



MORBIDITY AND MORTALITY WEEKLY REPORT

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Tuberculosis Morbidity — United States, 1995

During 1995, a total of 22,813 cases of tuberculosis (TB) (8.7 cases per 100,000 population) were reported to CDC from the 50 states, the District of Columbia (DC), and New York City—a 6.4% decrease from 1994 (24,361 cases [9.4 per 100,000]) (1); an additional 262 cases were reported from Puerto Rico. This represents the third consecutive year the number of reported TB cases has decreased (Table 1) (2), resulting in the lowest rate for reported TB cases since national surveillance began in 1953. This report summarizes TB surveillance data for 1995 and compares these data with selected data for 1986–1994, and indicates a decreased number of TB cases among U.S.-born persons and increased number among foreign-born persons.

During 1995, a total of 32 states and DC reported fewer TB cases than in 1994; in comparison, during 1994, a total of 26 states and DC reported fewer cases than in 1993, and during 1993, a total of 31 states reported fewer cases than in 1992 (Table 1). Nine states (California, Connecticut, Hawaii, Illinois, Michigan, Mississippi, New Jersey, New York, and North Carolina) reported fewer cases each year since 1992, a total of 18 states (36%) reported no change or more cases in 1995 compared with 1994, and two (Iowa and Kansas) reported more cases in each year since 1992 (Table 1). Compared with 1994, the number of reported TB cases in 1995 decreased in each sex and age group and all racial/ethnic groups except Asians/Pacific Islanders, for whom a 2.9% increase was reported (Table 2).

During 1995, TB cases reported among persons born outside the United States and its territories (i.e., foreign-born) accounted for 35.7% of total reported cases, compared with 31.3% in 1994 (Table 2). The number and proportion of persons reported with TB who were classified as foreign-born have increased 63.3% since 1986, the first year information on the country of origin was collected for each case (Figure 1). In 1995, the country of origin was known for 7592 (94.4%) cases reported in foreign-born persons; six countries (Haiti, India, Mexico, People's Republic of China, Philippines, and Vietnam) accounted for 63.6% of the cases. Of the 4804 foreign-born persons reported in 1995 whose records contained information about month and year of arrival in the United States, 1441 (30.0%) had TB diagnosed within 1 year and 2567 (53.4%) within 5 years after entering the United States. Compared with 1994, the number of cases reported in U.S.-born persons in 1995 decreased 10.8%, and the number of cases in foreign-born persons increased 5.4% (Table 2). During 1995, the number of cases in U.S.-born persons decreased in all age groups; the decrease was largest

TABLE 1. Number of reported tuberculosis cases and percentage change, by state and year — United States, 1992–1995

-		No.	cases			% Change	
State	1992	1993	1994	1995	1992–1993	1993–1994	1994–1995
Alabama	418	487	433	420	+16.5	-11.1	- 3.0
Alaska	57	57	93	81	0	+63.2	-12.9
Arizona	259	231	249	319	-10.8	+ 7.8	+28.1
Arkansas	257	209	264	271	-18.7	+26.3	+ 2.7
California	5,382	5,170	4,859	4,622	- 3.9	- 6.0	- 4.9
Colorado	104	104	94	95	0	- 9.6	+ 1.1
Connecticut	156	155	148	140	- 0.6	- 4.5	- 5.4
Delaware	55	66	57	56	+20.0	-13.6	- 1.8
District of	00	00	0,	00	120.0	10.0	1.0
Columbia	146	161	121	102	+10.3	-24.8	-15.7
Florida	1,707	1,655	1,762	1,557	- 3.0	+ 6.5	-11.6
Georgia	893	812	740	746	- 3.0 - 9.1	- 8.9	+ 0.8
Hawaii	273	251	247	193	- 8.1	- 0.5 - 1.6	-21.9
Idaho	26	11	13	193	- 6.1 -57.7	- 1.0 +18.2	-21.9 + 7.7
	1,270	1,237	1,117	1,024	-57.7 - 2.6	+ 10.2 - 9.7	+ 7.7 - 8.3
Illinois							
Indiana	247	248	211	199	+ 0.4	-14.9	- 5.7
lowa	49	59	66	72	+20.4	+11.8	+ 9.1
Kansas	56	80	84	89	+42.9	+ 5.0	+ 6.0
Kentucky	402	404	347	327	+ 0.5	-14.1	- 5.8
Louisiana	373	367	433	476	- 1.6	+18.0	+ 9.9
Maine	24	28	35	28	+16.7	+25.0	-20.0
Maryland	442	417	363	370	- 5.7	-13.0	+ 1.9
Massachusetts	428	370	329	330	-13.6	-11.1	+ 0.3
Michigan	495	480	462	424	- 3.0	- 3.8	- 8.2
Minnesota	165	144	140	156	-12.7	- 2.8	+11.4
Mississippi	281	279	278	271	- 0.7	- 0.4	- 2.5
Missouri	245	257	260	245	+ 4.9	+ 1.2	- 5.8
Montana	16	22	24	21	+37.5	+ 9.1	-12.5
Nebraska	28	23	22	24	-17.9	- 4.4	+ 9.1
Nevada	99	99	126	115	0	+27.3	- 8.7
New Hampshire	18	26	17	23	+44.4	-34.6	+35.3
New Jersey	984	912	855	848	- 7.3	- 6.3	- 0.8
New Mexico	88	74	81	84	-15.9	+ 9.5	+ 3.7
New York*	4,574	3,953	3,636	3,066	-13.6	- 8.0	-15.7
North Carolina	604	594	566	519	- 1.7	- 4.7	- 8.3
North Dakota	11	7	10	5	-36.4	+42.9	-50.0
Ohio	358	315	337	280	-12.0	+ 7.0	-16.9
Oklahoma	216	209	261	237	- 3.2	+24.9	- 9.2
Oregon	145	154	165	156	+ 6.2	+ 7.1	- 5.5
Pennsylvania	758	749	621	680	- 1.2	-17.1	+ 9.5
Rhode Island	54	64	56	50	+18.5	-12.5	-10.7
South Carolina	387	401	387	334	+ 3.6	- 3.5	-13.7
South Dakota	32	16	28	28	-50.0	+75.0	0
Tennessee	527	556	520	465	+ 5.5	- 6.5	-10.6
Texas	2,510	2,396	2,542	2,369	- 4.5	+ 6.1	- 6.8
Utah	78	46	55	48	-41.0	+19.6	-12.7
Vermont	7	7	10	4	0	+42.9	-60.0
Virginia	457	458	372	359	+ 0.2	-18.8	- 3.5
Washington	306	285	264	278	+ 0.2 - 6.9	- 18.8 - 7.4	- 3.5 + 5.3
West Virginia	92	265 75	204 80	71	- 6.9 -18.5	- 7.4 + 6.7	+ 5.3 -11.3
Wisconsin		100		117	- 18.5 - 5.7		
	106 8	7	109 12	5		+ 9.0	+ 7.3
Wyoming	ď	/		5	-12.5	+71.4	-58.3
Total	26,673	25,287	24,361	22,813	- 5.2	- 3.7	- 6.4

^{*}Includes New York City.

TABLE 2. Number of persons with reported cases of tuberculosis, by selected characteristics and year — United States, 1994–1995

	No. repor	ted cases	% Change,
Characteristic	1994	1995	1994–1995
Sex*			
Male	15,833	14,482	- 8.5
Female	8,517	8,301	- 4.9
Age group (yrs) [†]			
0–14	1,695	1,551	- 8.5
15–24	1,825	1,700	- 6.9
25–44	9,106	8,227	- 9.7
45–64	6,141	5,985	- 2.5
≥65	5,546	5,332	- 3.9
Race/Ethnicity§			
White, non-Hispanic	6,494	5,950	
Black, non-Hispanic	8,345	7,521	
Hispanic	5,074	4,808	- 5.2
Asian/Pacific Islander	3,821	3,932	+ 2.9
American Indian/	000	000	0.7
Alaskan Native	332	323	- 2.7
Country of origin¶			
United States	16,278	14,515	-10.8
Other	7,627	8,042	+ 5.4
Initial drug regimen**			
Isoniazid and rifampin	1,626	1,083	-33.4
Isoniazid, rifampin, and			
pyrazinamide	5,332	4,325	–18.9
Isoniazid, rifampin,			
pyrazinamide, and			
ethambutol or streptomycin	12,768	13,439	+ 5.3
Other	3,019	2,373	+ 5.3 -21.4
	•	•	
Total	24,361	22,813	- 6.4

^{*}Excludes persons for whom sex was unknown (11 in 1994 and 30 in 1995).

