporting Area	Cum. 1996*	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	1996	Cum. 1996	1996	Cum. 1996
UNITED STATES	823	894	21,574	23,319	7,568	7,794	-	399	-	44
NEW ENGLAND	24	33	302	239	155	184	-	11	-	4
Maine N.H.	9	3 9	16 13	23 11	2 14	7 18	-	-	-	-
Vt.	1	2	6	5	10	5	-	1	-	1
Mass. R.I.	12 2	10 3	156 15	102 28	51 9	70 8	-	9	-	3
Conn.	-	6	96	70	69	76	-	1	-	-
MID. ATLANTIC	147 43	133 36	1,476 347	1,430	1,173	1,104	-	23	-	5
Upstate N.Y. N.Y. City	43 31	32	475	360 676	261 485	299 332	-	9	-	3
N.J. Pa.	47 26	18 47	278 376	212 182	205 222	304 169	-	3 11	-	2
E.N. CENTRAL	134	150	1,790	2,630	783	887	_	5	_	7
Ohio	80	75	630	1,485	103	88	-	2	-	3
Ind. III.	10 32	19 38	255 413	147 533	128 195	182 231	-	2	-	- 1
Mich.	7	16	345	297	302	325	-	-	-	3
Wis.	5	2	147	168	55	61	-	1	-	-
W.N. CENTRAL Minn.	41 25	68 38	1,929 108	1,552 157	349 50	508 49	-	20 16	-	2 2
lowa	5	3	300	67	60	40	-	-	-	-
Mo. N. Dak.	7 -	20	916 100	1,101 22	171 2	349 4	Ū	3	Ū	-
S. Dak.	1	1	41	49	5	2	-	-	-	-
Nebr. Kans.	1 2	3 3	176 288	38 118	33 28	25 39	-	1	-	-
S. ATLANTIC	161	174	1,133	899	1,174	1,006	-	4	-	9
Del. Md.	2 51	- 58	15 198	9 171	7 241	7 205	-	1	-	2
D.C.	5	-	30	21	28	15	U	-	U	-
Va. W. Va.	8 7	23 7	135 13	167 21	112 21	93 45	-	-	_	3
N.C.	22	25	136	89	265	224	-	3	-	1
S.C. Ga.	4 42	2 54	44 149	40 51	72 30	40 62	-	-	-	2
Fla.	20	5	413	330	398	315	-	-	-	1
E.S. CENTRAL Ky.	26 5	10 4	1,037 38	1,543 41	662 52	692 60	-	2	-	-
Tenn.	12	-	677	1,273	378	547	-	2	-	-
Ala. Miss.	8 1	5 1	148 174	71 158	57 175	85 U	- U	-	- U	-
W.S. CENTRAL	33	56	4,507	3,420	999	1,074	-	26	-	2
Ark.	-	6	401	455	63	51	-	-	-	-
La. Okla.	3 27	1 21	150 1,897	102 878	116 59	157 138	-	-	-	-
Tex.	3	28	2,059	1,985	761	728	-	26	-	2
MOUNTAIN Mont.	82	97	3,468 97	3,282 118	895 12	669 19	-	152	-	5
ldaho	1	3	178	258	76	76	-	1	-	-
Wyo. Colo.	35 12	6 14	29 374	97 419	36 115	22 101	-	1 4	-	3
N. Mex.	9	12	314	691	312	254		16		-
Ariz. Utah	9 8	24 10	1,341 809	894 589	199 81	97 53	U	8 117	U	2
Nev.	8	28	326	216	64	47	-	5	-	-
PACIFIC Wash.	175 3	173 8	5,932 433	8,324 682	1,378 77	1,670 150	-	156 51	-	10
Oreg.	22	22	689	2,199	81	98	-	4	-	-
Calif. Alaska	146 2	138 1	4,714 36	5,261 40	1,194 14	1,398 11	-	36 63	-	5
Hawaii	2	4	60	142	12	13	-	2	-	5
Guam	-	-	2	7	-	4	U		U	-
P.R. V.I.	1 -	3	96 -	83 7	294	495 14	Ū	7	Ū	-
Amer. Samoa	-	-	-	6	<u>-</u>	-	U	-	U	-
C.N.M.I.	10	11	1	24	5	22	U	-	U	-

N: Not notifiable

U: Unavailable

^{-:} no reported cases

 $^{^{*}}$ Of 195 cases among children aged <5 years, serotype was reported for 43 and of those, 13 were type b.

