

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 (lowa 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
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Tuberculosis Morbidity - Continued
TABLE 1. Number of reported tuberculosis cases and percentage change, by state and year - United States, 1992-1995

| State | No. cases |  |  |  | \% Change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |  |  |  |  |  |  |  |
| 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 | - 9.1 | - 8.9 | + 0.8 |
| Hawaii | 273 | 251 | 247 | 193 | - 8.1 | - 1.6 | -21.9 |
| Idaho | 26 | 11 | 13 | 14 | -57.7 | +18.2 | + 7.7 |
| Illinois | 1,270 | 1,237 | 1,117 | 1,024 | - 2.6 | - 9.7 | - 8.3 |
| Indiana | 247 | 248 | 211 | 199 | + 0.4 | -14.9 | - 5.7 |
| Iowa | 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 | - 6.9 | - 7.4 | + 5.3 |
| West Virginia | 92 | 75 | 80 | 71 | -18.5 | + 6.7 | -11.3 |
| Wisconsin | 106 | 100 | 109 | 117 | - 5.7 | + 9.0 | + 7.3 |
| Wyoming | 8 | 7 | 12 | 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.

Tuberculosis Morbidity - Continued
TABLE 2. Number of persons with reported cases of tuberculosis, by selected characteristics and year - United States, 1994-1995

| Characteristic | No. reported cases |  | \% Change,1994-1995 |
| :---: | :---: | :---: | :---: |
|  | 1994 | 1995 |  |
| Sex* |  |  |  |
| Male | 15,833 | 14,482 | - 8.5 |
| Female | 8,517 | 8,301 | - 4.9 |
| Age group (yrs) ${ }^{\dagger}$ |  |  |  |
| 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 |
| $\geq 65$ | 5,546 | 5,332 | - 3.9 |
| Race/Ethnicity ${ }^{\text {§ }}$ |  |  |  |
| 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/ Alaskan Native | 332 | 323 | - 2.7 |
| Country of origin ${ }^{\text {I }}$ |  |  |  |
| 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 | -21.4 |
| Total | 24,361 | 22,813 | - 6.4 |

*Excludes persons for whom sex was unknown (11 in 1994 and 30 in 1995).
${ }^{\dagger}$ Excludes persons with unknown or missing age (48 in 1994 and 18 in 1995).
${ }^{\S}$ Excludes persons with unknown race/ethnicity ( 295 in 1994 and 279 in 1995).
TExcludes 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).
(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 $\geq 75 \%$ of records) and in 1995 for 2925 (35.6\%) of 8227 such patients (eight states reported information for $\geq 75 \%$ 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

Tuberculosis Morbidity - Continued
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 $\geq 75 \%$ 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 $\geq 75 \%$ 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

Tuberculosis Morbidity — Continued
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 19941995, this information was available for only $36 \%$ of reported persons aged 2544 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 $\geq 3$ 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 $\geq 3$ 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

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## 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 $\geq 3$ years, suggesting that measures to screen the age of children were incomplete, and substantial quantities of OPV were administered to children aged $\geq 3$ 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.

FIGURE 1. Number of reported cases of paralytic poliomyelitis - India, 1987-1995*


[^1]
## 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 $\geq 4$ 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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## 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 Arthritis ${ }^{\text {SM }}$. 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

## Arthritis - Continued

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 $\geq 85$ 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 $\geq 70$ 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 ( Cl ) $= \pm 1.6 \%$ ]) than for other races ( $15.2 \%$ [ $95 \% \mathrm{Cl}= \pm 0.3 \%$ ] for whites, $15.3 \%$ [ $95 \% \mathrm{Cl}= \pm 0.8 \%$ ] for blacks, and $16.5 \%$ [ $95 \% \mathrm{Cl}= \pm 3.3 \%$ ] 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 ( $4.2 \%$ [ $95 \% \mathrm{Cl}= \pm 1.0 \%$ ]) and blacks ( $4.0 \%$ [ $95 \% \mathrm{Cl}= \pm 0.2 \%]$ ) and significantly lower for Asians/Pacific Islanders (1.1\% [95\% Cl= $\pm 0.3 \%$ ]) than for whites (2.7\% [ $95 \% \mathrm{Cl}= \pm 0.1 \%]$ ). 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= $\pm 0.3 \%$ ] and 15.4\% [95\% $\mathrm{Cl}= \pm 0.8 \%$ ], 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 ( $3.9 \%$ [ $95 \% \mathrm{Cl}= \pm 0.2 \%]$ ). The proportions of persons with arthritis who had activity limitation attributable to arthritis were similar for Hispanics (22.2\%)

