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Surveillance - United States, 1987 Update: Acquired Immunodeficiency Syndrome (AIDS) - Worldwide

## MORBIDITY AND MORTALITY WEEKLY REPORT

Acute Traumatic Spinal Cord Injury Surveillance United States, 1987

In 1987, the Council of State and Territorial Epidemiologists (CSTE) recommended designating traumatic spinal cord injuries (SCls) as the first injury condition reportable to state health agencies and to CDC. In that same year, two surveys were conducted to identify existing registries for SCls in the United States. One survey, which was conducted by the Spinal Cord Injury Program in Florida, used a computerbased information exchange system to gather information from vocational rehabilitation agencies. Agencies in $\mathbf{8 2 \%}$ ( $\mathbf{4 2}$ of 51) of the states and the District of Columbia replied. The second, a telephone survey, was conducted independently by the National Spinal Cord Injury Association (NSCIA).* State health departments in all 50 states ${ }^{\dagger}$ were contacted.

Each survey identified eight states as having SCl registries; however, the results of the surveys differed. These results and information obtained by personal communication indicate that the following 14 states have registries for traumatic SCI: Alabama, Arkansas, Colorado, Florida, Georgia, lowa, Louisiana, Maryland, Missouri, Oklahoma, New Jersey, North Dakota, Virginia, and West Virginia. In ten states, reporting is mandated by law; it is voluntary in the remaining four states. In most states, SCl data are collected to aid in planning for rehabilitative services.
Reported by: the Spinal Cord Injury Program, Div of Vocational Rehabilitation, Dept of Labor and Employment Security, Tallahassee, Florida. J Spack, JD, National Spinal Cord Injury Assoc, Woburn, Massachusetts. GR Istre, MD, State Epidemiologist, Oklahoma State Dept of Health. Div of Injury Epidemiology and Control, Center for Environmental Health and Injury Control, CDC.
Editorial Note: CSTE's recommendation to designate SCls as reportable was based on the magnitude of the morbidity and mortality due to traumatic SCls, the cost associated with these injuries, and the potential for their prevention. It is a practical choice because the number of cases is manageable and consensus can be reached on the case definition.

Estimates of the incidence of acute traumatic SCI in the United States range between 28 and 50 injuries per million persons per year (1). At present, there are over 200,000 cases of SCl in the United States (2 ). Older adolescent and young adult males are at high risk for SCI. The consequences of injury for persons in these age groups include reduced lifetime employment, limited productivity, and decreased quality of life. Injured individuals may also need special services throughout life (1). The direct medical costs of these injuries to the federal government exceed $\$ 4$ billion per

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year (3). Lost earnings associated with SCI are estimated to be $\$ 3.4$ billion (in 1987 dollars) annually (Department of Rehabilitation Medicine, University of Alabama/ Birmingham, unpublished data).

Surveillance is needed to better define the national incidence of acute traumatic SCl , to identify high-risk groups in order to target prevention strategies, and to determine etiologies so that prevention programs can be developed. The data presently collected by SCI registries may be useful in targeting high-risk groups and determining etiologies. However, case definitions, reporting sources, and level of information collected vary among registries.

CDC is working with CSTE and other interested groups to 1) review existing surveillance systems and registries for acute traumatic SCI, 2) determine the information needs of public health and clinical practice, 3) develop a workable case definition, 4) determine the information to be collected, and 5) identify reporting sources. SCI is one of the disabilities targeted for support by CDC's disabilities prevention program. This program will provide state and local agencies with funding to prevent primary and secondary disabilities such as those caused by acute traumatic SCls.

The public health benefit of registries at the local level can be realized only if the information collected is useful to those planning intervention strategies. The implementation of these strategies may involve the participation of many agencies within the state or local government, along with private interest groups. Registries will be useful at the national level only if a standard case definition is used and if information is collected, analyzed, and interpreted consistently and systematically.

## References

1. Kraus JF. Epidemiological aspects of acute spinal cord injury: a review of incidence, prevalence, causes, and outcome. In: Becker DP, Povlishock JT, eds. Central nervous system trauma status report-1985. Bethesda, Maryland: National Institute of Neurological and Communicative Disorders and Stroke, National Institutes of Health, 1985:313-22.
2. DeVivo MJ, Fine PR, Maetz HM, Stover SL. Prevalence of spinal cord injury: a reestimation employing life table techniques. Arch Neurol 1980;37:707-8.
3. Ergas Z. Spinal cord injury in the United States: a statistical update. Cent Nerv Syst Trauma 1985;2:31-2.

## Update: Acquired Immunodeficiency Syndrome (AIDS) - Worldwide

As of March 21, 1988, 136 countries or territories throughout the world had reported a total of 84,256 cases of acquired immunodeficiency syndrome (AIDS) to the Global Programme on AIDS (GPA) (formerly the Special Programme on AIDS) of the World Health Organization (WHO) (Table 1).* Thirty-seven countries or territories had reported no AIDS cases. Reports are based on either the CDCMHO surveillance definition (1,2), the WHO clinical definition (3), or a physician's diagnosis. From 1979 through March 21, 1988, the number of AIDS cases increased markedly in all geographic regions (Figure 1). The cumulative world total increased from 11,965 in 1984 to 25,150 in 1985 (a $110 \%$ increase) and to 48,413 in 1986 (a $92 \%$ increase). Because of reporting lags, the global total of AIDS cases reported for 1987 is not yet complete; however, as of March 21, 1988, 34,913 cases had been reported for 1987

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(a $72 \%$ increase). Data on the distribution of AIDS cases by region are presented below, followed by a discussion of the findings.

## Americas

Forty-two countries in the Americas have reported 73\% of the world total of AIDS cases. As of March 21, 1988, the United States had reported a total of 54,233 cases. The case count in Brazil was 2,325; the number had increased from 801 at the end of June 1986 to 1,695 at the end of June 1987. Canada has reported a total of 1,517 cases. The following additional countries reported over 100 cases: Haiti (912), Mexico (713), Dominican Republic (352), Trinidad and Tobago (206), Bahamas (163), Colombia (153), Argentina (120), and Venezuela (101).

## Europe

Twenty-eight countries in Europe have reported 13\% of the world's total AIDS cases. Between December 1986 and December 1987, the number of cases reported from Europe to the WHO Collaborating Centre on AIDS (4) in Paris, France, increased by $124 \%$. The greatest number of cases has been reported from France $(3,073)$, the Federal Republic of Germany (1,669), Italy (1,411), the United Kingdom (1,227),

TABLE 1. AIDS cases reported to the World Health Organization (WHO), by continent, 1979 - March 21, 1988

|  |  | Number of Countries or <br> Territories Reporting |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Continent | Number <br> of Cases | No Cases | 1 or More <br> Cases | Total Number of <br> Countries Reporting |
| Africa | 10,973 | 8 | 42 | 50 |
| Americas | 61,602 | 2 | 42 | 44 |
| Asia | 231 | 16 | 21 | 37 |
| Europe | 10,616 | 1 | 27 | 28 |
| Oceania | 834 | 10 | 4 | 14 |
| Total | 84,256 | 37 | 136 | 173 |

FIGURE 1. Total AIDS cases reported to the World Health Organization, 1979 March 21, 1988


## AIDS - Continued

and Spain (789). The highest rates per population size are in France, Switzerland, and Denmark. Four countries with over 100 cases (Austria, France, Italy, and Spain) reported increases of more than 100\% between December 1986 and December 1987. The lowest rates were reported from the Eastern European countries.

