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## Current Trends

## Mortality Patterns - United States, 1987

Based on death certificate information compiled by CDC's National Center for Health Statistics (NCHS) (1), 2,123,323 deaths were registered in the United States in 1987. This is 17,962 more deaths than in 1986 and the largest annual final number ever recorded. In 1987, nearly three fourths of deaths were caused by the first four leading causes of death-heart disease, cancer, stroke, and unintentional injuries. This report summarizes mortality data compiled by NCHS for 1987 (1).

Despite the increase in the number of deaths, the overall age-adjusted death rate* for 1987 declined to a record low of 535.5 per 100,000 population-or approximately $1.0 \%$ lower than in 1986 ( 541.7 ). From 1986 to 1987, rates declined for 13 of the 15 leading causes of death (Table 1). The rate for heart disease, the greatest contributor to U.S. mortality, declined by $3.1 \%$. The rate for cancer declined for the second consecutive year, in contrast to the general increase since 1950. Mortality from homicide decreased by 4.4\%, the largest decline among the 15 leading causes of death. From 1986 to 1987, the ranking of the leading causes of death remained unchanged with the exception of congenital anomalies, which was replaced as the 15th leading cause of death by human immunodeficiency virus (HIV) infection.

In 1987, age-adjusted death rates for men were higher than those for women (Table 2). The greatest sex differential in mortality was for HIV infection, for which the rate for males was 9.1 times that for females. The rate for unintentional injuries (International Classification of Diseases, Ninth Revision [ICD-9] "accidents and adverse effects" ${ }^{\dagger}$ [rubrics E800-E949] [2]) was 2.7 times higher for males than for females. The smallest difference between the sexes was for diabetes mellitus (male/female ratio $=1.1: 1$ ).

When compared with 1986, age-adjusted death rates declined for white persons ${ }^{5}$ (from 518.0 to 511.1) and remained essentially unchanged for black persons (from 781.0 to 778.6). The largest difference between rates was for homicide, with the rate for blacks 6.0 times that for whites (Table 2). Of the 15 leading causes of death,

[^0]Mortality Patterns - Continued
two - suicide and chronic obstructive pulmonary disease and allied conditions - had lower death rates for blacks than for whites.

In 1987, HIV infection accounted for 13,468 deaths. Of these, 8700 ( $64.6 \%$ ) were in white males, 3301 ( $24.5 \%$ ) in black males, 739 ( $5.5 \%$ ) in black females, and 628 (4.7\%) in white females. Most (72.9\%) HIV-associated deaths occurred in persons aged 25-44 years. Age-adjusted death rates were highest for black males (25.4), followed by white males (8.3), black females (4.7), and white females (0.6). Age-specific death rates followed a similar pattern.

TABLE 1. Age-adjusted death rates* for 1987 and percent changes in age-adjusted death rates for the 15 leading causes of death from 1986 to 1987 and 1979 to 1987 United States

| Rank ${ }^{\dagger}$ | Cause of death (ICD-9) |  | \% Change: |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Age-adjusted death rate for 1987 | $\begin{gathered} 1986 \\ \text { to } \\ 1987 \end{gathered}$ | $\begin{gathered} 1979 \\ \text { to } \\ 1987 \end{gathered}$ |
| 1 | Diseases of the heart (390-398, 402, 404-429) | 169.6 | -3.1 | -15.0 |
| 2 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 132.9 | -0.2 | 1.6 |
| 3 | Cerebrovascular disease (430-438) | 30.3 | -2.3 | -27.2 |
| 4 | Accidents and adverse effects ${ }^{5}$ (E800-E949) Motor vehicle accidents (E810-E825) All other accidents and adverse effects (E800-E807, E826-E949) | 34.6 | -1.7 | -19.3 |
|  |  | 19.5 | 0.5 | -15.9 |
|  |  | 15.2 | -3.2 | -22.4 |
| 5 | Chronic obstructive pulmonary disease and allied conditions (490-496) | 18.7 | -0.5 | 28.1 |
| 6 | Pneumonia and influenza (480-487) | 13.1 | -3.0 | 17.0 |
| 7 | Diabetes mellitus (250) | 9.8 | 2.1 | - |
| 8 | Suicide (E950-E959) | 11.7 | -1.7 | - |
| 9 | Chronic liver disease and cirrhosis (571) | 9.1 | -1.1 | -24.2 |
| 10 | Atherosclerosis (440) | 3.6 | -2.7 | -36.8 |
| 11 | Nephritis, nephrotic syndrome, and nephrosis (580-589) | 4.8 | -2.0 | 11.6 |
| 12 | Homicide and legal intervention (E960-E978) | 8.6 | -4.4 | -15.7 |
| 13 | Septicemia (038) | 4.5 | 4.7 | 95.7 |
| 14 | Certain conditions originating in the perinatal period ${ }^{\text {¹ }}$ (760-779) | - | -2.2 | -28.9 |
| 15 | Human immunodeficiency virus infection (new code: 042-044) | 5.5 | - | - |
|  | All causes | 535.5 | -1.1 | -7.2 |

*Per 100,000 population, age-adjusted to 1940 U.S. population.
${ }^{\dagger}$ Based on number of deaths.
${ }^{5}$ When a death occurs under "accidental" circumstances, the preferred term within the public health community is "unintentional injury."
"Based on infant mortality rates.

## Mortality Patterns - Continued

In 1987, overall life expectancy at birth reached an all-time high of 75 years, increasing to 75.6 years for whites and remaining stable ( 69.4 years) for blacks. The difference in life expectancy between whites and blacks narrowed from 7.6 years in 1970 to 5.6 years in 1984, then increased to 6.2 years from 1984 to 1987. The difference in life expectancy between the sexes, which widened from 1900 to 1972, narrowed after 1979. Women are still expected to outlive men by an average of 6.9 years.
Reported by: Div of Vital Statistics, National Center for Health Statistics; Div of Surveillance and Epidemiologic Studies, Epidemiology Program Office, CDC.