[^2]TABLE 1. Estimated average annual numbers and prevalence rates* of persons with self-reported arthritis ${ }^{\dagger}$ and related activity limitation in the total population, by race and ethnicity ${ }^{\S}$ - National Health Interview Survey, United States, 1989-1991

| Characteristic | Race |  |  |  | Ethnicity |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | White | Black | American Indian/ Alaskan Native | Asian/ Pacific Islander | Hispanic | NonHispanic white | NonHispanic black |
| Self-reported arthritis |  |  |  |  |  |  |  |
| No. (thousands) | 31,864 | 3,672 | 270 | 401 | 1,412 | 30,662 | 3,533 |
| Rate (95\% CIIT) |  |  |  |  |  |  |  |
| Unadjusted | 16.0\% ( $\pm 0.5 \%)$ | 12.3\% ( $\pm 0.7 \%$ ) | 13.4\% ( $\pm 3.5 \%$ ) | 5.6\% ( $\pm 1.4 \%$ ) | 6.5\% ( $\pm 0.8 \%$ ) | 16.9\% ( $\pm 0.4 \%)$ | 12.4\% ( $\pm 0.7 \%$ ) |
| Age- and sex-adjusted | 15.2\% ( $\pm 0.3 \%)$ | 15.3\% ( $\pm 0.8 \%$ ) | 16.5\% ( $\pm 3.3 \%)$ | 7.2\% ( $\pm 1.6 \%$ ) | 11.2\% ( $\pm 1.0 \%$ ) | 15.5\% ( $\pm 0.3 \%$ ) | 15.4\% ( $\pm 0.8 \%$ ) |
| Self-reported activity |  |  |  |  |  |  |  |
| limitation attributable |  |  |  |  |  |  |  |
| No. (thousands) | 5,620 | 899 | 61 | 52 | 314 | 5,364 | 858 |
| Rate (95\% CI) |  |  |  |  |  |  |  |
| Unadjusted | 2.8\% ( $\pm 0.1 \%)$ | 3.0\% ( $\pm 0.2 \%)$ | 3.0\% ( $\pm 0.8 \%)$ | 0.7\% ( $\pm 0.2 \%$ ) | 1.4\% ( $\pm 0.2 \%$ ) | 3.0\% ( $\pm 0.1 \%)$ | $3.0 \%$ ( $\pm 0.2 \%)$ |
| Age- and sex-adjusted | 2.7\% ( $\pm 0.1 \%$ ) | 4.0\% ( $\pm 0.2 \%$ ) | 4.2\% ( $\pm 1.0 \%)$ | 1.1\% ( $\pm 0.3 \%)$ | 2.7\% ( $\pm 0.3 \%)$ | 2.7\% ( $\pm 0.1 \%)$ | 3.9\% ( $\pm 0.2 \%$ ) |
| 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\% |

[^3]
## Arthritis - Continued

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 healthcare provider. To improve understanding of arthritis and reduce its occurrence and activity limitation attributable to it, public health research and intervention efforts

## Arthritis - Continued

TABLE 2. Estimated average annual numbers* of persons with self-reported chronic conditions ${ }^{\dagger}$ and related activity limitations in the civilian, noninstitutionalized population, by race, ethnicity ${ }^{\S}$, and condition - National Health Interview Survey, United States - 1989-1991

| Condition | No. (thousands), by race/ethnicity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | White | Black | American Indian/ Alaskan Native | Asian/ <br> Pacific <br> Islander | Hispanic |
| Top five and selected self-reported conditions |  |  |  |  |  |
| Arthritis ${ }^{\text {I }}$ | 31,612 | 3,678 | 275 | 335 | 1,492 |
| Chronic sinusitis | 28,089 | 3,745 | 212 | 260 | 1,439 |
| Deformity or orthopedic impairment | 24,786 | 2,556 | 279 | 429 | 1,857 |
| High blood pressure (hypertension) | 22,516 | 4,185 | 188 | 338 | 1,315 |
| Hearing impairment | 19,780 | 1,486 | 156 | 329 | 979 |
| Hay fever or allergic rhinitis 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.
${ }^{\dagger}$ 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.

## Arthritis - Continued

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.

## References

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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.
${ }^{\dagger}$ Ratio of current 4 -week total to mean of 154 -week totals (from previous, comparable, and subsequent 4 -week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4 -week totals.

