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Publication of CDC Surveillance Summaries
Notice to Readers

## Current Trends

## Update: Mortality Attributable to HIV Infection/ AIDS Among Persons Aged 25-44 Years — United States, 1990 and 1991

During the 1980s, human immunodeficiency virus (HIV) infection emerged as a leading cause of death in the United States (1). This report updates national trends in deaths caused by HIV infection during 1990 and 1991 and indicates that HIV infection/ acquired immunodeficiency syndrome (AIDS) continues to cause an increasing proportion of all deaths.

Data presented in this report were obtained from death certificates filed in all 50 states and the District of Columbia. Cause of death was reported by attending physicians, medical examiners, and coroners; demographic characteristics were recorded by funeral directors. Data for 1991 are provisional (2); 1990 is the latest year for which final and more detailed mortality data are available (3).

In 1991, 29,850 U.S. residents died from HIV infection; of these, $3 \%$ were aged $<25$ years; $74 \%, 25-44$ years; and $23 \%, \geq 45$ years. HIV infection was the ninth leading cause of death overall, accounting for $1 \%$ of all deaths, and the third leading cause of death among persons aged 25-44 years, accounting for $15 \%$ of deaths in this age group (Table 1). In 1990, HIV infection was the second leading cause of death among men aged 25-44 years and the sixth leading cause of death among women in this age group (accounting for $17 \%$ and $5 \%$ of deaths, respectively) (Table 2). In 1991, the proportion of deaths caused by HIV infection in these two groups increased to $19 \%$ and $6 \%$, respectively.

While death rates from most other leading causes of death declined or remained relatively stable for men and women aged 25-44 years, the death rate for HIV infection steadily increased (Figures 1 and 2). In 1991, the death rate for HIV infection for men aged 25-44 years was seven times that for women in this age group; however, since 1985, proportionate increases in the rate were greater for women than for men.

For men aged 25-44 years, the proportion of deaths caused by HIV infection in 1990 was $22 \%$ for Hispanics, $19 \%$ for blacks (non-Hispanic), $15 \%$ for whites (non-Hispanic), 7\% for Asians/Pacific Islanders (non-Hispanic), and 3\% for American Indians/Alaskan

HIV Infection/AIDS Mortality - Continued
Natives (non-Hispanic) (Table 3). HIV death rates* varied substantially by race/ethnicity: for men aged 25-44 years, rates for black, Hispanic, American Indian/Alaskan Native, and Asian/Pacific Islander men were approximately three times, twice, one third, and one fourth, respectively, the rate for white men (Table 3).

[^0]TABLE 1. Percentage of deaths caused by HIV infection, rank of HIV infection among all causes of death,* and death rate for HIV infection, by year of death and age group - United States, 1987-1991 ${ }^{\dagger}$

| Year | All ages |  |  |  |  | Aged 25-44 yrs |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total deaths | HIV-related deaths |  |  |  | Total deaths | HIV-related deaths |  |  |  |
|  |  | Deaths | (\%)§ | Rank | Death rate ${ }^{\\|}$ |  | Deaths | (\%) | Rank | Death rate |
| 1987 | 2,123,323 | 13,468 | (0.6) | 15 | 5.5 | 131,164 | 9,820 | ( 7.5) | 6 | 12.7 |
| 1988 | 2,167,999 | 16,602 | (0.8) | 15 | 6.8 | 136,591 | 12,220 | ( 8.9) | 4 | 15.5 |
| 1989 | 2,150,466 | 22,082 | (1.0) | 11 | 8.9 | 141,443 | 16,322 | (11.5) | 3 | 20.3 |
| 1990 | 2,148,463 | 25,188 | (1.2) | 10 | 10.1 | 143,653 | 18,748 | (13.1) | 3 | 23.3 |
| 1991 | 2,165,000 | 29,850 | (1.4) | 9 | 11.8 | 147,340 | 22,050 | (15.0) | 3 | 26.8 |

*Based on the proportion of deaths from each of the cause categories used by CDC'sNational Center for Health Statistics to rank the 15 leading causes of death $\beta$ ).
${ }^{\dagger}$ Data for 1991 are provisional; data for earlier years are final.
§ Percentage of deaths caused by HIV infection among total deaths in the age group.
${ }^{1}$ Deaths caused by HIV infection per 100,000 population.

TABLE 2. Percentage of deaths caused by HIV infection, rank of HIV infection among all causes of death,* and death rate for HIV infection for persons aged 25-44 years, by sex and year of death - United States, 1987-1991 $\dagger$

| Year | Men |  |  |  |  | Women |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total deaths | HIV-related deaths |  |  |  | Total deaths | HIV-related deaths |  |  |  |
|  |  | Deaths | (\%) ${ }^{\text {8 }}$ | Rank | Death rate ${ }^{1}$ |  | Deaths | (\%) | Rank | Death rate |
| 1987 | 91,082 | 8,867 | ( 9.7) | 5 | 23.2 | 40,082 | 953 | (2.4) | 8 | 2.5 |
| 1988 | 95,419 | 10,935 | (11.5) | 3 | 28.1 | 41,172 | 1,285 | (3.1) | 8 | 3.3 |
| 1989 | 99,482 | 14,646 | (14.7) | 2 | 37.0 | 41,961 | 1,676 | (4.0) | 6 | 4.2 |
| 1990 | 101,519 | 16,717 | (16.5) | 2 | 41.7 | 42,134 | 2,031 | (4.8) | 6 | 5.0 |
| 1991 | 104,380 | 19,380 | (18.6) | - | 47.3 | 42,960 | 2,670 | (6.2) | - | 6.4 |

[^1]HIV Infection/AIDS Mortality - Continued
FIGURE 1. Death rates* for leading causes of death for men aged 25-44 years, by year - United States, 1982-1991 ${ }^{\dagger}$

*Per 100,000 population.
†National vital statistics based on underlying cause of death, using final data for 1982-1990 and provisional data for HIV infection for 1991.

FIGURE 2. Death rates* for leading causes of death for women aged 25-44 years, by year - United States, 1982-1991 ${ }^{\dagger}$


[^2]| Race/ Ethnicity | Men |  |  |  |  | Women |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total deaths | HIV-related deaths |  |  |  | Total deaths | HIV-related deaths |  |  |  |
|  |  | Deaths | (\%) ${ }^{\dagger}$ | Rank | Death rate ${ }^{\S}$ |  | Deaths | (\%) | Rank | Death rate |
| Non-Hispanic |  |  |  |  |  |  |  |  |  |  |
| White | 60,710 | 9,170 | (15.1) | 2 | 31.4 | 25,354 | 434 | (11.7) | 9 | 21.5 |
| Black <br> Asian/ | 22,860 | 4,352 | (19.0) | 2 | 105.0 | 10,584 | 1,160 | (11.0) | 3 |  |
| Pacific Islander | 1,255 | 90 | ( 7.2) | 6 | 7.4 | 711 | 6 | ( 0.8) | 12 | 0.5 |
| American Indian/ Alaskan Native | 894 | 24 | ( 2.7) | 7 | 10.0 | 390 | 3 | ( 0.8) | 11 | 1.2 |
| Hispanic |  |  |  |  |  |  |  |  |  |  |
| Puerto Rican Cuban | 1,897 | 728 | (38.4) | 1 | 二 | 644 106 | 192 | $\left(\begin{array}{r}29.8) \\ 9.4\end{array}\right.$ | 1 | 二 |
| Mexican | 4,985 | 659 | (13.2) | 3 | - | 1,287 | 31 | ( 2.4$)$ | 8 | - |
| Other | 1,187 | 231 | (19.5) | 3 | - | 366 | 21 | ( 5.7) | 4 | - |
| Unspecified Total nationality | 10,722 | 382 2,223 | (22.2) | 2 | $5 \overline{9.1}$ | 459 $\mathbf{2 , 8 6 2}$ | 58 312 | (12.6) | 3 | 8.8 |

[^3]
## HIV Infection/AIDS Mortality - Continued

For women aged 25-44 years, HIV infection accounted for 11\% of deaths in 1990 for both black and Hispanic women; however, the HIV death rate for black women was nearly three times that for Hispanic women (Table 3). Both the proportions of deaths caused by HIV infection and the HIV death rates were substantially higher for black and Hispanic women than for women of white and other racial/ethnic groups.

Among Hispanics aged 25-44 years, the proportion of deaths caused by HIV infection in 1990 varied widely by national origin (including ancestry, not necessarily birthplace) (Table 3). In particular, among men of Cuban and Puerto Rican origin, HIV infection was the leading cause of death, accounting for approximately $40 \%$ of all deaths, while among men of Mexican origin, the proportion was lower (13\%). In this age group, HIV infection was the leading cause of death among women of Puerto Rican origin-accounting for approximately $30 \%$ of all deaths-but caused a smaller proportion of deaths among women of Cuban origin (9\%), Mexican origin (2\%), and other Latin American origin (6\%).
Reported by: Surveillance Br, Div of HIV/AIDS, National Center for Infectious Diseases; Mortality Statistics Br, Div of Vital Statistics, National Center for Health Statistics, CDC.
Editorial Note: The findings in this report underscore the role of HIV infection as a cause of death among men and women aged $25-44$ years in the United States. Although deaths from all causes in this age group comprised only $7 \%$ of total U.S. deaths in 1991 (2), they impose a disproportionately high impact on society because of the loss of productive years of life and the loss of parents from families with young children. The impact of HIV infection on death patterns is even greater in many large cities than in the total U.S. population. For example, for persons aged 25-44 years in 1990, HIV was the leading cause of death among men in 64 (37\%) of 172 cities with populations of at least 100,000 and among women in nine (5\%) such cities (4).