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

TABLE III. (Cont'd.) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending October 12, 1996, and October 14, 1995 (41st Week)

Name		Measles (Rub	peola), cont'd.	T	DCI 14	, 1333 (T 13t	TTCCK,		ı		
New Part				-	Mump	s		Pertussi	s		Rubell	a
NEW ENGLAND 15 9 2 11 12 23 8488 465 27 44 120 28 28 11 11 12 11 14 90 43 21 15 16 91 16 22 11 17 18 18 18 11 18 18 18 18 18 18 18 18 18	Reporting Area			1996			1996			1996		
Maine	UNITED STATES	443	277	8	508	674	135	4,058	3,424	-	202	107
N.H.		15	9	-	2		23			-	27	44
Vt. 2			-									
R.I. COON. 1 2 1 3 - 30 3 4 36 MID. ATLANTIC 28 12 3 74 101 27 367 287 - 11 13 N.Y. Gity 12 5 16 15 1 29 44 - 4 8 N.Y. Gity 13 6 16 15 1 29 118 34 - 2 2 24 17 210 133 - 1 2 18 18 17 - 1 2 2 25 17 18 18 17 - 2 2 26 17 18 18 17 - 2 2 27 17 18 18 17 - 2 2 28 17 21 18 18 17 - 2 2 29 17 21 18 18 17 - 2 2 20 17 21 18 18 17 - 2 2 20 18 18 18 17 - 2 2 20 18 18 18 17 - 2 2 20 18 18 18 17 - 2 2 20 18 18 18 18 18 18 18 18 18 18 18 18 18	Vt.			-		-	6	91	62			-
MID. ATLANTIC 28 112 3 74 101 27 28 113 1 - 12 27 24 17 210 133 - 4 3 NY. GIY 12 15 - 16 15 17 - 29 44 - 44 8 NY. 17 210 133 - 3 3 34 45 9 112 93 - 112 94 - 112 94 - 112 94 - 112 95												
Upstate N.Y										-		
NY. CITY N.J. 3 6 - 2 17 7 - 16 17 9 44 - 4 8 8 9 1 1 29 44 - 2 4 8 8 9 1 1 2 9 1 2 9 1 1 2 9 1 2 9 1 2 9 1 1 2 9 1 2 9 1 1 1 2 9 1 1 1 1												
Pa. 13 - 3 34 45 9 112 93 - 1	N.Y. City	12	5	-	16	15	1	29	44	-	4	8
EN CENTRAL 12 15 2												
Ohio 5 2 - 39 41 - 192 120			15							_	3	3
III.		5									-	-
Wis. 1 6 - 1 5 127	III.	3	2		19	33		137	88		1	-
W.N. CENTRAL 22 2												3
Minn.				_		38	10			_	_	-
Mo, N, Dak.			-								-	-
S. Dak. Nebr. Nebr. 1 4 - 7 10	Mo.		1	-	5		1		55	-	-	-
Nebr.			-									-
S. ATLANTIC 13	Nebr.	-	-		-			7	10		-	-
Del. 1 - - - - 1 100 - - - 1 1 25 30 10 177 37 - - 1 D.C. - - 1 0 1 - - - 1 -											-	-
Md. 2 1 1 1 25 30 10 177 37 - 1 1 2												
Va. 3 - - 12 20 - 711 19 - 2 -<		2	1					177	37			1
N.C.	Va.		-					71				-
S.C. Ga. Ga. Ga. Ga. Ga. Ga. Ga. Ga. Ga. Ga			-						- 110			- 1
Fla.	S.C.	-	Ī	-	5	10	4	36	22	-		-
E.S. CENTRAL											10	- 7
Ténn. 2 - - - 19 206 - - 1 Ala. - - - 3 2 - 18 35 - 2 1 Miss. - - U 15 3 U 9 2 N N N W.S. CENTRAL 28 29 - 28 47 3 96 254 - 3 7 Ark. - 2 2 2 2 7 10 33 - - - La. - 18 - 13 12 - 10 33 - - - - La. - 18 - 13 12 - - 10 33 - - - - - - - - - - - - - - - - -			-							_		
Ala. - - - - 3 4 - 18 35 - 2 - Miss. - - U 15 3 U 9 2 N N N W.S. CENTRAL 28 29 - 28 47 3 96 254 - 3 7 Ark. - 2 2 2 2 7 - 10 33 -			-									
W.S. CENTRAL 28 29 - 28 47 3 96 254 - 3 7 Ark. - 2 - 2 7 - 10 33 - <td>Ala.</td> <td></td> <td></td> <td>-</td> <td>3</td> <td>4</td> <td>-</td> <td>18</td> <td>35</td> <td>-</td> <td>2</td> <td>-</td>	Ala.			-	3	4	-	18	35	-	2	-