TABLE I. Summary - cases of selected notifiable diseases, United States, cumulative, week ending May 4, 1996 (18th Week)

|  | Cum. 1996 |  | Cum. 1996 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | HIV infection, pediatric*§ | 92 |
| Brucellosis | 24 | Plague | - |
| Cholera | 1 | Poliomyelitis, paralytic | - |
| Congenital rubella syndrome | 2 | Psittacosis | 8 |
| Cryptosporidiosis* | 485 | Rabies, human | - |
| Diphtheria | 1 | Rocky Mountain spotted fever (RMSF) | 41 |
| Encephalitis: California* |  | Streptococcal toxic-shock syndrome* | 9 |
| eastern equine* | 1 | Syphilis, congenital** | - |
| St. Louis* | - | Tetanus | 4 |
| western equine* | ${ }^{-}$ | Toxic-shock syndrome | 47 |
| Hansen Disease | 30 | Trichinosis | 10 |
| Hantavirus pulmonary syndrome* ${ }^{+1}$ | 4 | Typhoid fever | 92 |

[^4]${ }^{\dagger}$ Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).
${ }^{\S}$ Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention (NCHSTP) (proposed), last update April 30, 1996
I 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) 

| Reporting Area | AIDS* |  | Chlamydia <br> Cum. <br> 1996 | Escherichia coli 0157:H7 |  | Gonorrhea |  | Hepatitis C/NA,NB |  | Legionellosis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\text { NETSS }^{\dagger}$ | PHLIS $^{5}$ <br> Cum. <br> 1996 |  |  |  |  |  |  |
|  | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1995 \end{gathered}$ |  |  | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1995 \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ |
| 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 | 15 | 23 | - | 3 | - | 15 | 23 | - |  | 1 | - |
| N.H. | 25 | 43 | 224 | 1 | 1 | 41 | 34 |  | 5 | - |  |
| Vt. | 8 | 12 | - | 5 | 5 | 22 | 17 | 18 | 4 |  | - |
| Mass. | 490 | 634 | 2,297 | 11 | 10 | 761 | 1,027 | 20 | 26 | 5 | 3 |
| R.I. | 61 | 87 | 742 | 2 | - | 192 | 189 | 3 | 1 | 5 | 1 |
| Conn. | 279 | 509 | - | 5 | - | 1,554 | 553 | - | - | N | N |
| MID. ATLANTIC | 5,707 | 6,096 | 12,505 | 40 | 20 | 9,861 | 14,943 | 112 | 127 | 50 | 53 |
| Upstate N.Y. | 568 | 685 | N | 21 | 10 | 1,963 | 3,423 | 99 | 62 | 10 | 12 |
| N.Y. City | 3,281 | 3,063 | 4,121 |  | - | 2,608 | 5,501 | 1 | 1 | - | 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 | 1,874 | 2,066 | 12,844 | 45 | 23 | 14,246 | 27,219 | 147 | 114 | 72 | 133 |
| Ohio | 438 | 473 | 3,237 | 21 | 8 | 1,833 | 8,430 | 4 | 4 | 34 | 54 |
| Ind. | 309 | 164 | 3,358 | 12 | 6 | 2,495 | 2,847 | 6 | - | 17 | 34 |
| III. | 758 | 887 | - | 2 | 2 | 5,922 | 7,148 | 10 | 40 | 2 | 15 |
| Mich. | 257 | 420 | 4,101 | 10 | 7 | 2,911 | 6,532 | 127 | 70 | 16 | 14 |
| Wis. | 112 | 122 | 2,148 | N | - | 1,085 | 2,262 | - | - | 3 | 16 |
| W.N. CENTRAL | 548 | 545 | 8,433 | 40 | 19 | 5,122 | 7,211 | 90 | 24 | 14 | 26 |
| Minn. | 109 | 119 | - | 6 | 12 | U | 1,040 | - | 1 | - | - |
| Iowa | 44 | 32 | 1,261 | 7 | 4 | 372 | 532 | 71 | 3 | 3 | 8 |
| Mo. | 237 | 214 | 4,745 | 6 | - | 2,784 | 4,188 | 14 | 10 | 1 | 8 |
