



## MORBIDITY AND MORTALITY WEEKLY REPORT

- 57 Reported Vaccine-Preventable Diseases United States, 1993, and the Childhood Immunization Initiative
- Prevalence of Adults With No Known Major
   Risk Factors for Coronary Heart Disease
   Behavioral Risk Factor Surveillance
   System, 1992
- 69 Update: Dracunculiasis Eradication
  - Mali and Niger, 1993
    11 State Cancer Registries:
    Status of Authorizing Legislation
    and Enabling Regulations —
    United States, October 1993

## Current Trends

# Reported Vaccine-Preventable Diseases — United States, 1993, and the Childhood Immunization Initiative

In the United States, children are routinely vaccinated against nine diseases—diphtheria, *Haemophilus influenzae* type b (Hib), hepatitis B, measles, mumps, pertussis, poliomyelitis (paralytic), rubella, and tetanus (1). Based on public health surveillance and epidemiologic assessment of most of these diseases, the impact of childhood vaccination on reported occurrence has been substantial (2,3): provisional surveillance data for 1993 indicate that for five of these diseases and for congenital rubella syndrome (CRS), the number of reported cases is at or near the lowest levels ever, suggesting near interruption of transmission of these diseases. This report presents provisional data for December 1993 for these 10 diseases, compares provisional data for 1993 with final data for 1992, and describes the Childhood Immunization Initiative (CII).

In December 1993, state health departments reported no cases of CRS, diphtheria, or poliomyelitis, and fewer than five cases each of measles and tetanus (Table 1). In addition, no cases of indigenously acquired measles were reported that could not be linked to chains of transmission from known imported cases during September–December, the longest such period since surveillance began in 1912.

Provisional data for 1993 indicate that the numbers of reported cases of CRS, diphtheria, measles, poliomyelitis, rubella, and tetanus were at or near the lowest levels ever (Table 1). Marked differences were observed in the age-specific incidence of invasive *H. influenzae* disease,\* acute hepatitis B, mumps, and pertussis; the number of persons with reported cases for whom age was known was 1211, 11,633, 1515, and 5793, respectively. For invasive *H. influenzae* disease, preschool-aged (aged <5 years) children constituted 399 (33%) cases; for acute hepatitis B, 142 (1%†); for mumps,

<sup>\*</sup> *H. influenzae* serotype is not routinely reported to the National Notifiable Diseases Surveillance System.

<sup>†</sup>Because most hepatitis B virus infections among infants and children aged <5 years are asymptomatic (although more likely to become chronic), acute disease surveillance does not reflect the incidence of this problem in this age group or the effectiveness ofhepatitis B vaccination in infants.

Childhood Immunization Initiative — Continued

275 (18%); and for pertussis, 3753 (65%). Of preschool-aged children with pertussis, 2549 (68%) were aged <1 year (4).

Reported by: National Immunization Program, CDC.

Editorial Note: The findings in this report indicate that the incidences of most vaccine-preventable diseases during 1993 were at or near their lowest reported levels. However, decreases in disease burden and mortality can be sustained only by achieving and maintaining high vaccination levels among children aged 0–2 years. For example, although the incidence of measles was low during 1981–1988, during 1989–1991, a resurgence of measles—attributed primarily to a failure to vaccinate preschool-aged children on time (i.e., early during the second year of life) (5)—accounted for an estimated 55,000 measles cases, 11,000 hospitalizations, and 130 deaths (CDC, unpublished data, 1993).

The national response to the resurgence of measles has improved vaccination coverage among children aged 0–2 years. However, because no system has been fully established to ensure that all children complete the recommended series of 11–15 doses of vaccine by their second birthday, vaccination coverage remains unacceptably low in many areas of the United States (1,6). In 1993, the President initiated CII, a more comprehensive national response to undervaccination. The goals of CII are to 1) eliminate indigenous cases of six vaccine-preventable diseases (i.e., diphtheria, Hib disease [among children aged <5 years], measles, poliomyelitis, rubella, and tetanus

TABLE 1. Number of reported cases of diseases preventable by routine childhood vaccination — United States, December 1993 and 1992–1993\*

	No. cases, December	Total	cases	No. cases among children aged <5 years†		
Disease	1993	1992	1993	1992	1993	
Congenital rubella						
syndrome (CRS)	0	9	7	9	5§	
Diphtheria ` ´	0	3	0	1	0	
Haemophilus						
influenzae ¶	135	1,412	1,264	592	399	
Hepatitis B**	1,330	16,126	12,396	215	142	
Measles	4	2,231	281	1,116	104	
Mumps	157	2,485	1,640	364	275	
Pertussis	700	3,935	6,335	2,261	3,753	
Poliomyelitis,		0,700	0,000		07.00	
paralytic <sup>††</sup>	_		_	_	_	
Rubella	11	157	195	24	36	
Tetanus	4	44	43	0	1	

<sup>\*</sup>Data for 1992 are final and for 1993, provisional.

<sup>&</sup>lt;sup>†</sup>For 1992 and 1993, age data were available for 90% or more cases, except for 1992 age data for mumps and rubella, which were available for 84% and 64% of cases, respectively. <sup>§</sup>Age reported for five of seven persons with CRS through December 31, 1993.

Invasive disease; *H. influenzae* serotype is not routinely reported to the National Notifiable Diseases Surveillance System.

<sup>\*\*</sup>Because most hepatitis B virus infections among infants and children aged <5 years are asymptomatic (although likely to become chronic), acute disease surveillance does not reflect the incidence of this problem in this age group or the effectiveness of hepatitis B vaccination in infants.

<sup>&</sup>lt;sup>††</sup>Four cases of suspected poliomyelitis were reported in 1993; four of the five suspected cases with onset in 1992 were confirmed, and the confirmed cases were vaccine-associated.

Childhood Immunization Initiative — Continued

TABLE 2. Vaccination coverage levels targeted by the objectives for the Childhood Immunization Initiative, by vaccine and year\* — United States

1992 Baseline <sup>†</sup>	1994	1995	1996
83%	85%	87%	90%
72%	75%	85%	90%
83%	85%	90%	90%
_	75%	85%	90% 70%§
	83%	83% 85% 72% 75% 83% 85%	83% 85% 87% 72% 75% 85% 83% 85% 90% — 75% 85%

<sup>\*</sup>Baseline data for 1993 are not yet available.

[among children aged <15 years] by 1996<sup>§</sup>; 2) increase vaccination coverage levels to at least 90% among 2-year-old children by 1996 for each of the vaccinations recommended routinely for children (for hepatitis B, the objective is set for 1998) (Table 2); and 3) establish a vaccination-delivery system that maintains and further improves high coverage levels.

CII comprises six broad areas of activity that constitute the framework for meeting the nation's goals for 1996 and beyond:

- Improve quality and quantity of vaccination-delivery services. State and local health agencies will use new federal resources to hire personnel, extend clinic hours, and encourage health-care providers to use all health-care contacts to administer needed vaccines and reduce obstacles parents encounter in obtaining vaccinations for children (7). Computerized state vaccination information systems are being developed to remind parents when vaccinations are due and to assist health-care providers in determining the vaccination needs of patients.
- Increase community participation and education. A long-term, national outreach campaign will be initiated in April 1994 to improve parent awareness of the need for timely childhood vaccination and to prompt health-care providers to use all health-care contacts to administer needed vaccines to children. At the national level, elements of this campaign will include widespread distribution of radio, television, and print public service announcements; dissemination of a national theme and call to action; and other activities designed to unify efforts throughout the country. At the state and community levels, the campaign will include a grass roots organizing effort to unite all sectors of the community (e.g. public and private health-care providers, business groups, community leaders, minority groups, voluntary and service organizations, religious institutions, and media affiliates).
- Reduce vaccine cost for parents. To reduce vaccine cost as a barrier to vaccination, the U.S. Department of Health and Human Services will initiate the Vaccines for Children program on October 1, 1994. This program will purchase vaccines from manufacturers and provide them at no cost to participating public and private health-care providers for use in children aged 0–18 years who are eligible for Medicaid, are without health insurance, or are American Indian. Children with health insurance who are served by federally qualified health centers also will be able to

<sup>†</sup>Baseline data from 1992 National Health Interview Survey (6).