(17.0%) among persons aged 25–44 years. In comparison, the number of cases in foreign-born persons reported in 1995 increased in all age groups except for children aged <15 years (decreased 7.4%) and persons aged 15–24 years (decreased 5.1%).

Human immunodeficiency virus (HIV)-antibody test results were available in 1994 for 3317 (36.4%) of 9106 patients aged 25–44 years (nine states reported this information for ≥75% of records) and in 1995 for 2925 (35.6%) of 8227 such patients (eight states reported information for ≥75% of records). Information about the prescribed initial drug regimen for each TB case was available for 98.0% of cases reported in both 1994 and 1995. Compared with 1994, in 1995 there was a 5.3% increase in the proportion of cases for which the initial four-drug regimen was prescribed as recommended by the Advisory Council for the Elimination of Tuberculosis, the American Thoracic

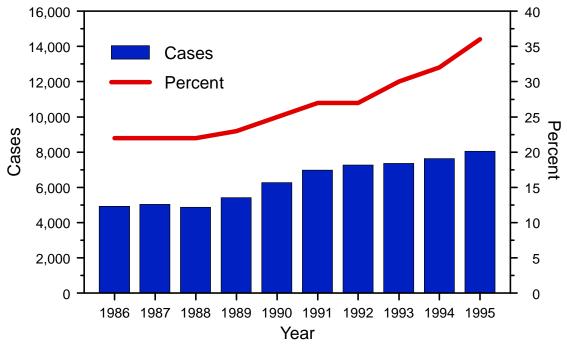
[†]Excludes persons with unknown or missing age (48 in 1994 and 18 in 1995).

[§]Excludes persons with unknown race/ethnicity (295 in 1994 and 279 in 1995).

[¶]Excludes persons with unknown country of origin (456 in 1994 and 256 in 1995).

^{**}Excludes persons with unknown or no drug regimen (1616 in 1994 and 1593 in 1995).

FIGURE 1. Number and percentage of tuberculosis cases in foreign-born persons — United States*, 1986–1995



^{*}Comprises the 50 states, the District of Columbia, and New York City.

Society, and CDC (isoniazid [INH], rifampin [RIF], pyrazinamide [PZA], and either ethambutol or streptomycin) (3,4) (Table 2).

The proportion of patients for whom drug-susceptibility results for *Mycobacterium tuberculosis* isolates were reported was larger in 1995 than in 1994 (14,052 [77.3%] of 18,168 patients and 14,509 [74.3%] of 19,537 patients, respectively). In 1995, a total of 37 states reported drug-susceptibility results for isolates from ≥75% of cases; of these, 806 (7.6%) of 10,621 isolates were resistant to at least INH, and 145 (1.4%) of 10,611 were resistant to at least INH and RIF. Compared with 1994, when only 23 states reported drug-susceptibility results for isolates from ≥75% of cases, the proportion of cases with isolates resistant to at least INH decreased from 8.5%, and resistance to at least INH and RIF decreased from 1.5%. The 37 states reporting drug-susceptibility results accounted for 71% of all culture-positive cases reported in the United States in 1995.

Reported by: Div of Tuberculosis Elimination, National Center for HIV, STD, and TB Prevention (proposed), CDC.

Editorial Note: The substantial decline in the number of TB cases reported annually in the United States during 1992–1995 (14.5%) reflects at least six factors: 1) improved laboratory methods to allow prompt identification of *M. tuberculosis*; 2) broader use of drug-susceptibility testing; 3) expanded use of preventive therapy in high-risk groups; 4) decreased transmission of *M. tuberculosis* in congregative settings (e.g., hospitals and correctional facilities) by implementing infection-control guidelines (5,6); 5) improved follow-up of persons with TB initially reported to the health department, leading to subsequent removal from the surveillance database of cases for

which a disease other than TB was diagnosed; and 6) increased federal resources for state and local TB-control efforts. Beginning in 1992, federal resources for assisting state and local TB-control efforts were increased (1,7). Some of the states with the largest decreases (e.g., New York and California) had high rates of HIV infection and acquired immunodeficiency syndrome (AIDS); resources directed to these states also have supported TB-screening efforts and preventive therapy for HIV-infected persons at high risk for TB infection. The increased funding enabled state and local TB-control programs to improve management of TB cases, in part by ensuring that all patients complete an adequate course of therapy and by expanding the use of directly observed therapy (7,8).

Preliminary analyses of national surveillance data and TB-control program management reports indicate that the decrease in cases in U.S.-born persons largely reflected improvement in program performance (CDC, unpublished data, 1995). Since 1986, the number and proportion of reported TB cases among foreign-born persons have increased substantially (9). Most of these persons develop TB disease within the first 5 years of arrival in the United States because of reactivation of latent *M. tuberculosis* infection acquired in their country of origin, inadequate screening for and/or treatment of TB before entering the United States, or inadequate follow-up of those who have entered the United States with noninfectious TB (i.e., abnormal chest radiograph with negative sputum smears). Control of TB among foreign-born persons in the United States can be strengthened through improved screening and services for immigrants and refugees, prompt reporting of immigrants and refugees with suspected TB to public health programs and health-care providers, and early identification and treatment of TB in foreign-born persons from countries with a high prevalence of TB (9).

Assessment of the relation between HIV infection and TB has been limited by the incomplete reporting of information on HIV test results for TB cases: during 1994–1995, this information was available for only 36% of reported persons aged 25–44 years. During 1996 and 1997, CDC, in collaboration with selected state and local health departments, will assess HIV-testing and HIV-counseling practices for TB patients, measure the prevalence of testing, and determine barriers to reporting HIV results for patients who are tested. Results of this assessment will be used to develop strategies to improve HIV testing and counseling of TB patients and reporting of HIV results to state and local TB and HIV/AIDS surveillance programs.

The recent national decreases in TB morbidity in the United States can be sustained through efforts by federal agencies and state and local health departments to ensure that all persons with TB are promptly identified and treated. These efforts especially must include the identification and treatment of cases in foreign-born persons and persons who are HIV infected. In addition, TB skin tests of high-risk persons will enable identification of persons who could benefit from preventive therapy.

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Progress Toward Poliomyelitis Eradication — India, December 1995 and January 1996

Monitoring efforts to eradicate poliomyelitis by the year 2000 continues to indicate this goal can be achieved: in 1995, the incidence of reported polio cases worldwide was the lowest ever (6179 cases)—representing an 82% decline from the 35,251 cases in 1988. In addition, from 1988 to 1995, the number of countries conducting national immunization days (NIDs)* increased from 17 to 62. In India (1994 population: 919 million), the first NIDs ("pulse polio immunization days" [PPIDs]) were conducted on December 9, 1995, and January 20, 1996, with a target of vaccinating approximately 75 million children aged <3 years with one dose of oral poliovirus vaccine (OPV) in each of two rounds. This report summarizes progress toward polio eradication in India and indicates that the target to vaccinate 75 million children aged <3 years with OPV was exceeded by 4.3 million (6%) during the first round of PPIDs and by 10.4 million (14%) during the second round.

In India, nearly 2 million health-care workers and volunteers participated in PPIDs and used a network of approximately 500,000 vaccination posts. Vaccination posts were the locations where OPV was offered to children by a staff consisting of at least one trained health-care worker and at least three volunteers (1).

On December 9, 1995, the government of India conducted the first round of PPIDs, vaccinating 87.8 million children with one dose of OPV. Of the children vaccinated, 79.3 million (91%) were aged <3 years, and 8.5 million (9%) were aged ≥3 years. All but one of the 32 states and union territories reported coverage to be >90% for children aged <3 years; Nagaland (population: 1.3 million) reported coverage of 86%.

During the second round of PPIDs on January 20, 1996, a total of 93.6 million children were vaccinated with one dose of OPV; of these, 85.4 million (90%) were aged <3 years and 8.2 million (10%) aged ≥3 years. All 32 states and union territories reported coverage to be >90% for children aged <3 years.