TABLE 2. Ratio of age-adjusted death rates* for the 15 leading causes of death, by sex and race - United States, 1987

| Rank ${ }^{\text { }}$ | Cause of death (ICD-9) | Ratio of: |  |
| :---: | :---: | :---: | :---: |
|  |  | Male to female | Black to white ${ }^{5}$ |
| 1 | Diseases of the heart (390-398, 402, 404-429) | 1.9 | 1.4 |
| 2 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 1.5 | 1.3 |
| 3 | Cerebrovascular disease (430-438) | 1.2 | 1.8 |
| 4 | Accidents and adverse effects" (E800-E949) Motor vehicle accidents (E810-E825) All other accidents and adverse effects (E800-E807, E826-E949) | 2.7 2.6 3.0 | 1.2 0.9 1.7 |
| 5 | Chronic obstructive pulmonary disease and allied conditions (490-496) | 2.0 | 0.8 |
| 6 | Pneumonia and influenza (480-487) | 1.8 | 1.5 |
| 7 | Diabetes mellitus (250) | 1.1 | 2.3 |
| 8 | Suicide (E950-E959) | 3.9 | 0.5 |
| 9 | Chronic liver disease and cirrhosis (571) | 2.3 | 1.8 |
| 10 | Atherosclerosis (440) | 1.3 | 1.1 |
| 11 | Nephritis, nephrotic syndrome, and nephrosis (580-589) | 1.5 | 2.8 |
| 12 | Homicide and legal intervention (E960-E978) | 3.2 | 6.0 |
| 13 | Septicemia (038) | 1.4 | 2.7 |
| 14 | Certain conditions originating in the perinatal period** (760-779) | 1.3 | 2.6 |
| 15 | Human immunodeficiency virus infection (new code: 042-044) | 9.1 | 3.2 |
|  | All causes | 1.7 | 1.5 |

*Per 109,000 population, age-adjusted to 1940 U.S. population.
${ }^{\dagger}$ Based on number of deaths.
${ }^{5}$ Both groups include Hispanics.
"When a death occurs under "accidental" circumstances, the preferred term within the public health community for the cause of death is "unintentional injury."
**Based on infant mortality rates.

## Mortality Patterns - Continued

Editorial Note: Death rates are usually based on the underlying cause of death, defined by the ICD-9 as "(a) the disease or injury which initiated the train of morbid events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury" (2). During a time when the age distribution is changing, age-adjusted death rates indicate more effectively than crude death rates changes in the risk of death. In addition, age-adjusted rates are better indicators for comparisons of mortality by sex or racial subgroup.

Factors that contributed to the increased number of deaths in 1987 included population growth and the aging of the U.S. population (i.e., the increasing proportion of older persons). Beginning with data for 1987, the ICD-9 was supplemented by new categories for coding HIV infection and acquired immunodeficiency syndrome (AIDS) (042-044) (3). Before 1987, many HIV-associated deaths were assigned codes for deficiency of cell-mediated immunity (ICD-9 279.1) (adapted for HIV/AIDS in 1983-1986), Pneumocystis carinii pneumonia (ICD-9 136.3), and other conditions.
(Continued on page 201)
TABLE I. Summary - cases of specified notifiable diseases, United States

| Disease | 12th Week Ending |  |  | Cumulative, 12th Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Mar. 24, } \\ 1990 \end{gathered}$ | $\begin{gathered} \hline \text { Mar. 25, } \\ 1989 \end{gathered}$ | Median 1985-1989 | $\begin{gathered} \hline \text { Mar. 24, } \\ 1990 \end{gathered}$ | $\begin{gathered} \hline \text { Mar. 25, } \\ 1989 \end{gathered}$ | Median 1985-1989 |
| Acquired Immunodeficiency Syndrome (AIDS) | 734 | U* | 201 | 10,155 | 7,485 | 4,530 |
| Aseptic meningitis | 73 | 56 | 75 | 987 | 951 | 951 |
| Encephalitis: Primary (arthropod-borne \& unspec) | 8 | 7 | 18 | 138 | 133 | 191 |
| Post-infectious | 5 | 1 | 1 | 28 | 21 | 21 |
| Gonorrhea: Civilian | 13,974 | 12,320 | 13,297 | 154,161 | 156,927 | 188,615 |
| Military | 146 | 135 | 254 | 2,344 | 2,415 | 3,763 |
| Hepatitis: Type A | 503 | 664 | 484 | 6,166 | 7,887 | 5,704 |
| Type B | 402 | 479 | 526 | 4,353 | 4,701 | 5,515 |
| Non A, Non B | 42 | 47 | 73 | 418 | 563 | 679 |
| Unspecified | 25 | 61 | 64 | 385 | 606 | 783 |
| Legionellosis | 19 | 20 | 16 | 262 | 217 | 179 |
| Leprosy |  | 3 | 3 | 28 | 35 | 48 |
| Malaria ${ }^{\text {a }}{ }^{\dagger}$ | 20 | 28 | 14 | 230 | 238 | 157 |
| Measles: Total ${ }^{\dagger}$ | 175 | 215 | 166 | 3,377 | 1,941 | 685 |
| Indigenous | 130 | 207 | 163 | 3,048 | 1,827 | 594 |
| Imported | 45 | 8 | 4 | 329 | 115 | 70 |
| Meningococcal infections | 54 | 67 | 68 | 727 | 817 | 817 |
| Mumps | 85 | 132 | 132 | 1,199 | 1,347 | 1,207 |
| Pertussis | 20 | 23 | 41 | 570 | 441 | 441 |
| Rubella (German measles) | 21 | 6 | 7 | 118 | 55 | 66 |
| Syphilis (Primary \& Secondary): Civilian | 1,334 | 835 | 808 | 10,636 | 9,172 | 7,990 |
| Military | 5 | 6 | 7 | 70 | 75 | 54 |
| Toxic Shock syndrome | 5 440 | 8989 | 7 425 | r 85 | 76 4,201 | 4, 71 |
| Tuberculosis | 440 | 399 | 425 1 | 4,234 8 | 4,201 | 4,201 |
| Typhoid Fever | 6 | 7 | 6 | 79 | 89 | 59 |
| Typhus fever, tick-borne (RMSF) | 2 |  | 1 | 19 | 19 | 13 |
| Rabies, animal | 69 | 112 | 111 | 687 | 947 | 947 |

TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1990 |  | Cum. 1990 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | Leptospirosis (Hawaii 1) | 8 |
| Botulism: Foodborne | 1 | Plague |  |
| Infant | 10 | Poliomyelitis, Paralytic, ${ }^{\text {S }}$ | ${ }^{\circ}$ |
| Other | 1 | Psittacosis (Mass. 1, Ohio 1, Nebr. 1) | 40 |
| Brucellosis | 9 | Rabies, human | - |
| Cholera (N.Y.City 1) | 1 | Tetanus | 12 |
| Congenital rubella syndrome |  | Trichinosis | 11 |
| Congenital syphilis, ages < 1 year | - |  |  |
| Diphtheria | 1 |  |  |

[^1]TABLE III. Cases of specified notifiable diseases, United States, weeks ending March 24, 1990 and March 25, 1989 (12th Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { Cum. } \\ 1990 \end{array}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ |
| UNITED STATES | 10,155 | 987 | 138 | 28 | 154,161 | 156,927 | 6,166 | 4,353 | 418 | 385 | 262 | 28 |
| NEW ENGLAND | 416 | 54 | 5 | - | 4,578 | 4,337 | 138 | 244 | 11 | 21 | 12 | - |
| Maine | 15 | 1 | - | - | 58 | 69 | 1 | 15 | 2 | 1 | 1 | - |
| N.H. | 26 | 4 | - | - | 36 | 51 | 4 | 15 | - | 2 | 1 | - |
| Vt. | 3 | 5 | - | - | 18 | 21 | 1 | 11 | 2 | - | 3 | - |
| Mass. | 242 | 17 | 1 | - | 1,690 | 1,767 | 99 | 160 | 5 | 17 | 4 | - |
| R.I. | 17 | 17 | - | . | 238 | 348 | 15 | 14 | - | 1 | 3 | . |
| Conn. | 113 | 10 | 4 | - | 2,538 | 2,081 | 18 | 29 | 2 | - | - | - |
| MID. ATLANTIC | 3,673 | 171 | 9 | - | 21,546 | 26,659 | 893 | 645 | 56 | 29 | 68 | 8 |
| Upstate N.Y. | 506 | 72 | 8 | - | 3,220 | 3,721 | 243 | 164 | 9 | 7 | 28 | 1 |
| N.Y. City | 2,257 | 26 | 1 | - | 9,516 | 12,137 | 98 | 225 | 10 | 12 | 8 | 4 |
| N.J. | 567 | - | - | - | 3,302 | 3,192 | 107 | 108 | 18 | - | 8 | 2 |
| Pa. | 343 | 73 | - | - | 5,508 | 7,609 | 445 | 148 | 19 | 10 | 24 | 1 |
| E.N. CENTRAL | 624 | 167 | 28 | 5 | 30,187 | 26,260 | 395 | 604 | 22 | 34 | 75 | - |
| Ohio | 147 | 51 | 8 | 2 | 9,547 | 6,989 | 57 | 131 | 8 | 4 | 31 | . |
| Ind. | 54 | 27 | 2 | 2 | 2,621 | 1,611 | 44 | 183 | 3 | 10 | 16 | - |
| III. | 294 | 25 | 8 | 1 | 9,010 | 7,606 | 120 | 43 | 3 | 10 |  | - |
| Mich. | 85 | 58 | 10 |  | 7,551 | 7,731 | 114 | 151 | 7 | 10 | 20 | - |
| Wis. | 44 | 6 | - | - | 1,458 | 2,323 | 60 | 96 | 1 | - | 8 | - |
| W.N. CENTRAL | 263 | 41 | 9 | 1 | 8,455 | 6,592 | 328 | 191 | 23 | 8 | 14 | - |
| Minn. | 45 | 4 | 4 | 1 | 1,060 | 650 | 49 | 16 | 7 | - | - | - |
| lowa | 11 | 4 | 1 | - | 649 | 529 | 81 | 27 | 1 | 2 | 1 | - |
| Mo. | 156 | 17 | - | - | 4,875 | 4,127 | 149 | 125 | 7 | 4 | 11 | - |
| N. Dak. | - | 1 | - | - | 24 | 36 | 2 | 2 | 2 | 1 | - | - |
| S. Dak. | 1 | 2 | 2 | - | 46 | 62 | 11 | 3 | 1 | - |  | - |
| Nebr. | 16 | 8 | 2 | - | 379 | 310 | 24 | 13 | 2 | - | 1 | - |
| Kans. | 34 | 5 |  | - | 1,422 | 878 | 12 | 5 | 3 | 1 | 1 | - |
| S. ATLANTIC | 1,764 | 222 | 40 | 8 | 42,760 | 42,994 | 718 | 850 | 69 | 46 | 36 | 1 |
| Del. | 27 | 7 | 1 |  | 552 | 691 | 35 | 23 | 2 |  | 1 | - |
| Md. | 256 | 45 | 5 | - | 4,694 | 4,633 | 349 | 122 | 9 | 3 | 8 | 1 |
| D.C. | 55 | 1 | - | - | 2,307 | 2,761 | 6 | 6 | 3 | - |  | . |
| Va . | 222 | 44 | 16 | 1 | 3,983 | 3,739 | 45 | 55 | 8 | 32 | 5 | - |
| W. Va. | 18 | 4 | 3 | - | 300 | 324 | 6 | 26 | 2 | - | - | - |
| N.C. | 159 | 20 | 9 | - | 7,018 | 6,390 | 140 | 250 | 32 | - | 9 | . |
| S.C. | 98 | 3 | - | - | 3,762 | 3,884 | 13 | 161 | 5 | 5 | 5 | - |
| Ga. | 320 | 12 | 3 | 1 | 9,388 | 8,105 | 53 | 97 | 2 | 3 | 6 | - |
| Fla. | 609 | 86 | 3 | 6 | 10,756 | 12,467 | 71 | 110 | 6 | 3 | 2 | - |
| E.S. CENTRAL | 242 | 66 | 10 | - | 12,990 | 13,163 | 79 | 347 | 30 | 2 | 19 | - |
| Ky. | 49 | 18 | 2 | - | 1,351 | 1,139 | 20 | 96 | 12 | 2 | 6 | - |
| Tenn. | 86 | 14 | 6 | - | 3,986 | 4,195 | 29 | 199 | 13 | 2 | 7 | . |