<sup>§</sup>The goal is for 90% vaccination coverage by 1998.

<sup>§</sup>Objectives to reduce cases of mumps, pertussis, and hepatitis B will be set during 1994.

Childhood Immunization Initiative — Continued

receive free vaccine if their insurance does not cover vaccination. State vaccination programs will be permitted to purchase additional vaccines at reduced federal contract prices.

- Improve surveillance for coverage and disease. An improved system for measuring vaccination coverage at the national, state, and local levels among infants and young children is being established to identify undervaccinated populations and to monitor progress in achieving coverage goals. Clinic or office-based assessments are being completed to assist health-care providers in increasing coverage among the populations they serve. Surveillance for vaccine-preventable diseases will be intensified by investigating each case of disease targeted for elimination to determine how that case might have been prevented and enable initiation of aggressive control measures when cases are detected.
- Form and strengthen partnerships. Many federal agencies provide vaccinations to children, reimburse for vaccination services, or have access—through education, food, housing, or other assistance—to populations at high risk for undervaccination. Similarly, many private providers and organizations vaccinate children or otherwise serve or advocate for children. Coordination of these efforts will be strengthened and new partnerships formed to concentrate the efforts of these providers and organizations on improving the vaccination of children.
- Improve vaccines. Emphasis will be placed on the development and licensure of new and safer or more effective vaccines. Existing vaccination schedules will be simplified, and development of combination vaccines will be promoted.

To track progress toward achieving the goals of CII, CDC's National Immunization Program is initiating in this issue of *MMWR* monthly publication of a table that summarizes the number of cases of all diseases preventable by routine childhood vaccination reported during the previous month and year-to-date (provisional data) (Table 1). In addition, the table compares provisional data with final data for the previous year and highlights the number of reported cases among children aged <5 years—who are the primary focus of CII. Data in the table are derived from CDC's National Notifiable Diseases Surveillance System.

#### References

- 1. CDC. General recommendations on immunization: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1994;43(in press).
- 2. Orenstein WA, Atkinson W, Mason D, Bernier RH. Barriers to vaccinating preschool children. J Health Care Poor Underserved 1990;1:315–30.
- 3. Adams WG, Deaver KA, Cochi SL, et al. Decline of childhood *Haemophilus influenzae* type b (Hib) disease in the Hib vaccine era. JAMA 1993;269:221–6.
- 4. CDC. Resurgence of pertussis—United States, 1993. MMWR 1993;42:952–3,959–60.
- 5. National Vaccine Advisory Committee. The measles epidemic: the problems, barriers, and recommendations. JAMA 1991;266:1547–52.
- CDC. Vaccination coverage of 2-year-old children—United States, 1991–1992. MMWR 1993; 42:985–8.
- 7. CDC. Standards for pediatric immunization practices. JAMA 1993;269:1817–22.

## **Current Trends**

## Prevalence of Adults With No Known Major Risk Factors for Coronary Heart Disease — Behavioral Risk Factor Surveillance System, 1992

Although the death rate for coronary heart disease (CHD) in the United States has declined approximately 50% since 1970, CHD remains the leading cause of death for both men and women and, in 1990, accounted for 489,340 deaths (1). National strategies and programs have targeted individual risk factors for death attributed to CHD. However, an alternative approach may be to measure the prevalence of adults who have no known risk factors for CHD. This report provides state-specific estimates of and characterizes adults who report having no known major risk factors for CHD.

Data were analyzed from 91,428 persons aged ≥18 years who resided in 48 states and the District of Columbia and participated in the 1992 Behavioral Risk Factor Surveillance System (BRFSS), a random-digit-dialed telephone survey. The analysis examined survey responses regarding the following risk factors: current cigarette smoking (smoked at least 100 cigarettes in their lifetime and now smoking), physical inactivity (no or irregular leisure-time physical activity), overweight (body mass index ≥27.3 for women and ≥27.8 for men), high blood pressure (told more than once by a health professional he/she has high blood pressure or is currently taking antihypertensive medications), high blood cholesterol (ever told by a health professional he/she has high blood cholesterol), and diabetes (ever told by a doctor he/she has diabetes). Persons who reported having none of these risk factors were defined as having no known risk factors for CHD.

The results were weighted to account for the distribution of demographic characteristics in each state. To determine the actual prevalence of adults in each state with no known CHD risk factors, state-specific estimates were not standardized to a referent population. For data aggregated from all states, census data for the 1980 U.S. population were used to standardize comparisons by age, race, and educational status; aggregated analyses were restricted to black and white respondents for whom the age, race, and education distributions of the population were known. SESUDAAN was used to calculate the standard errors for the prevalence estimates (2).

Of the 91,428 respondents, 18% reported having none of the six major CHD risk factors; 35% reported having one risk factor; 29%, two risk factors; 13%, three risk factors; and 5%, four to six risk factors. In every state, less than 30% of the population had no known risk factors. The state-specific proportion of respondents with no known risk factors varied minimally; in 45 (92%) of the states, the proportion ranged from 14% to 26% (Table 1).

For both males and females, the percentage of respondents with no known risk factors was highest for 18–34-year-olds. Among males, the percentage was lowest for those aged 50–64 years, and among females, the percentage varied inversely with age (Table 2). The prevalence of no known risk factors for CHD increased directly with increasing level of education.

Reported by the following BRFSS coordinators: M Scott, Alabama; P Owen, Alaska; R Porter, Arizona; L Lund, California; M Leff, Colorado; M Adams, Connecticut; F Breukelman, Delaware; C Mitchell, District of Columbia; D McTague, Florida; E Pledger, Georgia; F Newfield, Hawaii;

### Coronary Heart Disease — Continued

G Louis, Idaho; B Steiner, Illinois; R Guest, Indiana; P Busick, Iowa; K Pippert, Kansas; K Bramblett, Kentucky; D Hargrove-Roberson, Louisiana; D Maines, Maine; A Weinstein, Maryland; R Lederman, Massachusetts; H McGee, Michigan; N Salem, Minnesota; E Jones, Mississippi; J Jackson-Thompson, Missouri; P Smith, Montana; S Huffman, Nebraska; M Atherton, Nevada; K Zaso, New Hampshire; G Boeselager, New Jersey; E Plunkett, New Mexico; C Baker, New York; C Washington, North Carolina; B Burgum-Lee, North Dakota; E Capwell, Ohio; N Hann, Oklahoma; J Grant-Worley, Oregon; C Becker, Pennsylvania; J Buechner, Rhode Island; M Lane, South Carolina; B Miller, South Dakota; D Ridings, Ennessee; R Diamond, Texas; R Giles, Utah; P Brozicevic, Vermont; R Schaeffer, Virginia; T Jennings, Washington; F King, West Virginia; E Cautley, Wisconsin. P Remington, Bur of Public Health, Wisconsin Div of Health. Cardiovascular Health Studies Br, Div of Chronic Disease Control and Community Intervention, National Center for Chronic Disease Prevention and Health Promotion, CDC.