Ninety-two percent of patients reported from Europe were European; 4\% were African; $1 \%$ were from the Caribbean; and $3 \%$ were from other countries (4). The relative percentage of patients who have been reported from Europe but whose country of origin is Africa has been decreasing over the past 2 years. ${ }^{\dagger}$

The age distribution of patients in Europe (Table 2, see page 293) is similar to that in the United States except that Europe has a higher percentage of patients under 19 years of age ( $3 \%$ compared with $2 \%$ ). Europe has a lower percentage of adult patients in the homosexual and homosexual/intravenous-drug-user transmission categories ${ }^{\top}$ Such patients accounted for $12 \%$ of cases reported for Europe in June 1985, 6\% in June 1986, and 4\% in December 1987.
(Continued on page 293)
TABLE I. Summary - cases of specified notifiable diseases, United States

| Disease | 18th Week Ending |  |  | Cumulative, 18th Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { May 7, } \\ 1988 \end{gathered}$ | $\begin{gathered} \hline \text { May 9, } \\ 1987 \end{gathered}$ | $\begin{gathered} \text { Median } \\ \text { 1983-1987 } \end{gathered}$ | $\begin{gathered} \hline \text { May 7, } \\ 1988 \end{gathered}$ | $\begin{aligned} & \hline \text { May 9, } \\ & 1987 \end{aligned}$ | Median 1983-1987 |
| Acquired Immunodeficiency Syndrome (AIDS) | 638 | U* | 90 | 10,591 | 6,619 | 2,289 |
| Aseptic meningitis | 71 | 89 | 75 | 1,290 | 1,599 | 1,440 |
| Encephalitis: Primary (arthropod-borne \& unspec) | 14 | 20 | 20 | 213 | - 296 | 1,496 |
| Post-infectious | 5 | 1 | 2 | 32 | 26 | ${ }^{296}$ |
| Gonorrhea: Civilian | 10,112 | 12,900 | 14,518 | 228,113 | 276,918 | 284,089 |
| Military | 137 | 391 | 384 | 4,220 | 5,994 | 6,905 |
| Hepatitis: Type A | 432 | 461 | 370 | 8,243 | 8,614 | 7,656 |
| Type B | 343 | 447 | 464 | 7,019 | 8,690 | 8,475 |
| Non A, Non B | 48 | 57 | 72 | 840 | 1,086 | 1,180 |
| Unspecified | 42 | 56 | 105 | 744 | 1,140 | 1,705 |
| Legionellosis | 23 | 14 | 13 | 245 | 283 | 219 |
| Leprosy | 5 | $11^{\circ}$ | 7 | 64 | 73 | 97 |
| Malaria ${ }^{\text {a }}{ }^{+}$ | 11 | 11 | 17 | 222 | 241 | 246 |
| Measles: Total ${ }^{\dagger}$ | 142 | 187 | 106 | 903 | 1,464 | 1,129 |
| Indigenous | 141 | 178 | 99 | 813 | 1,275 | 1,004 |
| Imported | 17 | 9 | 15 | 90 | 189 | 125 |
| Meningococcal infections | 77 | 42 | 56 | 1,265 | 1,329 | 1,209 |
| Mumps | 108 | 451 | 91 | 1,848 | 6,949 | 1,445 |
| Pertussis | 24 | 13 | 40 | 736 | 590 | 618 |
| Rubella (German measles) | 3 | 12 | 18 | 72 | 118 | 177 |
| Syphilis (Primary \& Secondary): Civilian | 583 | 544 | 544 | 12,874 | 11,496 | 9,819 |
| Military | 4 | 1 | 3 | 68 | 68 | 79 |
| Toxic Shock syndrome | ${ }^{6}$ | 375 | 4 | 99 | 108 | 140 |
| Tuberculosis | 418 | 375 | 417 | 6,291 | 6,790 | 6,790 |
| Tularemia | 1 | 2 | 3 | 31 | 38 | 33 |
| Typhoid Fever | 15 | 10 | 10 | 123 | 100 | 101 |
| Typhus fever, tick-borne (RMSF) | 3 | 11 | 15 | 25 | 32 | 49 |
| Rabies, animal | 104 | 119 | 119 | 1,374 | 1,710 | 1,710 |

TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1988 |  | Cum. 1988 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | Leptospirosis (Hawaii 1) | 10 |
| Botulism: Foodborne | 4 | Plague | 1 |
| Infant (Utah 2) | 14 | Poliomyelitis, Paralytic | . |
| Other | 2 | Psittacosis (Wash. 2) | 26 |
| Brucellosis (Calif. 1) | 18 | Rabies, human | ${ }^{26}$ |
| Cholera | - | Tetanus (N.J. 1, Ala. 1) | 15 |
| Congenital rubella syndrome (N.C. 1) | 2 | Trichinosis (Mich. 2) | 8 |
| Congenital syphilis, ages < 1 year | - |  |  |