| Ala. | 50 | 27 | 2 | - | 4,637 | 4,431 | 30 | 52 | 5 | - | 6 | . |
| Miss. | 57 | 7 | - | - | 3,016 | 3,398 |  |  |  | . | 6 | . |
| W.S. CENTRAL | 994 | 42 | 5 | 3 | 14,555 | 16,739 | 518 | 243 | 26 | 36 | 14 | 9 |
| Ark. | 32 | 2 | - | - | 2,140 | 1,668 | 123 | 16 | 2 | 3 | 3 | 9 |
| La. | 182 | 10 | 2 | 1 | 2,844 | 3,624 | 30 | 65 | - | 1 | 3 | - |
| Okla. | 41 | 7 | - | 2 | 1,399 | 1,484 | 136 | 37 | 7 | 5 | 8 | - |
| Tex. | 739 | 23 | 3 | - | 8,172 | 9,963 | 229 | 125 | 17 | 27 | 8 | 9 |
| MOUNTAIN | 286 | 42 | 3 | - | 3,027 | 3,118 | 956 | 313 | 28 | 37 | 19 |  |
| Mont. | 3 | 1 |  | - | - 29 | - 48 | 21 | 23 | 28 | $\begin{array}{r}37 \\ \hline\end{array}$ | 19 | - |
| Idaho | 8 | - | - | - | 21 | 51 | 16 | 20 | 5 | - | 1 | - |
| Wyo. | 1 | 1 | 1 | - | 36 | 33 | 15 | 5 | 5 | - | 1 | - |
| Colo. | 84 | 15 | - | - | 775 | 653 | 67 | 59 | 8 | 16 | 3 | - |
| N. Mex. | 24 | 3 | - | - | 249 | 314 | 135 | 33 | 8 | 16 | 2 | - |
| Ariz. | 114 | 12 | 2 | - | 1,332 | 1,160 | 560 | 94 | 11 | 13 | 8 | - |
| Utah | 30 | 5 | . | - | +109 | 119 | 54 | 15 | 1 | 2 | 1 | - |
| Nev. | 22 | 5 | - | - | 476 | 740 | 88 | 64 | 1 | 5 | 4 | - |
| PACIFIC | 1,893 | 182 | 29 | 11 | 16,063 | 17,065 | 2,141 | 916 | 153 | 172 | 5 | 10 |
| Wash. | 130 | 182 | 1 | 1 | 1,306 | 1,505 | 339 | 136 | 26 | 8 | 2 | 1 |
| Oreg. | 66 | - | 7 |  | 614 | 682 | 245 | 96 | 10 | 5 | 2 | 1 |
| Calif. | 1,639 | 163 | 27 | 9 | 13,804 | 14,579 | 1,479 | 649 | 113 | 157 | 2 | 5 |
| Alaska | 10 | 2 | - |  | 264 | 199 | 43 | 17 | 3 | 15 | 2 | 5 |
| Hawaii | 48 | 17 | 1 | 1 | 75 | 100 | 35 | 18 | 1 | 2 | 1 | 4 |
| Guam | 1 | $\stackrel{-}{-}$ | - | - | 28 | 33 | 2 | 1 | - | 4 | - |  |
| P.R. | 397 | 25 | 4 | - | 278 | 235 | 26 | 24 | - | 18 | - | - |
| V.I. | 4 |  |  | - | 112 | 146 | - | - 3 | - | 18 | - | - |
| Amer. Samoa |  | - | - | - | 20 | 11 | 7 | - | - | - | - | 3 |
| C.N.M.I. | - | - | - | - | 40 | 20 | 2 | 1 | - | - | - | 1 |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending March 24, 1990 and March 25, 1989 (12th Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported* |  | Total <br> Cum. <br> 1989 |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ |  |  | 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1989 \end{aligned}$ |
| UNITED STATES | 230 | 130 | 3,048 | 45 | 329 | 1,941 | 727 | 85 | 1,199 | 20 | 570 | 441 | 21 | 118 | 55 |
| NEW ENGLAND | 26 | 6 | 52 | - | 10 | 61 | 46 | - | 12 | 2 | 80 | 13 | - | 2 | 1 |
| Maine | - | - | - | - | - | - | 5 | - |  | - | 1 | 4 | - | - | - |
| N.H. | 2 | - | - | - | 7 | - | 1 | - | 4 | - | 7 | 5 | - | - | - |
| Vt. | 3 | - | - | - | 1 | 1 | 4 | - | 1 | - | 2 | 1 | - | - | 1 |
| Mass. | 15 | $\stackrel{\square}{\square}$ | 2 | - | - | 11 | 24 | - | 4 | 2 | 65 | - | - | - | - |
| R.I. | 2 | 6 | 20 | - | 2 | 19 | 1 | - | 3 | - | - | 2 | - | 1 | - |
| Conn. | 4 | . | 30 | - | . | 30 | 11 | - | - | - | 5 | 1 | - | 1 | - |
| MID. ATLANTIC | 53 | 29 | 314 | 42 | 112 | 182 | 117 | 4 | 75 | 1 | 144 | 38 | - | 2 | 2 |
| Upstate N.Y. | 11 | - | 126 | 415 | 101 | 20 | 41 | - | 28 | - | 117 | 16 | - | 1 | 1 |
| N.Y. City | 21 | 5 | 31 | $1 \dagger$ | 5 | 24 | 9 | - | - | - | - | 1 | - | - | 1 |
| N.J. | 9 | - | 8 | - | - | 129 | 24 | - | 19 | - | 7 | 17 | - | - | - |
| Pa . | 12 | 24 | 149 | - | 6 | 9 | 43 | 4 | 28 | 1 | 20 | 4 | - | 1 | - |
| E.N. CENTRAL | 11 | 11 | 1,175 | - | 119 | 167 | 97 | 9 | 116 | - | 126 | 60 | - | 5 | 4 |
| Ohio | 3 | - | 139 | - | - | 97 | 34 | - | 29 | - | 30 | 1 | - | - | , |
| Ind. | - | - | 100 | - | - | - | 10 | - | 5 | - | 31 | 3 | - | - | - |
| III. | 2 | 1 | 480 | - | - | 69 | 26 | $\square$ | 19 | - | 20 | 26 | - | 5 | 3 |