To monitor vaccination posts, on December 9, 1995, participating agencies (the Indian Ministry of Health and Family Welfare, the United Nations Children's Fund

^{*}Mass campaigns over a short period (days to weeks) in which two doses of oral poliovirus vaccine (OPV) are administered to all children in the target age group, regardless of prior vaccination history, with an interval of 4–6 weeks between doses.

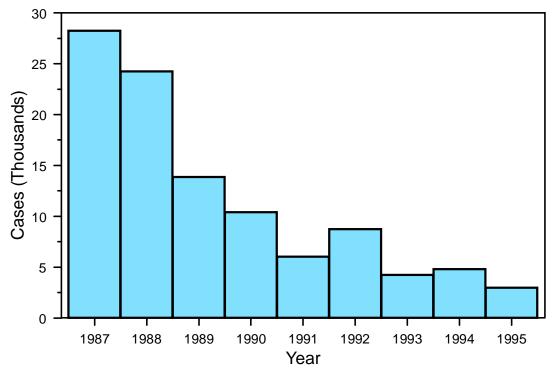
Poliomyelitis Eradication — Continued

[UNICEF], Rotary International, the World Health Organization [WHO], and other partner agencies) surveyed a nonrandom sample of 1070 posts located in 25 of the 32 states and union territories. A standardized survey instrument was used to record information about the ages of children receiving OPV, staffing, vaccine cold chain, and vaccine supply. The findings suggested that 1) posts were adequately staffed; 2) cold chain was well-maintained; and 3) when vaccine supply diminished, contingency measures were initiated to ensure supplies were replenished. In addition, of the 3716 children observed receiving OPV, 605 (16%) were aged ≥3 years, suggesting that measures to screen the age of children were incomplete, and substantial quantities of OPV were administered to children aged ≥3 years.

From 1987 to 1991, reported cases of polio in India declined 79%, from 28,264 to 6028 (Figure 1). From 1991 to 1995, reported cases further declined 50%, from 6028 to 2993. As recently as 1994, however, large outbreaks of paralytic polio have occurred in the states of Gujarat, Karnataka, and Maharashtra, indicating that endemic and epidemic transmission of polio continued to occur despite substantial improvements in routine vaccination coverage with three doses of OPV among children aged 1 year (from 63% in 1988 to 90% in 1993).

Reported by: A Misra, Joint Secretary; K Banerjee, MD, Assistant Commissioner (Immunization), Dept of Maternal and Child Health, Ministry of Health and Family Welfare, New Delhi, India. Expanded Program on Immunization, South East Asia Regional Office, World Health Organization, New Delhi, India. Respiratory and Enterovirus Br, National Center for Infectious Diseases; Polio Eradication Activity, National Immunization Program, CDC.





^{*}Data for 1995 are provisional.

Source: Indian Ministry of Health and Family Welfare

Poliomyelitis Eradication — Continued

Editorial Note: On January 20, 1996, the government of India vaccinated approximately 93 million children with OPV on 1 day—marking the largest number of vaccinations ever administered during a single-day public health event. India is committed to sustaining the massive effort of conducting annual PPIDs (consisting of two rounds) for at least 3 consecutive years or until wild poliovirus circulation is eliminated from that country.

Although most cases of polio in India have occurred among children aged <4 years (88% in 1992 and 91% in 1993) (2), during 1992–1994, persons aged ≥4 years accounted for 9%–12% of cases. Therefore, PPIDs scheduled for December 1996 and January 1997 will target children aged <5 years, increasing the total number of children in the target age group from 75 million to 125 million. Future efforts to focus measures for screening the age of children should assist in reducing vaccine costs during PPIDs.

The role of Rotary International, UNICEF, and other partner agencies has been critical in enabling polio eradication in the South East Asia Region (SEAR) (2–4). The estimated cost of India's first PPIDs was \$30.3 million and included contributions from India (\$18.0 million), the British Overseas Development Agency (\$6.1 million), Rotary International (\$5.0 million), and the United States Agency for International Development (\$1.2 million). In addition to financial contributions, partner agencies have promoted evaluation efforts as a means for improving vaccination coverage during future PPIDs and have strengthened coordination between governmental and nongovernmental agencies. Surveillance systems also require strengthening to maximize the use of resources (2) to achieve the goal of polio eradication by the year 2000.

During August 1994–April 1996, seven of the eight SEAR member countries in which polio is endemic conducted their first polio NIDs; Thailand conducted NIDs first, followed by Bangladesh, Indonesia, Sri Lanka, India, Myanmar, and Democratic People's Republic of Korea. Nepal will implement NIDs in December 1996. During December 1996, six of eight contiguous SEAR member countries with endemic polio (Bangladesh, India, Myanmar, Nepal, Sri Lanka, and Thailand) will conduct NIDs synchronously. In addition, another contiguous country (in the Eastern Mediterranean Region), Pakistan, also plans to conduct NIDs again in December.

Progress toward polio eradication reported from the SEAR builds on the experience of the Americas (5)—which has been free of wild poliovirus since 1991 (6)—and the more recent substantial progress in the Western Pacific Region, including China (7). By the end of 1996, all polio-endemic countries in Europe and Asia, except Yemen, will have conducted NIDs, and approximately half of the children aged <5 years worldwide will have received supplemental OPV doses administered during NIDs. In addition, 29 countries in the African Region are planning to conduct NIDs or Sub-National Immunization Days in 1996. Progress reported from many areas of the world suggests the goal of global eradication of polio by the year 2000 is feasible.

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Poliomyelitis Eradication — Continued

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National Arthritis Month — May 1996

May is National Arthritis Month. Arthritis, the leading cause of disability in the United States, affects an estimated 40 million persons and may affect nearly 60 million persons by 2020. The primary goal of the 1996 arthritis month is to encourage patients to Stay Active with ArthritisSM. Benefits of regular physical activity to persons with arthritis include decreasing fatigue, strengthening muscles and bones, increasing flexibility and stamina, and improving the general sense of well-being.

Information about arthritis can be obtained from the Arthritis Foundation, telephone (800) 283-7800 or (404) 872-7100 and from the foundation's World Wide Web site at http://www.arthritis.org. An Arthritis Month promotion kit is available from the foundation, telephone (404) 872-7100, ext. 6319.

Prevalence and Impact of Arthritis By Race and Ethnicity — United States, 1989–1991

Arthritis and other rheumatic conditions are among the most prevalent chronic conditions in the United States, affecting an estimated 40 million persons in 1995 and a projected 60 million by 2020 (1). Previous reports have documented marked differences in the prevalence rates of arthritis and related activity limitations by race and ethnicity (1,2), suggesting the relative importance of arthritis might vary among these groups. In addition, race and ethnicity are associated with important differences in health characteristics and must be addressed in efforts to reduce health disparities as specified by the national health objectives for the year 2000 (3). To examine the relative importance of arthritis among these groups, data from the 1989–1991 National Health Interview Survey (NHIS) were used to estimate the prevalence of self-reported arthritis and related activity limitation by race and ethnicity, compare these estimates to those for other chronic conditions, and estimate these prevalences for 2020.

Prevalences of Arthritis and Activity Limitation

The NHIS is an annual national probability sample of the civilian, noninstitutionalized population of the United States (4). Estimates of the prevalence of arthritis were

based on a one-sixth random sample of 1989–1991 respondents (n=59,289) who answered questions about the presence of any musculoskeletal condition during the preceding 12 months and provided details about these conditions. Each condition was assigned a code from the *International Classification of Diseases, Ninth Revision* (ICD-9). This analysis used the definition of arthritis, which included arthritis and other rheumatic conditions, developed by the National Arthritis Data Workgroup (1).* Data were weighted to estimate the average annual number of cases and prevalence rates. Because age and sex are strongly associated with arthritis prevalence rates, adjusted rates were estimated using eight age categories (0–24, 25–34, 35–44, 45–54, 55–64, 65–74, 75–84, and ≥85 years) and by sex. Race (white, black, American Indian/Alaskan Native, and Asian/Pacific Islander) and ethnicity (Hispanic, non-Hispanic white, and non-Hispanic black) were determined by the respondent's description of his or her background.