[^2]TABLE III. Cases of specified notifiable diseases, United States, weeks ending May 7, 1988 and May 9, 1987 (18th Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | Cum. 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1987 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ |
| UNITED STATES | 10,591 | 1,290 | 213 | 32 | 228,113 | 276,918 | 8,243 | 7,019 | 840 | 744 | 245 | 64 |
| NEW ENGLAND | 380 | 61 | 10 | - | 6,983 | 9,365 | 302 | 448 | 74 | 38 | 11 | 10 |
| Maine | 14 | 5 | 1 | - | 157 | 282 | 13 | 21 | 3 | 1 | 1 | - |
| N.H. | 9 | 10 | - | - | 104 | 158 | 25 | 19 | 4 | 3 | 1 | - |
| Vt. | 3 | 3 | 3 | - | 58 | 68 | 4 | 14 | 5 | - | - | - |
| Mass. | 203 | 25 | 5 | - | 2,510 | 3,478 | 162 | 280 | 50 | 29 | 7 | 9 |
| R.I. | 21 | 14 | - | - | 625 | 753 | 42 | 50 | 8 | - | 2 | 1 |
| Conn. | 130 | 4 | 1 | - | 3,529 | 4,626 | 56 | 64 | 4 | 5 | - | - |
| MID. ATLANTIC | 3,674 | 156 | 26 | - | 34,889 | 43,701 | 483 | 903 | 55 | 74 | 52 | 6 |
| Upstate N.Y. | 545 | 83 | 16 | - | 4,659 | 5,718 | 308 | 255 | 30 | 8 | 30 |  |
| N.Y. City | 2,096 | 26 | 5 | - | 15,000 | 23,162 | 78 | 412 | 4 | 51 | 3 | 5 |
| N.J. | 755 | 47 | 5 | - | 5,079 | 5,494 | 97 | 236 | 21 | 15 | - | 1 |
| Pa. | 278 | . | - | - | 10,151 | 9,327 | - | - | . |  | 19 | - |
| E.N. CENTRAL | 794 | 164 | 38 | 2 | 36,295 | 40,153 | 424 | 701 | 43 | 43 | 66 | - |
| Ohio | 181 | 64 | 17 | 2 | 8,971 | 8,530 | 124 | 194 | 15 | 7 | 24 | - |
| Ind. | 62 | 27 | 5 | - | 2,930 | 3,304 | 51 | 113 | 4 | 15 | 5 | - |
| III. | 385 | 4 | - | - | 10,439 | 12,251 | 41 | 43 | $\cdots$ | 3 | - | - |
| Mich. | 134 | 61 | 11 | - | 11,383 | 12,498 | 147 | 272 | 17 | 18 | 28 | - |
| Wis. | 32 | 8 | 5 | - | 2,572 | 3,570 | 61 | 79 | 7 | - | 9 | - |
| W.N. CENTRAL | 223 | 64 | 14 | 3 | 9,194 | 11,070 | 498 | 352 | 38 | 12 | 21 | - |
| Minn. | 42 | 13 | 2 | - | 1,245 | 1,840 | 24 | 49 | 5 | 3 | - | - |
| lowa | 12 | 12 | 7 | - | 680 | 1,054 | 29 | 34 | 7 | - | 6 | . |
| Mo. | 113 | 19 | - | - | 5,185 | 5,554 | 270 | 210 | 19 | 6 | 2 | - |
| N. Dak. | - |  | - | - | 51 | 126 | 2 | 2 | 1 | 1 | 1 | - |
| S. Dak. | 3 | 5 | - | 1 | 188 | 220 | - | 1 | 2 | - | 7 | - |
| Nebr. | 16 | 3 | 1 | 2 | 537 | 660 | 17 | 18 | - | - | 3 | - |
| Kans. | 37 | 12 | 4 | - | 1,308 | 1,616 | 156 | 38 | 4 | 2 | 2 | - |
| S. ATLANTIC | 1,688 | 296 | 29 | 11 | 65,327 | 72,676 | 689 | 1,441 | 110 | 116 | 46 | 1 |
| Del. | 16 | 8 | 2 | - | 926 | 1,081 | 12 | 42 | 4 | 1 | 4 | - |
| Md. | 181 | 32 | 3 | 2 | 6,778 | 8,302 | 92 | 228 | 8 | 4 | 8 | 1 |
| D.C. | 169 | 8 | - | - | 4,491 | 4,916 | 6 | 17 | 3 | 1 | - | - |
| Va . | 126 | 32 | 13 | 2 | 4,522 | 5,512 | 135 | 97 | 23 | 79 | 5 | - |
| W. Va. | 5 | 7 | 1 | - | 527 | 547 | 5 | 25 | 2 | 3 | - | - |
| N.C. | 93 | 49 | 7 | - | 10,123 | 10,968 | 141 | 252 | 29 | - | 14 | - |
| S.C. | 60 | 4 | - | - | 4,870 | 5,994 | 19 | 210 | 5 | 3 | 5 | - |
| Ga. | 241 | 34 | 1 | 7 | 12,836 | 12,358 | 120 | 236 | 6 | 2 | 4 | - |
| Fla. | 797 | 122 | 2 | 7 | 20,254 | 22,998 | 159 | 334 | 30 | 23 | 6 | - |
| E.S. CENTRAL | 290 | 87 | 19 | 5 | 17,432 | 20,273 | 332 | 449 | 61 | 6 | 8 | 1 |
| Ky. | 35 | 31 | 5 | 1 | 1,481 | 2,055 | 295 | 86 | 27 | 2 | 4 | - |
| Tenn. | 144 | 10 | 5 | , | 5,861 | 6,974 | 24 | 218 | 16 | - | 2 | - |
| Ala. | 70 | 36 | 9 | 2 | 5,699 | 6,590 | 4 | 119 | 16 | 4 | 2 | 1 |
| Miss. | 41 | 10 | - | 2 | 4,391 | 4,654 | 9 | 26 | 2 | - | - | - |
| W.S. CENTRAL | 858 | 118 | 14 | 1 | 25,538 | 31,493 | 824 | 497 | 64 | 177 | 9 | 10 |
| Ark. | 32 | 3 | 2 | - | 2,351 | 3,119 | 108 | 32 | 1 | 4 | 2 | . |
| La. | 140 | 19 | 1 | 1 | 5,337 | 5,780 | 51 | 123 | 11 | 7 | 3 | - |
| Okla. | 35 | 11 | 4 | - | 2,358 | 3,409 | 209 | 69 | 17 | 16 | 4 | 0 |
| Tex. | 651 | 85 | 7 | - | 15,492 | 19,185 | 456 | 273 | 35 | 150 | - | 10 |
| MOUNTAIN | 371 | 54 | 17 | 1 | 4,764 | 7,319 | 1,174 | 561 | 85 | 81 | 14 | - |
| Mont. | 5 | 2 | - | - | 142 | 177 | 19 | 21 | 4 | 3 | - | - |
| Idaho | 3 | 1 | - | - | 139 | 255 | 57 | 34 | 2 | 1 | 1 | - |
| Wyo. | 1 | 1 | - | - | 73 | 138 | 1 | 4 | 3 | $\cdots$ | 1 | - |
| Colo. | 140 | 19 | 2 | - | 1,068 | 1,552 | 78 | 74 | 13 | 37 | 4 | . |
| N. Mex. | 19 | 1 | 1 | - | , 470 | 794 | 209 | 72 | 4 | 1 | 1 | - |
| Ariz. | 129 | 17 | 5 | - | 1,665 | 2,637 | 609 | 236 | 36 | 24 | 5 | - |
| Utah | 25 | 7 | 4 | 1 | 227 | 237 | 126 | 43 | 17 | 11 | 2 | - |
| Nev. | 49 | 6 | 5 |  | 980 | 1,529 | 75 | 77 | 6 | 4 | 1 | - |
| PACIFIC | 2,313 | 290 | $46$ | 9 | 27,691 | 40,868 | 3,517 | 1,667 | 310 | 197 | 18 | 36 |
| Wash. | 108 |  | 2 | 4 | 2,137 | 3,024 | 762 | 221 | 52 | 19 | 6 | 2 |
| Oreg. | 71 | - | - | 5 | 1,003 | 1,549 | 624 | 229 | 32 | 8 | - | - |
| Calif. | 2,089 | 257 | 42 | 5 | 23,900 | 35,280 | 2,021 | 1,170 | 222 | 166 | 10 | 33 |
| Alaska | 7 | 7 | 1 | - | 396 | 659 | 106 | 32 | 3 | 3 | - | 1 |
| Hawaii | 38 | 26 | 1 | - | 255 | 356 | 4 | 15 | 1 | 1 | 2 | - |
| Guam | - | - | - | - | 35 | 70 | 2 | 3 | $\stackrel{-}{-}$ | 2 | - | 3 |
| P.R. | 496 | 10 | 2 | - | 512 | 794 | 9 | 91 | 18 | 15 | - |  |
| V.I. | 9 | - | - | - | 142 | 82 | 1 | 3 | - | - | - | - |
| Amer. Samoa | - | . | - | - |  | 192 | - | - | - | . | - | . |
| C.N.M.I. | - | - | - | - | 13 | 37 | - | 1 | - | - | - | - |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending May 7, 1988 and May 9, 1987 (18th Week)