Ark. - 2 - 2 7 - 10 33 - <td></td>												
La. - 18 - 13 12 - 8 17 - 1 - Okla. - - - 8 28 - - - - - 8 28 - <												-
Tex. 28 9 - 13 28 3 70 176 - 2 7 MOUNTAIN 157 68 - 21 30 4 349 509 - 7 4 Mont. - - - - 1 1 28 3 - <t< td=""><td></td><td>-</td><td>18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>		-	18									-
Mont. Idaho - <th< td=""><td></td><td>28</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		28										
Idaho 1 - - - 3 - 102 96 - 3 - Wyo. 1 - - - - - 5 1 - <td< td=""><td></td><td>157</td><td>68</td><td>-</td><td>21</td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td></td<>		157	68	-	21							4
Wyo. 1 -	111		-	-	-					_		-
N. Mex. 16 31 N N N - 50 92 - - - Ariz. 8 10 U 1 2 U 27 153 U 1 3 Utah 119 - - 2 11 2 19 22 - - 1 1 Nev. 5 1 - 15 11 - 27 57 - 1 - - 1 - - 1 - - 1 - - 1 - - - 1 - - - - 1 - <td>Wyo.</td> <td>1</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>5</td> <td>1</td> <td></td> <td>-</td> <td>-</td>	Wyo.	1				-		5	1		-	-
Utah Nev. 119 5 - 1 - - - - - - 2 15 11 11 2 - - - - - - 19 22 57 - - - - - - - - - - - - - - - - - - -		16	31			N	-					-
PACIFIC 166 130 3 175 219 42 1,123 682 - 58 26 Wash. 51 19 1 19 10 40 503 219 - 2 1 Oreg. 4 1 - - - 2 33 43 - 1 - Calif. 41 108 1 127 188 - 557 372 - 52 20 Alaska 63 - - - 2 12 - 3 - - - - Hawaii 7 2 1 27 9 - 27 48 - 3 5 Guam - - - U 5 4 U 1 2 U - 1 PR. 7 3 - 1 2 - 1 1 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>153</td> <td>U</td> <td></td> <td></td>									153	U		
Wash. 51 19 1 19 10 40 503 219 - 2 1 Oreg. 4 1 - - - 2 33 43 - 1 - Calif. 41 108 1 127 188 - 557 372 - 52 20 Alaska 63 - - - 2 12 - 3 - - - - Hawaii 7 2 1 27 9 - 27 48 - 3 5 Guam - - - U 5 4 U 1 2 U - 1 PR. 7 3 - 1 2 - 1 1 - - - - VI. - - U - 3 U - - U		5							57	-		-
Oreg. 4 1 - - - 2 33 43 - 1 - Calif. 41 108 1 127 188 - 557 372 - 52 20 Alaska 63 - - 2 12 - 3 - - - - - Hawaii 7 2 1 27 9 - 27 48 - 3 5 Guam - - U 5 4 U 1 2 U - 1 PR. 7 3 - 1 2 - 1 1 - - - - Amer. Samoa - - U - - U - - U - - - U -									682	-	58	
Calif. 41 108 1 127 188 - 557 372 - 52 20 Alaska 63 - - 2 12 - 3 - - - - Hawaii 7 2 1 27 9 - 27 48 - 3 5 Guam - - U 5 4 U 1 2 U - 1 PR. 7 3 - 1 2 - 1 1 - - - VII. - - U - 3 U - - U - - Amer. Samoa - - U - - U - - U - -	Oreg.	4	1	-	-	-		33	43	-	1	-
Hawaii 7 2 1 27 9 - 27 48 - 3 5 Guam - - - U 5 4 U 1 2 U - 1 PR. 7 3 - 1 2 - 1 1 - - - VI. - - U - 3 U - - U - - Amer. Samoa - - U - - U - - U - -	Calif.											
P.R. 7 3 - 1 2 - 1 1 V.I U - 3 U U U												
V.I U - 3 U U Amer. Samoa - U U		-									-	1
Amer. Samoa U U U	V.I.	-								U	-	-
		-		U		-	U	-	-		-	-