Activity limitation caused by arthritis was estimated by using all respondents in the 1989–1991 NHIS (n=356,592). Respondents were asked if they were unable to perform, or were limited in, their major activity (play or school for children and adolescents; working or keeping house for persons aged 18–69 years; independent living for those aged ≥70 years) as a result of health condition(s), and if so, to specify the condition(s) they considered to be responsible for their limitations. Data from those attributing activity limitation to arthritis were weighted to estimate the average annual number of affected persons, prevalence rate, and age- and sex-adjusted rates.

Unadjusted race-specific prevalence rates for arthritis varied from 5.6% (Asians/ Pacific Islanders) to 16.0% (whites) (Table 1). Age- and sex-adjusted rates were significantly lower for Asians/Pacific Islanders (7.2% [95% confidence interval (CI)=±1.6%]) than for other races (15.2% [95% CI=±0.3%] for whites, 15.3% [95% CI=±0.8%] for blacks, and 16.5% [95% CI=±3.3%] for American Indians/Alaskan Natives). The unadjusted population prevalence rates for activity limitation attributable to arthritis varied from 0.7% (Asians/Pacific Islanders) to 3.0% (blacks and American Indians/Alaskan Natives). Age- and sex-adjusted rates were significantly higher for American Indians/ Alaskan Natives (4.2% [95% CI=±1.0%]) and blacks (4.0% [95% CI=±0.2%]) and significantly lower for Asians/Pacific Islanders (1.1% [95% CI=±0.3%]) than for whites (2.7% [95% CI=±0.1%]). The proportion of persons with arthritis who had activity limitation attributable to arthritis was lower among whites (17.6%) and Asians/Pacific Islanders (13.0%) than among blacks (24.5%) and American Indians/Alaskan Natives (22.6%).

Unadjusted prevalence rates for arthritis by ethnicity were 6.5% for Hispanics, 12.4% for non-Hispanic blacks, and 16.9% for non-Hispanic whites (Table 1). Age- and sex-adjusted rates were significantly lower for Hispanics (11.2% [95% Cl=±1.0%]) than for non-Hispanic whites and non-Hispanic blacks (15.5% [95% Cl=±0.3%] and 15.4% [95% Cl=±0.8%], respectively). Unadjusted population prevalence rates for activity limitation were 1.4% for Hispanics and 3.0% for non-Hispanic whites and non-Hispanic blacks. Age- and sex-adjusted rates for activity limitation were similar for Hispanics and non-Hispanic whites (2.7%), and for both groups were significantly lower than for non-Hispanic blacks (3.9% [95% Cl=±0.2%]). The proportions of persons with arthritis who had activity limitation attributable to arthritis were similar for Hispanics (22.2%)

^{*} International Classification of Diseases, Ninth Revision, Clinical Modification, codes 95.6, 95.7, 98.5, 99.3, 136.1, 274, 277.2, 287.0, 344.6, 353.0, 354.0, 355.5, 357.1, 390, 391, 437.4, 443.0, 446, 447.6, 696.0, 710–716, 719.0, 719.2–719.9, 720–721, 725–727, 728.0–728.3, 728.6–728.9, 729.0–729.1, and 729.4.

		Ra	ce			Ethnicity	·	
Characteristic	White	Black	American Indian/ Alaskan Native	Asian/ Pacific Islander	Hispanic	Non- Hispanic white	Non- Hispanic black	
Self-reported arthritis No. (thousands) Rate (95% Cl¶)	31,864	3,672	270	401	1,412	30,662	3,533	
Unadjusted Age- and sex-adjusted	16.0% (±0.5%) 15.2% (±0.3%)	12.3% (±0.7%) 15.3% (±0.8%)	13.4% (±3.5%) 16.5% (±3.3%)	5.6% (±1.4%) 7.2% (±1.6%)	6.5% (±0.8%) 11.2% (±1.0%)	16.9% (±0.4%) 15.5% (±0.3%)		
Self-reported activity limitation attributable to arthritis								
No. (thousands)	5,620	899	61	52	314	5,364	858	
Rate (95% CI) Unadjusted Age- and sex-adjusted	2.8% (±0.1%) 2.7% (±0.1%)	3.0% (±0.2%) 4.0% (±0.2%)	3.0% (±0.8%) 4.2% (±1.0%)	0.7% (±0.2%) 1.1% (±0.3%)		3.0% (±0.1%) 2.7% (±0.1%)	3.0% (±0.2%) 3.9% (±0.2%)	
Proportion of persons with arthritis who have activity limitation								
attributable to arthritis	17.6%	24.5%	22.6%	13.0%	22.2%	17.5%	24.3%	

^{*}Unadjusted rates are estimated for the 1989–1991 National Health Interview Survey (NHIS) civilian, noninstitutionalized population (CNI), using the appropriate weights. Age- and sex-adjusted rates use eight age categories (0-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, and ≥85 years) to adjust to the 1989–1991 CNI population. To generate national numbers, unadjusted NHIS rates were applied to the total population.

[†]Arthritis is defined by using the National Arthritis Data Workgroup's definition, which is based on the *International Classification of* Diseases, Ninth Revision, Clinical Modification, codes 95.6, 95.7, 98.5, 99.3, 136.1, 274, 277.2, 287.0, 344.6, 353.0, 354.0, 355.5, 357.1, 390, 391, 437.4, 443.0, 446, 447.6, 696.0, 710–716, 719.0, 719.2–719.9, 720–721, 725–727, 728.0–728.3, 728.6–728.9, 729.0–729.1, and 729.4.

[§]Race and ethnicity are self-reported by the respondent. ¶Confidence interval. Cls were calculated using SUDAAN.

and non-Hispanic blacks (24.3%) and were higher than that for non-Hispanic whites (17.5%).

Comparison with Other Chronic Conditions

Average annual prevalence estimates of chronic conditions other than arthritis were based on a one-sixth random sample of NHIS respondents in 1989–1991 who answered questions (on six separate condition lists) regarding the presence of these conditions. Analyses included the 21 most common conditions in the NHIS that were defined as chronic (i.e., a condition lasting >3 months or assumed to be chronic [e.g., diabetes]). These data were weighted to estimate average annual numbers of persons affected. Average annual numbers of persons with activity limitation caused by these chronic conditions were estimated as they were for arthritis.

Arthritis was the most common self-reported chronic condition among whites, the second most common among American Indians/Alaskan Natives and Hispanics, the third most common condition among blacks, and the fourth most common condition among Asian/Pacific Islanders (Table 2). For all groups, arthritis prevalence was higher than self-reported hearing impairment, heart disease, chronic bronchitis, asthma, and diabetes. Among the conditions reported to account for activity limitations, arthritis ranked first among blacks and second among the other groups.

Projections for 2020

Arthritis prevalence was projected for 2020 by applying the average annual arthritis prevalence rate for 1989–1991, stratified by age and sex, to the relevant U.S. population projected by the Bureau of the Census (5). Based on these projections, in 2020, self-reported arthritis will affect an estimated 49.7 million whites, 7.0 million blacks, 442,000 American Indians/Alaskan Natives, 1.6 million Asians/Pacific Islanders, and 5.1 million Hispanics. In 2020, activity limitation attributable to arthritis will affect an estimated 9.3 million whites, 1.8 million blacks, 115,000 American Indians/Alaskan Natives, 264,000 Asians/Pacific Islanders, and 1.2 million Hispanics.

Reported by: National Arthritis Data Workgroup. Div of Adult and Community Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: The findings in this report indicate that during 1989–1991, arthritis was the first or among the top four self-reported chronic conditions among all racial/ethnic groups in the United States. As a cause of activity limitation, arthritis ranked either first or second within each group. For these racial groups and for Hispanics, both the large numbers and percentages of persons affected in 1989–1991 probably will increase markedly by 2020, reflecting projected increases in the average age of these populations. Potential explanations for group-specific differences may include variations in cultural thresholds for reporting arthritis (6) and group-specific differences in factors associated with the prevalence of arthritis (e.g., overweight, low socioeconomic status, and occupations involving knee-bending) (7,8). In addition, major histocompatibility genes—especially molecularly defined alleles—vary among ethnic groups and are associated with diseases such as rheumatoid arthritis (9).