**Editorial Note:** The finding in this report that, in 1992, only 18% of adults reported having no known risk factors for CHD indicates that, despite improvements in the treatment and control of CHD-related conditions, a substantial percentage of adults continue to be at risk for CHD. This low prevalence underscores the need for primary prevention efforts that focus on achieving behavioral changes that prevent the occur-

TABLE 1. Percentage of adults who reported having no known major risk factors for coronary heart disease,\* by state — Behavioral Risk Factor Surveillance System, 1992

	Sample	% With no risk		_	Sample	% With no risk	
State	size	factors	(95% CI <sup>†</sup> )	State	size	factors	(95% CI)
Alabama	2115	24.5	$(\pm 2.0)$	Montana	1160	22.8	(±2.8)
Alaska	1463	26.4	(±3.6)	Nebraska	1527	21.1	(±2.4)
Arizona	1737	19.9	(±2.7)	Nevada	1561	22.8	(±2.5)
California	3831	24.8	(±1.6)	New			
Colorado	1753	28.2	(±2.4)	Hampshire	1408	23.8	(±2.7)
Connecticut	1630	21.0	(±2.2)	New Jersey	1363	19.6	(±2.4)
Delaware	1417	19.3	(±2.5)	New Mexico	1127	21.6	(±2.8)
District of				New York	2227	18.1	(±1.8)
Columbia	1405	19.4	(±2.6)	North Carolina	2012	17.5	(±1.9)
Florida	2613	20.4	(±1.7)	North Dakota	1731	19.9	(±2.2)
Georgia	1903	17.8	(±2.1)	Ohio	1232	16.7	(±2.3)
Hawaii	1853	21.5	(±2.3)	Oklahoma	1419	18.7	(±2.6)
Idaho	1697	25.1	(±2.4)	Oregon	3158	26.0	(±1.7)
Illinois	2095	19.9	(±2.0)	Pennsylvania	2309	18.7	(±1.8)
Indiana	2277	17.2	(±1.9)	Rhode Island	1733	24.5	(±2.3)
Iowa	1601	18.9	(±2.2)	South Carolina	1860	14.4	(±2.0)
Kansas	1338	23.6	(±2.6)	South Dakota	1667	9.4	(±1.6)
Kentucky	2039	15.2	(±1.9)	Tennessee	2582	16.9	(±1.6)
Louisiana	1560	15.9	(±2.2)	Texas	2361	21.1	(±1.9)
Maine	1205	20.7	(±2.6)	Utah	1721	28.9	(±2.4)
Maryland	2038	18.5	(±1.9)	Vermont	1819	24.7	(±2.3)
Massachusetts	1408	26.1	(±2.6)	Virginia	1683	24.1	(±2.3)
Michigan	2344	18.6	(±1.8)	Washington	2425	26.9	(±2.0)
Minnesota	3339	22.4	(±1.6)	West Virginia	2318	14.1	(±1.6)
Mississippi	1450	14.3	(±2.2)	Wisconsin	1469	20.6	(±2.5)
Missouri	1440	18.5	(±2.2)				

<sup>\*</sup>Risk factors: current cigarette smoking (smoked at least 100 cigarettes in their lifetime and now smoking), physical inactivity (no or irregular leisure-time physical activity), overweight (body mass index ≥27.3 for women and ≥27.8 for men), high blood pressure (told more than once by a health professional he/she has high blood pressure or is currently taking artihypertensive medications), high blood cholesterol (ever told by a health professional he/she has high blood cholesterol), and diabetes (ever told by a doctor he/she hasdiabetes).

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

Coronary Heart Disease — Continued

TABLE 2. Percentage of adults who reported having no known major risk factors for coronary heart disease,\* by age group, education level, and sex — Behavioral Risk Factor Surveillance System, 1992

		Men			Women	
Characteristic	Sample size	% With no risk factor	(95% CI <sup>†</sup> )	Sample size	% With no risk factor	(95% CI)
Age group (yrs)§						
18–34	12,202	24.5	(±1.3)	14,647	22.7	(±1.1)
35-49	11,652	12.6	(±0.9)	13,955	17.9	(±1.0)
50-64	6,598	9.4	(±1.0)	8,515	11.6	(±0.9)
≥65	5,601	13.4	(±1.2)	10,488	9.2	(±0.8)
Education (yrs)¶						
<12	4,961	10.4	(±1.5)	7,145	8.5	(±1.2)
12	11,577	14.6	(±0.9)	16,941	15.9	(±0.8)
>12	19,515	25.4	(±0.9)	23,519	26.9	(±0.8)

<sup>\*</sup>Risk factors: current cigarette smoking (smoked at least 100 cigarettes in their lifetime and now smoking), physical inactivity (no or irregular leisure-time physical activity), overweight (body mass index ≥27.3 for women and ≥27.8 for men), high blood pressure (told more than once by a health professional he/she has high blood pressure or is currently taking antihypertensive medications), high blood cholesterol (ever told by a health professional he/she has high blood cholesterol), and diabetes (ever told by a doctor he/she has diabetes).

†Confidence interval.

rence of risk factors. Several of the year 2000 national health objectives target the primary prevention of specific risk factors for CHD, including overweight (objective 15.10), physical inactivity (objective 15.11), high blood cholesterol (objective 15.7), and cigarette smoking (objective 15.12) (3). Achievement of these objectives should substantially increase the number of U.S. adults who have no known major risk factors for CHD and should further reduce CHD-associated mortality.

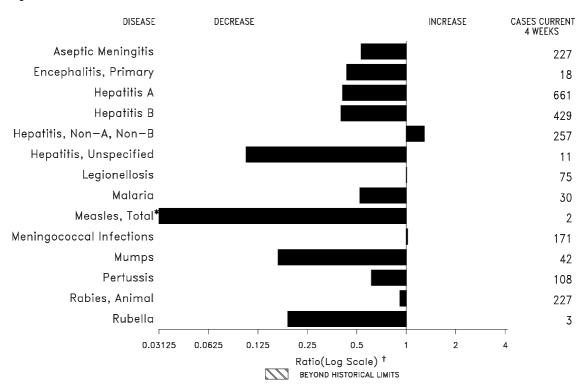
The prevalences of two risk factors—cigarette smoking and high blood cholesterol—have decreased substantially. In 1965, approximately 40% of U.S. adults smoked cigarettes; in comparison, by 1991, 26% smoked cigarettes (4). In addition, from the second National Health and Nutrition Examination Survey (NHANES II) (1976–1980) to NHANES III (1988–1991), the proportion of adults with high blood cholesterol levels (≥240 mg/dL) decreased from 26% to 20% (5). For other risk factors, however, prevalences have remained constant or increased. For example, when compared with 1987, the proportion of adults who engaged in no leisure-time physical activity (24%) in 1991 was unchanged, and the proportion who engaged in moderate physical activity five or more times per week increased only slightly (22% in 1987 and 24% in 1991) (6). From 1987 through 1991, the proportion of U.S. adults who were overweight increased from 26% to 28%, respectively (6). Finally, despite substantial improvements in the awareness, treatment, and control of hypertension, hypertension continues to affect an estimated 50 million persons in the United States (7).