In this report, the finding that rates of death for HIV infection were higher for blacks and Hispanics-particularly Hispanics of Puerto Rican origin-than for other racial/ ethnic groups is consistent with reported rates for the incidence of $\operatorname{AIDS}(5,6)$. Such comparisons of racial/ethnic groups may assist in targeting prevention efforts to groups at greatest risk. Differences in risk among racial/ethnic groups may reflect social, economic, behavioral, or other factors, rather than race/ethnicity directly (7). Further analyses are needed to better understand these associations.

The impact of HIV infection on U.S. mortality patterns is greater than indicated in this report. This analysis was based on the underlying cause of death recorded on death certificates; however, previous studies suggest that, for persons aged 25-44 years, deaths for which HIV infection is designated as the underlying cause represent $65 \%-85 \%$ of all HIV-related deaths among men and $55 \%-80 \%$ of those among women ( 8,9 ). In addition, provisional data for 1992 suggest that the number and proportion of deaths caused by HIV infection will increase beyond the levels described in this report (10). Increased prevention efforts to interrupt transmission of HIV are needed to decrease morbidity and mortality from HIV infection.

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HIV Infection/AIDS Mortality - Continued
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## International Notes

## Progress Toward Global Eradication of Poliomyelitis, 1988-1991

The report of the last case of smallpox from Somalia in 1977 demonstrated that an infectious disease could be eradicated globally. Because polioviruses have no animal reservoir and do not survive for long periods of time in the environment, and because lifelong immunity to paralytic poliomyelitis is conferred by existing, effective vaccines, poliomyelitis has been considered a candidate for eradication (1). In 1985, the Pan American Health Organization (PAHO) initiated a regional poliomyelitis eradication program. Based on the success of this program and high vaccination levels achieved worldwide by the Expanded Program on Immunization (EPI), in May 1988, the World Health Assembly of the World Health Organization (WHO) adopted a resolution to eradicate poliomyelitis globally by the year 2000. This report summarizes progress of the global poliomyelitis eradication initiative from 1988 through 1991*.

Global. Reported global vaccination coverage with three doses of oral poliovirus vaccine (OPV3) by age 1 year increased from $67 \%$ in 1988 to $84 \%$ in 1991 (Figure 1). During the same period, reported cases of poliomyelitis decreased 56\%, from 32,286 to 14,176 (Figure 1). From 1988 through 1991, there were substantial decreases in the number of countries/territories reporting poliomyelitis cases (88 [45\%] of 196 and 70 [34\%] of 208, respectively) and the number of countries reporting more than 10 cases per year (56 [29\%] and 38 [18\%], respectively) (Figure 2). In addition, the number of countries reporting zero endemic cases increased from 107 (55\%) to 129 (61\%) ${ }^{\dagger}$.

African Region. Reported coverage with OPV3 increased from 44\% to 57\%, while reported cases of poliomyelitis decreased from 4546 to 2623 ; the number of countries in the region reporting poliomyelitis cases decreased from 37 (79\%) of 47 to 25 (53\%)

[^4]Eradication of Poliomyelitis - Continued
of 47. In 1991, the African Region reported 19\% of the global total of poliomyelitis cases.

Region of the Americas. Reported coverage with OPV3 increased from 82\% to 89\%, while reported cases of poliomyelitis decreased from 340 to nine; the number of countries in the region reporting poliomyelitis cases decreased from 13 (28\%) of 47 to two (4\%) of 47. This region has reported no confirmed cases of poliomyelitis since September 1991 in Peru.

Eastem Mediterranean Region. Reported coverage with OPV3 increased from 69\% to $80 \%$, while reported cases of poliomyelitis decreased from 2332 to 2035; the number of countries in the region reporting poliomyelitis cases decreased from 17 (71\%) of 24 to 15 (65\%) of 23. In 1991, the Eastern M editerranean Region reported 14\% of the global total of poliomyelitis cases; $87 \%$ of the regional total were reported from Pakistan and Egypt. Despite OPV3 coverage of greater than 85\%, small outbreaks also occurred in Oman (1988-1989) and J ordan (1991-1992); 51\% of 118 persons with acute poliomyelitis in Oman and $53 \%$ of 32 persons with acute poliomyelitis in J ordan had received OPV3.

European Region. Reported coverage with OPV3 decreased from 86\% to 82\%, while reported cases of poliomyelitis increased from 206 to 313; the number of countries in the region reporting poliomyelitis cases increased from seven (23\%) of 31 to 15 (33\%)
(Continued on page 493)
FIGURE 1. Reported coverage with three doses of oral poliovirus vaccine (OPV3) and poliomyelitis cases, by year - worldwide, 1988-1991


[^5]FIGURE I. Notifiable disease reports, comparison of 4-week totals ending J une 26, 1993, with historical data - United States

*The large apparent decrease in 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 thehatched area begins is based on the mean and two standard deviations of these 4-week totals.

## TABLE I. Summary - cases of specified notifiable diseases, United States, cumulative, week ending J une 26, 1993 (25th Week)

|  | Cum. 1993 |  | Cum. 1993 |
| :---: | :---: | :---: | :---: |
| AIDS* | 51,608 | Measles: imported | 17 |
| Anthrax | - | indigenous | 148 |
| Botulism: Foodborne | 7 | Plague | 3 |
| Infant | 12 | Poliomyelitis, Paralytic§ |  |
| Other | 2 | Psittacosis | 26 |
| Brucellosis | 36 | Rabies, human | - |
| Cholera | 14 | Syphilis, primary \& secondary | 12,737 |
| Congenital rubella syndrome | 5 | Syphilis, congenital, age <1 year |  |
| Diphtheria |  | Tetanus | 14 |
| Encephalitis, post-infectious | 83 | Toxic shock syndrome | 114 |
| Gonorrhea | 180,883 | Trichinosis | 8 |
| Haemophilus influenzae (invasive disease) ${ }^{\dagger}$ | 628 | Tuberculosis | 9,660 |
| Hansen Disease | 88 | Tularemia | 44 |
| Leptospirosis | 17 | Typhoid fever | 149 |
| Lyme Disease | 1,916 | Typhus fever, tickborne (RMSF) | 77 |

[^6]TABLE II. Cases of selected notifiable diseases, United States, weeks ending
J une 26, 1993, and J une 20, 1992 (25th Week)