| N. Dak. | 4 | 1 | 2 | 1 | 1 | 1 | 11 | - | - | - | 2 |
| S. Dak. | 7 | 7 | 476 | 1 | - | 74 | 69 | - | 1 | 2 | - |
| Nebr. | 40 | 51 | 388 | 4 | - | 57 | 351 |  | 6 | 6 | 6 |
| Kans. | 107 | 121 | 1,561 | 15 | 2 | 835 | 1,020 | 4 | 3 | 2 | 2 |
| S. ATLANTIC | 5,803 | 6,684 | 18,365 | 17 | 3 | 35,007 | 37,750 | 58 | 91 | 31 | 65 |
| Del. | 114 | 131 |  |  | - | 499 | 703 | 1 | - | - | - |
| Md. | 658 | 994 | 1,935 | N | 1 | 4,407 | 4,516 | - | 2 | 6 | 14 |
| D.C. | 373 | 438 | N | - | - | 1,515 | 1,703 | - | - | 1 | 3 |
| Va . | 317 | 520 | 4,136 | N | 1 | 3,314 | 3,778 | 5 | 2 | 9 | 4 |
| W. Va. | 31 | 30 | - | N | - | 160 | 223 | 4 | 20 | 1 | 3 |
| N.C. | 266 | 310 | - | 5 | 1 | 6,765 | 8,642 | 18 | 23 | 3 | 11 |
| S.C. | 283 | 322 | - | 1 | - | 3,961 | 4,016 | 13 | 4 | 3 | 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 | 776 | 815 | 9,518 | 9 | 4 | 10,192 | 15,247 | 227 | 488 | 20 | 12 |
| Ky. | 120 | 81 | 2,235 | - | - | 1,378 | 1,589 | 10 | 11 | 2 | 3 |
| Tenn. | 283 | 347 | 4,096 | N | 4 | 3,548 | 4,661 | 192 | 475 | 9 | 5 |
| Ala. | 244 | 230 | 2,989 | 2 | - | 4,655 | 5,964 | 1 | 2 | - | 3 |
| Miss. | 129 | 157 | 198 | 3 | - | 611 | 3,033 | 24 | - | 9 | 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. | 559 | 360 | 2,388 | N | 2 | 2,732 | 4,197 | 58 | 43 | - | 2 |
| Okla. | 55 | 100 | 2,060 | 1 | - | 1,299 | 10 | 38 | 20 | 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. | 8 | 8 | 5, | - | - | 10 | 30 | 8 | 7 | 1 | 2 |
| Idaho | 10 | 22 | 571 | 11 | 4 | 32 | 46 | 62 | 22 | - | 1 |
| Wyo. | 2 | 4 | 246 | - | - | 10 | 17 | 72 | 62 | 2 | 2 |
| Colo. | 181 | 268 | - | 11 | 5 | 591 | 1,036 | 4 | 30 | 4 | 22 |
| N. Mex. | 43 | 71 | - | 2 | - | 313 | 375 | 29 | 22 | - | 4 |
| Ariz. | 197 | 201 | 3,737 | N | 6 | 1,210 | 1,170 | 25 | 7 | 2 | 5 |
| Utah | 79 | 52 | 254 | 5 |  | 49 | 82 | 7 | 5 | - | 3 |
| Nev. | 128 | 192 | 672 | 2 | - | 185 | 492 | 4 | 5 | 1 | 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. | 189 | 158 | - | 12 | - | 143 | 165 | 3 | 18 | - | - |
| Calif. | 3,025 | 3,280 | - | 21 | - | 5,351 | 9,432 | 44 | 179 | 18 | 47 |
| Alaska | 10 | 39 | N | - | - | 192 | 299 | 2 | 1 | - | - |
| Hawaii | 53 | 102 | 430 | N | 4 | 122 | 239 | 59 | 9 | - | 5 |
| Guam | 3 | - | 90 | N | - | 22 | 32 | - | $\stackrel{-}{-}$ | - | - |
| P.R. | 423 | 952 | N | N | U | 98 | 199 | 16 | 52 | - | - |
| V.I. | 6 | 19 | N | N | U | - | 14 | - | - | - | - |
| Amer. Samoa | - | - | - | N | U | ${ }^{-}$ | 8 | - | - | - | - |
| C.N.M.I. | - | - | N | N | U | 11 | 10 | - | - | - | - |
| N : Not notifiable U: Unavailable $\quad-:$ no reported cases C.N.M.I.: Commonwealth of Northern Mariana Islands <br> *Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention (proposed), last update April 30, 1996. <br> ${ }_{s}^{\dagger}$ National Electronic Telecommunications System for Surveillance. <br> ${ }^{\S}$ 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)