N: Not notifiable

U: Unavailable

-: no reported cases

TABLE IV. Deaths in 121 U.S. cities,* week ending October 12, 1996 (41st Week)

	-	All Cau	ses, By	/ Age (Y	ears)		P&I [†]		,	All Cau	ises, By	/ Age (Y	ears)		P&I [†]
Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mas. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass.		392 89 32 14 28 32 8 4 19 27 37 2	4 17 8 3 6 8 6	35 10 4 1 1 2 1 - 2 3 5	10 3 - 1 2 - - 2 1 1	6 2 1 1 1	29 4 1 3 1 3 2 1 - 1 1	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.	1,158 134 196 80 130 105 65 65 34 37 169 126	677 71 98 52 80 64 40 34 21 30 104 77	285 35 59 21 33 16 17 16 8 5 43 29 3	125 20 29 6 7 13 5 13 4	38 6 5 1 3 8 2 - 1 2 1 7	32 2 5 6 4 1 2	61 8 17 3 8 1 2 5 5 1 7
Waterbury, Conn. 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. Fittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y.	27 64 2,206 49 19 74 28 20 33 38 1,20 27 300 52 7 121 27 35 91 33	20 50 1,529 37 13 51 19 15 28 831 U 18 207 40 5 94 22 27 73 13	4 11 418 9 5 16 5 5 5 11 250 5 6 19 5 6 15	3 2 193 2 1 5 4 - 6 6 119 U 3 35 3 1 6 6 - 2 2 4 4 -	28 - 1 - 1 17 U - 6 1 - 1	1 38 1 - 1 19 U1 2 2 - 1	1 102 2 9 1 1 2 3 41 U 1 17 1 1 1 8 - 1 10 1	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.	749 130 78 65 42 220 46 220 1,369 64 51 53 180 87 84 355 65 90 183 51	479 75 50 43 22 142 22 1104 888 45 32 36 111 59 56 220 47 49 127	167 28 18 14 12 48 15 5 27 264 13 9 11 31 12 16 79 14 19 32 13	62 15 5 5 21 5 26 146 5 8 2 29 10 6 42 185 4	21 5 2 3 2 6 - 3 43 - 2 7 1 5 9 3 3 8 2	19 7 3 3 3 3 3 2 2 8 1 1 2 2 2 2 2 5 1 1 1 1 1 1 1 1 1 1 1 1	62 4 7 4 3 24 1 19 82 3 2 2 3 4 7 2 25 3
Yonkers, N.Y. E.N. CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Chicago, Ill. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Micl Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, Ill. Rockford, Ill. South Bend, Ind. Toledo, Ohio Youngstown, Ohio 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.	1,947 50 366 400 93 147 167 139 213 43 43 43 13 13 130 29 46 75 58 637 14 30 93 34	1,287 36 31 234 59 86 101 127 33 345 9 105 U 944 43 443 U 129 61 27 94 65 81 81 39	U 389 11 5 88 24 40 35 21 41 6 5 2 8 40 U 20 6 9 7 13 8 114 U 2 7 7 5 5	U 169 1 51 4 111 100 299 3 1 4 15 U 9 3 8 7 39 U - 4 1 11 4 8 6 4	0 63 1 19 4 8 2 10 1 2 1 1 3 5 4 4 1	U 39 1 - 8 2 2 3 3 5 6 6 - 1 1 U U 1 1 2 1 3 3 1 1	95 - 27 63 5 10 62 22 23 9 U 9 5 1 22 2 1 37 U 2 1 5 1 13 7 - 7 1	Tulsa, Okla. 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. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif. San Francisco, Calif. San Francisco, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash.	119 157 21 180 22 104 118 925 15 58 U U U U 110 U	77 591 75 35 73 98 16 117 76 88 632 10 54 51 U 98 90 U 30 80 60 6,918	15 159 18 4 21 44 4 13 20 151 2 8 U 7 17 U 24 U 20 27 U 5 16 9 16 2,060	7 75 7 4 13 11 123 10 6 93 2 3 U 5 9 U 15 U 11 23 4 13 2 6 937	3 21 3 2 2 3 5 1 4 1 2 4 1 6 0 1 2 1 2 1 2 1 2 1 2 1 2 2 2 2 1 2 1 2	4 24 1 1 10 1 1 - 7 - 1 3 3 5 - 3 U U U U 2 2 3 U - 3 1 5 5 222	7 56 3 4 8 8 10 2 11 10 66 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