| Reporting Area | AIDS* | Aseptic Meningitis | Encephalitis |  | Gonorhea |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Lyme Disease |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1992 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ |
| UNITED STATES | 51,608 | 3,303 | 250 | 83 | 180,883 | 233,891 | 9,929 | 5,583 | 2,219 | 298 | 539 | 1,916 |
| NEW ENGLAND | 2,166 | 45 | 4 | 4 | 3,810 | 4,819 | 155 | 161 | 218 | 5 | 14 | 247 |
| Maine | 59 | 10 | 1 | - | 41 | 40 | 8 | 9 | - | - | 4 | 3 |
| N.H. | 63 | 9 | - | 2 | 30 | 60 | 14 | 53 | 197 | 1 | 2 | 20 |
| V t. | 14 | 7 | 2 | - | 14 | 13 | 3 | 3 | 2 | - | - | 1 |
| Mass. | 1,188 | 10 | 1 | 2 | 1,309 | 1,748 | 47 | 53 | 15 | 4 | 5 | 17 |
| R.I. | 104 | 9 | - | - | 174 | 362 | 49 | 14 | 4 | - | 3 | 54 |
| Conn. | 738 | - | - | - | 2,242 | 2,596 | 34 | 29 | - | - | - | 152 |
| MID. ATLANTIC | 11,379 | 313 | 11 | 6 | 20,335 | 24,550 | 587 | 725 | 162 | 4 | 114 | 1,331 |
| Upstate N.Y. | 1,938 | 123 | 3 | 3 | 4,037 | 5,070 | 179 | 200 | 93 | 1 | 35 | 969 |
| N.Y. City | 6,197 | 104 | 1 | - | 5,067 | 8,400 | 177 | 121 | 1 | - | 3 | 3 |
| N.J. | 2,072 | - | - | - | 3,410 | 3,387 | 156 | 209 | 48 | - | 16 | 129 |
| Pa. | 1,172 | 86 | 7 | 3 | 7,821 | 7,693 | 75 | 195 | 20 | 3 | 60 | 230 |
| E.N. CENTRAL | 4,160 | 435 | 76 | 15 | 34,957 | 43,922 | 976 | 572 | 358 | 8 | 143 | 17 |
| Ohio | 662 | 133 | 25 | 3 | 9,439 | 13,389 | 153 | 112 | 29 | - | 74 | 13 |
| Ind. | 502 | 65 | 6 | 7 | 3,695 | 4,039 | 412 | 110 | 6 | 1 | 30 | 1 |
| III. | 1,442 | 87 | 16 | - | 11,381 | 14,409 | 293 | 123 | 21 | 2 | 5 | 1 |
| Mich. | 1,083 | 140 | 25 | 5 | 7,877 | 10,096 | 112 | 222 | 281 | 5 | 26 | 2 |
| Wis. | 471 | 10 | 4 | - | 2,565 | 1,989 | 6 | 5 | 21 | 5 | 8 | - |
| W.N. CENTRAL | 2,163 | 192 | 11 | - | 8,945 | 12,498 | 1,250 | 337 | 97 | 5 | 35 | 37 |
| Minn. | 431 | 46 | 5 | - | 320 | 1,409 | 205 | 31 | 3 | 4 | 1 | 4 |
| Iowa | 130 | 42 | 1 | - | 602 | 833 | 16 | 12 | 4 | 1 | 5 | 5 |
| Mo. | 1,270 | 45 | - | - | 5,521 | 6,812 | 810 | 250 | 71 | - | 11 | 7 |
| N. Dak. | - | 5 | 2 | - | 23 | 43 | 43 | - | - | - | 1 | 1 |
| S. Dak. | 20 | 7 | 3 | - | 150 | 84 | 10 | - | - | - | - | - |
| Nebr. | 100 | 4 | - | - | 476 | 754 | 113 | 8 | 9 | - | 14 | 1 |
| Kans. | 212 | 43 | - | - | 1,853 | 2,563 | 53 | 36 | 10 | - | 3 | 19 |
| S. ATLANTIC | 10,888 | 811 | 45 | 36 | 49,609 | 73,121 | 616 | 984 | 271 | 44 | 91 | 208 |
| Del. | 208 | 8 | 3 | - | 642 | 838 | 6 | 73 | 63 | - | 7 | 106 |
| Md. | 1,216 | 70 | 10 | - | 7,726 | 7,010 | 85 | 135 | 6 | 5 | 22 | 30 |
| D.C. | 548 | 19 |  | - | 2,681 | 3,535 | 3 | 14 |  | - | 12 | 2 |
| Va. | 731 | 79 | 15 | 3 | 5,651 | 8,672 | 64 | 73 | 20 | 18 | 2 | 19 |
| W. Va. | 38 | 7 | 7 | - | 279 | 439 | 3 | 18 | 16 | - | 1 | 2 |
| N.C. | 453 | 63 | 9 | - | 11,777 | 11,706 | 31 | 154 | 31 | - | 14 | 28 |
| S.C. | 673 | 5 | - | - | 4,842 | 5,389 | 7 | 18 | 1 | 1 | 10 | 1 |
| Ga. | 1,562 | 53 | 1 | - | 4,660 | 23,200 | 57 | 35 | 21 | - | 12 | - |
| Fla. | 5,459 | 507 | - | 33 | 11,351 | 12,332 | 360 | 464 | 114 | 20 | 11 | 20 |
| E.S. CENTRAL | 1,396 | 178 | 9 | 4 | 20,782 | 22,991 | 122 | 608 | 437 | 1 | 22 | 7 |
| Ky. | 161 | 70 | 4 | 4 | 2,193 | 2,345 | 64 | 46 | 5 | - | 8 | 2 |
| Tenn. | 528 | 27 | 4 | - | 6,326 | 7,345 | 23 | 505 | 424 | - | 11 | 3 |
| Ala. | 463 | 49 | 1 | - | 7,418 | 7,843 | 25 | 54 | 3 | 1 | 1 | 2 |
| Miss. | 244 | 32 | - | - | 4,845 | 5,458 | 10 | 3 | 5 | - | 2 | - |
| W.S. CENTRAL | 5,311 | 298 | 19 | - | 21,411 | 23,806 | 924 | 753 | 101 | 81 | 15 | 10 |
| Ark. | 227 | 15 | - | - | 3,992 | 3,955 | 27 | 29 | 2 | - | - | 1 |
| La. | 727 | 24 | - | - | 5,546 | 5,713 | 38 | 94 | 35 | 1 | 2 | - |
| Okla. | 423 | 1 | 4 | - | 1,738 | 2,340 | 53 | 115 | 26 | 6 | 9 | 5 |
| Tex. | 3,934 | 258 | 15 | - | 10,135 | 11,798 | 806 | 515 | 38 | 74 | 4 | 4 |
| MOUNTAIN | 2,599 | 184 | 12 | 3 | 5,148 | 5,919 | 2,012 | 280 | 151 | 49 | 48 | 4 |
| Mont. | 15 | - | - | 1 | 22 | 51 | 54 | 4 | - | - | 5 | - |
| Idaho | 43 | 6 | - | - | 87 | 59 | 95 | 23 | - | 1 | 1 | - |
| Wyo. | 28 | 3 | - | - | 41 | 25 | 10 | 13 | 45 | - | 5 | 2 |
| Colo. | 868 | 43 | 3 | - | 1,572 | 2,188 | 492 | 32 | 24 | 29 | 4 | - |
| N. Mex. | 212 | 37 | 3 | 2 | 452 | 432 | 171 | 120 | 50 | 2 | 3 | 1 |
| Ariz. | 881 | 63 | 4 | - | 1,920 | 1,982 | 690 | 43 | 9 | 7 | 9 | - |
| Utah | 185 | 7 | 1 | - | 164 | 119 | 457 | 21 | 19 | 10 | 7 | 1 |
| Nev. | 367 | 25 | 1 | - | 890 | 1,063 | 43 | 24 | 4 | - | 14 | - |
| PACIFIC | 11,546 | 847 | 63 | 15 | 15,886 | 22,265 | 3,287 | 1,163 | 424 | 101 | 57 | 55 |
| Wash. | 764 | - | - | - | 1,850 | 2,020 | 363 | 98 | 93 | 7 | 8 | 1 |
| Oreg. | 502 | - | - | - | 927 | 737 | 52 | 21 | 8 | , | - | - |
| Calif. | 10,149 | 795 | 60 | 15 | 12,637 | 18,905 | 2,415 | 1,028 | 315 | 91 | 44 | 53 |
| Alaska | 12 | 4 | 2 | - | 221 | 359 | 410 | 6 | 6 | - | - | - |
| Hawaii | 119 | 48 | 1 | - | 251 | 244 | 47 | 10 | 2 | 3 | 5 | 1 |
| Guam |  | 2 | - | - | 38 | 36 | 2 | 2 |  | 1 | - | - |
| P.R. | 1,561 | 27 | - | - | 209 | 84 | 36 | 180 | 22 | 2 | - | - |
| V.I. | 33 | - | - | - | 58 | 54 | - | 2 | - | - | - | - |
| Amer. Samoa | - | - | - | - | 14 | 20 | 10 | - | - | - | - | - |
| C.N.M.I. | - | 2 | - | - | 42 | 32 | - | - | - | 1 | - | - |