| Mich. | 4 | 10 | 146 | - | 119 | - | 17 | 9 | 48 | - | 28 | 6 | - | - | - |
| Wis. | 2 | - | 310 | - | - | 1 | 10 | - | 15 | - | 17 | 24 | - | - | 1 |
| W.N. CENTRAL | 2 | - | 83 | - | 1 | 221 | 26 | 1 | 43 | 1 | 12 | 14 | - | - | 1 |
| Minn. | - | - | 27 | - | 1 | - | 5 | - | - | - | - | - | - | - | - |
| lowa | - | - | 21 | - | - | - | 1 | 1 | 7 | 1 | 2 | 6 | - | - | - |
| Mo. | 2 | - | 35 | - | - | 211 | 10 | - | 21 | - | 7 | 7 | - | - | 1 |
| N. Dak. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S. Dak. | - | - | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - |
| Nebr. | - | - | - | - | - | - | 3 | - | 1 | - | 1 | - | - | - | - |
| Kans. | - | - | - | - | - | 10 | 5 | - | 14 | - | 1 | 1 | - | - | - |
| S. ATLANTIC | 54 | 5 | 181 | - | 42 | 104 | 129 | 35 | 444 | 2 | 54 | 31 | - | 9 | - |
| Del. | 1 | , | 4 | - | - | - | 1 |  | - | - | 1 | 3 | - |  | - |
| Md. | 12 | 1 | 17 | - | 11 | 10 | 15 | 33 | 264 | 1 | 19 | 4 | - | - | - |
| D.C. | 5 | - | - | - | 1 | 2 | 2 | - | 5 | - | 1 | - | - | - | - |
| Va . | 13 | - | 9 | - | 2 | - | 16 | - | 12 | - | 4 | 3 | - | - | - |
| W. Va. | 1 | - | 6 | - | - | - | 5 | 2 | 32 | - | 5 | 4 | - | - | - |
| N.C. | 5 | - | 3 | - | - | 90 | 22 | - | 27 | 1 | 9 | 10 | - | - | - |
| S.C. | - | - | 1 | - | - | , | 10 | - | 10 |  | 3 | 0 | . | - | - |
| Ga. | 5 | - | 2 | - | 8 | - | 24 | - | 25 | - | 8 | 4 | - | - | - |
| Fla. | 12 | 4 | 139 | - | 20 | 2 | 34 | - | 69 | - | 4 | 6 | - | 9 | - |
| E.S. CENTRAL | 4 | 1 | 38 | - | - | 2 | 37 | 1 | 34 | 4 | 22 | 24 | - | 1 | - |
| Ky. | 1 | - | - | - | - | 1 | 12 |  | - |  | 22 | 2 | - | - | - |
| Tenn. | 2 | - | 18 | - | - | - | 13 | - | 14 | 2 | 8 | 11 | - | 1 | - |
| Ala. | 1 | 1 | 5 | - | - | 1 | 12 | - | 3 | 2 | 13 | 10 | - |  | . |
| Miss. | - | - | 15 | - | - | - |  | 1 | 17 | 2 | 1 | 3 | - | - | - |
| W.S. CENTRAL | 2 | 51 | 290 | 2 | 11 | 939 | 47 | 20 | 256 | - | 9 | 7 | - | - | 5 |
| Ark. | - | - | - | - | - |  | 3 | 9 | 69 | - | - | 3 | - | - |  |
| La. | - | - | ${ }^{-}$ | - | - | 1 | 11 | 7 | 53 | - | 1 | 1 | - | - | - |
| Okla. | 2 | - | 38 | - | - | 23 | 7 |  | 63 | - | 8 | 3 | - | - | - |
| Tex. | - | 51 | 252 | $25 \dagger$ | 11 | 915 | 26 | 4 | 71 | - |  | 3 | - | - | 5 |
| MOUNTAIN | 5 | 25 | 109 | 1 | 14 | 18 | 18 | 6 | 73 | 4 | 57 | 187 | 5 | 6 | 2 |
| Mont. |  | - | - | 15 | 1 | 13 | 4 | - |  | 4 | - | - | 5 | 5 | 1 |
| Idaho | 2 | - | - | - | - | 1 | - | - | 31 | 2 | 4 | 13 | 5 | 1 | , |
| Wyo. | - | - | $\cdots$ | - | - | - | - | - | 2 | . | - | - | - | . | - |
| Colo. | - | 1 | 11 | - | 2 | 1 | 9 | 1 | 7 | 2 | 39 | 17 | - | - | - |
| N. Mex. | - | 12 | 34 | - | 2 | 2 | $\bigcirc$ | N | N | 2 | 1 | 3 | - | - | - |
| Ariz. | 3 | 6 | 43 | - | 8 | 1 | 2 | 2 | 24 | - | 7 | 148 | - | - | . |
| Utah |  | - |  | - |  | , | 1 | 2 | 2 | - | 3 | 5 | - | . | - |
| Nev. | $\bullet$ | 6 | 21 | - | 3 | - | 2 | 3 | 7 | - | 3 | 1 | - | . | 1 |
| PACIFIC | 73 | 2 | 806 | - | 20 | 247 | 210 | 9 | 146 | 6 | 66 | 67 | 16 | 93 | 40 |
| Wash. | 5 | - | 6 | - | 11 | 1 | 21 | - | 16 | 4 | 20 | 13 |  |  | - |
| Oreg. | 4 | - | - | - | 1 | , | 24 | N | N | 4 | 3 | 2 | - | - | - |
| Calif. | 63 |  | 761 | - | 8 | 242 | 161 | 9 | 127 | 1 | 38 | 50 | 16 | 89 | 34 |
| Alaska | - | 2 | 38 | - | - | - | 4 |  | - |  | 38 | - |  | - | 34 |
| Hawaii | 1 | - | 1 | - | 1 | 4 | - | - | 3 | 1 | 5 | 2 | - | 4 | 6 |
| Guam | 1 | U | - | U | - | - | - | U | - | U | - | 1 | U | - | - |
| P.R. | - | 54 | 101 | - | - | 149 | 4 |  | 3 |  | 4 | 2 | U | - | 2 |
| V.I. | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | 2 |
| Amer. Samoa | - | U | - | U | - | - | - | U | - | U | . | - | U | - | - |
| C.N.M.I. | - | U | - | U | - | - | - | U | 2 | U | - | - | U | - | - |