| Reporting Areo | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported* |  | $\begin{aligned} & \hline \text { Total } \\ & \hline \text { Cum. } \\ & \hline 1987 \\ & \hline \end{aligned}$ |  |  |  |  |  |  |  |  |  |
|  | $\begin{array}{cc} \text { Cum. } \\ \hline 1988 \end{array}$ | 1888 | Cum. 1988 | 1988 | Cum. 1988 |  | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | 1988 | Cum. 1988 | 1888 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & \hline 1987 \end{aligned}$ | 1988 | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1987 \end{aligned}$ |
| UNITED STATES | 222 | 141 | 813 | 1 | 90 | 1,464 | 1,265 | 108 | 1,848 | 24 | 736 | 590 | 3 | 72 | 118 |
| NEW ENGLAND | 19 | - | 2 | - | 44 | 113 | 109 | 1 | 24 | . | 77 | 16 | . | 1 | - |
| Maine | 2 | - | - | - | - | 3 | $3$ | . | 0 | - | 11 | - | - | 1 | . |
| N.H. | - | - | 1 | - | 43 | 92 | 13 | 1 | 20 | - | 22 | 2 | - | - | - |
| Mass. | 12 | - | 1 | - | - | 9 5 | 5 45 | 1 | 1 | - | 1 33 | 3 | - | - | - |
| R.I. | 3 | - | 1 | - | - | 5 | 19 | - | 3 | - | 33 | 4 | - | 1 | - |
| Conn. | 2 | - | . | - | 1 | 4 | 24 | - | - | - | 9 | 7 | - | 1 | - |
| MID. ATLANTIC | 29 | 38 | 230 | 1 | 3 | 184 | 121 | 6 | 177 | 2 | 24 | 82 | - | 7 | 5 |
| Upstate N.Y. | 13 | 1 | 2 | 1 | 2 | 17 | 58 | 5 | 39 | 2 | 10 | 65 | - | 1 | 3 |
| N.Y. City | 8 | 2 | 23 | - | - | 124 | 18 | 1 | 60 | 2 | 1 | - | - | 4 | 1 |
| N.J. | 5 | 10 | 12 | $1 \dagger$ | 1 | 8 | 45 | , | 22 | - | 3 | 4 | - | 1 | 1 |
| Pa. | 2 | 25 | 193 | - | - | 35 |  | - | 68 | - | 10 | 13 | - | 1 | . |
| E.N. CENTRAL | 10 | 2 | 51 | - | 4 | 205 | 127 | 19 | 438 | 5 | 80 | 80 | - | 20 | 18 |
| Ohio | 1 | - | - | - | 3 | 5 | 49 | 14 | 63 | 3 | 19 | 25 | - |  |  |
| Ind. | - |  | $\stackrel{\square}{\circ}$ | - |  |  | 12 | 1 | 39 |  | 38 | 1 | - | $\stackrel{-}{0}$ | 7 |
| III. | 8 | 2 | 38 | - | - | 81 | 4 | . | 141 | - | 2 | 5 | - | 16 | 17 |
| Mich. | 8 | - | 12 | - | 1 | 23 | 44 | 4 | 133 | 2 | 16 | 24 | - | 4 | 1 |
| Wis. | 1 | - | - | - | . | 88 | 18 | 4 | 62 | 2 | 5 | 25 | - | . | - |
| W.N. CENTRAL | 6 | 1 | 1 | - | - | 41 | 52 | 11 | 97 | - | 35 | 35 | - | - | 1 |
| Minn. | 2 | - | . | - | - | 4 | 13 | 1 | 0 | . | 5 | 7 | - | - | - |
| Jowa | 3 | - | - | - | - | $\bigcirc$ | - | - | 25 | - | 14 | 3 | - | - | 1 |
|  | 3 | - | - | - | - | 35 | 19 | 3 | 25 | - | 5 | 13 | - | - | - |
| N. Dakk. S. Dak. | - | - | - | - | - | 1 | - | - | - | - | 6 | 2 | - | - | - |
| Nebr. | - | - | - | - | - | - | 1 | - | - | - | 2 | 2 | - | - |  |
| Nebr. | 1 | 1 | 1 | - | - | - | 6 | - | 11 | - | - | - | - | - |  |
|  | 1 | 1 | 1 | - | - | 1 | 13 | 8 | 36 | - | 3 | 8 | - | - |  |
| S. ATLANTIC | 30 | 23 | 174 | - | 10 | 47 | 216 | 2 | 168 | 5 | 65 | 123 | - | 1 | 9 |
| Dol. | 2 | 1 | - | - | - | 1 | 1 | 2 | 16 | 5 | 3 | 12 | - | - | 2 |
| Md. | 2 | 1 | 2 | - | 2 | - | 23 | - | 9 | 4 | 16 | 2 | - | - | 2 |
| D.C. | 6 | - | 0 | - | - | 1 | 6 | - | 74 | - | - | $\cdots$ | - | - | - |
| W. Ve. | 6 | 21 | 80 | - | 2 | - | 27 | - | 29 | - | 7 | 33 | - | - | 1 |
| W.C. | 5 | - | 8 | - | 1 | - | - | 1 | 5 | - | - | 17 | - | - |  |
| S.C. | 5 | - | - | - | 1 | - | 34 | 1 | 22 | 1 | 24 | 53 | - | - |  |
| Ga. | 2 | - | - | - | - | - | 22 | - | 3 | - | - | - | - | - | 1 |
| Fla. | 7 | 1 | 86 | - | 5 | 45 | 35 68 | - | 11 | - | 14 | 13 5 | - | 1 | 5 |
| E.S. CENTRAL | 4 | 23 |  |  |  | 2 |  |  |  |  |  |  |  | . | 2 |
| Ky. | 4 | 23 | 23 | - | - | 2 | 118 20 | 43 | 267 90 | 1 | 11 | 1 | - | - | 2 |
| Tenn. | - | 2 |  | - | - | - | 70 | 13 | 9089 | $i$ | 8 | 1 | - | - | . |
| Ala. | 3 | - | - | - | - | - | 70 20 | 13 | 169 | 1 | 8 | 3 | - | - | - |
| Miss. | 1 | - | 5 | - | - | 2 | 8 | N | N | - | 1 | 2 | - | - |  |
| W.S. CENTRAL | 21 | - | 9 | - | - | 75 |  | 17 | 327 | 3 | 34 | 40 | - | 4 | 1 |
| Ark. | - | - | . | - | - | 75 | 10 | 17 | 327 3 | 3 | 5 | 2 | - | 3 | 1 |
| La. | 3 | - | - | - | - | - | 28 | 2 | 131 | 3 | 5 | 9 | - |  | - |
| Okla. Tex. | 5 | - | 8 | - | - | 1 | 8 | 12 | 106 | 3 | 24 | 29 | . | 1 | - |
| Tex. | 13 | - | 1 | - | - | 74 | 40 | 3 | 87 | - | 24 | 29 | - | - |  |
| MOUNTAIN | 11 | - | 113 | - | - |  | 37 | 3 | 107 | 3 |  | 52 | 1 | 3 | 6 |
| Mont. | 1 | - | 113 | - | - | 42 | 37 | 3 | 107 | 3 | 278 1 | 2 | 1 | - | 1 |
| Idaho | , | - | - | - | $\stackrel{-}{-}$ | 42 | 3 | - | 2 1 | 2 | 229 | 19 | - | - | 1 |
| Wyo. Colo. | 5 | - | 113 | - | - | - | 3 | - | 2 | 2 | 229 1 | 2 | , | 2 | 1 |
| Colo. <br> N. Mex. | 5 | - | 113 | - | - | 251 | 9 | $\cdots$ | 23 | - | 7 | 17 | 1 | 2 | - |
| Ariz. | 2 | - | - | - | - | 251 | 8 | N | N | - | 1 | 3 | - | - |  |
| Utah | 1 | - | - | - | - | 2 | 10 | 3 | 68 | 1 | 19 | 8 | - | - | 4 |
| Nov. | 1 | - | - | $\stackrel{-}{-}$ | - | 1 | 6 1 | - | 2 9 | - | 19 | 1 | - | 1 | 4 |
| PACIFIC | 92 | 54 | 205 | - | 29 |  | 399 | 6 |  |  |  | 155 | 2 | 36 | 76 |
| Wash. | 7 |  | 205 | - |  | 1 | 359 | 2 | 246 | 2 | 132 | 24 |  | 3 | - |
| Oreg. | 5 | - | - | - | - | 34 | 32 19 | 2 $N$ | 12 N | 2 | 28 3 | 24 13 | - | - | 1 |
| Calif. | 79 | 54 | 205 | - | 28 | 462 | 19 | N 3 | N 225 | 3 | 3 79 | 70 | 2 | 32 | 60 |
| Alaska | 1 | 5 | 205 | - | 28 | 462 | 331 | 3 | 225 | 3 | 79 3 | 70 3 | 2 | 32 | 6 |
| Hewaii | 1 | - | - | - | 1 | 4 | 4 13 | 1 | 6 2 | - | 3 19 | 3 45 | - | 4 | 15 |
| Guam | - | - |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |
| P.R. | 1 | 50 | 159 | $\stackrel{-}{-}$ | 1 | 388 | 6 | - | 2 | - | 5 | $11^{-}$ | - | 1 | 1 |
| V.I. | 1 | 0 | 159 | - | - | 388 | 6 | - | 5 | - | 5 | 11 | - | - | 1 |
| Amer. Samoa | - | 1 | - | $\square$ | - | 1 | - | - | 12 | - | - | $i$ | - | - | 1 |
| C.N.M.I. | - | 1 | - | - | - | 1 | - | 1 | - | - | - | 1 | - | - | 1 |