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

N : Not notifiable

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

| Reporting Area | H. influenzae, invasive |  | Hepatitis (viral), by type |  |  |  | Measles (Rubeola) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A |  | B |  | Indigenous |  | Imported ${ }^{\dagger}$ |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & \text { 1996* } \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1995 \\ \hline \end{gathered}$ | 1996 | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | 1996 | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ |
| UNITED STATES | 471 | 490 | 8,474 | 8,728 | 2,821 | 3,232 | 5 | 89 | 1 | 9 |
| NEW ENGLAND | 12 | 26 | 103 | 64 | 53 | 73 | - | 5 | - | 1 |
| Maine | 2 | 1 | 10 | 13 | 2 | 2 | - | - | - | - |
| N.H. | 7 | 6 | 3 | 4 | 2 | 8 | U | - | U | - |
| V . | - | 1 | 2 | 3 | 2 | 1 | - | 1 | - | - |
| Mass. | 3 | 7 | 53 | 19 | 16 | 22 | - | 3 | - | 1 |
| R.I. |  |  | 3 | 9 | 4 | 7 | - | - | - | - |
| Conn. | - | 11 | 32 | 16 | 27 | 33 | - | 1 | - | - |
| MID. ATLANTIC | 69 | 48 | 566 | 494 | 444 | 383 | - | 2 | - | 2 |
| Upstate N.Y. | 21 | 14 | 139 | 107 | 115 | 111 | - | - | - | - |
| N.Y. City | 7 | 8 | 244 | 219 | 203 | 87 | - | 2 | - | 1 |
| N.J. | 25 | 8 | 123 | 76 | 88 | 118 | - | - | - | - |
| Pa. | 16 | 18 | 60 | 92 | 38 | 67 | - | - | - | 1 |
| E.N. CENTRAL | 69 | 90 | 723 | 1,222 | 298 | 399 | - | 3 | - | 2 |
| Ohio | 45 | 47 | 348 | 698 | 45 | 35 | - | 2 | - | - |
| Ind. | 2 | 14 | 121 | 56 | 45 | 90 | - | - | - | - |
| III. | 14 | 22 | 99 | 240 | 42 | 109 | - | - | - | - |
| Mich. | 3 | 7 | 116 | 138 | 144 | 138 | - | - | - | 2 |
| Wis. | 5 | - | 39 | 90 | 22 | 27 | - | 1 | - | - |
| W.N. CENTRAL | 20 | 30 | 665 | 488 | 176 | 224 | - | 4 | - | 1 |
| Minn. | 7 | 12 | 27 | 51 | 6 | 16 | - | 4 | - | 1 |
| lowa | 6 | 2 | 168 | 24 | 68 | 15 | - | - | - |  |
| Mo. | 5 | 13 | 301 | 345 | 78 | 160 | - | - | - | - |
| N. Dak. |  |  | 17 | 10 |  | 2 | - | - | - | - |
| S. Dak. | 1 | - | 29 | 11 | - | 1 | - | - | - | - |
| Nebr. | 1 | 1 | 76 | 12 | 6 | 14 | - | - | - | - |
| Kans. | - | 2 | 47 | 35 | 18 | 16 | - | - | - | - |
| S. ATLANTIC | 113 | 133 | 290 | 367 | 393 | 449 | - | 2 | - | - |
| Del. | 1 | - | 5 | 6 | 1 | 3 | - | 1 | - | - |
| Md. | 27 | 37 | 73 | 71 | 103 | 93 | - | 1 | - | - |
| D.C. | 1 | - | 12 | 3 | 14 | 9 | - | - | - | - |
| Va . | 3 | 12 | 52 | 69 | 52 | 34 | - | - | - | - |
| W. Va. | 4 | 6 | 8 | 10 | 10 | 21 | - | - | - | - |
| N.C. | 13 | 18 | 42 | 42 | 129 | 116 | - | - | - | - |
| S.C. | 3 | - | 29 | 13 | 35 | 19 | - | - | - | - |
| Ga . | 57 | 28 | 7 | 39 | 5 | 47 | - | - | - | - |
| Fla. | 4 | 32 | 62 | 114 | 44 | 107 | - | - | - | - |
| E.S. CENTRAL | 8 | 4 | 716 | 484 | 291 | 365 | - | - | - | - |
| Ky. | 2 | 1 | 8 | 23 | 21 | 38 | - | - | - | - |
| Tenn. |  | - | 513 | 391 | 189 | 285 | - | - | - | - |
| Ala. | 5 | 3 | 81 | 40 | 20 | 42 | - | - | - | - |
| Miss. | 1 | - | 114 | 30 | 61 | - | - | - | - | - |
| W.S. CENTRAL | 14 | 20 | 1,464 | 873 | 269 | 334 | - | - | - | 1 |
| Ark. | - | 4 | 206 | 60 | 30 | 12 | - | - | - | - |
| La. | - | 1 | 47 | 32 | 39 | 64 | - | - | - | - |
| Okla. | 14 | 13 | 643 | 191 | 33 | 42 | - | - | - | - |
| 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 | - | - | - | - |
| Colo. | 5 | 7 | 22 | 187 | 8 | 45 | - | 1 | 1 | 1 |
| N. Mex. | 7 | 6 | 183 | 284 | 138 | 90 | - | - | - | - |
| Ariz. | 7 | 12 | 350 | 421 | 59 | 32 | 1 | 2 | - | - |
| Utah | 5 | 4 | 296 | 310 | 43 | 19 | - | - | - | - |
| 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 | - |
| P.R. | - | 3 | 31 | 14 | 118 | 106 | , | 1 | , | - |
| V.I. | - | - | - | - | - | 1 | U | - | U | - |
| Amer. Samoa | - | - | - | 5 | - | - | U | - | U | - |
| C.N.M.I. | 10 | - | 1 | 12 | 5 | 5 | U | - | U | - |