Although the findings in this report assist in targeting efforts to reduce specific risk factors for CHD, these findings are subject to at least two limitations. First, because BRFSS estimates are based on self-reports, the prevalence of most risk factors,

<sup>§</sup> Age comparisons were standardized for education and race by using 1980 U.S. Bureau of the Census data.

<sup>¶</sup>Number of years completed; education comparisons were standardized for age and race by using 1980 U.S. Bureau of the Census data.

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending January 29, 1994, with historical data — United States



<sup>\*</sup>The large apparent decrease in reported cases of measles (total) reflects dramatic fluctuations in the historical baseline. (Ratio (log scale) for week four is 0.00651).

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending January 29, 1994 (4th Week)

	Cum. 1994		Cum. 1994
AIDS* Anthrax Botulism: Foodborne Infant Other	- - 5 - 1	Measles: imported indigenous Plague Poliomyelitis, Paralytic <sup>§</sup> Psittacosis	2 2 - - 2
Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea Haemophilus influenzae (invasive disease)† Hansen Disease Leptospirosis	2 - - 6 23,326 60 9	Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year Tetanus Toxic shock syndrome Trichinosis Tuberculosis Tularemia Typhoid fever	1,211 1 1 11 - 989 - 15

<sup>&</sup>lt;sup>†</sup>Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where thehatched area begins is based on the mean and two standard deviations of these 4-week totals.

<sup>\*</sup>Updated monthly: last update December 31, 1993.

†Of 55 cases of known age, 17 (31%) were reported among children less than 5 years of age.

§Two (2) cases of suspected poliomyelitis have been reported in 1994; 4 of the 5 suspected cases with onset in 1992 were confirmed; the confirmed cases were vaccine associated

TABLE II. Cases of selected notifiable diseases, United States, weeks ending January 29, 1994, and January 30, 1993 (4th Week)

	1				ariu Ja	<b></b>						
	AIDS*	Aseptic Menin-	Enceph	Post-in-	Gono	rrhea			/iral), by	type Unspeci-	Legionel-	Lyme
Reporting Area		gitis	Primary	fectious			Α	В	NA,NB	fied	losis	Disease
	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1993	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994
UNITED STATES	-	283	26	6	23,326	29,175	919	479	277	19	88	101
NEW ENGLAND	-	20	3	-	610	543	25	24	9	5	8	19
Maine N.H.	-	2	1 -	-	3	6 4	2	-	1	-	-	-
Vt. Mass.	-	2 7	- 1	-	1 230	5 305	- 15	22	3	- 5	- 7	- 14
R.I.	-	9	1	-	29	41	8	2	5 5	- -	1	5
Conn.	-	-	-	-	347	182	-	-	-	-	-	-
MID. ATLANTIC Upstate N.Y.	-	18 4	1	-	856	3,407 275	20 6	16 6	8 3	1	3	35 11
N.Y. City	-	-	-	-	-	1,541	-	-	-	-	-	-
N.J. Pa.	-	14	1	-	- 856	616 975	5 9	10	- 5	1	3	4 20
E.N. CENTRAL	-	59	10	4	4,897	5,079	78	66	25	-	36	2
Ohio	-	15	2	-	1,783	1,227	34	15	-	-	20	2
Ind. III.	-	23 3	2	-	665 969	540 1,617	27	20	-	-	7 1	-
Mich.	-	18	6	4	1,389	1,148	14	29	25	-	7	-
Wis.	-	-	-	-	91	547	3 17	2	-	-	1	-
W.N. CENTRAL Minn.	-	23	-	-	1,301 376	1,653 221	- 17	12	1 -	-	14	- -
lowa	-	13	-	-	65	148	2	2	- 1	-	4	-
Mo. N. Dak.	-	2	-	-	608	748 9	4	8	-	-	3	-
S. Dak. Nebr.	-	-	-	-	-	16 70	8	-	-	-	6	-
Kans.	-	8	-	-	252	441	3	2	-	-	1	1
S. ATLANTIC	-	58	2	-	7,853	8,269	69	137	67	1	7	36
Del. Md.	-	- 7	2	-	100 1,393	114 1,241	1 19	5 15	16 10	-	- 1	20 2
D.C.	-	2	-	-	681	468	4	3	-		-	-
Va. W. Va.	-	3	-	-	1,319 63	487 55	1	5 3	1 1	1 -	- 1	1
N.C.	-	14	-	-	2,019	1,848	5	37	10	-	1	7
S.C. Ga.	-	3 3	-	-	736 -	970 1,098	4 14	1 49	- 19	-	1	6
Fla.	-	26	-	-	1,542	1,988	21	19	10	-	3	-
E.S. CENTRAL	-	26	1	1	3,363	2,829	25	61	88 2	-	7	1
Ky. Tenn.	-	14 1	1 -	1 -	310 732	378 538	13 4	2 51	2 86	-	5	1 -
Ala. Miss.	-	9 2	-	-	1,507 814	1,171 742	6 2	8	-	-	2	-
W.S. CENTRAL	-	5	-	-	2,053	3,785	36	33	- 19	-	1	-
Ark.	-	2	-	-	719	671	2	-	-	-	-	-
La. Okla.	-	1	-	-	1,334	1,098 253	1 14	3 22	- 19	-	- 1	-
Tex.	-	2	-	-	-	1,763	19	8	-	-	-	-
MOUNTAIN	-	8	1	-	507	838	196	28	28	2	6	4
Mont. Idaho	-	-	-	-	20 4	10 7	22	2	12	-	2	-
Wyo.	-	-	-	-	8	4	2	2	5	-	-	-
Colo. N. Mex.	-	5 1	-	-	202 87	345 67	8 75	13	3 3	1 1	1 1	4
Ariz. Utah	-	2	-	-	43 29	213 5	72 13	3 2	3	-	-	-
Nev.	-	-	1	-	114	187	4	3	2	-	2	-
PACIFIC	-	66	8	1	1,886	2,772	453	102	32	10	6	3
Wash. Oreg.	-	-	-	-	242 99	330 108	42 17	7 2	6	-	2	-
Calif.	-	54	7	-	1,439	2,253	380	87	23	10	4	3
Alaska Hawaii	-	1 11	1	- 1	45 61	45 36	8 6	- 6	3	-	-	-
Guam	-	-	-	-	-	8	-	-	-	-	_	-
P.R.	-	-	-	-	37	37	-	1	-	-	-	-
V.I. Amer. Samoa	-	-	-	-	3 4	10 3	2	1	-	-	-	-
C.N.M.I.	-	-	-	-	4	6	-	-	-	-	-	-
NI. Niet westifielele												

N: Not notifiable

U: Unavailable

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

<sup>\*</sup>Updated monthly; last update December 31, 1993.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending January 29, 1994, and January 30, 1993 (4th Week)