Although NHIS self-reported data enable more accurate estimates of activity limitation attributable to arthritis than do other sources (e.g., physician-based data) (10), neither the self-reported data nor the assigned ICD-9 codes were validated by a health-care provider. To improve understanding of arthritis and reduce its occurrence and activity limitation attributable to it, public health research and intervention efforts

TABLE 2. Estimated average annual numbers* of persons with self-reported chronic conditions[†] and related activity limitations in the civilian, noninstitutionalized population, by race, ethnicity[§], and condition — National Health Interview Survey, United States — 1989–1991

		No. (th	ousands), by i	race/ethnicity	
Condition	White	Black	American Indian/ Alaskan Native	Asian/ Pacific Islander	Hispanic
Top five and selected self-reported conditions					
Arthritis¶	31,612	3,678	275	335	1,492
Chronic sinusitis	28,089	3.745	212	260	1,439
Deformity or orthopedic	20,000	0,7 .0		200	1, 100
impairment	24,786	2,556	279	429	1,857
High blood pressure	2 1,7 00	2,000	270	.20	1,007
(hypertension)	22,516	4,185	188	338	1,315
Hearing impairment	19,780	1,486	156	329	979
Hay fever or allergic rhinitis	10,700	1,100		020	0,0
without asthma	19,572	1,823	187	556	1,447
Heart disease	13,919	1,712	84	154	648
Chronic bronchitis	10,862	1,093	100	117	731
Asthma	9,064	1,578	140	205	926
Diabetes	5,163	1,082	91	109	491
Top five and selected self-reported conditions as	·	·			
a cause of activity limitation					
Deformity or orthopedic					
impairment	6,272	785	96	108	544
Arthritis	5,646	908	64	47	327
Heart disease	4,107	564	40	39	225
High blood pressure					
(hypertension)	1,972	797	32	36	205
Intervertebral disk disorders	1,831	170	20	14	115
Diabetes	1,733	497	31	26	216
Asthma	1,661	423	23	33	257
Visual impairment	1,027	151	21	18	87
Hearing impairment	954	79	11	14	66
Cerebrovascular disease	841	166	9	6	42

^{*}The average annual number of persons affected in the civilian, noninstitutionalized population was estimated by using the appropriate weights in the 1989–1991 National Health Interview Survey (NHIS). Data in this table reflect the internal weights of the 1989–1991 NHIS, which are based on civilian, noninstitutionalized population estimates that differ slightly from those of the 1990 census total population estimates. Using the internal weights of the 1989–1991 NHIS allows easier comparison among the different chronic conditions.

[†]A condition lasting >3 months or that is assumed to be chronic (e.g., diabetes).

[§] Race and Hispanic ethnicity are self-reported by the respondent.

[¶]Arthritis is defined by using the National Arthritis Data Workgroup's definition, which is based on the *International Classification of Diseases, Ninth Revision, Clinical Modification*; other chronic conditions are defined by using NHIS chronic condition recode C. Impairments are coded according to a special classification system for the NHIS.

must focus on groups at greatest risk, better define the reasons for these differences among groups, better characterize the epidemiology and natural history of the different types of arthritis, more accurately estimate their economic and societal burden, and evaluate the effectiveness of interventions among these groups. In 1996, six state health departments have initiated use of an optional Behavioral Risk Factor Surveillance System arthritis module to obtain state-level information about arthritis, including data by race and ethnicity. Primary-care providers and state programs can decrease the impact of arthritis among affected groups by 1) promoting primary prevention of arthritis through weight reduction and prevention of sports- or occupational-associated joint injury and 2) encouraging early detection and appropriate education and exercise interventions.

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Notice to Readers

Alcohol and Other Drug-Related Birth Defects Awareness Week, May 12–18, 1996

The National Council on Alcoholism and Drug Dependence (NCADD) has designated May 12–18, 1996, as Alcohol and Other Drug-Related Birth Defects Awareness Week. One of the leading causes of birth defects in the United States is fetal alcohol syndrome (FAS), which results from in utero alcohol exposure. In the United States each year, an estimated 12,000 children are born with FAS (1). The prevalence of FAS ranges from 0.7 cases per 1000 live births for the total U.S. population to 2.7 for American Indians/Alaskan Natives (2–4).

A congressionally mandated report prepared by the Institute of Medicine (IOM) indicated that, although the overall prevalence of any reported alcohol use during pregnancy has declined since the mid-1980s, the proportion of women who drink heavily during pregnancy has remained constant (1). However, a recent study documented

Notice — Continued

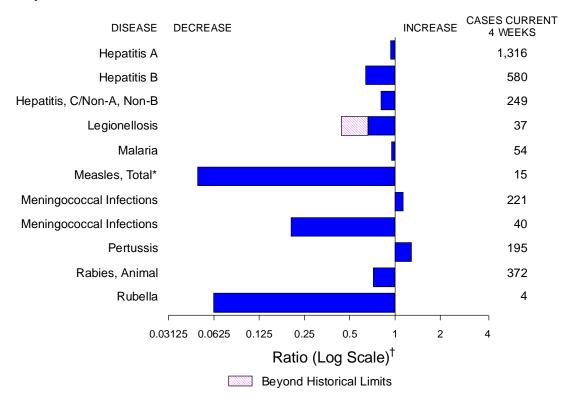
that a high proportion of women with certain characteristics (i.e., nonwhite, smoker, low income, and no prenatal care) are more likely to consume more than six drinks per week during their last pregnancy (5). The IOM report recommended the creation of a interagency task force to facilitate research directed toward 1) estimating the true prevalence of FAS and of alcohol use among pregnant and reproductive-aged women; 2) improving understanding of the risk factors for drinking heavily during pregnancy; and 3) developing a model for preventing drinking during pregnancy, which includes the participation of the woman's partner, family members, and health-care providers. CDC-sponsored prevention projects being evaluated include prenatal interventions for pregnant women who report alcohol use and reproductive-health education and counseling for women in drug- and alcohol-treatment centers.

Additional information about Alcohol and Other Drug-Related Birth Defects Awareness Week is available from NCADD, 12 West 21 Street, New York, NY 10010; telephone (212) 206-6770. Copies of the IOM executive summary are available free of charge from the Institute of Medicine, 2101 Constitution Avenue, NW, Washington, DC, 20418.

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



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

TABLE I. Summary — cases of selected notifiable diseases, United States, cumulative, week ending May 4, 1996 (18th 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*	24 1 2 485 1 - 1 - 30 4	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	92 - - - 8 - 41 9 - 4 47 10 92

^{*}Not notifiable in all states.

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

[†] Updated 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) (proposed), last update April 30, 1996.

No suspected cases of polio reported for 1996.

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

^{-:} no reported cases

TABLE II. Cases of selected notifiable diseases, United States, weeks ending May 4, 1996, and May 6, 1995 (18th Week)