*For measles only, imported cases includes both out-of-state and international importations.
N : Not notifiable

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending March 24, 1990 and March 25, 1989 (12th Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxicshock Syndrome | Tuberculosis |  | Tula-remia | Typhoid <br> Fever <br> Cum. <br> 1990 | Typhus Fever <br> (Tick-borne) <br> (RMSF) <br> Cum. <br> 1990 | Rabies, <br> Animal <br> Cum. <br> 1990 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1989 \end{aligned}$ |  |  |  |  |
| UNITED STATES | 10,636 | 9,172 | 85 | 4,234 | 4,201 | 8 | 79 | 19 | 687 |
| NEW ENGLAND | 443 | 356 | 5 | 85 | 99 | - | 4 | - | - |
| Maine | 3 | $1$ | . | - | 2 | - | - | - | - |
| N.H. | 26 | - | 1 | 1 | 4 | - | - | - | - |
| Vt. | - | - | - | 2 | 1 | - | - | - | - |
| Mass. | 162 | 121 | 3 | 35 | 51 | - | 3 | - | . |
| R.I. | 1 | 9 | - | 20 | 17 | . | - | - | - |
| Conn. | 251 | 225 | 1 | 27 | 24 | - | 1 | - | - |
| MID. ATLANTIC | 2,219 | 1,813 | 9 | 1,080 | 906 | 1 | 20 | 3 | 182 |
| Upstate N.Y. | 140 | 172 | 4 | 17 | 79 | , | 7 | 3 | 3 |
| N.Y. City | 1,238 | 733 | 2 | 753 | 552 | - | 5 | - | - |
| N.J. | 365 | 302 | - | 159 | 126 | 1 | 7 | 3 | 60 |
| Pa . | 476 | 606 | 3 | 151 | 149 | - | 1 | - | 119 |
| E.N. CENTRAL | 608 | 329 | 25 | 460 | 454 | - | 10 | 1 | 11 |
| Ohio | 110 | 23 | 10 | 57 | 82 | - | 3 | . | 2 |
| Ind. | 6 | 12 | 2 | 17 | 32 | - |  | - | 2 |
| III. | 240 | 153 | - | 216 | 203 | - | 4 | - | 4 |
| Mich. | 170 | 125 | 13 | 149 | 121 | - | 3 | 1 |  |
| Wis. | 82 | 16 |  | 21 | 16 | - | 3 | 1 | 5 |
| W.N. CENTRAL | 80 | 70 | 9 | 104 | 118 | 4 | - | 2 | 84 |
| Minn. | 31 | 6 |  | 20 | 26 |  | - | 2 | 38 |
| lowa | 7 | 11 | 1 | 10 | 22 | - | - | - | 10 |
| Mo. | 36 | 34 | 5 | 47 | 39 | 3 | - | 2 | 2 |
| N. Dak. | 1 | 1 |  | 4 | 4 |  | - | 2 | 11 |
| S. Dak. | - | 0 | - | 4 | 7 | - | - | - | 13 |
| Nebr. | 2 | 10 | 2 | 7 | 6 | 1 | - | - |  |
| Kans. | 3 | 8 | 1 | 12 | 14 | - | - | - | 10 |
| S. ATLANTIC | 3,518 | 3,343 | 2 | 798 | 855 | 2 | 7 | 5 | 217 |
| Del. | 51 | 43 | - | 9 | 6 | - |  | - | 2 |
| Md. | 289 | 182 | - | 76 | 68 | - | 4 | - | 65 |
| D.C. | 310 | 192 | - | 21 | 43 | - |  | . |  |
| Va. | 155 | 134 | - | 63 | 77 | - | - | - | 48 |
| W. Va. | 4 | 4 | - | 13 | 21 | - | - | - | 4 |
| N.C. | 399 | 191 | 1 | 100 | 69 | 1 | - | 3 | 2 |
| S.C. | 216 | 154 |  | 109 | 89 | 1 | - | 2 | 26 |
| Ga. | 765 | 752 | - | 108 | 119 | 1 | $1$ | 2 | 55 |
| Fla. | 1,329 | 1,691 | 1 | 299 | 363 | - | 2 | - | 15 |
| E.S. CENTRAL | 942 | 638 | 5 | 277 | 374 | - | - | 1 | 26 |
| Ky. | 18 | 15 | - | 91 | 90 | - | - |  | 10 |
| Tenn. | 326 | 253 | 3 | 63 | 94 | - | - | 1 | 1 |
| Ala. | 331 | 234 | 2 | 95 | 116 | - | - | . | 15 |
| Miss. | 267 | 136 |  | 28 | 74 | - | - | - |  |
| W.S. CENTRAL | 1,667 | 1,220 | 5 | 518 | 437 | - | 2 | 6 | 93 |
| Ark. | 110 | 94 | . | 59 | 56 | - | 2 | 6 | 6 |
| La. | 518 | 254 | 1 | 62 | 61 | - | - | - | - |
| Okla. | 48 | 15 | 4 | 44 | 26 | - | - | 6 | 19 |
| Tex. | 991 | 857 |  | 353 | 294 | - | 2 | 6 | 68 |
| MOUNTAIN | 186 | 183 | 11 | 99 | 128 | 1 | 6 | - | 19 |
| Mont. | - | 183 | - | 4 | 4 | 1 | 6 | - | 7 |
| Idaho | 4 | - | 1 | 1 | 3 | - | . | - | 7 |
| Wyo. | - | - | 1 | . | - | . | - | - | 10 |
| Colo. | 13 | 36 | 3 | 6 | 2 | - | - | - | 10 |
| N. Mex. | 11 | 4 | 4 | 23 | 19 | 1 | - | - | 1 |
| Ariz. | 128 | 40 | 2 | 50 | 61 | . | 4 | . | 1 |
| Utah | 2 | 5 | - | - | 21 | - | - | - | - |
| Nev. | 28 | 98 | - | 15 | 18 | - | 2 | - | 1 |
|  | 973 | 1,220 | 14 | 813 | 830 | - | 30 | 1 | 55 |
| Wash. | 62 | 80 | 1 | 59 | 43 | - | 30 | 1 | 5 |
| Oreg. | 24 | 69 | - | 21 | 27 | - | - | - | - |
| Calif. | 878 | 1,064 | 12 | 694 | 709 | . | 29 | 1 | 41 |
| Alaska | 3 | 2 | - | 13 | 13 | - | - | . | 14 |
| Hawaii | 6 | 5 | 1 | 26 | 38 | - | 1 | - | 1 |
| Guam |  | 3 | - | 8 | 18 | - | - | - |  |
| P.R. | 228 | 102 | - | 29 | 52 | - | - | - | 7 |
| V.ı. |  | 1 | - | 1 | 1 | - | - | - | 7 |
| Amer. Samoa | - | - | - | 3 | 1 | - | - | - | - |
| C.N.M.I. | - | 1 | - | 6 | 1 | \% | 4 | - | - |