			Mossle	s (Rube	oola)	1						-			
	Malaria	India	enous		orted*	Total	Menin- gococcal	Mu	mps	F	Pertussi	s		Rubella	1
Reporting Area							Infections				C	0		C	C
	Cum. 1994	1994	Cum. 1994	1994	Cum. 1994	Cum. 1993	Cum. 1994	1994	Cum. 1994	1994	Cum. 1994	Cum. 1993	1994	Cum. 1994	Cum. 1993
UNITED STATES		-	2	-	2	14	214	16	56	36	173	221	1	3	11
NEW ENGLAND Maine	) 4 1	-	-	-	-	7	16 3	-	1	2	8	83 3	1	1	-
N.H.	-	-	-	-	-	-	1	-	1	-	2	37	-	-	-
Vt. Mass.	-	-	-	-	-	1 3	8	-	-	2	4	10 32	1	1	-
R.I.	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Conn.	-	-	-	-	-	3	4	-	-	- 9	2	-	-	-	-
MID. ATLANTIC Upstate N.Y.	1 1	-	-	-	-	2	8 2	2	6	-	50 5	33 6	-	1 1	2
N.Y. City N.J.	-	U	-	U	-	2	-	U	-	U	-	- 17	U	-	2
Pa.	-	-	-	-	-	-	6	2	6	9	45	10	-	-	-
E.N. CENTRAL	3	-	-	-	-	-	44	4	12	3	27	46	-	-	1
Ohio Ind.	1 1	-	-	-	-	-	9 10	- 1	- 1	2	18 2	7 2	-	-	-
III.	-	-	-	-	-	-	14	-	4	-	-	9	-	-	-
Mich. Wis.	1	-	-	-	-	-	7 4	3	7	1	7	5 23	-	-	- 1
W.N. CENTRAL	1	_	-	_	-	-	7	1	1	1	8	9	_	_	1
Minn.	- 1	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-
Iowa Mo.	-	-	-	-	-	-	3	-	1	1	3	5	-	-	1
N. Dak. S. Dak.	-	U	-	U	-	-	- 1	U	-	U	-	1 1	U	-	-
Nebr.	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-
Kans.	-	-	-	-	-	-	2	-	-	-	5	-	-	-	-
S. ATLANTIC Del.	10	-	-	-	-	3	39 -	5	16	12	34	2	-	-	1 1
Md.	3	-	-	-	-	1	4	3	3	7	12	2	-	-	-
D.C. Va.	1	-	-	-	-	1	1 1	-	-	1	1	-	-	-	-
W. Va. N.C.	- 1	-	-	-	-	-	4 6	2	10	2	1 14	-	-	-	-
S.C.	1	-	-	-	-	-	-	-	10	1	5	-	-	-	-
Ga. Fla.	1 3	-	-	-	-	- 1	9 14	-	2	- 1	- 1	-	-	-	-
E.S. CENTRAL	-	_	_	_	_		31	1	1	1	3	5	_	_	_
Ky.	-	-	-	-	-	-	7	-	-	-	-	1	-	-	-
Ténn. Ala.	-	-	-	-	-	-	7 11	-	-	1	1 2	1	-	-	-
Miss.	-	-	-	-	-	-	6	1	1	-	-	-	-	-	-
W.S. CENTRAL Ark.	-	-	-	-	1	-	16 1	1	8	-	4	3	-	-	-
La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Okla. Tex.	-	-	-	-	- 1	-	5 10	- 1	3 5	-	4	3	-	-	-
MOUNTAIN	1	_	1	_	-	_	13	2	2	3	4	6	_	_	2
Mont.	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
ldaho Wyo.	-	-	1	-	-	-	1	1 -	1	-	-	1	-	-	-
Colo. N. Mex.	-	-	-	-	-	-	1	- NI	- N	-	- 1	-	-	-	-
N. Mex. Ariz.	-	-	-	-	-	-	2 5	N -	N -	3	3	4 1	-	-	-
Utah Nev.	1	-	-	-	-	-	2	- 1	- 1	-	-	-	-	-	2
PACIFIC	15	-	1	-	1	2	40		9	5	35	34	_	1	4
Wash.	-	-	-	-	-	-	4	-	1	1	6	1	-	-	-
Oreg. Calif.	- 11	-	1	-	1	1	3 32	N -	N 6	1	1 24	30	-	1	1 1
Alaska	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1
Hawaii Guam	4	- U	-	- U	-	1	1	- U	-	3 U	4	3	- U	-	1
P.R.	-	-	-	-	-	30	-	-	-	-	-	-	-	-	-
V.I. Amer. Samoa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C.N.M.I.	1	1	10	-	-	-	-	-	-	-	-	-	-	-	-

<sup>\*</sup>For measles only, imported cases include both out-of-state and international importations. N: Not notifiable U: Unavailable † International § Out-of-state

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending January 29, 1994, and January 30, 1993 (4th Week)

	Janu	iary 29, 19	994, and Ja	anuary	30, 19	93 (4th	i week)		
Reporting Area		hilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum. 1994	Cum. 1993	Cum. 1994	Cum. 1994	Cum. 1993	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994
UNITED STATES	1,211	2,118	11	989	960	-	15	6	254
NEW ENGLAND	18	49	-	13	13	-	2	-	89
Maine N.H.	-	4	-	-	2	-	-	-	9
Vt. Mass.	4	- 29	-	3	- 1	-	2	-	2 42
R.I.	1	1	-	1	-	-	-	-	-
Conn.	13 71	15 190	2	9	10 138	-	-	-	36
MID. ATLANTIC Upstate N.Y.	-	9	2	43	18	-	-	-	38
N.Y. City N.J.	56 -	135 39	-	34	85 10	-	-	-	24
Pa.	15	7	-	9	25	-	-	-	14
E.N. CENTRAL Ohio	134 49	318	3 1	67 13	90 14	-	2	-	2
Ind.	16	87 17	-	4	5	-	1	-	-
III. Mich.	40 24	114 58	2	46	67	-	- 1	-	-
Wis.	5	42	-	4	4	-	-	-	2
W.N. CENTRAL	70	136	4	22	17	-	-	-	9
Minn. Iowa	4 3	9 12	4	6 3	2	-	-	-	6
Mo. N. Dak.	63	114	-	9	8	-	-	-	-
S. Dak.	-	-	-	2	2	-	-	-	-
Nebr. Kans.	-	1 -	-	2	2	-	-	-	3
S. ATLANTIC	400	590	-	127	128	-	4	4	89
Del. Md.	- 11	11 32	-	22	1 20	-	2	-	1 37
D.C.	13	12	-	11	8	-	-	-	-
Va. W. Va.	48	44 1	-	3	4	-	-	-	19 -
N.C. S.C.	160 38	177 95	-	- 18	33 22	-	-	4	7 6
Ga.	69	106	-	73	40	-	-	-	19
Fla. E.S. CENTRAL	61 307	112 274	-	38	38	-	2	- 1	8
Ky.	15	30	-	5	12	-	-	-	-
Tenn. Ala.	63 62	61 83	-	- 31	- 17	-	-	-	8
Miss.	167	100	-	2	9	-	-	1	-
W.S. CENTRAL Ark.	196 34	434 54	-	21 21	5 4	-	-	1	5 1
La.	162	159	-	-	-	-	-	-	-
Okla. Tex.	-	47 174	- -	-	1	-	-	1 -	4
MOUNTAIN	14	8	-	30	7	-	2	-	9
Mont. Idaho	-	-	-	2	-	-	-	-	-
Wyo.	-	-	-	1	-	-		-	2
Colo. N. Mex.	8 -	3 1	-	4	-	-	1 -	-	-
Ariz. Utah	3	3	-	17	7	-	- 1	-	7
Nev.	- -	1	-	6	-	-	-	-	-
PACIFIC	1	119	2	628	524	-	5	-	5
Wash. Oreg.	1 -	5 7	-	13 8	12 3	-	-	-	-
Calif. Alaska	-	106	2	596	491 1	<u>-</u>	4	<u>-</u>	1 4
Hawaii	-	1	-	11	17	-	1	-	-
Guam	-	-	-	-	1	-	-	-	-
P.R. V.I.	25 1	46 5	-	-	-	-	-	-	4
Amer. Samoa C.N.M.I.	-	-	-	- 10	-	<u>-</u>	1	<u>-</u>	-
U. Upovoiloblo	-	-	-	10			-	-	