	AID)S*	Chlamydia	Esche coli O NETSS [†]	erichia 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	21,920	24,547	79,002	267	113	92,811	129,892	1,147	1,389	230	403
NEW ENGLAND	878	1,308	3,263	27	16	2,585	1,843	42	36	12	4
Maine N.H.	15 25	23 43	224	3 1	1	15 41	23 34	1	- 5	1	-
Vt.	8	12	-	5	5	22	17	18	4	1	-
Mass. R.I.	490 61	634 87	2,297 742	11 2	10	761 192	1,027 189	20 3	26 1	5 5	3 1
Conn.	279	509	-	5	-	1,554	553	-	-	Ň	Ň
MID. ATLANTIC	5,707	6,096	12,505	40	20	9,861	14,943	112	127	50	53
Upstate N.Y. N.Y. City	568 3,281	685 3,063	N 4,121	21	10 -	1,963 2,608	3,423 5,501	99 1	62 1	10	12 1
N.J.	1,143	1,460	1,893	12	5	1,827	1,185	-	54	7	11
Pa.	715	888	6,491	N	5	3,463	4,834	12	10	33	29
E.N. CENTRAL Ohio	1,874 438	2,066 473	12,844 3,237	45 21	23 8	14,246 1,833	27,219 8,430	147 4	114 4	72 34	133 54
Ind.	309	164	3,358	12	6	2,495	2,847	6	-	17	34
III. Mich.	758 257	887 420	4,101	2 10	2 7	5,922 2,911	7,148 6,532	10 127	40 70	2 16	15 14
Wis.	112	122	2,148	Ň	-	1,085	2,262	-	-	3	16
W.N. CENTRAL	548	545	8,433	40	19	5,122	7,211	90	24	14	26
Minn. Iowa	109 44	119 32	1,261	6 7	12 4	U 372	1,040 532	- 71	1 3	3	8
Mo.	237	214	4,745	6	-	2,784	4,188	14	10	1	8
N. Dak. S. Dak.	4 7	1 7	2 476	1 1	1	1 74	11 69	-	1	2	2
Nebr.	40	51	388	4	-	57	351	1	6	6	6
Kans.	107	121	1,561	15	2	835	1,020	4	3	2	2
S. ATLANTIC Del.	5,803 114	6,684 131	18,365	17	3	35,007 499	37,750 703	58 1	91	31	65
Md.	658	994	1,935	N	1	4,407	4,516	-	2	6	14
D.C. Va.	373 317	438 520	N 4,136	- N	- 1	1,515 3,314	1,703 3,778	- 5	2	1 9	3 4
W. Va.	31	30		N	-	160	223	4	20	1	3
N.C. S.C.	266 283	310 322	-	5 1	1	6,765 3,961	8,642 4,016	18 13	23 4	3 3	11 13
Ga.	871	869	4,178	3	-	7,932	6,848	-	11	-	8
Fla.	2,890	3,070	8,116	5	-	6,454	7,321	17	29	8	9
E.S. CENTRAL Ky.	776 120	815 81	9,518 2,235	9	4	10,192 1,378	15,247 1,589	227 10	488 11	20 2	12 3
Tenn.	283	347	4,096	N	4	3,548	4,661	192	475	9	5
Ala. Miss.	244 129	230 157	2,989 198	2	-	4,655 611	5,964 3,033	1 24	2	9	3 1
W.S. CENTRAL	2,096	2,220	4,448	11	4	6,775	11,413	126	76	2	6
Ark.	97	86	-	5	2	916	1,707	1	1	-	1
La. Okla.	559 55	360 100	2,388 2,060	N 1	2	2,732 1,299	4,197 10	58 38	43 20	2	2 3
Tex.	1,385	1,674	-	1	-	1,828	5,499	29	12	-	-
MOUNTAIN	648	818	5,480	31	15	2,400	3,248	211	160	10	48
Mont. Idaho	8 10	8 22	571	11	4	10 32	30 46	8 62	7 22	1	2 1
Wyo.	2	4	246	-	-	10	17	72	62	2	2
Colo. N. Mex.	181 43	268 71	-	11 2	5 -	591 313	1,036 375	4 29	30 22	4	22 4
Ariz.	197	201	3,737	N	6	1,210	1,170	25	7	2	5
Utah Nev.	79 128	52 192	254 672	5 2	-	49 185	82 492	7 4	5 5	1	3 9
PACIFIC	3,590	3,995	4,146	- 47	9	6,623	11,018	134	273	19	56
Wash.	313	416	3,427	10	5	815	883	26	66	1	4
Oreg. Calif.	189 3,025	158 3,280	-	12 21	-	143 5,351	165 9,432	3 44	18 179	18	- 47
Alaska	10	39	N	-	-	192	299	2	1	-	-
Hawaii	53	102	430	N	4	122	239	59	9	-	5
Guam P.R.	3 423	952	90 N	N N	Ū	22 98	32 199	16	52	-	-
V.I.	6	19	N	N	U	-	14	-	-	-	-
Amer. Samoa C.N.M.I.	-	-	- N	N N	U	- 11	8 10	-	-	-	-
						• • • • • • • • • • • • • • • • • • • •					

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 (proposed), last update April 30, 1996.

†National Electronic Telecommunications System for Surveillance.

§Public Health Laboratory Information System.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending May 4, 1996, and May 6, 1995 (18th Week)

	Lyı Dise		Mal	aria	Mening Dise			hilis Secondary)	Tuberc	ulosis	Rabies	Animal
Reporting Area	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995
UNITED STATES	1,134	1,555	313	328	1,322	1,248	3,777	5,823	5,150	5,546	1,647	2,316
NEW ENGLAND	47	115	9	14	47	59	59	75	132	122	189	621
Maine N.H.	1	1 10	3 1	1 1	7 1	3 12	1	2 1	4 3	4	23	- 75
Vt. Mass.	20	1 15	1 3	3	2 18	6 18	- 27	26	- 54	1 62	56 33	84 240
R.I.	21	10	1	2	-	-	-	1	18	15	20	86
Conn. MID. ATLANTIC	5 946	78 1,176	- 79	7 74	19 105	20 136	31 152	45 343	53 897	40 1,174	57 250	136 518
Upstate N.Y.	464	642	19	12	31	43	14	34	107	111	135	199
N.Y. City N.J.	154 72	34 141	35 22	35 18	16 31	13 32	54 48	181 67	457 218	672 213	51	116
Pa.	256	359	3	9	27	48	36	61	115	178	64	203
E.N. CENTRAL Ohio	15 13	16 5	29 6	47 2	183 67	187 51	585 222	968 337	605 87	486 91	11 2	2 1
Ind. III.	2	7 3	4 7	3 33	27 46	31 48	86 178	94 354	58 400	45 332	1	- 1
Mich.		1	8	4	25	32	41	113	39	-	4	-
Wis. W.N. CENTRAL	U 38	U 26	4 5	5 8	18 115	25 71	58 157	70 293	21 135	18 198	4 164	107
Minn.	1	-	1	3	10	14	27	17	24	37	9	6
lowa Mo.	16 2	1 11	1 2	4	24 53	14 25	7 116	24 236	17 55	28 78	84 10	34 12
N. Dak. S. Dak.	-	-	-	-	2	3	-	-	2 11	1 8	14 37	10 24
Nebr.	- 19	1 13	- 1	1	10 13	6 9	3 4	7 9	7 19	8 38	2	21
Kans. S. ATLANTIC	46	161	60	69	249	207	1,229	9 1,498	846	36 875	818	757
Del. Md.	1 24	17 110	2 19	1 19	2 24	2 13	13 197	7 134	92	18 150	18 193	39 153
D.C.	-	1	3	7	4	2	58	46	44	37	2	5
Va. W. Va.	3	8 7	7 1	13 -	22 6	26 3	177 1	250 1	43 20	62 35	192 33	129 35
N.C. S.C.	10 2	8 5	7 3	6	33 28	37 29	382 159	400 248	122 40	89 102	203 20	150 47
Ga.	-	4	7	9	74	50	109	265	213	7	106	105
Fla. E.S. CENTRAL	6 15	1 9	11 7	14 7	56 88	45 74	133 970	147 1,516	272 401	375 473	51 59	94 98
Ky.	2	1	-	-	14	21	53	81	86	97	17	8
Tenn. Ala.	5 1	5 1	5 1	2 5	7 35	22 16	366 198	290 217	74 155	154 146	19 23	40 49
Miss.	7	2	1	-	32	15	353	928	86	76	-	1
W.S. CENTRAL Ark.	5 3	25 2	10	5 1	156 22	144 17	440 106	777 162	492 20	677 74	21 3	44 22
La. Okla.	2	13	-	1 -	31 14	20 15	201 59	397 -	30	-	10 8	9 13
Tex.	-	10	10	3	89	92	74	218	442	603	-	-
MOUNTAIN Mont.	-	1 -	22 1	23 2	84 1	101 2	39 -	99 3	182 7	135 3	23	34 15
Idaho	-	-	2	1	10 3	4 5	1 1	-	3 1	6 1	- 10	9
Wyo. Colo.	-	-	12	12	12	21	14	59	25	5	1	-
N. Mex. Ariz.	-	-	1 3	3 2	18 26	21 36	20	1 16	28 77	22 87	1 9	9
Utah Nev.	-	- 1	2	2 1	8	5 7	3	3 17	10 31	10 1	2	1
PACIFIC	22	26	92	81	295	269	146	254	1,460	1,406	112	135
Wash. Oreg.	6	- 1	5 8	8 6	39 57	38 51	2 3	6 6	83 35	89 21	-	-
Calif.	15	25	75	59	193	174	141	241	1,265	1,209	104	129
Alaska Hawaii	1	-	1 3	1 7	4 2	4 2	-	1 -	19 58	29 58	8 -	6
Guam	-	-	-	-	1	2	2	1	28	4	-	-
P.R. V.I.	-	-	-	-	3	12 -	57 -	114 1	20	53 -	9 -	26
Amer. Samoa	_	-	-	-	-	-	-	-	-	2	-	-