*Of 99 cases among children aged $<5$ years, serotype was reported for 23 and of those, 4 were type B.
${ }^{\dagger}$ For imported measles, cases include only those resulting from importation from other countries.
N : Not notifiable
U: Unavailable
-: no reported cases

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)

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

[^5]TABLE IV. Deaths in 121 U.S. cities,* week ending May 4, 1996 (18th Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\&I ${ }^{\dagger}$ <br> Total | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\& ${ }^{\dagger}{ }^{\dagger}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 527 | 369 | 89 | 44 | 13 | 10 | 26 | S. ATLANTIC | 1,312 | 814 | 283 | 156 | 35 | 22 | 80 |
| Boston, Mass. | 118 | 62 | 29 | 20 | 3 | 2 | 9 | Atlanta, Ga. | 165 | 94 | 39 | 27 | 2 | 3 | 7 |
| Bridgeport, Conn. | 37 | 28 | 3 | 3 | - | 3 | 3 | Baltimore, Md. | 255 | 141 | 59 | 39 | 8 | 8 | 28 |
| Cambridge, Mass. | 21 | 18 | 3 | - |  | - | 1 | Charlotte, N.C. | 123 | 81 | 29 | 13 | - | - | 12 |
| Fall River, Mass. | 29 | 24 | 5 |  |  |  |  | Jacksonville, Fla. | 122 | 84 | 24 | 11 | 3 | - | 2 |
| Hartford, Conn. | 59 | 35 | 16 | 3 | 3 | 2 | 3 | Miami, Fla. | 100 | 63 | 20 | 14 | 3 | - |  |
| Lowell, Mass. | 24 | 15 | 7 |  | 2 |  | - | Norfolk, Va. | 65 | 38 | 13 | 8 | 2 | 4 | 3 |
| Lynn, Mass. | 11 | 8 | 1 | 2 |  |  |  | Richmond, Va. | 76 | 51 | 16 | 5 | 3 | 1 | 4 |
| New Bedford, Mass. | 19 | 15 | 3 | 1 |  |  | 1 | Savannah, Ga. | 47 | 29 | 10 | 6 | 1 | 1 | 3 |
| New Haven, Conn. | 34 | 26 | 1 | 4 |  | 3 |  | St. Petersburg, Fla. | 71 | 58 | 7 | 3 | 2 | 1 | 3 |
| Providence, R.I. | 42 | 31 | 4 | 6 | 1 |  | 1 | Tampa, Fla. | 185 | 123 | 38 | 16 | 4 | 2 | 16 |
| Somerville, Mass. | 5 | 5 |  |  |  |  |  | Washington, D.C. | 88 | 42 | 25 | 14 | 5 | 2 | 2 |
| Springfield, Mass. | 50 | 36 | 10 | 1 | 3 |  | 2 | Wilmington, Del. | 15 | 10 | 3 | - | 2 | - | - |
| Waterbury, Conn. | 18 | 14 |  |  | 1 |  | 1 |  | 819 | 558 | 167 | 62 | 19 | 13 |  |
| Worcester, Mass. | 60 | 52 | 4 | 4 |  |  | 5 | E.S. CENTRAL <br> Birmingham, Ala. | 132 | 586 | 167 | 10 | 7 | 13 4 | 1 |
| MID. ATLANTIC | 2,243 | 1,517 | 459 | 193 | 37 | 35 | 102 | Chattanooga, Tenn. | 74 | 50 | 14 | 7 |  | 3 | 7 |
| Albany, N.Y. | 52 | 39 | 6 | 4 |  | 3 | 1 | Knoxville, Tenn. | 85 | 54 | 25 | 6 |  | - | 12 |
| Allentown, Pa. | 21 | 16 | 5 |  |  |  |  | Lexington, Ky. | 64 | 44 | 11 | 7 | 2 |  | 7 |
| Buffalo, N.Y. | 84 | 67 | 10 | 5 | 2 |  | 3 | Memphis, Tenn. | 182 | 134 | 33 | 13 | 2 |  | 19 |
| Camden, N.J. | 35 | 21 | 8 | 4 | 1 | 1 | 2 | Mobile, Ala. | 88 | 58 | 23 | 4 | 3 |  | 7 |
| Elizabeth, N.J. | 32 | 23 | 5 | 3 |  | 1 |  | Montgomery, Ala. | 62 | 42 | 10 | 6 |  | 4 | 4 |
| Erie, Pa.s | 52 | 42 | 4 | 1 | 3 | 2 | 5 | Nashville, Tenn. | 132 | 90 | 26 | 9 | 5 | 2 | 11 |
| Jersey City, N.J. | 48 | 26 | 15 | 5 |  | 2 | 1 |  |  |  |  |  |  |  |  |