N: Not mosies only, imported cases includes both out-of-etate and international importations.
N : Not notifiable U: Unavailable international 'Out-of-state

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending May 7, 1988 and May 9, 1987 (18th Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxicshock Syndrome | Tuberculosis |  | Tularemia <br> Cum. 1988 | Typhoid <br> Fever <br> Cum. <br> 1988 |  | Rabies, <br> Animal <br> Cum. <br> 1988 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1987 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1968 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1987 \end{aligned}$ |  |  |  |  |
| UNITED STATES | 12,874 | 11,496 | 99 | 6,291 | 6,790 | 31 | 123 | 25 | 1,374 |
| NEW ENGLAND | 344 | 172 | 9 | 122 | 194 | 1 | 9 | - | 3 |
| Maine | 5 | 1 | 1 | 3 | 14 | - | - | - | 1 |
| N.H. | 3 | 2 | 3 | . | 5 | - | - | - | 2 |
| Vt. | - | 1 | 2 | - | 4 | - | 7 | - | - |
| Mass. | 147 | 86 | 3 | 79 | 87 | 1 | 7 | - | - |
| R.I. | 12 | 5 | - | 9 | 21 | - | - | - | - |
| Conn. | 177 | 77 | - | 31 | 63 | - | 2 | - | - |
| MID. ATLANTIC | 2,625 | 2,042 | 16 | 1,077 | 1,248 | - | 19 | 2 | 139 |
| Upstate N.Y. | 156 | 77 | 7 | 195 | 190 | - | 2 | 1 | 1 |
| N.Y. City | 1,733 | 1,419 | 2 | 442 | 605 | - | 8 | 1 | - |
| N.J. | 297 | 234 | 3 | 212 | 219 | - | 9 | - | 138 |
| Pa. | 439 | 312 | 4 | 228 | 234 | - | - | - | 138 |
| E.N. CENTRAL | 411 | 337 | 16 | 752 | 801 | 1 | 12 | - | 28 |
| Ohio | 44 | 36 | 13 | 136 | 169 | - | 4 | - | - |
| Ind. | 21 | 18 |  | 78 | 76 | - | 2 | - | 6 |
| III. | 212 | 193 | - | 307 | 327 | - | 5 | - | 6 |
| Mich. | 124 | 61 | 3 | 187 | 200 | 1 | 1 | - | 4 |
| Wis. | 10 | 29 | - | 44 | 29 | - | - | - | 12 |
| W.N. CENTRAL | 85 | 50 | 13 | 174 | 189 | 14 | 4 | 3 | 173 |
| Minn. | 8 | 5 |  | 30 | 50 | - | 2 | - | 61 |
| lowa | 10 | 8 | 2 | 14 | 10 | - | - | - | 13 |
| Mo. | 43 | 24 | 6 | 88 | 95 | 11 | 2 | 3 | 5 |
| N. Dak. | 1 | - | - | 3 | 1 | - | - | - | 26 |
| S. Dak. | 5 | 5 | 1 | 15 | 9 | $\overline{-}$ | - | - | 54 |
| Nebr. | 12 | 5 | 2 | 4 | 11 | 2 | - | - | 4 |
| Kans. | 6 | 3 | 2 | 20 | 13 | 1 | - | - | 10 |
| S. ATLANTIC | 4,547 | 3,970 | 9 | 1,451 | 1,349 | 4 | 16 | 13 | 473 |
| Del. | 52 | , 34 |  | 16 | 14 | 1 | - | - | 18 |
| Md. | 257 | 217 | 1 | 149 | 111 | - | 1 | 1 | 119 |
| D.C. | 201 | 122 | I | 68 | 45 | - | 7 | - | 3 |
| Va. | 148 | 90 | - | 150 | 114 | 2 | 7 | - | 162 |
| W. Va. | 2 | 5 | - | 32 | 43 | . | - | 0 | 33 |
| N.C. | 256 | 218 | 5 | 109 | 129 | - | 1 | 10 | $\stackrel{-}{-}$ |
| S.C. | 200 | 253 |  | 150 | 127 | $\bullet$ | - | 2 | 24 |
| Ga. | 748 | 547 | - | 221 | 200 | 1 | 2 | - | 77 |
| Fla. | 2,683 | 2,484 | 3 | 556 | 566 | - | 5 | - | 37 |
| E.S. CENTRAL | 714 | 698 | 11 | 526 | 583 | 4 | 2 | 3 | 117 |
| Ky. | 22 | 6 | 4 | 141 | 152 | 3 | 1 | - | 54 |
| Tenn. | 306 | 293 | 4 | 145 | 187 | - | 1 | 1 | 32 |
| Ala. | 200 | 177 | 3 | 159 | 180 | - | 1 | 2 | 31 |
| Miss. | 186 | 222 | - | 81 | 64 | 1 | - | - | - |
| W.S. CENTRAL | 1,352 | 1,459 | 8 | 778 | 752 | 3 | 2 | 2 | 196 |
| Ark. | 67 | 75 |  | 82 | 82 | 1 | - | - | 37 |
| La. | 247 | 258 | - | 113 | 104 |  | 2 | 9 | 15 |
| Okla. | 52 | 54 | 2 | 72 | 72 | 2 | - | 1 | 15 |
| Tex. | 986 | 1,072 | 6 | 509 | 494 | - | - | 1 | 144 |
| MOUNTAIN | 242 | 248 | 10 | 119 | 214 | 4 | 5 | 1 | 116 |
| Mont. | 2 | 7 |  | - | 8 | - | 1 | - | 94 |
| Idaho | . | 1 | 2 | 2 | 16 | - | - | 1 | 9 |
| Wyo. | - | 1 | - | 1 | 1 | $\cdots$ | $\overline{3}$ | - | 9 |
| Colo. | 30 | 38 | 1 | 8 | 40 | 3 | 3 | - | 4 |
| N. Mex. | 19 | 21 | - | 32 | 38 | 1 | 1 | - | 4 |
| Ariz. | 68 | 121 | 3 | 58 | 95 | - | 1 | - | 8 |
| Utah | 9 | 8 | 4 | - | 6 | - | - | - | 1 |
| Nev. | 114 | 51 | - | 18 | 10 | - | - | - | - |
| PACIFIC | 2,554 | 2,520 | 7 | 1,294 | 1,460 | - | 54 | 1 | 129 |
| Wash. | 61 | 49 | - | 78 | 73 | - | 3 | - | - |
| Oreg. | 102 | 92 | 7 | 45 | + 43 | - | 5 | 1 | 125 |
| Calif. | 2,372 | 2,372 | 7 | 1,104 | 1,247 | - | 44 | 1 | 125 |
| Alaska | 6 | 2 | - | 13 | 25 | - | - | - | 4 |
| Hawaii | 13 | 5 | - | 54 | 72 | - | 2 | - | - |
| Guam | - | 2 | - | 7 | 4 | - | - | - | 23 |
| P.R. | 227 | 324 | - | 74 | 86 | - | 2 | - | 23 |
| V.I. | 1 | 3 | - | 3 | 2 | - | - | - | - |
| Amer. Samoa |  | 83 | - | : | 69 | - | - | - | - |
| C.N.M.I. | - | 2 | - | : | - | - | - | - | - |