N : Not notifiable

# TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending J une 26, 1993, and J une 20, 1992 (25th Week) 

| Reporting Area | $\begin{array}{\|c\|} \hline \text { Malaria } \\ \hline \text { Cum. } 1993 \\ \hline \end{array}$ | Measles (Rubeola) |  |  |  |  | Menin- <br> gococcal <br> Infections <br> Cum. <br> 1993 | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported* |  | Total <br> Cum. |  |  |  |  |  |  |  |  |  |
|  |  | 1993 | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | 1993 | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ |  |  | 1993 | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | 1993 | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1992 \end{aligned}$ | 1993 | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1992 \end{aligned}$ |
| UNITED STATES | 439 | 3 | 148 | 1 | 17 | 1,951 | 1,300 | 32 | 888 | 44 | 1,233 | 783 | 2 | 107 | 106 |
| NEW ENGLAND | 22 | - | 42 | - | 2 | 44 | 56 | - | 5 | 4 | 295 | 67 | - | 1 | 6 |
| Maine | 1 | - | - | - | - |  | 5 | - | . | - | 8 | 2 | - | 1 | 1 |
| N.H. | 5 | - | - | - | - | 12 | 12 | - | - | 4 | 192 | 20 | - | - | - |
| Vt. | 1 | - | 30 | - | 1 | - | 4 | - | - | - | 42 | 1 | - |  | - |
| Mass. | 2 | - | 3 | - | - | 8 | 16 | - | - | - | 19 | 33 | - | - | - |
| R.I. | 2 | - | - | - | 1 | 20 | 1 | - | 2 | - | 2 | - | - | - | 4 |
| Conn. | 11 | - | 9 | - | - | 4 | 18 | - | 3 | - | 32 | 11 | - | - | 1 |
| MID. ATLANTIC | 81 | - | 6 | - | 2 | 205 | 165 | 2 | 62 | 4 | 176 | 78 | - | 26 | 11 |
| Upstate N.Y. | 28 | - | - | - | 1 | 108 | 76 | 2 | 24 | 4 | 77 | 24 | - | 4 | 8 |
| N.Y. City | 24 | - | 2 | - | - | 38 | 19 |  | - | - | 7 | 9 | - | 15 |  |
| N.J. | 21 | - | 4 | - | 1 | 54 | 21 | - | 8 | - | 21 | 19 | - | 6 | 2 |
| Pa. | 8 | - | - | - | - | 5 | 49 | - | 30 | - | 71 | 26 | - | 1 | 1 |
| E.N. CENTRAL | 29 | - | 1 | - | - | 32 | 184 | 3 | 133 | 7 | 177 | 71 | - | 2 | 7 |
| Ohio | 6 | - | - | - | - | 5 | 56 | 2 | 55 | 3 | 111 | 23 | - | 1 | - |
| Ind. | 4 | - | - | - | - | 19 | 30 | - | 3 | 2 | 26 | 12 | - | - |  |
| III. | 14 | - | 1 | - | - | 5 | 57 | - | 29 |  | 19 | 11 | - | - | 7 |
| Mich. | 5 | - | - | - | - | 2 | 40 | 1 | 46 | 2 | 18 | 3 | - | 1 | - |
| Wis. | - | - | - | - | - | 1 | 1 | - | - | - | 3 | 22 | - | - | - |
| W.N. CENTRAL | 13 | - | 1 | - | 2 | 7 | 80 | - | 25 | 3 | 88 | 55 | - | 1 | 5 |
| Minn. | 3 | - | - | - | - | 6 | 2 | - | 7 |  | 43 | 18 | - | - | - |
| lowa | 1 | - | - | - | - | 1 | 15 | - | 7 | - | 1 | 1 | - | - | - |
| Mo. | 3 | - | 1 | - | - | - | 32 | - | 13 | 3 | 24 | 22 | - | 1 | 1 |
| N. Dak. | 2 | - | - | - | - | - | 3 | - | 4 | - | 3 | 7 | - | - | - |
| S. Dak. | 2 | - | - | - | - | - | 3 | - | - | - | 1 | 4 | - | - | - |
| Nebr. | 1 | - | - | - | - | - | 4 | - | 1 | - | 11 | 2 | - | - |  |
| Kans. | 1 | - | - | - | 2 |  |  | - |  |  | 11 | 1 |  |  | 4 |
| S. ATLANTIC | 133 | - | 20 | - | 3 | 112 | 268 | 14 | 289 | 7 | 127 | 62 | 2 | 9 | 7 |
| Del. | 1 | - | 3 | - | - | 1 | 11 | - | 4 | - | 1 | - | - | 2 | - |
| Md. | 13 | - | - | - | 2 | 15 | 25 | 1 | 50 | 1 | 41 | 12 | 2 | 3 | 4 |
| D.C. | 5 | - | - | - |  |  | 4 | - |  |  | 2 | - | - | - | - |
| Va . | 8 | - | - | - | 1 | 11 | 24 | 2 | 16 | 1 | 11 | 4 | - | - | - |
| W. Va. | 2 | - | - | - | - |  | 10 | - | 6 | - | 6 | 2 | - | - | - |
| N.C. | 78 | - | - | - | - | 24 | 47 | 10 | 167 | 3 | 23 | 14 | - | - | - |
| S.C. | - | - | - | - | - | 29 | 20 | 1 | 14 | - | 5 | 7 | - | - | - |
| Ga. | 3 | - | - | - | - |  | 61 | - | 9 | - | 5 | 8 | - | - | - |
| Fla. | 23 | - | 17 | - | - | 32 | 66 | - | 23 | 2 | 33 | 15 | - | 4 | 3 |
| E.S. CENTRAL | 12 | - | 1 | - | - | 449 | 82 | 1 | 33 | 7 | 58 | 13 | - | - | 1 |
| Ky . |  | - | - | - | - | 432 | 16 |  |  | 3 | 3 |  | - |  | - |
| Tenn. | 7 | - | - | - | - | - | 17 | 1 | 10 | 3 | 33 | 5 | - | - | 1 |
| Ala. | 3 | - | 1 | - | - | - | 30 | - | 18 | 4 | 20 | 7 | - | - | - |
| Miss. | 2 | - | - | - | - | 17 | 19 | - | 5 | - | 2 | 1 | - | - | - |
| W.S. CENTRAL | 11 | - | 1 | - | - | 999 | 114 | 11 | 132 | - | 32 | 105 | - | 12 | 6 |
| Ark. | 2 | - | - | - | - | - | 12 | - | 4 | - | 2 | 6 | - | - | - |
| La. | - | - | 1 | - | - | - | 24 | - | 11 | - | 5 | - | - | 1 | - |
| Okla. | 4 | - | - | - | - | 11 | 10 | 5 | 7 | - | 12 | 13 | - | 1 | - |
| Tex. | 5 | - | - | - | - | 988 | 68 | 6 | 110 | - | 13 | 86 | - | 10 | 6 |
| MOUNTAIN | 13 | - | 2 | - | - | 12 | 111 | - | 35 | 7 | 87 | 118 | - | 4 | 4 |
| Mont. | 2 | - | - | - | - | - | 10 | - | - | 2 | - | 1 | - | - | , |
| Idaho | - | - | - | - | - | - | 7 | - | 5 | 2 | 17 | 14 | - | 1 | 1 |
| Wyo. | 7 | - | - | - | - | 1 | 2 | - | 2 | 5 | 1 | - | - | - | - |
| Colo. | 7 | - | 2 | - | - | 11 | 16 | - | 8 | 5 | 33 | 21 | - | - | - |
| N. Mex. | 4 | - | - | - | - | - | 3 | N | N | - | 19 | 29 | - | - | 2 |
| Ariz. | - | - | - | - | - | - | 61 | - | 6 | - | 10 | 37 | - | 1 | 2 |
| Utah | - | - | - | - | - | - | 5 | - | 3 | - | 7 | 15 | - | 1 | 1 |
| Nev. | - | - | - | - | - | - | 7 | - | 11 | - | - | 1 | - | 1 | - |
| PACIFIC | 125 | 3 | 74 | 1 | 8 | 91 | 240 | 1 | 174 | 5 | 193 | 214 | - | 52 | 59 |
| Wash. | 13 | - | - | - | - | 10 | 37 | - | 8 | 1 | 20 | 56 | - | - | 6 |
| Oreg. | 3 | - | - |  | - | 7 | 19 | N | N | - | 3 | 14 | - | 1 | 1 |
| Calif. | 106 | 3 | 64 | $1{ }^{\dagger}$ | 3 | 47 | 166 | 1 | 147 | 4 | 160 | 136 | - | 30 | 36 |
| Alaska |  | - |  |  |  | 9 | 10 | - | 5 | - | 3 | - | - | 1 | - |
| Hawaii | 3 | - | 10 | - | 5 | 25 | 8 | - | 14 | - | 7 | 8 | - | 20 | 16 |
| Guam | 1 | U | 2 | U | - | 10 | 1 | U | 6 | U | - | - | U | - | 1 |
| P.R. | - | - | 122 | - | - | 244 | 6 | - | 1 | - | 1 | 9 | - | - | - |
| V.I. | - | - | - | - | - | - | - | - | 3 | - |  | - | - | - | - |
| Amer. Samoa | - | - | 1 | - | - | - | - | - | - | - | 2 | 6 | - | - | - |
| C.N.M.I. | - |  | - | - | 1 | - | - | - | 11 | - | - | 1 | - | - | - |

*For measles only, imported cases include both out-of-state and internationd importations.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending J une 26, 1993, and J une 20, 1992 (25th Week)