U: Unavailable

TABLE III. Deaths in 121 U.S. cities,\* week ending January 29, 1994 (4th Week)

	_	All Cau	ses R	/ Age (\		- <i>-</i>		774 (4tii Week	· 	All Cau	ses Ru	/ Age (Y	ears)		
Reporting Area	All Ages	≥65	45-64		1-24	<1	P&I <sup>†</sup> Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I <sup>†</sup> Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. 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. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y.	39 54 30 26 66 3,001 48 39 100 48 31 84 59 1,515 98 31 295 129 14 170 35 77 115 437	431 98 366 15 24 43 10 14 26 31 3 44 40 30 70 70 38 969 36 20 203 101 101 134 27 69 88 32 28 28 28	118 33 96 28 32 44 816 95 13 510 65 89 265 27 56 21 24 87 13 10 10 10 10 10 10 10 10 10 10	54 20 4 1 1 7 1 2 1 3 3 3 1 3 3 8 2 16 2 6 2 15 4 1 5 7 7 5 8 8 2 16 16 16 16 16 16 16 16 16 16 16 16 16	16 5 1 - 4 - 1 1 - 4 - - 1 2 3 2 2 2 2 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 2 2	61 27 4 22 52 - 4 5 - 4 - 6 163 5 5 2 54 11 16 14 4 4 19 - 1 2	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, D.C. Wilmington, Del. E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	227 296 82 178 124 64 99 44 57 202 160 26 1,073 18 191 233 124 76 190 1,747 99 20	1,015 144 180 52 126 78 41 64 26 89 21 767 120 50 10 138 168 84 1,102 66 12 U 162 59 280 767 31 200 45 78	288 42 47 23 30 23 13 20 12 6 30 39 3 192 30 15 40 25 12 29 340 17 48 13 19 117 148 47 10 118 119 119 119 119 119 119 119 119 119	176 258 44 17 164 9 3 2 22 24 2 64 11 6 2 7 11 8 8 11 17 9 9 3 0 0 17 17 19 19 19 19 19 19 19 19 19 19 19 19 19	48 45 13 45 33 11 33 6 · 26 52 · 38 42 22 86 5 · U 4 · 84 42 51 1	32 12 6 1 1 2 3 3 3 2 - 2 4 4 4 4 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1	113 10 31 11 15 12 8 6 3 24 2 101 8 5 4 25 31 7 4 17 168 10 11 17 15 17 168 17 17 17 17 17 17 17 17 17 17 17 17 17
Yonkers, N.Y. E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Cleveland, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Gary, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	377 44 137 64 59 28 96 U 1,007 105 27 34 101 47	1,747 47 29 2544 722 147 166 111 170 56 59 42 267 35 94 46 46 46 19 75 U 765 22 20 75 38 193 80 80 80 81 85 86 86 86 86 86 86 86 86 86 86 86 86 86	481 13 8 113 113 40 36 29 55 12 11 3 58 7 32 11 6 6 7 7 13 6 21 11 13 13 13 13 13 14 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	267 3 11 125 3 16 17 5 29 5 4 4 3 3 33 1 4 7 3 1 3 1 0 6 2 4 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	122 1 80 1 3 9 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	888 3 3 2 6 6 5 3 3 5 5 5 2 2 1 1 4 10 0 1 1 1 1 U 2 1 2 2 2 2 1 1 5 5 2 3 3 1 3 3	243 444 138 25 13 21 11 6 16 33 5 11 11 11 2 9 U 98 4 3 2 7 2 3 3 3 1 1 1 1 6 8 8 8 8 8 8 9 9 9 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1	MOUNTAIN Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utar Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Diego, Calif. San Francisco, Cali San Jose, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	985 115 0. 63 114 162 2214 19 1 105 161 2,399 19 138 88 97 623 47 220 194	640 74 46 76 88 19 137 74 113 1,656 105 25 67 61 428 33 152 132 93 120 164 27 112 80	201 22 10 23 46 10 40 4 16 30 384 3 12 3 15 103 8 35 25 32 33 31 9 24 2,650	88 9 4 11 21 3 17 14 230 12 59 11 14 19 17 43 17 3 18 2 8	23 4 1 1 4 7 4 2 68 3 1 2 20 2 10 5 5 5 5 5 2 3 4 4 7 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8	32 6 2 3 2 - 13 - 4 2 55 - 6 - 2 7 7 7 3 3 2 5 5 5 3 2 5 3 2 5 3 2 5 5 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	71 5 7 6 10 3 22 1 12 5 243 4 15 6 9 13 47 9 15 27 10 33 49 6 11

<sup>\*</sup>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.

<sup>&</sup>lt;sup>†</sup>Pneumonia and influenza.

Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Total includes unknown ages.

U: Unavailable.

### Coronary Heart Disease — Continued

especially overweight and current smoking status, are likely to be underreported. Second, risk factors for which awareness is low are underreported; for example, only an estimated 29% of adults know their cholesterol level (8). Therefore, this report most likely overestimates the proportion of adults without CHD risk factors.

To assist in reducing the prevalence of CHD risk factors, health programs and organizations have intensified advocacy of primary prevention strategies. For example, the National High Blood Pressure Education Program has developed policy recommendations for implementing primary prevention interventions for hypertension (9), and the National Cholesterol Education Program has made dietary recommendations to reduce cholesterol levels (10). The need for the primary prevention of CHD risk factors also is important because education or treatment of persons with established risk factors may not reduce their risk to the level of persons who never have the risk factor; for example, persons who effectively control their hypertension remain at higher risk for CHD than do persons who never develop hypertension (9).

#### References

- 1. American Heart Association. 1993 Heart and stroke facts statistics. Dallas: American Heart Association, 1992.
- 2. Shah BV. SESUDAAN: standard errors program for computing of standardized rates from sample survey data. Research Triangle Park, North Carolina: Research Triangle Institute, 1981.
- 3. Public Health Service. Healthy people 2000: national health promotion and disease prevention objectives—full report, with commentary. Washington, DC: US Department of Health and Human Services, Public Health Service, 1991; DHHS publication no. (PHS)91-50212.
- 4. CDC. Cigarette smoking among adults—United States, 1991. MMWR1993;42:230–3.
- 5. Sempos CT, Cleeman JI, Carroll MD, et al. Prevalence of high blood cholesterol among US adults: an update based on guidelines from the second report of the National Cholesterol Education Program Adult Treatment Panel. JAMA 1993;269:3009–14.
- CDC. Health, United States, 1992, and healthy people 2000 review. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, 1993; DHHS publication no. (PHS)93-1232.
- 7. Joint National Committee on Detection, Evaluation, and Treatment of High Blood Pressure. The fifth report of the Joint National Committee onDetection, Evaluation, and Treatment of High Blood Pressure (JNC V). Arch Intern Med 1993;153:154–83.
- 8. CDC. Cholesterol screening and awareness—Behavioral Risk Factor Surveillance System, 1990. MMWR 1992;41:669,675–8.
- 9. National High Blood Pressure Education Program Working Group. National High Blood Pressure Education Program Working Group report on primary prevention of hypertension. Arch Intern Med 1993;153:186–208.
- Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults. Summary of the second report of the National Cholesterol Education Program (NCEP) Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel II). JAMA 1993;269:3015–23.