TABLE IV. Deaths in 121 U.S. cities,* week ending May 7, 1988 (18th Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\left\|\begin{array}{l} \text { P\&i } \\ \text { Total } \end{array}\right\|$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\|\mathrm{P} \&\|^{* *}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |
| NEW ENGLAND | 663 | 469 | 117 | 41 | 19 | 16 | 56 | S. ATLANTIC | 1,326 | 824 | 261 | 151 | 38 | 50 | 81 |
| Boston, Mass. | 190 | 131 | 33 | 11 | 8 | 7 | 23 | Atlanta, Ga. | 170 | 104 | 41 | 19 | 4 | 2 | 8 |
| Bridgeport, Conn. | 50 | 34 | 7 | 6 | 2 | 1 | 2 | Baltimore, Md. | 292 | 183 | 58 | 29 | 5 | 17 | 8 |
| Cambridge, Mass. | 28 | 19 | 6 | 2 | - | . | 4 | Charlotte, N.C. | 59 | 42 | 13 | 3 | 1 |  | 6 |
| Fall River, Mass. | 22 | 19 | 3 | - | - | - | 3 | Jacksonville, Fla. | 123 | 82 | 20 | 14 | 3 | 4 | 15 |
| Hartford, Conn. | 64 | 39 | 12 | 6 | 4 | 3 | 3 | Miami, Fla. | 115 | 56 | 22 | 24 | 6 | 7 | 1 |
| Lowell, Mass. | 23 | 16 | 3 | 2 | 2 | - | 3 | Norfolk, Va . | 66 | 48 | 9 | 7 | - | 2 | 5 |
| Lynn, Mass. | 18 | 16 | 2 | - | - |  | 1 | Richmond, Va. | 79 | 51 | 12 | 12 | 3 | 1 | 6 |
| New Bedford, Mass. | 31 | 19 | 9 | - | 3 | - | 1 | Savannah, Ga. | 48 | 37 | 8 | 1 | - | 2 | 10 |
| New Haven, Conn. | 43 | 31 | 7 | 5 | - | - | 3 | St. Petersburg, Fla. | 70 | 41 | 14 | 12 | 2 | 1 | 3 |
| Providence, R.I. | 53 | 40 | 11 | 2 | - | - | 1 | Tampa, Fla. | 63 | 46 | 7 | 4 | 3 | 2 | 4 |
| Somerville, Mass. | 5 | 5 | - | - | - | $\square$ | 2 | Washington, D.C. | 203 | 102 | 51 | 26 | 11 | 12 | 8 |
| Springfield, Mass. | 49 | 32 | 9 | 4 | - | 4 | 2 | Wilmington, Del. | 38 | 32 | 6 | - | - | - | 7 |
| Waterbury, Conn. | 30 | 23 | 6 | 1 | - | - | 3 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 57 | 45 | 9 | 2 | - | 1 | 5 | E.S. CENTRAL Birmingham, Ala. | 772 121 | 534 81 | 149 23 | 46 7 | 23 | 20 | 51 |
| MID. ATLANTIC | 2,741 | 1,788 | 554 | 260 | 68 | 66 | 147 | Chattanooga, Tenn. | 121 55 | 39 | 11 | 2 | 1 | 2 | 6 |
| Albany, N.Y. | 62 | 45 | 11 | 3 | 2 | 1 | - | Knoxville, Tenn. | 80 | 54 | 19 | 2 | 3 | 2 | 6 |
| Allentown, Pa. | 14 | 11 | 2 | 1 | - | - | $0^{\circ}$ | Louisville, Ky. | 115 | 93 | 14 | 4 | 3 | 1 | 5 |
| Buffalo, N.Y. | 118 | 81 | 24 | 5 | 8 |  | 16 | Memphis, Tenn. | 178 | 121 | 38 | 13 | 2 | 4 | 16 |
| Camden, N.J. | 46 | 31 | 9 | 3 | 1 | 2 | - | Mobile, Ala. | 82 | 56 | 9 | 10 | 7 | - | 7 |
| Elizabeth, N.J. | 37 | 25 | 3 | 2 | 2 | 5 | - | Montgomery, Ala. | 30 | 22 | 4 | 1 | 1 | 2 | - |
| Erie, Pa.t | 36 | 22 | 12 | 1 | 1 |  | 1 | Nashville, Tenn. | 111 | 68 | 31 | 7 | 1 | 4 | 6 |
| Jersey City, N.J. | 67 | 43 | 12 | 9 | 1 | 2 | 1 |  |  |  |  |  |  |  |  |
| N.Y. City, N.Y. | 1,424 | 886 | 295 | 177 | 31 | 35 | 68 | W.S. CENTRAL | 1,336 | 803 | 313 | 124 | 46 | 50 | 54 |
| Newark, N.J. | 35 | 14 | 11 | 6 | 1 | 3 |  | Austin, Tex. | 58 | 37 | 9 | 9 | 3 | - | 4 |
| Paterson, N.J. | 37 | 24 | 4 | 6 | 1 | 2 | 1 | Baton Rouge, La. | 35 | 18 | 10 | 6 | 1 | - | - |
| Philadelphia, Pa. | 392 | 243 | 101 | 30 | 8 | 10 | 29 | Corpus Christi, Tex. | 29 | 20 | 8 | - | 1 | 13 | $\overline{-}$ |
| Pittsburgh, Pa. $\dagger$ | 64 | 45 | 16 | 30 | 1 | 2 | 29 | Dallas, Tex. | 214 | 121 | 49 | 22 | 9 | 13 | 6 |
| Reading, Pa. | 37 | 29 | 5 | 1 | 2 | 2 | 3 | El Paso, Tex. | 61 | 35 | 17 | 3 | 1 | 5 | 7 |
| Rochester, N.Y. | 143 | 109 | 21 | 9 | 3 | 1 | 18 | Fort Worth, Tex | 101 | 62 | 24 | 9 | 3 | 3 | 5 |
| Schenectady, N.Y. | 27 | 24 | 2 | 1 | 3 | . | 1 | Houston, Tex. 5 | 308 | 176 | 74 | 34 | 13 | 11 | 7 |
| Scranton, Pa.t | 32 | 25 | 2 | - | - | - | 1 | Little Rock, Ark. | 46 | 27 | 10 | 5 | 1 | 3 | 3 |
| Syracuse, N.Y. | 77 | 63 | 8 | 3 | 1 | 2 | 3 | New Orleans, La. | 113 | 65 | 30 | 9 | 6 | 3 | 11 |
| Trenton, N.J. | 34 | 28 | 5 | 3 | 1 | 2 | 3 | San Antonio, Tex. | 210 | 130 | 50 | 19 | 6 | 5 | 11 |
| Utica, N.Y. | 24 | 16 | 6 | 1 | 1 |  | - | Shreveport, La. | 66 | 51 | 9 | 2 | - | 4 | 4 |
| Yonkers, N.Y. | 35 | 24 | 5 | 2 | 3 | 1 | 5 | Tulsa, Okla. | 95 | 61 | 23 | 6 | 2 | 3 | 7 |
| E.N. CENTRAL | 2,261 | 1,524 | 464 | 153 | 50 | 70 | 94 | MOUNTAIN | 570 | 372 | 117 | 41 | 14 | 26 | 36 |
| Akron, Ohio | 71 | 46 | 19 | 4 | 5 | 2 | 94 | Albuquerque, N. Mex | 71 | 45 | 13 | 7 | 2 | 4 | 5 |
| Canton, Ohio | 31 | 25 | 4 | 1 | 1 | 2 | 1 | Colo. Springs, Colo. | 29 | 21 | 3 | 3 | 1 | 1 | 5 |
| Chicago, III. 5 | 564 | 362 | 125 | 45 | 10 | 22 | 16 | Denver, Colo. | 102 | 69 | 22 | 5 | 3 | 3 | 5 |
| Cincinnati, Ohio | 111 | 79 | 20 | 7 | 3 | 2 | 11 | Las Vegas, Nev. | 95 | 56 | 31 | 5 | 2 | 1 | 7 |
| Cleveland, Ohio | 152 | 87 | 38 | 11 | 5 | 11 | 1 | Ogden, Utah | 19 | 13 | 4 | 13 | 4 | 1 | 2 |
| Columbus, Ohio | 157 | 109 | 33 | 12 | 1 | 2 | , | Phoenix, Ariz. | 109 | 63 | 21 | 13 | 4 | 8 | 5 |
| Dayton, Ohio | 112 | 80 | 17 | 10 | 1 | 4 | 4 | Pueblo, Colo. | 21 | 16 | 3 | 1 | - | 1 | - |
| Detroit, Mich. | 222 | 141 | 43 | 22 | 10 | 6 | 7 | Salt Lake City, Utah | 36 | 23 | 7 | 3 | 2 | 1 | 7 |
| Evansville, Ind. | 43 | 30 | 9 | 1 | 2 | 1 | 2 | Tucson, Ariz. | 88 | 66 | 13 | 3 | - | 6 | 7 |
| Fort Wayne, Ind. | 57 | 35 | 14 | 6 | 2 | - | 4 | PACIFIC | 1,944 | 1,272 | 382 | 170 | 57 | 51 | 124 |
| Gary, Ind. | 10 | 7 | 2 | 1 | - | - | - | Berkeley, Calif. | 1,99 | +21 | 4 | 2 | 2 | - | - |
| Grand Rapids, Mich. | 51 | 35 | 7 | 5 | 3 | 1 | 10 | Fresno, Calif. | 96 | 63 | 18 | 6 | 4 | 5 | 9 |
| Indianapolis, Ind. | 191 | 127 | 36 | 13 | 4 | 11 | 6 | Glendale, Calif. | 24 | 19 | 1 | 4 | - | - | 1 |
| Madison, Wis. | 38 | 26 | 10 | - | 2 | - | 1 | Honolulu, Hawaii | 82 | 60 | 15 | 3 | 2 | 2 | 10 |
| Milwaukee, Wis. | 139 | 106 | 27 | 4 | 1 | 1 | 8 | Long Beach, Calif. | 89 | 63 | 14 | 4 | 5 | 3 | 16 |
| Peoria, III. | 48 | 37 | 8 | 1 | 1 | 1 | 4 | Los Angeles Calif. | 491 | 297 | 117 | 49 | 14 | 4 | 17 |
| Rockford, III. | 44 | 34 | 9 | 3 | 1 | 1 | 4 | Oakland, Calif. | 88 | 56 | 15 | 4 | 4 | 9 | 6 |
| South Bend, Ind. | 43 | 32 | 6 | 3 | 1 | 1 | 2 | Pasadena, Calif. | 34 | 25 | 7 | - | - | 2 | - |
| Toledo, Ohio§ | 116 | 86 | 22 | 4 | 1 | 3 | 10 | Portland, Oreg. | 124 | 98 | 15 | 5 | 4 | 2 | 8 |
| Youngstown, Ohio | 61 | 40 | 15 | 3 | 2 | 1 | 3 | Sacramento, Calif. | 167 | 108 | 37 | 18 | 1 | 3 | 25 |
| W.N. CENTRAL | 800 | 561 | 156 | 43 | 18 | 22 | 37 | San Diego, Calif. | 154 | 95 | 30 | 15 | 4 | 9 | 13 |
| Des Moines, lowa | 63 | 49 | 8 | 2 | 2 | 2 | 3 | San Francisco, Calif. | 161 | 92 | 35 | 26 | 5 | 2 | 2 |
| Duluth, Minn. | 43 | 33 | 8 | 1 | 1 | - | 5 | San Jose, Calif. | 174 138 | 117 88 | 35 | 11 | 7 5 | 4 | 2 |
| Kansas City, Kans. | 41 | 30 | 8 21 | 2 | 1 | 1 | 10 | Seatte, Wash. Spokane, Wash. | 138 50 | 88 37 | 24 8 | 17 4 | 5 | 1 | 5 |
| Kansas City, Mo. | 92 | 66 | 21 10 | 2 | 1 | 2 | 10 | Spokane, Wash. Tacoma, Wash. | 43 | 33 | 8 | 4 2 | - | 1 | 3 |
| Lincoln, Nebr. | 31 207 | 21 149 | 10 32 | 15 | 6 | 5 | 3 4 | Tacoma, Wash. TOTAL | 12,413 ${ }^{\text {tt }}$ | 8,147 | 2,513 | 1,029 | 333 | 371 | 680 |
| Omaha, Nebr. | 72 | 46 | 15 | 6 | 1 | 4 | 3 |  |  |  |  |  |  |  |  |
| St. Louis, Mo. | 128 | 82 | 27 | 13 | 2 | 4 | 4 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 72 | 53 | 15 | 2 | 2 | - | - |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 51 | 32 | 12 | - | 3 | 4 | 5 |  |  |  |  |  |  |  |  |