| Reporting Area | Syphilis (Primary \& Secondary) |  | ToxicShock Syndrome | Tuberculosis |  | Tularemia <br> Cum. 1993 | Typhoid <br> Fever <br> Cum. <br> 1993 | Typhus Fever <br> (Tick-bome) <br> (RMSF) <br> Cum. <br> 1993 | Rabies Anima <br> Cum. <br> 1993 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1992 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1992 \\ & \hline \end{aligned}$ |  |  |  |  |
| UNITED STATES | 12,737 | 16,478 | 114 | 9,660 | 9,864 | 44 | 149 | 77 | 3,633 |
| NEW ENGLAND | 215 | 315 | 5 | 189 | 162 |  | 8 | 1 | 470 |
| Maine | 3 |  | 1 | 7 | 13 |  |  |  | - |
| N.H. | 21 | 24 | 2 | 4 | - | - | - | - | 30 |
| vt. | 1 | 1 | - | 3 | 3 | - | - | - | 16 |
| Mass. | 86 | 151 | 1 | 112 | 74 | - | 6 | 1 | 76 |
| R.I. | 7 | 16 | 1 | 28 | 13 |  |  |  | - |
| Conn. | 97 | 123 | - | 35 | 59 | - | 2 | - | 348 |
| MID. ATLANTIC | 1,243 | 2,320 | 23 | 2,108 | 2,389 | - | 44 | 6 | 1,386 |
| Upstate N.Y. | 103 | 187 | 12 | 189 | 300 | - | 9 | 1 | 1,036 |
| N.Y. City | 628 | 1,280 | 1 | 1,284 | 1,394 | - | 26 | - |  |
| N.J. | 171 | 325 | - | 330 | 403 | - | 6 | 4 | 205 |
| Pa. | 341 | 528 | 10 | 305 | 292 | - | 3 | 1 | 145 |
| E.N. CENTRAL | 1,981 | 2,402 | 36 | 1,038 | 1,000 | 3 | 14 | 5 | 35 |
| Ohio | 577 | 350 | 15 | 148 | 156 | 1 | 5 | 4 | 4 |
| Ind. | 177 | 114 | 1 | 113 | 82 | 1 | 1 | - | - |
| III. | 732 | 1,098 | 5 | 528 | 489 | - | 4 | 1 | 4 |
| Mich. | 298 | 460 | 15 | 206 | 231 | 1 | 4 | - | 2 |
| Wis. | 197 | 380 | - | 43 | 42 | - | - | - | 25 |
| W.N. CENTRAL | 783 | 655 | 8 | 214 | 232 | 13 | 2 | 6 | 176 |
| Minn. | 14 | 44 | 2 | 26 | 60 | - | - | - | 23 |
| lowa | 32 | 21 | 4 | 22 | 21 | - |  |  | 34 |
| Mo. | 652 | 489 | - | 115 | 94 | 4 | 2 | 4 | 5 |
| N. Dak. | - | 1 | - | 2 | 3 | 7 | - | - | 36 |
| S. Dak. | 1 | - | - | 10 | 14 | 7 | - | 2 | 19 |
| Nebr. | 10 | 19 | 2 | 10 | 13 | - | - | - | 2 |
| Kans. | 74 | 81 | 2 | 29 | 27 | 2 | - | - | 57 |
| S. ATLANTIC | 3,431 | 4,638 | 13 | 1,690 | 1,878 | 1 | 18 | 27 | 1,007 |
| Del. | 65 | 111 | 1 | 21 | 25 | - | 1 | 1 | 77 |
| Md. | 182 | 348 | - | 175 | 130 | - | 3 | 2 | 296 |
| D.C. | 196 | 209 | - | 80 | 59 | - | - | - | 6 |
| Va . | 321 | 386 | 3 | 217 | 133 | - | 1 | 2 | 189 |
| W. Va. | 3 | 9 | - | 41 | 30 | - | - |  | 41 |
| N.C. | 957 | 1,140 | 3 | 244 | 253 | - | - | 16 | 39 |
| S.C. | 538 | 633 | - | 204 | 193 | - |  | 1 | 84 |
| Ga. | 569 | 951 | - | 360 | 423 |  | 1 | 1 | 233 |
| Fla. | 600 | 851 | 6 | 348 | 632 | 1 | 12 | 4 | 42 |
| E.S. CENTRAL | 1,812 | 2,161 | 4 | 667 | 706 | 3 | 2 | 8 | 45 |
| Ky. | 146 | 66 | 2 | 183 | 185 | - | - | 3 | 7 |
| Tenn. | 522 | 605 | 1 | 144 | 164 | 2 |  | 3 |  |
| Ala. | 406 | 855 | 1 | 232 | 202 | 1 | 2 | - | 38 |
| Miss. | 738 | 635 | - | 108 | 155 | - | - | 2 |  |
| W.S. CENTRAL | 2,694 | 2,802 | 2 | 946 | 929 | 17 | 2 | 22 | 299 |
| Ark. | 459 | 438 | - | 85 | 79 | 10 | - | - | 16 |
| La. | 1,161 | 1,231 | - | - | 87 | - | 1 | 1 | 1 |
| Okla. | 187 | 123 | 2 | 151 | 68 | 4 |  | 21 | 58 |
| Tex. | 887 | 1,010 | - | 710 | 695 | 3 | 1 | - | 224 |
| MOUNTAIN | 113 | 195 | 7 | 219 | 246 | 2 | 5 | 2 | 47 |
| Mont. | 1 | 3 | - | 5 | - | - | - | - | 9 |
| Idaho | - | 1 | 1 | 6 | 12 | - | - | - | 1 |
| Wyo. | 4 | 1 | - | 1 | - | 1 | - | 2 | 6 |
| Colo. | 32 | 28 | 1 | 8 | 17 | - | 4 | - | 1 |
| N. Mex. | 19 | 19 | - | 35 | 39 | - | - | - | 3 |
| Ariz. | 50 | 97 | 1 | 108 | 112 | - | 1 | - | 25 |
| Utah | 2 | 5 | 3 | 11 | 37 | 1 | - | - | - |
| Nev. | 5 | 41 | 1 | 45 | 29 | - | - | - | 2 |
| PACIFIC | 465 | 990 | 16 | 2,589 | 2,322 | 5 | 54 | - | 168 |
| Wash. | 27 | 49 | 2 | 127 | 143 | 1 | 4 | - | - |
| Oreg. | 47 | 24 | - | 53 | 49 | 2 | - | - | $15{ }^{-}$ |
| Calif. | 387 | 910 | 14 | 2,255 | 1,979 |  | 48 | - | 152 |
| Alaska | 2 | 3 | - | 24 | 36 | - | - | - | 16 |
| Hawaii | 2 | 4 | - | 130 | 115 | - | 2 | - | - |
| Guam | 1 | 2 | - | 28 | 34 | - | - | - | - |
| P.R. | 289 | 146 | - | 93 | 120 | - | - | - | 24 |
| V.I. | 28 | 31 | - | 2 | 3 | - | - | - | - |
| Amer. Samoa | - | - | - | 1 | 5 | - | - | - | - |
| C.N.M.I. | 2 | 4 | - | 18 | 15 | - | - | - | - |