## International Notes

## Update: Dracunculiasis Eradication — Mali and Niger, 1993

Mali and Niger, countries in West Africa, ranked sixth and eighth in the number of reported cases of dracunculiasis (i.e., Guinea worm disease) in 1992 (1). In March 1993, Global 2000, Inc., and the World Health Organization (WHO) Collaborating Center for Research, Training, and Eradication of Dracunculiasis at CDC began

Dracunculiasis Eradication — Continued

providing direct assistance for the eradication of dracunculiasis in both countries by assigning a resident public health advisor to each country. This report summarizes surveillance data for the two countries during 1991–1993 and describes their progress toward eradication of dracunculiasis.

#### Mali

In 1990, Mali (population: 8.5 million) reported 884 cases of dracunculiasis to WHO (1). During that year, health officials in Mali initiated a pilot project to control dracunculiasis in 68 villages with endemic disease within Douentza District of Mopti Region. This effort employed trained village-based health workers to conduct health education, undertake active surveillance, and distribute nylon cloth to families for filtering drinking water.

From December 1991 through March 1992, national village-by-village searches for cases detected 16,060 cases of dracunculiasis in 1264 villages in five of seven regions of the country (Table 1). Approximately 95% of cases were enumerated in two regions (Mopti and Kayes). By December 1993, Mali's Guinea Worm Eradication Program (GWEP) had trained one village-based health worker in each of 1100 (87%) villages with endemic dracunculiasis and had begun monthly reporting of cases from 433 (34%) such villages. In addition, health education had been initiated in 68% of villages with endemic disease in Mali and use of cloth filters in 34%; improved water supplies already existed or were scheduled to be available by 1994 in 60%. A provisional total of 5779 cases was reported for 1993.

## Niger

In 1989 (the most recent year for which passive data were available), Niger (population: 8 million) reported 288 cases of dracunculiasis to WHO. In 1991, the Ministry of Health initiated a pilot project to control dracunculiasis in Boubon, Niger (population: approximately 4500), a village in which 2700 cases had been reported that year. Elements of this project included trained village-based health workers, health education, improved water supplies, and use of nylon filters. By 1993, the incidence of dracunculiasis in Boubon had declined to 108 cases.

From October through November 1991, national village-by-village searches detected 32,831 cases of dracunculiasis in 1690 villages. Nearly two thirds of persons

TABLE 1. Numbers of cases of dracunculiasis and villages with endemic disease detected during national village-by-village searches for cases — Mali and Niger, 1993

	Mali			Niger	
Region	No. affected villages	No. cases	Department	No. affected villages	No. cases
Mopti Kayes Segou Koulikoro Sikasso Gao Timbuktu	720 379 87 44 34 NA* NA	9,154 6,504 277 89 36 NA NA	Zinder Tahoua Tillaberi Maradi Dosso Diffa Agadez	808 225 348 224 83 2	21,057 4,696 4,442 1,452 1,182 2 <sup>†</sup> 0
Total	1,264	16,060	Total	1,690	32,831

<sup>\*</sup>Not available; these regions have not been searched yet.

<sup>†</sup>Imported dracunculiasis.

Dracunculiasis Eradication — Continued

with dracunculiasis (21,057) resided in Zinder, one of the country's seven departments; of these, 85% resided in one district (Mirriah).

By December 1993, Niger's GWEP had initiated at least one intervention in 928 (55%) villages with endemic dracunculiasis and had trained health workers for dracunculiasis eradication activities at national, regional, and district levels and in 298 (18%) villages with endemic disease. In addition, health education had been initiated in 49% of villages with endemic disease in Niger and use of cloth filters in 31%; improved water supplies already existed or were scheduled to be available by 1994 in 63%. Completion of training of village-based health workers for all villages in Niger with endemic disease is projected in early 1994. Niger has not yet begun monthly reporting of cases but has recorded a provisional total of 16,231 cases for 1993.

Reported by: AT Toure, President, National Intersectorial Committee for Dracunculiasis Eradication; I Degoga, MD, National Program Coordinator, Guinea Worm Eradication Program, Ministry of Public Health, Mali. S Moussa, National Program Coordinator, Guinea Worm Eradication Program, Ministry of Public Health, Niger. Global 2000, Inc, The Carter Center, Atlanta. World Health Organization Collaborating Center for Research, Training, and Eradication of Dracunculiasis, Div of Parasitic Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: Mali and Niger are part of the core area of West Africa where dracunculiasis is endemic. Although Mali and Niger joined the campaign to eradicate dracunculiasis when fewer than 3 years remained until the target date for eradication (December 1995), both countries were successful in rapidly establishing GWEPs. However, implementation of the interventions described in this report (i.e., health education, cloth filters, and improved supplies of safe drinking water) will probably be insufficient alone to eradicate dracunculiasis before December 1995. To complete eradication of dracunculiasis, in 1994 health officials in Mali and Niger are planning to implement more stringent measures for case containment and begin selective use of temephos (Abate®)\* to kill the copepod intermediate host of the parasite in unsafe drinking water sources of selected villages (2).

#### References

- 1. World Health Organization. Dracunculiasis: global surveillance summary, 1992. Wkly Epidemiol Rec 1993;68:125–31.
- 2. Hopkins DR, Ruiz-Tiben E. Strategies for dracunculiasis eradication. Bull World Health Organ 1991;69:533–40.

## **Current Trends**

## State Cancer Registries: Status of Authorizing Legislation and Enabling Regulations — United States, October 1993

Population-based cancer registries have identified cancer incidence rates indicating that the burden of cancer in the United States is substantial and varies widely by geographic location and ethnicity. However, for most existing state cancer registries, resources are inadequate for insuring minimum standards for quality and for completeness of case information. In October 1992, Congress enacted the Cancer

<sup>\*</sup>Use of trade names and commercial sources is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

TABLE 1. Status of authorizing legislation and enabling regulations for state cancer registration — United States, October 1, 1993

State	Authorizing law*	Facility reporting	Physician reporting	Record access	Standard format	Case confidentiality	Research access	Research conduct	Liability protection
Alabama	no	no	no	no	no	no	no	no	no
Alaska	no	yes	no	no	yes	yes	no	no	no
Arizona	yes	yes	yes	yes	yes	yes	no	no	no
Arkansas	yes	no	no	no	no	yes	yes	yes	no
California	yes	yes	yes	yes	yes	yes	yes	yes	yes
Colorado	yes	yes	no	yes	yes	yes	yes	yes	no
Connecticut	no	yes	no	no	yes	yes	yes	yes	no
Delaware	yes	yes	no	yes	yes	yes	no	no	yes
Florida	yes	yes	no	no	yes	yes	yes	yes	yes
Georgia	no	yes	no	no	yes	yes	yes	yes	yes
Hawaii	yes	yes	no	no	yes	yes	yes	no	yes
Idaho	no	yes	yes	no	yes	yes	yes	yes	no
Illinois	yes	yes	no	yes	yes	yes	yes	yes	yes
Indiana	yes	yes	yes	yes	yes	yes	yes	yes	yes
lowa	no	no	no	no	no	yes	yes	yes	yes
Kansas	no	yes	no	no	yes	yes	no	no	no
Kentucky	yes	yes	no	yes	yes	yes	yes	yes	yes
Louisiana	yes	yes	no	yes	yes	yes	no	yes	yes
Maine	yes	yes	no	yes	yes	yes	no	yes	yes
Maryland	yes	yes	no	yes	yes	yes	yes	yes	no
Massachusetts	yes	yes	no	yes	yes	yes	yes	yes	yes
Michigan	yes	yes	no	yes	yes	yes	yes	yes	yes
Minnesota	yes	yes	yes	yes	yes	yes	yes	yes	yes
Mississippi	yes	no	no	no	no	yes	yes	yes	yes
Missouri	yes	yes	no	no	yes	yes	yes	yes	yes
Montana	yes	yes	no	no	yes	yes	no	no	no
Nebraska	yes	yes	no	yes	yes	yes	yes	yes	yes
Nevada	yes	yes	no	yes	yes	yes	yes	yes	yes
New Hampshire	yes	yes	yes	yes	yes	yes	yes	yes	no
New Jersey	yes	yes	yes	yes	yes	yes	yes	yes	yes
New Mexico	no	no	no	no	no	yes	no	no	yes
New York	yes	yes	yes	yes	yes	yes	yes	yes	yes
North Carolina	yes	no	yes	no	yes	yes	no	no	yes
North Dakota	no	no	no	no	no	no	no	no	no
Ohio	yes	yes	yes	yes	yes	yes	yes	yes	yes
Oklahoma	yes	no	no	no	yes	yes	yes	yes	no
Oregon	no	no	no	no	no	no	no	no	no
Pennsylvania	ves	yes	no	ves	yes	ves	ves	ves	no