[^3]
## AIDS - Continued

than the United States and a higher percentage in the heterosexual, blood-related, and undetermined/other categories (Table 3). In addition, Europe has a higher percentage of pediatric patients in the hemophilia/coagulation-disorder category than the United States and a lower percentage with a parent with AIDS or at increased risk for AIDS.

Intravenous (IV) drug users account for 64\% of adult patients in Italy and 53\% of adult patients in Spain. Both countries together reported 66\% of the IV-drug-related cases in Europe. In the following six countries reporting more than 50 cases, $75 \%$ or more of the patients were homosexual males: the Netherlands (88\%), the United

TABLE 2. AIDS cases, by age group and sex - 28 countries in the World Health Organization's European Region, December 31, 1987

| Age Group | Male | Female | Total | $(\%)$ |
| ---: | ---: | ---: | ---: | ---: |
| $0-11$ mos | 40 | 48 | 88 | $(0.9)$ |
| $1-4 \mathrm{yrs}$ | 52 | 48 | 100 | $(1.0)$ |
| $5-9 \mathrm{yrs}$ | 24 | 7 | 31 | $(0.3)$ |
| $10-14 \mathrm{yrs}$ | 29 | 3 | 32 | $(0.3)$ |
| $15-19 \mathrm{yrs}$ | 77 | 14 | 91 | $(0.9)$ |
| $20-29 \mathrm{yrs}$ | 2,325 | 551 | 2,876 | $(38.2)$ |
| $30-39 \mathrm{yrs}$ | 3,440 | 255 | 3,695 | $(20.3)$ |
| $40-49 \mathrm{yrs}$ | 2,031 | 72 | 2,103 | $(7.7)$ |
| $50-59 \mathrm{yrs}$ | 736 | 53 | 789 | $(3.3)$ |
| $\geqslant 60 \mathrm{yrs}$ | 281 | 52 | 333 | $(0.4)$ |
| Unknown | 38 | 2 | $43^{*}$ | $(100.0)$ |
| Total | 9,073 | 1,105 | 10,181 |  |