## TABLE III. Deaths in 121 U.S. cities,* week ending J une 26, 1993 (25th Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\&्1 }{ }^{\dagger} \\ & \text { Total } \end{aligned}$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\&I ${ }^{\dagger}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |
| NEW ENGLAND | 630 | 450 | 104 | 53 | 14 | 9 | 56 | S. ATLANTIC | 1,106 | 667 | 236 | 126 | 33 | 43 | 51 |
| Boston, Mass. | 170 | 106 | 30 | 21 | 6 | 7 | 21 | Atlanta, Ga. | U | U | U | U | U | U | U |
| Bridgeport, Conn. | 49 | 38 | 1 | 5 | 4 | 1 | 7 | Baltimore, Md. | 290 | 167 | 75 | 34 | 7 | 7 | 22 |
| Cambridge, Mass. | 31 | 24 | 4 | 3 | - | - | 2 | Charlotte, N.C. | 68 | 41 | 15 | 6 | 2 | 4 | 2 |
| Fall River, Mass. | 29 | 23 | 5 | 1 | - |  | - | J acksonville, Fla. | 113 | 76 | 22 | 11 | 2 | 1 | 2 |
| Hartford, Conn. | 55 | 34 | 14 | 5 | 1 | 1 | 3 | Miami, Fla. | 81 | 34 | 17 | 22 | 2 | 6 | - |
| Lowell, Mass. | 31 | 18 | 10 | 3 | - | - | 2 | Norfolk, Va. | 56 | 30 | 15 | 6 | 2 | 3 | 5 |
| Lynn, Mass. | 14 | 12 | 2 | - | - | - | 1 | Richmond, Va. | 82 | 50 | 15 | 5 | 8 | 4 | 3 |
| New Bedford, Mass. | 23 | 22 | 1 | - |  | - | 2 | Savannah, Ga. | 48 | 35 | 8 | 4 | 1 | - | 1 |
| New Haven, Conn. | 44 | 27 | 8 | 8 | 1 | - | 2 | St. Petersburg, Fla. | 54 | 41 | 4 | 3 | 2 | 4 | 2 |
| Providence, R.I. | 49 | 34 | 12 | 3 | - | - | 2 | Tampa, Fla. | 160 | 107 | 35 | 15 | 2 | 1 | 11 |
| Somerville, Mass. | 6 | 4 | 1 | 1 | - | - | - | Washington, D.C. | 126 | 64 | 26 | 18 | 5 | 13 | 3 |
| Springfield, Mass. | 46 | 38 | 8 | - | - |  | 5 | Wilmington, Del. | 28 | 22 | 4 | 2 | - | - | - |
| Waterbury, Conn. | 22 | 18 | 4 |  |  |  | 9 | E.S. CENTRAL | 785 | 501 | 169 | 66 | 29 | 20 | 60 |
| Worcester, Mass. | 61 | 52 | 4 | 3 | 2 | - | 9 | Birmingham, Ala. | 785 91 | 501 61 | 169 16 | 66 9 | 29 3 | 2 | 6 6 |
| MID. ATLANTIC | 2,691 | 1,664 | 566 | 324 | 63 | 73 | 121 | Chattanooga, Tenn. | 92 | 50 | 23 | 9 | 3 | 7 | 5 |
| Albany, N.Y. | 33 | 19 | 9 | 1 | 2 | 2 | 2 | Knoxville, Tenn. | 89 | 63 | 19 | 4 | 2 | 1 | 6 |
| Allentown, Pa. | 17 | 12 | 4 | 1 |  | - | 1 | Lexington, Ky. | 75 | 45 | 20 | 6 | 1 | 3 | 6 |
| Buffalo, N.Y. | 92 | 63 | 19 | 5 | 3 | 2 | 2 | Memphis, Tenn. | 159 | 107 | 29 | 13 | 9 | 1 | 15 |
| Camden, N.J. | 35 | 18 | 10 | 3 | 1 | 3 | 2 | Mobile, Ala. | 94 | 57 | 20 | 12 | 2 | 3 | 9 |
| Elizabeth, N.J. | 25 | 19 | 3 | 2 | - | 1 | 2 | Montgomery, Ala. | 59 | 40 | 13 | 4 | 2 | - | 3 |
| Erie, Pa.§ | 40 | 28 | 9 | 1 | 1 | 1 | 2 | Nashville, Tenn. | 126 | 78 | 29 | 9 | 7 | 3 | 10 |
| J ersey City, N.J . | $\begin{array}{r}53 \\ \hline 379\end{array}$ | 33 819 | 12 | 5 199 | 2 | 1 | 3 | W.S. CENTRAL | 1,536 | 935 | 286 | 178 | 81 | 53 | 89 |
| New York City, N.Y. | 1,379 | 819 | 308 | 199 | 24 | 29 | 46 | Austin, Tex. | 1,536 | 935 45 | 286 | 178 | 81 | 53 | 89 |
| Newark, N.J. | 84 | 35 10 | 18 | 23 | 3 | 4 | 7 | Auston Rouge, La. | 60 | 33 | 11 | 16 | 2 | 2 | 2 |
| Paterson, N.J. | 21 504 | 10 307 | 2 | 7 53 | 22 | 11 | 29 | Corpus Christi, Tex. | 60 50 | 33 32 | 8 | 16 | 4 | 2 | 4 |
| Philadelphia, Pa. Pittsburgh, Pa.§ | 504 59 | 307 40 | 107 | 53 5 | 22 | 15 4 | 29 3 | Dallas, Tex. | 191 | 117 | 32 | 23 | 10 | 9 | 4 |
| Reading, Pa. | 10 | 7 | 10 | 2 | - | 1 | 3 | El Paso, Tex. | 74 | 53 | 12 | 6 | 2 | 1 | 3 |
| Rochester, N.Y. | 112 | 90 | 17 | 3 | 1 | 1 | 12 | Ft. Worth, Tex. | 100 | 58 | 23 | 6 | 9 | 4 | 3 |
| Schenectady, N.Y. | 16 | 12 | 1 | 1 | - | 2 | 1 | Houston, Tex. | 364 | 199 | 80 | 50 | 17 | 15 | 35 |
| Scranton, Pa.§ | 35 | 34 | 1 | - | - | - | 2 | Little Rock, Ark. | 75 158 | 40 | 16 | 9 | 5 | 5 | 3 |
| Syracuse, N.Y. | 94 | 64 | 20 | 4 | 2 | 4 | 6 | New Orleans, La. | 158 | 96 134 | 23 | 20 | 15 | 4 | 15 |
| Trenton, N.J. | 27 | 15 | 4 | 6 | - | 2 | - | San Antonio, Tex. | 218 | 134 | 43 | 20 | 11 | 10 | 15 |
| Utica, N.Y. | 27 | 18 | 8 | 1 | - | - | - | Shreveport, La. | 94 | 70 | 17 | 5 | 1 | 1 | 9 |
| Yonkers, N.Y. | 28 | 21 | 4 | 2 | 1 | - | 1 | Tulsa, Okla. | 86 | 58 | 14 | 7 | 5 | 2 | 2 |
| E.N. CENTRAL | 2,289 | 1,364 | 483 | 226 | 117 | 99 | 123 | MOUNTAIN | 764 | 494 | 142 | 85 | 23 | 20 | 41 |
| Akron, Ohio | 2,284 | 1,32 | 9 | 2 | - | 1 | - | Albuquerque, N.M. | 88 | 55 | 16 | 11 | 3 | 3 | 2 |
| Canton, Ohio | 48 | 36 | 8 | 3 | 1 | 1 | 3 | Colo. Springs, Colo. | 56 | 40 | 8 | 7 | 1 | 7 | 6 |
| Chicago, III. | 590 | 217 | 146 | 106 | 72 | 49 | 20 | Denver, Colo. | 104 | 67 | 19 | 11 | - | 7 | 6 |
| Cincinnati, Ohio | 80 | 60 | 12 | 6 | 1 | 1 | 7 | Las Vegas, Nev. | 106 | 63 | 30 | 12 | $\bar{\square}$ | 1 | 1 |
| Cleveland, Ohio | 146 | 88 | 37 | 14 | 3 | 4 | 2 | Ogden, Utah | 24 | 18 | 1 | 3 | 2 | 5 | 16 |
| Columbus, Ohio | 197 | 123 | 47 | 14 | 6 | 7 | 6 | Phoenix, Ariz. | 180 | 105 | 37 | 23 | 10 | 5 | 16 |
| Dayton, Ohio | 128 | 91 | 24 | 7 | 2 | 4 | 10 | Pueblo, Colo. | 19 | 16 | 1 | 1 | 1 | 4 | 6 |
| Detroit, Mich. | 214 | 132 | 47 | 21 | 9 | 5 | 10 | Salt Lake City, Utah | 83 | 56 74 | 12 | 9 | 2 | 4 | 6 |
| Evansville, Ind. | 35 | 25 | 7 | 3 | - | - | 2 | Tucson, Ariz. | 104 | 74 | 18 | 8 | 4 |  | 4 |
| Fort Wayne, Ind. | 66 | 47 | 8 | 7 | 2 | 2 | 1 | PACIFIC | 1,798 | 1,177 | 313 | 192 | 64 | 49 | 102 |
| Gary, Ind. | 22 | 12 | 3 | 7 | 3 | 3 | 9 | Berkeley, Calif. | 1,31 | 1,172 | 3 | 1 | 1 | 4 | 2 |
| Grand Rapids, Mich. | . 65 | 46 | 8 | 5 | 3 | 3 | 9 | Fresno, Calif. | 75 | 56 | 11 | 4 | 3 | 1 | 3 |
| Indianapolis, Ind. | 173 | 116 | 39 | 4 | 6 | 8 | 14 | Glendale, Calif. | 25 | 21 | 3 | 1 | - |  | 1 |
| Madison, Wis. | 38 | 24 | 8 | 1 | - | 5 | 2 | Honolulu, Hawaii | 82 | 60 | 8 | 8 | 5 | 1 | 9 |
| Milwaukee, Wis. | 133 | 101 | 25 | 7 | $\overline{-}$ | - | 14 | Long Beach, Calif. | 79 | 58 | 10 | 6 | 2 | 3 | 6 |
| Peoria, III. | 45 | 35 | 5 | 2 | 2 | 1 | 7 | Los Angeles, Calif. | 432 | 258 | 88 | 61 | 15 | 8 | 21 |
| Rockford, III. | 52 | 32 | 11 | 8 | 1 | - | 2 | Pasadena, Calif. | 20 | 9 | 7 | 2 | - | 2 | 2 |
| South Bend, Ind. | 40 | 29 | 8 | 1 | 1 | 1 | 3 | Portland, Oreg. | 146 | 97 | 29 | 11 | 6 | 3 | 7 |
| Toledo, Ohio | 117 | 73 | 24 | 7 | 6 | 7 | 10 | Sacramento, Calif. | 170 | 114 | 29 | 15 | 7 | 5 | 8 |
| Youngstown, Ohio | 56 | 45 | 7 | 1 | 2 | 1 | 1 | San Diego, Calif. | 125 | 76 | 23 | 12 | 4 | 10 | 6 |
| W.N. CENTRAL | 727 | 530 | 112 | 45 | 24 | 16 | 41 | San Francisco, Calif | 151 | 79 | 33 | 32 | 5 | 2 | 3 |
| Des Moines, Iowa | 40 | 31 | 7 | 1 | 1 | - | 2 | San J ose, Calif. | 166 | 117 | 23 | 16 | 3 | 6 | 17 |
| Duluth, Minn. | 33 | 23 | 8 | - | 2 | - | 1 | Santa Cruz, Calif. | 40 | 31 | 6 | 2 | 1 | 2 | 6 |
| Kansas City, Kans. | 19 | 17 | 8 | 1 | 1 | - | 4 | Seattle, Wash. | 140 | 94 |  | 17 | 7 | 2 | 2 |
| Kansas City, Mo. | 111 | 77 | 16 | 6 | 7 | 5 | 6 | Spokane, Wash. | 47 | 33 52 | 88 | 4 | 4 | 2 | 4 5 |
| Lincoln, Nebr. | 29 | 19 | 9 | 1 | - | - | - | Tacoma, wash. | 69 | 52 | 12 | 4 | 1 |  | 5 |
| Minneapolis, Minn. | 187 | 143 | 29 | 11 | 1 | 3 | 13 | TOTAL | 12,326 ${ }^{\text {¢ }}$ | 7,782 | 2,411 | 1,295 | 448 | 382 | 684 |
| Omaha, Nebr. | 86 | 65 | 13 | 6 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |
| St. Louis, Mo. | 110 | 71 | 17 | 7 | 10 | 5 | 8 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 68 | 53 | 8 | 6 | 1 | - | 6 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 44 | 31 | 5 | 6 | - | 2 | - |  |  |  |  |  |  |  |  |

*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.
${ }^{\dagger}$ 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.
ITotal includes unknown ages.
U: Unavailable.

Eradication of Poliomyelitis - Continued
of 45. In 1991, the European Region reported 2\% of the global total of poliomyelitis cases; $68 \%$ of the regional total was from republics of the former Soviet Union.

Southeast Asian Region. Reported coverage with OPV3 increased from 57\% to $93 \%$, while reported cases of poliomyelitis decreased from 22,814 to 6581; the number of countries in the region reporting poliomyelitis cases (nine [82\%] of 11) was unchanged. In 1991, the Southeast Asian Region reported $46 \%$ of the global total of poliomyelitis cases; 91\% of the regional total was from India.

Westem Pacific Region. Reported coverage with OPV3 increased from 89\% to 95\%, while reported cases of poliomyelitis increased from 2079 to 2615; the number of countries in the region reporting poliomyelitis cases decreased from six (17\%) of 35 to five (14\%) of 35. In 1991, the Western Pacific Region reported 18\% of the global total of poliomyelitis cases; 98\% of the regional total was from the People's Republic of China and Vietnam.

Reported by: Expanded Program on Immunization, World Health Organization, Geneva. Surveillance, Investigations, and Research Br, National Immunization Program; Respiratory and Enterovirus Br, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases, CDC.
Editorial Note: Since 1988, all six WHO regions have reported substantial progress toward poliomyelitis eradication, and poliomyelitis has apparently been completely eliminated from one region. ${ }^{\S}$ In the Region of the Americas, three major strategies

[^7]FIGURE 2. Incidence of poliomyelitis - worldwide, 1991


Eradication of Poliomyelitis - Continued
were used to eliminate poliomyelitis: 1) achievement of high vaccination coverage; 2) maintenance of sensitive systems of clinical and laboratory surveillance; and
3) implementation of supplementary vaccination activities, including national vaccination days biannually for all children below a specified age (usually age 5 years, regardless of prior vaccination status) and door-to-door vaccination campaigns in areas with a high incidence of poliomyelitis cases and/or low vaccination coverage (3).