U: Unavailable -: no reported cases

*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.

Contributors to the Production of the MMWR (Weekly)

Weekly Notifiable Disease Morbidity Data and 121 Cities Mortality Data

Denise Koo, M.D., M.P.H.

Deborah A. Adams

Timothy M. Copeland

Patsy A. Hall

Carol M. Knowles

Sarah H. Landis

Myra A. Montalbano

Desktop Publishing and Graphics Support

Jolene W. Altman

Morie M. Higgins

Peter M. Jenkins

The Morbidity and Mortality Weekly Report (MMWR) Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format and on a paid subscription basis for paper copy. To receive an electronic copy on Friday of each week, send an e-mail message to lists@list.cdc.gov. The body content should read subscribe mmwr-toc. Electronic copy also is available from CDC's World-Wide Web server at http://www.cdc.gov/ or from CDC's file transfer protocol server at ftp.cdc.gov. To subscribe for paper copy, contact Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone (202) 512-1800.

Data in the weekly *MMWR* are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the following Friday. Address inquiries about the *MMWR* Series, including material to be considered for publication, to: Editor, *MMWR* Series, Mailstop C-08, CDC, 1600 Clifton Rd., N.E., Atlanta, GA 30333; telephone (404) 332-4555.

All material in the MMWR Series is in the public domain and may be used and reprinted without permission; citation as to source, however, is appreciated.

Director, Centers for Disease Control and Prevention David Satcher, M.D., Ph.D. Deputy Director, Centers for Disease Control and Prevention Claire V. Broome, M.D. Director, Epidemiology Program Office

Stephen B. Thacker, M.D., M.Sc.

Editor, MMWR Series
Richard A. Goodman, M.D., M.P.H.
Managing Editor, MMWR (weekly)
Karen L. Foster, M.A.
Writers-Editors, MMWR (weekly)
David C. Johnson
Darlene D. Rumph Person
Caran R. Wilbanks
Editorial Assistant, MMWR (weekly)
Teresa F. Rutledge

☆U.S. Government Printing Office: 1997-532-228/47033 Region IV