*Sex of three patients is unknown.
TABLE 3. Reported AIDS cases among adult and pediatric patients, by transmission category - Europe, December 31, 1987, and United States, January 4, 1988*

| Transmission Categories of Patients | Europe |  | United States |  |
| :---: | :---: | :---: | :---: | :---: |
|  | No. | (\%) | No. | (\%) |
| Adult Patients |  |  |  |  |
| Homosexual/Bisexual Male | 5,865 | (59) | 32,138 | (65) |
| Intravenous (IV) Drug Use | 1,944 | (20) | 8,511 | (17) |
| Homosexual Male and IV Drug Use | 259 | (3) | 3,726 | (8) |
| Hemophilia/Coagulation Disorder | 349 | (4) | 494 | (1) |
| Heterosexual Contact | 609 | (6) | 1,987 | (4) |
| Transfusion | 359 | (4) | 1,144 | (2) |
| Other/Undetermined | 545 | (5) | 1,515 | (3) |
| Total | 9,930 | (100) | 49,515 | (100) |
| Pediatric Patients |  |  |  |  |
| Hemophilia/Coagulation Disorder | 38 | (15) | 40 | (5) |
| Parent with/at Risk for AIDS | 170 | (68) | 577 | (77) |
| Transfusion | 38 | (15) | 99 | (13) |
| Other/Undetermined | 5 | (2) | 34 | (5) |
| Total | 251 | (100) | 750 | (100) |

[^4]
## AIDS - Continued

Kingdom (87\%), Denmark (86\%), Sweden (81\%), Norway (79\%), and the Federal Republic of Germany (76\%).
Africa
Thirty-eight countries in the African Region have reported 13\% of the world's total AIDS cases. Fifteen African countries reported more than 50 cases each. Zimbabwe ${ }^{5}$ and Zaire have each reported 300 to 500 cases, and Uganda, Tanzania, Congo, Kenya, Burundi, Rwanda, Malawi, and Zambia have each reported more than 500 cases. Central, eastern, and southern Africa have reported the largest number of cases. Although cases were first officially reported from Africa in the second half of 1982, over $70 \%$ of all cases $(7,906)$ were reported in 1987.

## Other Areas

Oceania has reported a total of 834 AIDS cases; Asia, a total of 231 cases; and the eastern Mediterranean countries, 100 cases. The major reporting countries (>20 cases) from these areas were Australia (758 cases), New Zealand (74), Japan (59), Oatar (32), and Turkey (21).
Discussion
Worldwide AIDS surveillance is coordinated by GPA at WHO in Geneva. Reports are received from collaborating centers, including CDC in the United States, the WHO Collaborating Centre in Paris, and WHO regional offices and ministries of health. Accuracy and completeness of AIDS reporting vary in different areas of the world. In 1985, a review of death certificates in the United States suggested that 89\% of AIDS cases meeting the surveillance definition were reported (5). In Africa, reporting has only recently started in some countries and is, therefore, incomplete. Consequently, the proportion of AIDS cases that are reported in Africa is unknown. The WHO clinical case definition, used in areas where the prevalence of HIV is high, has a specificity of over $90 \%$ (6).

Epidemiologic studies indicate three broad yet distinct geographic patterns of transmission. Pattern I is typical of industrialized countries with large numbers of reported AIDS cases, such as North America, Western Europe, Australia, New Zealand, and parts of Latin America. In these areas, most cases occur among homosexual or bisexual males and urban IV drug users. Heterosexual transmission is responsible for only a small percentage of cases but is increasing. Transmission due to exposure to blood and blood products occurred between the late 1970s and 1985 in these countries but has now been largely controlled through the self-deferral of persons at increased risk for AIDS and by routine blood screening for human immunodeficiency virus (HIV) antibody. The ratio of male to female patients ranges from 10:1 to $15: 1$, and, to date, perinatal transmission is relatively uncommon. Overall population seroprevalence is estimated to be less than $1 \%$ but has been measured at up to $50 \%$ in some groups practicing high-risk behaviors, such as IV drug users and men with multiple male sex partners.

Pattern II is observed in areas of central, eastern, and southern Africa and in some Caribbean countries. In these areas, most cases occur among heterosexuals; the male to female ratio is approximately 1:1; and perinatal transmission is relatively more common than in other areas. IV drug use and homosexual transmission either do not occur or occur at a very low level. In a number of these countries, overall population seroprevalence is estimated at more than $1 \%$, and, in a few urban areas, up to $25 \%$ of

[^5]AIDS - Continued
the sexually active age group is infected. Transmission through contaminated blood and blood products has been a significant problem and continues in those countries that have not yet implemented nationwide donor screening.

Pattern III is found in areas of Eastern Europe, the Middle East, Asia, and most of the Pacific. HIV appears to have been introduced into these areas in the early to mid-1980s, and only small numbers of cases have been reported. Homosexual and heterosexual transmission have only recently been documented. Generally, cases have occurred among persons who have traveled to endemic areas or who have had sexual contact with individuals from endemic areas, such as homosexual men and female prostitutes. A small number of cases due to receipt of imported blood products has been reported.

Under its charter, the World Health Assembly of WHO has authorized GPA to develop and coordinate a global strategy for AIDS prevention and control. As of March 1988, 115 member states had agreed to collaborate in supporting and developing short-term (<1 year) plans for AIDS control. Between February 1987 and March 1988, GPA provided over 250 consultant visits to assist countries in developing these plans.

WHO is conducting worldwide surveillance of AIDS, developing standardized methods for HIV serosurveys, and creating a Global Commission on AIDS to provide GPA with scientific and technical guidance. In addition, experts have met in Geneva to discuss a variety of HIV-related issues. Health promotion and HIV prevention strategies have also been developed. "GPA is organizing a network of specimen banks for geographically and temporally representative retroviral isolates and sera. GPA is also collaborating with a working group of leading AIDS virologists to standardize the characterization of HIV and related human retroviruses.

Although the number of AIDS cases is expected to increase significantly over the next few years, there is growing confidence that the spread of HIV can be stopped. Stopping HIV infection, however, will require a commitment that goes beyond geographic boundaries. Education and the means to eliminate or modify risk factors and risk behaviors will be the key. The global control of AIDS will require both committed national AIDS programs and strong international coordination, cooperation, and leadership.
Reported by: J Chin, MD, CF von Reyn, MD, K Esteves, G Peterson, MD, E Brenner, MD, J Mann, MD, Global Programme on AIDS, WHO. JB Brunet, MD, RA Ancelle, MD, WHO Collaborating Centre on AIDS, Institut de Médecine et d'Épidémiologie Africaines et Tropicales, Paris, France.
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${ }^{T}$ Published materials on these topics may be obtained by writing to the Global Programme on AIDS, WHO, 1211 Geneva, 27-Switzerland.

FIGURE I. Reported measles cases - United States, Weeks 14-17, 1988


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The data in this report 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. The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: Editor, Morbidity and Mortality Weekly Report, Centers for Disease Control, Atlanta, Georgia 30333.

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[^0]:    *NSCIA is a private, nonprofit national health agency that serves as a resource and clearinghouse for information on SCls, including prevention and rehabilitation.
    ${ }^{\dagger}$ The District of Columbia was not contacted.

[^1]:    *Because of varying reporting practices, AIDS case data are not available for all countries for the same time period.

[^2]:    *Because AIDS cases are not received weekly from all reporting areas, comparison of weekly figures may be misleading.
    ${ }^{\dagger}$ One of the 142 reported cases for this week was imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

[^3]:    *Mortality data in this table are voluntarily reported from 121 cities in the United states, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
    **Pneumonia and influenza.
    †Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
    t†Total includes unknown ages.
    §Data not available. Figures are estimates based on average of past available 4 weeks.

[^4]:    *The latest data analysis available for Europe is for December 31, 1987. The January 4, 1988, U.S. analysis is used here because it most closely approximates the time frame of the European analysis.

[^5]:    ${ }^{5}$ As of April 1988 , Zimbabwe officially retracted its report of 380 cases pending a national review of the accuracy of its reporting system.