In regions other than the Americas, vaccination strategies for poliomyelitis control have consisted primarily of routine vaccination. However, recent poliomyelitis outbreaks in highly vaccinated populations $(4,5)$ and studies indicating suboptimal seroconversion to poliovirus types 1 and 3 following three doses of oral poliovirus vaccine in many tropical and subtropical regions suggest that routine vaccination alone may be insufficient to eliminate wild poliovirus infections and that supplementary activities, including national vaccination days, are necessary in countries where poliomyelitis is endemic (6).

In addition to the strategies used in the Region of the Americas, current global poliomyelitis eradication strategies include establishing and expanding polio-free zones and focusing additional resources on countries that are major exporters of wild poliovirus (7). The Global Poliomyelitis Eradication Plan of Action, endorsed by the EPI Global Advisory Group, emphasizes achieving effective surveillance of acute flaccid paralysis in all countries, initiating supplementary vaccination activities in all countries, and establishing a fully operational laboratory network in all WHO regions by 1995 with the goal of eliminating wild poliovirus transmission globally by the year 2000 (7).

Despite progress in increasing vaccination coverage and decreasing the incidence of poliomyelitis worldwide, there are at least five major barriers to global poliomyelitis eradication: 1) the presence of populations with suboptimal vaccination coverage, including unvaccinated subpopulations; 2) the failure of some countries and regions to identify poliomyelitis eradication as a priority activity (including the implementation of national vaccination days); 3) inadequate managerial skills to implement surveillance and vaccination programs effectively in certain countries; 4) suboptimal immunogenicity of oral poliovirus vaccine in many tropical and subtropical regions; and 5) inadequate commitment of financial resources at national and international levels (3).

The success of efforts to eradicate poliomyelitis in the Region of the Americas was based on the financial support of a broad coalition of national governments, international donor agencies (e.g., Rotary International, the United Nations Children's Fund, the Inter-American Development Bank, the Canadian Public Health Association, and the United States Agency for International Development), the Pan American Health Organization, and nongovernment community organizations. The creation of such coalitions-both regionally and globally-is of paramount importance in future efforts. In addition, success in global disease eradication requires that unaffected countries provide necessary assistance to geographic areas lacking adequate resources (1). The success of the global poliomyelitis eradication initiative will entail finding solutions to these financial, political, and technical challenges.

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## Eradication of Poliomyelitis - Continued

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## Emerging Infectious Diseases

## Update: Outbreak of Hantavirus Infection Southwestem United States, 1993

An outbreak of illness associated with hantavirus infection continues to be investigated by state health departments in New Mexico, Arizona, Colorado, and Utah; the Indian Health Service; and CDC, with the assistance of the Navajo Nation Division of Health (1-3). This report updates information regarding the outbreak and presents information on two cases that occurred in the 10 months preceding this outbreak.

Laboratory evidence of acute hantavirus infection has been confirmed in 15 patients who had onsets of illness from J anuary 1 through J une 30 . Each of these patients has had one or more of the following: positive enzyme-linked immunosorbent assay (ELISA) serology with elevated immunoglobulin $M$ titers indicating recent infection, seroconversion by ELISA, positive immunohistochemistry on formalin-fixed lung tissue, or amplification of hantavirus nucleotide sequences from frozen tissue. Of the 15 cases, 10 occurred in New Mexico, three in Arizona, and one in Colorado; 12 (80\%) occurred among persons aged 20-40 years. Eleven patients died. Similar illnesses in an additional 23 persons, 10 of whom died, are being investigated for possible hantavirus infection.

SinceJ une 6, a total of 668 rodents have been trapped in and around houses in 14 different rural sites. Peromyscus maniculatus (deer mouse) comprised 63\% (range: $36 \%-88 \%$ ) of all rodents trapped and $85 \%$ of those trapped in homes. Of the first 283 rodents tested, hantavirus antibodies were detected in $23 \%$.

In J une 1993, two persons were identified who had evidence of hantavirus infections in 1992. In November 1992, fever and acute respiratory distress occurred in a resident of the outbreak area. Recent serologic evaluation of an acute serum specimen obtained at the time of illness showed evidence of hantavirus infection. In August 1992, fever and myalgias followed by adult respiratory distress syndrome occurred in a person who resided outside the outbreak area; onset of illness was approximately 2 weeks after this person had returned home from a trip to the four-state area. The traveler had engaged in outdoor activities and was exposed to rodents and rodent excreta during both indoor and outdoor activities during the trip. A serum sample

Outbreak of Hantavirus Infection - Continued
tested inJ une 1993 showed elevated immunoglobulin G titers to hantavirus. Although a high immunoglobulin $G$ titer in a single, recently obtained serum sample does not definitively establish the occurrence of a hantavirus infection at the time of illness, the serologic data and the clinical illness are strongly suggestive of hantavirus infection.
Reported by: F Koster, MD, H Levy, MD, G Mertz, MD, A Cushing, MD, 5 Young, PhD, K Foucar, MD, J McLaughlin, PhD, B Bryt, MD, Univ of New Mexico School of Medicine, T Merlin, MD, Lovelace Medical Center, Albuquerque; R Zumwalt, MD, P McFeeley, MD, K Nolte, MD, New Mexico Office of the Medical Investigator; MJ Burkhardt, MPH, Secretary of Health, N Kalishman, MD, M Gallaher, MD, $R$ Voorhees, MD, M Samuel, DrPH, M Tanuz, G Simpson, MD, L Hughes, PhD, E Umland, MD, G Oty, MS, L Nims, MS, CM Sewell, DrPH, State Epidemiologist, New Mexico Dept of Health. R Levinson, MD, F Yerger, MD, B Allan, MD, Scottsdale; P Rubin, Phoenix; K Komatsu, MPH, C Kioski, MPH, K Fleming, MA, J Doll, PhD, C Levy, MS, TM Fink, P Murphy, B England, MD, M Smolinski, MD, B Erickson, PhD, W Slanta, L Sands, DO, Acting State Epidemiologist, Arizona Dept of Health Svcs. P Shillam, MSPH, RE Hoffman, MD, State Epidemiologist, Colorado Dept of Health. S Lanser, MPH, CR Nichols, MPA, State Epidemiologist, Utah Dept of Health. L Hubbard-Pourier, MPH, Div of Health, Navajo Natòn, Window Rock, Arizona. J Cheek, MD, A Craig, MD, R Haskins, MPH, B Muneta, MD, B Tempest, MD, M Carroll, MD, LA Shands, MPH, J P Sarisky, MPH, RE Turner, L White, P Bohan, MS, Indian Health Svc. Div of Field Epidemiology, Epidemiology Program Office; National Center for Environmental Health; Div of Bacterial and Mycotic Diseases, Div of Vector-Borne Infectious Diseases, Scientific Resources Program, and Div of Viral and Rickettsial Diseases, National Center forInfectious Diseases, CDC.
Editorial Note: The identification of two persons with evidence of hantavirus infection that occurred in 1992 suggests that hantavirus infection has been present previously but was not recognized. Investigations are now in progress to identify whether changes in the local environment or other factors have been associated with the increased occurrence and/or transmission of this infection. Preliminary data from field investigations indicate that $P$. maniculatus is the likely reservoir of this virus. Alth ough the exact mechanism of hantavirus transmission to humans is unknown, potentially hazardous exposures include direct aerosolization of urine and other potentially infective rodent body fluids, secondary aerosolization of dried rodent excreta, contamination of food, and direct contact with virus-bearing rodents or their excreta or saliva.

Additional studies are under way to identify practical and effective means of preventing infection caused by hantaviruses. Residents and travelers in New Mexico, Arizona, Colorado, and Utah are advised to avoid any activities that may result in contact with wild rodents or rodent excreta or disruption of rodent burrows. The following specific recommendations for residents and travelers are based on current knowledge of transmission of other hantaviruses: 1) avoid activities that can result in contact with wild rodents, disruption of rodent burrows, or aerosolization of dried rodent excreta; 2) store food appropriately to avoid contamination with rodents and rodent excreta; and 3) dispose of food and trash properly to avoid attracting rodents.

[^8]Surveillance Summaries

## Publication of CDC Surveillance Summaries

Since 1983, CDC has published the CDC Surveillance Summaries under separate cover as part of the MMWR series. Each report published in the CDC Surveillance Summaries focuses on public health surveillance; surveillance findings are reported for a broad range of risk factors and health conditions.

Summaries for each of the reports published in the most recent (J une 4, 1993) issue of the CDC Surveillance Summaries (1) are provided below. All subscribers to MMWR receive the CDC Surveillance Summaries, as well as the MMWR Recommendations and Reports, as part of their subscriptions.

## SURVEILLANCE FOR DIABETES MELLTTUS — UNTTED STATES, 1980-1989

Problem/Condition: In 1989, approximately 6.7 million persons reported that they had diabetes, and a similar number probably had this disabling chronic disease without being aware of it. Diabetes mellitus is the most important cause of lower extremity amputation and end-stage renal disease, the major cause of blindness among working-age adults, a major cause of disability, premature mortality, congenital malformations, perinatal mortality, and health-care costs, and an important risk factor for the development of many other acute and chronic conditions (e.g., diabetic ketoacidosis, ischemic heart disease, and stroke). Surveillance data describing diabetes and its complications are critical to increasing recognition of the public health burden of diabetes, formulating health-care policy, identifying high-risk groups, developing strategies to reduce the burden of this disease, and evaluating progress in disease prevention and control.