State Cancer Registries — Continued

legislation/regulations	38	38	17	27	40	44	32	35	31
Total with									
Wyoming	yes	yes	yes	no	no	no	no	no	no
Wisconsin	yes	yes	yes	no	yes	yes	no	no	yes
West Virginia	yes	yes	yes	yes	yes	yes	no	yes	yes
Washington	yes								
/irginia	yes	yes	yes	yes	yes	yes	no	yes	no
Vermont	yes								
Jtah	no								
Texas	yes	yes	no	no	yes	yes	yes	yes	yes
Tennessee	yes	yes	no	yes	yes	yes	yes	yes	no
South Dakota	yes	no	no	no	yes	yes	yes	yes	yes
South Carolina	no	no	no	yes	no	no	no	no	yes
Rhode Island	yes								

<sup>\*</sup> States that have a regulation authorizing a state cancer registry are Alaska, Connecticut, Georgia, Idaho, Iowa, Kansas, and Utah.

State Cancer Registries — Continued

Registries Amendment Act\* that authorized CDC to establish a national program in support of cancer registries. The goal of this program is to enhance existing state cancer registries and to help establish statewide cancer registries so that all states have population-based cancer registries meeting minimum standards for completeness, timeliness, and quality. To ensure complete and timely reporting of newly diagnosed cases of cancer, the federal statute requires authorization of cancer registries under state-specific laws and promulgation of regulations that ensure case reporting and use of data for research. This report extends efforts by the National Cancer Institute (1) to assess existing state laws and regulations to determine how they compare to state-specific legislation required in the cancer registries act.

In August and September 1993, all 50 states provided CDC with copies of state laws, statutes, regulations, and rules related to cancer registries in effect as of October 1, 1993. State law was defined as legislation enacted by the state legislature. Regulations were defined as measures promulgated by agencies such as state health departments and, although enforceable as law, can be modified by administrative action. In addition to enacting an authorizing law, each state is required to promulgate eight categories of regulations regarding the collection and use of cancer data; these regulations are intended to 1) require reporting of newly diagnosed cancer cases by hospitals and other health-care facilities; 2) require reporting of cancer cases by physicians and other health-care practitioners; 3) guarantee access by the statewide cancer registry to all records of medical status of persons with cancer; 4) require the use of standardized reporting formats; 5) ensure confidentiality of cancer case data; 6) allow use of confidential case data by certain researchers; 7) authorize the conduct of studies using cancer registry data; and 8) ensure protection of persons complying with the law from liability.

On October 1, 1993, nine states had a law authorizing state cancer registries and had all essential regulations in place (Table 1). Twenty-nine states had laws authorizing state cancer registries but did not have all essential regulations (Table 1). Seven states had only regulations authorizing cancer registries. Four states had no law or regulation authorizing cancer registries and had none of the essential regulations. Of the other 46 states, 38 required reporting on cancer cases by health-care facilities, and 44 required protection of the confidentiality of case information.

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

**Editorial Note:** Comprehensive, timely, and accurate information regarding cancer incidence and stage at diagnosis is essential for monitoring cancer trends and identifying variations in incidence by factors such as age, race/ethnicity, and geographic region. Cancer incidence rates vary by ethnicity, but whether these variations reflect differences in factors such as socioeconomic status, access to medical care, prevalence of specific risks, or misclassification of ethnicity is not known. Registries provide a means for collecting such information and may assist in conducting population-based epidemiologic and biologic research, allocating of health resources, and evaluating cancer-control and cancer-prevention programs.

<sup>\*</sup>Copies of the Cancer Registries Amendment Act, Public Law 102-515, §(c)(2)(D), October 24, 1992, are available from CDC's Division of Cancer Prevention and Control, National Center for Chronic Disease Prevention and Health Promotion, 4770 Buford Highway, NE, Mailstop K-55, Atlanta, GA 30341-3724; telephone (404) 488-4682.

State Cancer Registries — Continued

At the state level, both authorizing legislation and enabling regulations are necessary to establish and maintain statewide, population-based cancer registries. The findings in this report indicate that legislation and regulations related to cancer registries vary widely among states. For states seeking federal funding, the cancer registries act can provide an incentive to enact needed legislation or regulations.

In fiscal year 1994, CDC will offer support to states, the District of Columbia, and Puerto Rico to enhance existing cancer registries and to plan and implement state-wide cancer registries in states and territories that do not have registries. This support is intended to ensure that state cancer registries are population-based and meet minimum standards of completeness, timeliness, and quality. In addition, CDC will assist states in the development of model state legislation. These efforts also should enable evaluation of progress toward cancer control and national health objectives for the year 2000 (2).

#### References

- 1. Fisher R, Haenlein M. Legislative authorizations for cancer registries. In: National Cancer Institute, National Institutes of Health. State Cancer Legislative Database Update. Bethesda, Maryland: US Department of Health and Human Services, Public Health Service, National Institutes of Health, National Cancer Institute, April 1991:8–15.
- 2. Public Health Service. Healthy people 2000: national health promotion and disease prevention objectives—full report, with commentary. Washington, DC: US Department of Health and Human Services, Public Health Service, 1991; DHHS publication no. (PHS)91-50212.

## Addendum: Vol. 43, No. 3

In the article, "Deaths Resulting from Firearm- and Motor-Vehicle–Related Injuries—United States, 1968–1991," the following clause should be added to the end of the fourth sentence of the first paragraph (page 37): "... (Figure 1); these findings are consistent with those from previous reports (1a,1b). Reference 1a is Wintemute G. Motor vehicles or firearms: which takes a heavier toll? [Letter]. JAMA 1993;269:2213; reference 1b is CDC. Firearm-related deaths—Louisiana and Texas, 1970–1990. MMWR 1992;41:213–5,221.

The Morbidity and Mortality Weekly Report (MMWR) Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available on a paid subscription basis from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone (202) 783-3238.

The 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 succeeding Friday. Inquiries about the *MMWR* Series, including material to be considered for publication, should be directed to: Editor, *MMWR* Series, Mailstop C-08, Centers for Disease Control and Prevention, 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 special 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
Walter R. Dowdle, Ph.D.

Acting Director, Epidemiology Program Office
Barbara R. Holloway, M.P.H.

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
Patricia A. McGee
Darlene D. Rumph-Person
Caran R. Wilbanks