TABLE IV. Deaths in 121 U.S. cities,* week ending March 24, 1990 (12th Week)

*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or included.
**Pneumonia and influenza.
$\dagger$ 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.
$\dagger \dagger$ Total includes unknown ages.
§Data not available. Figures are estimates based on average of past available 4 weeks.

The national surveillance of AIDS cases reported a 32\% increase in deaths from 1986 to 1987 (CDC, unpublished data). Although part of this increase may be due to modification of the AIDS case definition in 1987 (4), mortality from AIDS appears to be increasing more rapidly than mortality from other conditions.
References

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## Epidemiologic Notes and Reports

## Bovine Tuberculosis - Pennsylvania

In July 1989, the first outbreak of bovine tuberculosis reported in Pennsylvania since 1978 was detected during routine veterinary surveillance. No human cases were detected.

In a herd of 122 dairy cattle, 109 ( $89 \%$ ) had positive skin tests for Mycobacterium bovis after routine cervical injection of bovine purified protein derivative (PPD). Since 1985, 11,336 cattle were known to have had contact (e.g., were in the same shows, corrals, or adjacent pastures or were transported together) with the index herd. All identified contacts were tested, and $12(0.1 \%)$ had positive skin tests for M. bovis. All cattle with positive skin tests were euthanized and autopsied. Caseating granulomata were present in $16(15 \%)$ of the 109 cattle with positive tests in the index herd but none of the 12 others with positive tests associated with the outbreak. Culture specimens of granulomatous mediastinal lymph nodes from 15 of the 16 grossly positive animals were positive for $M$. bovis.

Forty-two persons were identified who had consumed raw milk products from the index herd or had had direct contact through work with skin-test-positive cattle from the index herd during the past 5 years. Each of these persons was tested with an intradermal injection of 0.1 mL ( 5 tuberculin units [TU]) of tuberculin, PPD (Tubersol*, Connaught Laboratories, Inc.); none were positive (i.e., induration $\geqslant 10 \mathrm{~mm}$ ).

In Pennsylvania, more than 150,000 cattle annually are given caudal skin tests for M. bovis. Initially, 2500 TU of bovine PPD are injected intradermally into the caudal region of each animal. Any animal with palpable induration at the injection site 72 hours later receives confirmatory testing. Confirmatory testing consists of intradermal injection of matched equipotent doses of bovine and avian PPD (approximately 2500 TU and 800 TU, respectively) at separate sites in the cervical region. Induration at each site is measured 72 hours after injection and the results plotted against a standard curve (1). Animals with greater than expected induration at the bovine PPD site are considered positive and are euthanized and autopsied. If any cattle in a herd

[^2]
## Bovine Tuberculosis - Continued

are positive for bovine PPD on confirmatory testing, the entire herd is retested with a cervical intradermal injection of 5000 TU of bovine PPD. All animals in the herd with induration in response to this double-strength bovine PPD injection are considered positive and are euthanized and autopsied.