| New York City, N.Y. | 1,177 | 748 | 273 | 118 | 22 | 16 | 46 | W.S. CENTRAL | 1,508 | 980 | 293 | 135 | 50 | 50 | 98 |
| Newark, N.J. | 59 | 27 | 13 | 13 | 4 | 1 | 3 | Austin, Tex. | 70 | 40 | 18 | 8 | 1 | 4 | 7 |
| Paterson, N.J. | 19 | 16 | 1 | 2 | - | - | 2 | Baton Rouge, La. | 49 | 38 | 8 | 2 | 1 | 1 | 2 |
| Philadelphia, Pa. | 300 | 222 | 54 | 19 | 1 | 4 | 14 | Corpus Christi, Tex. | 52 246 | 37 164 | 11 | 26 | 8 | 10 | 4 9 |
| Pittsburgh, Pa.§ | 50 | 33 | 13 | 2 | - | 2 | 8 | Dallas, Tex. | 246 | 164 | 38 | 26 | 8 | 10 | 9 |
| Reading, Pa. | 23 | 17 | 6 | - | $\overline{-}$ | - | 1 | El Paso, Tex. | 97 95 | 67 | 20 | 6 13 | 3 1 | 1 | 10 |
| Rochester, N.Y. | 121 | 91 | 19 | 8 | 1 | 2 | 6 | Ft. Worth, Tex. | 95 326 | 60 | 20 | 13 | 10 | 1 | 32 |
| Schenectady, N.Y. | 27 | 22 | 2 | 3 |  | - | 2 | Houston, Tex. | 326 | 201 | 73 | 37 | 10 | 5 | 32 |
| Scranton, Pa.§ | 29 | 24 | 2 | 2 | 1 |  |  | Little Rock, Ark. | 121 | 55 74 | 11 | 4 | 5 | 16 | 6 |
| Syracuse, N.Y. | 77 | 54 | 16 | 4 | 2 | $\overline{7}$ | 4 | New Orleans, La. | 121 | 74 138 | 31 32 | 19 | 10 | 2 | 15 |
| Trenton, N.J. | 17 | 12 | 4 | - |  | 1 | 4 | San Antonio, Tex. | 205 | 138 29 | 32 | 19 4 | 10 | 1 | 15 |
| Utica, N.Y. | 20 | 17 | 3 | - | - |  |  | Shreveport, La. |  | 77 | 23 | 4 | 5 |  | 10 |
| Yonkers, N.Y. | U | U | U | U | U | U | U | Tulsa, Okla. | 112 | 77 | 23 | 4 | 5 | 3 |  |
| E.N. CENTRAL | 2,093 | 1,360 | 425 | 188 | 56 | 63 | 133 | MOUNTAIN | 924 | 630 | 170 | 77 | 25 | 21 | 70 |
| Akron, Ohio | 55 | 41 | 7 | 3 | 2 | 2 |  | Albuquerque, N.M. | 98 | 68 | 18 | 7 | 5 | - | 10 |
| Canton, Ohio | 28 | 23 | 2 | 2 | - | 1 | 5 | Colo. Springs, Colo. | 55 | 43 | 7 | 5 | - | - | 3 |
| Chicago, III. | 434 | 241 | 102 | 63 | 17 | 10 | 31 | Denver, Colo. | 114 | 73 | 20 | 14 | 2 | 5 | 12 |
| Cincinnati, Ohio | 107 | 73 | 15 | 11 | 3 | 5 | 9 | Las Vegas, Nev. | 188 | 125 | 46 | 10 | 3 | 4 | 12 |
| Cleveland, Ohio | 177 | 92 | 47 | 23 | 5 | 10 | 1 | Ogden, Utah | 27 | 20 | 6 |  | 1 | - | 2 |
| Columbus, Ohio | 160 | 107 | 31 | 13 | 2 | 7 | 10 | Phoenix, Ariz. | 176 | 109 | 31 | 20 | 9 | 6 | 4 |
| Dayton, Ohio | 124 | 98 | 18 | 5 | 2 | 1 | 12 | Pueblo, Colo. | 25 | 21 | 2 |  | 1 | 1 | 5 |
| Detroit, Mich. | 230 | 125 | 62 | 30 | 7 | 6 | 16 | Salt Lake City, Utah | 95 | 64 | 21 | 7 |  | 3 | 9 |
| Evansville, Ind. | 35 | 25 | 7 | 1 | 1 | 1 | 2 | Tucson, Ariz. | 146 | 107 | 19 | 14 | 4 | 2 | 13 |
| Fort Wayne, Ind. | 72 | 50 | 19 | 3 | - | - | 7 | PACIFIC | 1,890 | 1,325 | 326 | 169 | 38 | 31 | 148 |
| Gary, Ind. | 20 | 7 | 4 | 5 | 3 | 1 | - | Berkeley, Calif. | -19 | 1, 17 | 1 | 1 | 38 | - | 3 |
| Grand Rapids, Mich. | 66 | 50 | 11 | 1 | - | 4 | 4 | Fresno, Calif. | 79 | 61 | 8 | 7 | 1 | 2 | 7 |
| Indianapolis, Ind. | 156 | 109 | 25 | 14 | 3 | 5 | 11 | Glendale, Calif. | 37 | 29 | 6 | 1 | 1 | - | 2 |
| Madison, Wis. | 10 | 9 | - | - | 1 | - | 1 | Honolulu, Hawaii | 90 | 65 | 16 | 5 | 2 | 1 | 11 |