Reporting Period Covered: This report summarizes data from CDC's diabetes surveillance system, evaluating trends in diabetes and its complications by age, sex, and race for the years 1980-1989 (end year depending on data source).

Description of System: CDC has established an ongoing and evolving surveillance system to analyze and compile periodic, representative data on the disease burden of diabetes and its complications in the United States. Data sources currently include vital statistics, the National Health Interview Survey, the National Hospital Discharge Survey, and Medicare claims data for end-stage renal disease.

Results and Interpretation: These surveillance data indicate that the disease burden of diabetes and its complications is likely to grow as the population ages, that effective intervention strategies are needed to prevent diabetes and its complications, that prevention efforts need to be intensified among groups at highest risk, including blacks, and that important gaps exist in periodic and representative data for describing the burden of diabetes and its complications.

Actions Taken: CDC is currently exploring possible data sources to address the surveillance data gaps on blindness, adverse outcomes of pregnancy, and the public health burden of diabetes among minority groups.
Authors: Linda S. Geiss, M.A., William H. Herman, M.D., Merilyn G. Goldschmid, M.D., Frank DeStefano, M.D., M.P.H., Division of Diabetes Translation, National Center for Chronic Disease Prevention and Health Promotion, CDC. Mark S. Eberhardt, Ph.D., Office of Analysis and Epidemiology, National Center for Health Statistics, CDC. Earl S. Ford, M.D., M.P.H., Robert R. German, M.P.H., J effrey M. Newman, M.D., M.P.H., David R. Olson, Ph.D., Stephen J. Sepe,

Surveillance Summaries - Continued
M.P.H., J ohn M. Stevenson, Ph.D., Frank Vinicor, M.D., M.P.H., Scott F. Wetterhall, M.D., M.P.H., J ulie C. Will, Ph.D., Division of Diabetes Tanslation, National Center for Chronic Disease Prevention and Health Promotion, CDC.

## LABORATORY-BASED SURVEILLANCE FOR MENINGOCOCCAL DISEASE IN SELECTED COUNTIES - UNITED STATES, 1989-1991

Problem/Condition: Neisseria meningitidis is a leading cause of bacterial meningitis and septicemia in the United States. Accurate surveillance for meningococcal disease is required to detect trends in patient characteristics, antibiotic resistance, and serogroup-specific incidence of disease.

Reporting Period Covered: J anuary 1989 through December 1991.
Description of System: A case of meningococcal disease was defined by the isolation of Neisseria meningitidis from a normally sterile site, such as blood or cerebrospinal fluid, in a resident of a surveillance area. Cases were reported by contacts in each hospital laboratory in the surveillance areas. The surveillance areas consisted of three counties in the San Francisco metropolitan area, eight counties in the Atlanta metropolitan area, four counties in Tennessee, and the entire state of Oklahoma.

Results: Age- and race-adjusted projections of the U.S. population suggest that approximately 2600 cases of meningococcal disease occurred annually in the United States. The case-fatality rate was 12\%. Incidence declined from 1.3 per 100,000 in 1989 to 0.9 per 100,000 in 1991. Seasonal variation occurred, with the highest attack rates in February and March and the lowest in September. The highest rates of disease were among infants, with $46 \%$ of cases in those $\leq 2$ years of age. Males accounted for $55 \%$ of total cases, with an incidence among males of 1.2 per 100,000, compared with 1.0 per 100,000 among females (relative risk [RR]=1.3, 95\% confidence interval [CI]=1.0-1.6). The incidence was significantly higher among blacks ( 1.5 per 100,000) than whites ( 1.1 per 100,000), with a relative risk of disease for blacks of 1.4 ( $95 \% \mathrm{Cl}=1.1-1.8$ ). Serogroup B caused $46 \%$ of cases and serogroup C, $45 \%$. Thirty-eight percent of isolates were reported to be resistant to sulfa; none were reported to be resistant to rifampin.

Interpretation: The decline in incidence of meningococcal disease from 1989 to 1991 cannot be explained by any change in public health control measures; this trend should be monitored by continued surveillance. The age, sex, and race distribution and seasonality of cases are consistent with previous reports. The proportion of $N$. meningitidis isolates resistant to sulfa continues to be substantial. A relatively small proportion of cases is potentially preventable by the use of the currently available polysaccharide vaccine, which induces protection against serogroups A, C, Y, and W135 and is effective only for persons >2 years of age.

Actions Taken: Current recommendations against the use of sulfa drugs for treatment or prophylaxis of meningococcal disease unless the organism is known to be sulfa sensitive should be continued. Since resistance to rifampin is rarely reported, it continues to be the drug of choice for prophylaxis. The development of vaccines effective for infants and vaccines inducing protection against serogroup $B$ would be expected to have a substantial impact on disease.
Authors: Lisa A. J ackson, M.D., J ay D. Wenger, M.D., Meningitis and Special Pathogens Branch, Division of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, CDC. The Meningococcal Disease Study Group.

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## Change in Source of Information: Availability of Varicella Vaccine for Children with Acute Lymphocytic Leukemia

An investigational, live, attenuated varicella vaccine continues to be available free of charge through Merck Research Laboratories (West Point, Pennsylvania) to any physician requesting it for certain pediatric patients (aged 12 months-17 years) with acute lymphocytic leukemia (ALL) (1). However, the source of information about eligibility criteria and vaccine administration has changed (1) and is now available from the Varivax Coordinating Center, Bio-Pharm Clinical Services, Inc., 4 Valley Square, Blue Bell, PA 19422; telephone (215) 283-0897.

An Investigational New Drug application for the vaccine is on file with the Food and Drug Administration. Varicella vaccine is being provided to this group of patients for use through a study protocol to monitor and evaluate safety. Patients must meet specified criteria, including no clinical history of varicella and continuous remission for at least 12 months. The physician must provide information outlined in the protocol, and the protocol and consent form for the study must be approved by the institution's Investigational Review Board.
Reported by: National Immunization Program, CDC.

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Reported cases of measles, by state - United States, weeks 21-25, 1993


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

The data in the weekly MMWR are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday. Inquiries about the MMWR Series, including material to be considered for publication, should be directed to: Editor, MMWR Series, Mailstop C-08, Centers for Disease Control and Prevention, Atlanta, GA 30333; telephone (404) 332-4555.

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Writers-Editors, MMWR (weekly)
David C. J ohnson
Patricia A. McGee
Darlene D. Rumph
Caran R. Wilbanks


[^0]:    *In determining death rates by race/ethnicity, data were excluded from four states (Connecticut, Louisiana, New Hampshire, and Oklahoma) because information concerning Hispanic ethnicity was available for less than $85 \%$ of deaths. The criteria used in this report for determining which states were excluded from analysis of mortality data by Hispanic ethnicity differ somewhat from those used by CDC's National Center for Health Statistics; therefore, numbers of deaths in Table 3 differ from those published in Table 17 of reference 3.

[^1]:    *Based on the proportion of deaths from each of the cause categories used by CDC'sNational Center for Health Statistics to rank the 15 leading causes of death (3). The rank could not be determined for 1991 because provisional sex- and age-specific data on deaths from other causes were unavailable for comparison.
    †Data for 1991 are provisional; data for earlier years are final.
    §Percentage of deaths caused by HIV infection among total deaths in the age and sex group.
    ${ }^{9}$ Deaths caused by HIV infection per 100,000 population.

[^2]:    *Per 100,000 population.
    ${ }^{\dagger}$ National vital statistics based on underlying cause of death, using final data for 1982-1990 and provisional data for HIV infection for 1991.

[^3]:    *Based on the proportion of deaths from each of the cause categories used by CDC's National Center for Health Statistics to rank the 15 leading causes of death.
    $\dagger$ Percentage of deaths caused by HIV infection among total deaths in the age, sex, and racial/ethnic group.
    § Deaths caused by HIV infection per 100,000 population, excluding data from four states (Connecticut, Louisiana, New Hampshire, and Oklahoma) because information concerning Hispanic ethnicity wasavailable for less than $85 \%$ of deaths. The criteria used in this report for determining which states were excluded from analysis of mortality data by Hispanic ethnicity differ somewhat from those used by CDC's National Center for Health Statistics; therefore, numbers of deaths differ from those published in Table 17 of reference 3 . Death rates could not be determined by national origin for Hispanics, because information on national origin was available for less than $85 \%$ of their deaths in 28 states and age-specific population data were unavailable by national origin.

[^4]:    *Based on surveillance data submitted to the EPI; because 1992 figures are povisional, 1991 data were used for global and regional diseaseincidence.
    ${ }^{\dagger}$ The difference between the number of countries reporting poliomyelitis cases or zero cases and the total number of countries reflects those not submitting reports.

[^5]:    *Percentage of children who have received at least three doses of oral poliovirus vaccine by age 1 year.

[^6]:    *Updated monthly; last update J une 5, 1993.
    ${ }^{\dagger}$ Of 573 cases of known age, 191 ( $33 \%$ ) were reported among children less than 5 years of age.
    ${ }^{\S}$ No cases of suspected poliomyelitis have been reported in 1993; 4 cases of suspected poliomyelitis were reported in 1992; 6 of the 9 suspected cases with onset in 1991 were confirmed; the confirmed cases were vaccine associated.

[^7]:    § In April 1993, Canada reported isolation of wild poliovirus type 3 from asymptomatic members of a religious group that objects to vaccination. This virus was likely imported because it was identical to a wild poliovirus type 3 that caused an outbreak among persons of a eligious community objecting to vaccination in the Netherlands in 1992-1993 (2).

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