N: Not notifiable

U: Unavailable

-: no reported cases

TABLE III. Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 4, 1996, and May 6, 1995 (18th Week)

Reporting Area Cum. Cum.		H. influ	•		Hepatitis (vi		•		Measles	_	
New New								Ind	•	lmp	
NEW ENGLAND 12	Reporting Area							1996		1996	
Maine 2 1 1 10 13 2 2 3 N.H.	UNITED STATES	471	490	8,474	8,728	2,821	3,232	5	89	1	9
N.H. 7 6 3 4 2 8 U - U - V - V - V - V - V - V - V - V -											
Mass. 3 7 53 19 16 22 - 3 - 1 RL 3 7 53 19 16 22 - 3 - 1 RL 3 3 9 4 7 7 1 RL 3 19 4 7 7											
RIL											
MID. ATLANTIC 89	R.I.	-	-	3	9	4	7	-	-	-	-
Upstate N.Y. 21								-		-	-
N.J. 25		21	14	139	107	115		-	-	-	-
Pa. 16 18 60 92 38 67 11 EN. CENTRAL 69 90 723 1.222 298 339 - 3 - 2 Ohio 145 47 348 698 45 35 - 2 1 III. 14 22 99 240 42 109 1 III. 14 22 99 240 42 109 2 VIII. 15 6 45 90 2 VIII. 17 17 18 18 18 144 138 2 VIII. 18 14 121 56 48 176 224 - 4 1 VIII. 19 22 99 240 42 109 2 VIII. 19 22 79 11 16 138 1144 138 2 VIII. 19 22 77 51 6 16 16 - 4 - 1 VIII. 19 27 51 6 16 16 - 4 - 1 VIII. 19 27 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 6 16 16 - 4 - 1 VIII. 19 2 77 51 71 10 10 10 10 10 10 10 10 10 10 10 10 10								-		-	
Ohio								-		-	
Ind.								-		-	
Mich. 3 7 116 138 144 138 2 Wis. 5 - 39 90 22 27 - 1 2 Wis. 5 - 39 90 22 27 - 1 2 Wis. 6 5 - 39 90 22 27 - 1 2 Wis. 6 5 - 39 90 22 27 - 1 2 Wis. 6 5 - 39 90 22 27 - 1 2 Wis. 6 6 2 168 27 51 6 6 16 - 4 1 1 lows 6 2 168 24 68 176 224 - 4 - 1 1 lows 7 12 27 51 6 6 16 - 4 1 1 lows 7 12 27 51 6 6 16 - 4 1 1 lows 7 12 27 51 6 6 16 - 4 1 1 lows 7 12 27 51 6 6 16 - 4	Ind.	2	14	121	56	45	90	-		-	
Wis. 5 - 39 90 22 27 - 1 - 5 W.N.CENTRAL 20 30 665 488 176 224 - 4 4 - 1 1 Minn. 7 12 27 81 6 16 - 4 - 1 1 Minn. 7 12 27 81 6 16 - 4 - 1 1 Minn. 6 6 2 168 24 88 15								-		-	
Minn. 7 12 27 51 66 16 - 4 - 1 1 10wa 66 2 168 24 68 15								-		-	
lowa								-		-	
N. Dak.	lowa	6	2	168	24	68	15	-		-	- -
S. Dak. 1								-	-	-	-
Kans 2 47 35 18 16	S. Dak.			29	11		1	-	-	-	-
Del. 1 - 5 6 6 1 3 - 1 5 73 77 37 77 37 77 37 71 103 93 - 1 7								-	-	-	-
Md. 27 37 73 71 103 93 - 1			133					-		-	-
D.C.								-		-	-
W.Va.	D.C.	1	-	12	3	14	9	-	-	-	-
S.C. 3 - 29 13 35 19								-	-	-	-
Ga. 57 28 7 39 5 47								-	-	-	-
E.S. CENTRAL 8	Ga.	57	28	7	39	5	47	-	-	-	-
Ky, 2 1 8 23 21 38 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>								-	-	-	-
Ala. 5 3 81 40 20 42								-	-	-	-
Miss. 1 - 114 30 61 -								-	-	-	-
Ark. - 4 206 60 30 12 - - - - - - - - - - - - - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td></td<>								-	-	-	-
La.								-	-	-	1
Tex. - 2 568 590 167 216 - - - 1 MOUNTAIN 56 42 1,089 1,488 326 244 1 6 1 1 Mont. - - 50 24 4 8 - - - - Idaho 1 2 116 160 48 34 - - - - Wyo. 29 2 13 54 12 6 -								-	-	-	-
MOUNTAIN 56 42 1,089 1,488 326 244 1 6 1 1 Mont. - - - 50 24 4 8 -								-	-	-	- 1
Mont. Idaho - - 50 24 4 8 - - - - - Idaho Idaho 1 2 116 160 48 34 -<								1		1	
Wyo. 29 2 13 54 12 6 -<		- 1		440	400			-	-	-	-
N. Mex. 7 6 183 284 138 90	Wyo.	29	2	13	54	12	6	-			
Ariz. 7 12 350 421 59 32 1 2 - <t< td=""><td></td><td>5 7</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>1</td><td>1</td></t<>		5 7						-		1	1
Nev. 2 9 59 48 14 10 - 3 - - PACIFIC 110 97 2,858 3,248 571 761 4 67 - 1 Wash. 1 4 200 193 40 57 - 4 - - Oreg. 15 12 422 654 27 41 - - - - Calif. 92 79 2,179 2,329 500 652 - 1 - - Alaska - - 26 15 2 5 4 62 - - Hawaii 2 2 31 57 2 6 - - 1 - Guam - - 2 2 - - U - U - PR. - 3 31 14 118	Ariz.	7	12	350	421	59	32	1	2	-	-
Wash. 1 4 200 193 40 57 - 4 - - Oreg. 15 12 422 654 27 41 - - - - - Calif. 92 79 2,179 2,329 500 652 - 1 - - Alaska - - 26 15 2 5 4 62 - - Hawaii 2 2 31 57 2 6 - - 1 1 Guam - - 2 2 2 - - U - U - - - 1 - - - 1 - - - - - - - 1 -								-		-	-
Oreg. 15 12 422 654 27 41 - <	PACIFIC	110	97	2,858	3,248	571	761	4	67	-	1
Calif. 92 79 2,179 2,329 500 652 - 1 - - Alaska - - 26 15 2 5 4 62 - - Hawaii 2 2 31 57 2 6 - - - 1 Guam - - 2 2 - - U - U - PR. - 3 31 14 118 106 - 1 - - VI. - - - - 1 U - U - Amer. Samoa - - - - - U - U -		1 15		200 422	193 654	40 27	57 41	-		-	-
Hawaii 2 2 31 57 2 6 - - - 1 Guam - - - 2 2 - - U - U - PR. - 3 31 14 118 106 - 1 - - V.I. - - - - - 1 U - U - Amer. Samoa - - - 5 - - U - U -	Calif.	92	79	2,179	2,329	500	652	-	1	-	-
Guam - - 2 2 - - U - U - P.R. - 3 31 14 118 106 - 1 - - VI. - - - - 1 U - U - Amer. Samoa - - - 5 - - U - U -								4		-	1
V.I 1 U - U - Amer. Samoa 5 U - U -	Guam	-	-	2	2	-	-	U		U	-
Amer. Samoa 5 U - U -		-	3					- U		- U	-
	Amer. Samoa C.N.M.I.	- 10	-	- 1	5 12	- 5			-		-

^{*}Of 99 cases among children aged <5 years, serotype was reported for 23 and of those, 4 were type B.