| Milwaukee, Wis. | 129 | 90 | 26 | 5 | 5 | 3 | 1 | Long Beach, Calif. | 93 | 66 | 18 | 5 | 4 |  | 10 |
| Peoria, III. | 41 | 29 | 10 | - |  | 2 | 5 | Los Angeles, Calif. | 629 | 440 | 113 | 56 | 9 | 11 | 25 |
| Rockford, III. | 50 | 42 | 4 | 1 | $\overline{7}$ | 3 | 9 | Pasadena, Calif. | 47 | 32 | 6 | 7 | - | 2 | 1 |
| South Bend, Ind. | 45 | 34 | 9 | 1 | 1 | - | 1 | Portland, Oreg. | 102 | 77 | 10 | 12 | 2 | 1 | 8 |
| Toledo, Ohio | 90 | 74 | 8 | 4 | 3 | 1 | 7 | Sacramento, Calif. | U | U | U | U | U | U | U |
| Youngstown, Ohio | 64 | 41 | 18 | 3 | 1 | 1 | 1 | San Diego, Calif. | 159 | 104 | 29 | 18 | 5 | 3 | 24 |
| W.N. CENTRAL | 761 | 560 | 101 | 58 | 11 | 22 | 43 | San Francisco, Calif. | 158 | 104 | 30 | 21 | 2 | 1 | 12 |
| Des Moines, Iowa | U | U | U | U | U | U | U | San Jose, Calif. | 173 | 123 | 28 | 14 | 4 | 4 | 22 |
| Duluth, Minn. | 20 | 16 | 4 |  |  |  |  | Santa Cruz, Calif. Seattle, Wash. | 30 140 | 23 93 | 6 27 | 11 | 5 | 1 | 4 3 |
| Kansas City, Kans. | 52 | 30 | 14 | 5 | 1 | 2 |  | Seattle, Wash. Spokane, Wash. | 140 54 | 93 37 | 27 11 | 11 4 | 5 1 | 4 | 3 7 |
| Kansas City, Mo. | 126 | 88 | 15 | 7 | 1 | 6 | 4 3 | Spokane, Wash. | 54 80 | 37 54 | 17 | 4 | 2 | 1 | 9 |
| Lincoln, Nebr. | 44 | 33 | 4 | 5 | 2 | - | 3 | Tacoma, Wash. | 80 | 54 | 17 | 7 | 2 | - | 9 |
| Minneapolis, Minn. | 170 | 126 | 21 | 17 | 2 | 4 | 15 | TOTAL | 12,077 ${ }^{\text {® }}$ | 8,113 | 2,313 | 1,082 | 284 | 267 | 768 |
| Omaha, Nebr. St. Louis, Mo. | 77 | 58 | 10 | 7 |  | 2 | 4 |  |  |  |  |  |  |  |  |
| St. Louis, Mo. | 113 | 90 | 9 | 7 | 4 | 3 | 6 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 68 | 58 | 6 | 4 | - | - | 8 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 91 | 61 | 18 | 6 | 1 | 5 | 3 |  |  |  |  |  |  |  |  |

[^6]
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[^0]:    *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.

[^1]:    * Data for 1995 are provisional.

    Source: Indian Ministry of Health and Family Welfare

[^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.

[^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 $\geq 85$ years) to adjust to the 1989-1991 CNI population. To generate national numbers, unadjusted NHIS rates were applied to the total population.
    ${ }^{\dagger}$ 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.
    ${ }^{\S}$ Race and ethnicity are self-reported by the respondent.
    ${ }^{\pi}$ Confidence interval. Cls were calculated using SUDAAN

[^4]:    *Not notifiable in all states.

[^5]:    N : Not notifiable $\quad \mathrm{U}$ : Unavailable $\quad$-: no reported cases

[^6]:    *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.
    ${ }_{\S}^{\dagger}$ Pneumonia and influenza.
    ${ }^{\S}$ 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.
    TTotal includes unknown ages.
    U: Unavailable -: no reported cases