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

N: Not notifiable

TABLE III. (Cont'd.) Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 4, 1996, and May 6, 1995 (18th Week)

	Measles (Rub	<u> </u>									
	Cum.	Cum.		Mump Cum.	Cum.		Pertussi: Cum.	Cum.		Rubella Cum.	Cum.
Reporting Area	1996	1995	1996	1996	1995	1996	1996	1995	1996	1996	1995
UNITED STATES	98	189	16	211	310	44	870	937	2	63	29
NEW ENGLAND Maine	6	4	-	-	4 2	7	159 8	148 17	-	8	3
N.H.	-	-	U	-	-	U	17	8	U	-	1
Vt. Mass.	1 4	2	-	-	1	- 7	6 125	3 114	-	1 5	2
R.I.	-	2	-	-	-	-	-	-	-	-	-
Conn. MID. ATLANTIC	1 4	3	- 1	- 26	1 43	4	3 82	6 82	-	2 4	3
Upstate N.Y.	-	-	-	7	12	-	44	46	-	3	-
N.Y. City N.J.	3	3	-	4	6 7	-	13	14 6	-	1 -	2 1
Pa.	1	-	1	15	18	4	25	16	-	-	-
E.N. CENTRAL	5	6	4	55	55	1	127	103	-	3	-
Ohio Ind.	2	-	2	23 5	18 5	1	54 10	36 8	-	-	-
III.	-	-	1	11	15	-	46	20	-	1	-
Mich. Wis.	2 1	4 2	1 -	16 -	17 -	-	12 5	27 12	-	2	-
W.N. CENTRAL	5	1	_	2	20	3	37	59	-	1	-
Minn.	5	-	-	-	2 3	3	30 2	22 1	-	- 1	-
lowa Mo.	-	1	-	-	12	-	1	12	-	-	-
N. Dak. S. Dak.	-	-	-	2	-	-	- 1	5 6	-	-	-
Nebr.	-	_	-	-	3	-	-	3	-	-	-
Kans.	-	-	-	-	-	-	3	10	-	-	-
S. ATLANTIC Del.	2 1	1	2	21	52 -	22	99 7	95 5	1	11 -	5
Md.	1	-	1	9	12	2	37	9	-	-	-
D.C. Va.	-	-	-	3	12	2	- 5	2 7	-	-	-
W. Va.	-	-	-	-	- 16	- 16	2	- 49	-	-	-
N.C. S.C.	-	-	-	3	5	1	25 5	49 10	1	1	-
Ga. Fla.	-	- 1	- 1	1 5	- 7	- 1	2 16	13	-	10	- 5
E.S. CENTRAL	_		' -	10	9		17	24	_	2	-
Ky.	-	-	-	-	-	-	5	1	-	-	-
Tenn. Ala.	-	-	-	1 4	3	-	7 1	4 19	-	-	-
Miss.	-	-	-	5	6	-	4	-	N	N	N
W.S. CENTRAL	1	2 2	1	9	20	1	18 2	47	-	1	2
Ark. La.	-	-	1	8	5 6	1	3	6 1	-	1	-
Okla. Tex.	1	-	-	- 1	- 9	-	4 9	7 33	-	-	2
MOUNTAIN	7	- 57	1	18	11	3	113	224	_	1	3
Mont.	-	-	-	-	-	-	3	3	-	-	-
ldaho Wyo.	-	-	-	-	2	3	44 -	70	-	-	-
Colo.	2	17	1	1	-	-	17	32	-	-	-
N. Mex. Ariz.	2	29 10	N -	N 1	N 1	-	25 4	20 93	-	1	3
Utah	3	-	-	1	1	-	3	5	-	-	-
Nev. PACIFIC	68	1 115	- 7	15 70	7 96	3	17 218	1 155	1	32	13
Wash.	4	16	1	8	5	3	72	27	-	1	-
Oreg. Calif.	- 1	1 97	N 3	N 47	N 78	-	23 115	11 109	- 1	29	1 11
Alaska	62	-	-	2	12	-	-	-	-	-	-
Hawaii	1	1	3	13	1	-	8	8	-	2	1
Guam P.R.	- 1	3	U	2 1	3 1	U	-	5	U	-	-
V.I.	-	-	U	-	1	U	-	-	U	-	-
Amer. Samoa C.N.M.I.	-	-	U U	-	-	U U	-	-	U U	-	-

N: Not notifiable

TABLE IV. Deaths in 121 U.S. cities,* week ending May 4, 1996 (18th Week)

	All Causes, By Age (Years)								,	All Cau	ıses, B	/ Age (Y	ears)		P&l [†]
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I [†] Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	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. Springfield, Mass. Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§		369 62 28 18 24 35 15 26 31 5 36 14 52 1,517 39 67 21 21 23	29 3 3 5 16 7 1 3 1 4 - 10 3 4 45 9 6 5 10 8 5	44 20 3 - 3 - 2 1 4 6 - 1 - 4 193 4 - 5 4 3	13 3 	10 2 3 - 2 - - 3 - - - - - - - - - - - - -	26 9 3 1 3 - 1 2 1 5 102 1 3 2 5	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del. E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	185 88 15 819 132	814 94 141 81 84 63 38 51 29 58 123 42 10 558 86 50 54 44 134 58 42 90	283 39 59 29 24 20 13 16 10 7 38 25 3 167 25 14 25 11 33 23 10 26	156 27 39 13 11 14 8 5 6 3 16 14 - 6 7 6 7 13 4 6 9	35 2 8 3 2 3 1 2 4 5 2 19 7	22 3 8 - 4 1 1 1 2 2 - 13 4 3	80 7 28 12 2 2 3 4 3 16 2 - 68 1 7 12 7 19 7 4 11
Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa.§ Reading, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y. E.N. CENTRAL	48 1,177 59 19 300 50 23 121 27 29 77 17 20 U	26 748 27 16 222 33 17 91 22 24 54 12 17 U	15 273 13 1 54 13 6 19 2 2 16 4 3 U	5 118 13 2 19 2 - 8 3 2 4 - - U	22 4 - 1 - 1 - 1 2 - - U	2 16 1 - 4 2 - 2 - 1 - U	1 46 3 2 14 8 1 6 2 4 4 U	W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	1,508 70 49	980 40 38 37 164 67 60 201 55 74 138 29 77 630	293 18 8 11 38 20 20 73 11 31 32 8 23	135 8 2 3 26 6 13 37 4 9 19 4 4	50 1 8 3 1 10 5 5 10 2 5	50 4 1 10 1 1 5 16 2 6 1 3	98 7 2 4 9 10 1 32 6 - 15 2 10 70
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. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	55 28 434 107 177 160 124 230 35 72 20 10 129 41 50 45 90 64 761 U 20 52 126 444	41 23 241 73 92 107 98 125 50 7 50 109 9 90 29 42 34 74 41 560 U U 0 88 83 33 126 58 61	7 102 15 47 31 18 62 7 19 4 11 25 26 10 4 9 8 18 10 10 4 14 15 4 10 10 10 10 10 10 10 10 10 10 10 10 10	3 2 63 11 23 13 5 30 1 35 1 1 4 3 5 7 5 7 7 7 7 4 6	173522771 - 3 - 3155 131 11U - 1122 - 4 - 1	2 1 1 10 5 10 7 1 1 6 1 1 1 4 4 5 5 2 2 6 6 2 4 4 2 2 3 3 5 5	5 5 1 9 1 102 6 2 7 · 41 1 1 1 5 9 1 7 1 43 U · · 4 3 15 4 6 8 3	Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Diego, Calif. San Jose, Calif. San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	114 188 27 176 25 95 146 1,890 19 93 37 90 93 629 47 102 U 159	68 43 73 125 20 109 21 64 107 1,325 17 61 29 65 66 440 32 7 7 7 7 U 104 123 23 93 37 54 8,113	18 720 466 61 19 326 11 8 61 113 61 10 29 30 28 67 27 11 17 2,313	7 5 14 10 - 7 14 169 1 7 1 5 5 6 7 12 U 18 21 14 - 14 7	5 · 2 3 1 9 1 · 4 38 · 1 1 2 4 9 · 2 U 5 2 4 · 5 1 2 284	5 4 - 6 1 3 2 31 - 11 2 1 1 1 4 1 4 1 1 - -	10 31 12 12 4 5 9 13 148 3 7 2 11 10 25 1 8 U 24 12 24 3 7 9 9 7 6 8 7 9 9 7 9 9 7 9 9 7 9 9 7 9 9 7 9

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

Pneumonia and influenza.

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

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

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