Since 1978, less than five cattle per year have been euthanized and autopsied as a result of this protocol. In 1988, 178,013 cattle were given caudal skin tests in Pennsylvania, of which 378 ( $0.2 \%$ ) were positive; two of these animals were positive on confirmatory cervical testing, and neither of these was positive on autopsy. The infected index herd reported here had been tested during 1988, and none had induration after caudal skin testing during that year. The veterinarian and source of tuberculin used in screening were the same in 1988 as in 1989, and no cattle were introduced into the herd between skin testing in 1988 and 1989.

The Pennsylvania Department of Health has advised all persons known to have contact with skin-test-positive cattle, especially consumers of raw milk products, to have skin testing performed by the department of health. The source of this outbreak is unknown.
Reported by: R Yoxheimer, VMD, Pennsylvania Dept of Agriculture; D Tavris, MD, State Epidemiologist, Pennsylvania State Dept of Health. Bacterial Zoonoses Activity, Div of Bacterial Diseases, Center for Infectious Diseases; Div of Tuberculosis Control, Center for Prevention Svcs; Div of Field Svcs, Epidemiology Program Office, CDC.
Editorial Note: From 1900 to 1930, M. bovis was isolated from 6\%-30\% of human tuberculosis patients in the United States and the United Kingdom (2,3). M. bovis can be transmitted from cattle to humans by consumption of raw milk or by respiratory exposure either to live infected cattle or to their carcasses (2-4). Humans with pulmonary $M$. bovis infections can transmit the disease to other humans or to cattle; cattle can also be infected by humans with $M$. bovis urinary tract infections (3). Cattle can transmit $M$. bovis to other cattle, probably by respiratory secretions (5,6). Since opportunistic Mycobacterium sp. also infect cattle, comparative testing with $M$. avium antigen is useful to enhance the specificity of skin testing with bovine PPD (7).

Declining rates of $\boldsymbol{M}$. bovis isolation from human tuberculosis patients have been associated with milk pasteurization and with cattle inspection programs $(2,3,8,9)$ such as that initiated in the United States in 1917. Since 1950, M. bovis has accounted for $<1 \%$ of human tuberculosis cases in North America (2,9). M. bovis continues to cause disease in humans, however, and is sometimes fatal (10). Continued surveillance of cattle and continued warning against the consumption of raw milk are necessary to protect the human population from this infectious agent and can help eliminate tuberculosis by the year 2010 (11).
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## Rabies in a Llama - Oklahoma

On November 28, 1989, the first reported case of rabies in a llama in the United States occurred in Oklahoma in a 10-year-old male llama. Approximately 4 weeks before onset of symptoms, the llama was brought to southern Oklahoma from northern Texas, where it had been kept in a pasture for 2 years. On November 21, the llama had onset of ataxia, aggressive behavior, and progressive hind-leg paralysis; the animal died November 27. Rabies was diagnosed by fluorescent antibody test of brain tissue. Monoclonal antibody testing showed that the virus was identical to the antigenically distinct group of viruses found in skunks from the south-central United States.

Two dogs, four llamas, and 46 Angora goats have been quarantined for 6 months' observation because of possible exposure to the rabid llama; these animals had shared a pasture in Oklahoma. Rabies prophylaxis was administered to 13 persons, including the owner and his family, a veterinarian, a veterinarian aide, caretakers, and family friends who were exposed to the llama during the illness or 2 weeks before onset of illness.

Of 3163 animal specimens submitted for rabies testing to the Oklahoma State Department of Health in 1989, 102 (3\%) were positive for rabies, including specimens from 74 skunks, seven cattle, six bats, six cats, four dogs, three horses, one raccoon, and one llama. In 1989, two rabid skunks were identified in the Oklahoma county and two in the Texas county where the llama had been kept.
Reported by: M Milton, Stephens County Health Dept; P Boden, MS, C Crocker, K Krisher, PhD, S McNabb, PhD, GR Istre, MD, State Epidemiologist, Oklahoma State Dept of Health. J Perdue, Texas Dept of Health. Viral and Rickettsial Zoonoses Br, Div of Viral and Rickettsial Diseases, Center for Infectious Diseases; Div of Field Svcs, Epidemiology Program Office, CDC.
Editorial Note: Llamas (members of the ungulate family) have become increasingly popular domesticated animals. Approximately 20,000 llamas are currently registered in the United States (International Llama Registry, unpublished data), with approximately 200 being kept in Oklahoma; most of these animals are kept for breeding and showing. The potential for human exposure to rabies from infected llamas at fairs, petting zoos, and parades is a public health concern because of the llama's defensive spitting behavior. No rabies vaccine is licensed for use in llamas.

Virtually all mammals are susceptible to rabies virus infection (1). In the United States, four wild animal groups (bats, foxes, raccoons, and skunks) accounted for at least 85\% of reported rabies cases during 1980-1988 (1). Most animals that develop rabies in Oklahoma are believed to be infected from skunks.

Rabies - Continued
In recent years, rabies has been reported for the first time in javelinas (2) and armadillos (3). Rabies must be considered in the differential diagnosis of any mammal with unexplained neurologic illness.

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## Addendum: Vol. 39, No. 10

In the article "Influenza Vaccination Coverage Levels in Selected Sites-United States, 1989," the following persons should be added to the credits on page 165: A Hassol, MS, RJ Schmitz, PhD, AM Schwartz, Abt Associates Inc., Cambridge, Massachusetts.


#### Abstract

The Morbidity and Mortality Weekly Report is prepared by the Centers for Disease Control, Atlanta, Georgia, and available on a paid subscription basis from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, (202) 783-3238.

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; telephone (404) 332-4555.


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[^0]:    *Age-adjusted to the 1940 U.S. population.
    'When a death occurs under "accidental" circumstances, the preferred term within the public health community is "unintentional injury."
    ${ }^{5}$ Hispanics are included in totals for both white persons and black persons.

[^1]:    *Because AIDS cases are not received weekly from all reporting areas, comparison of weekly figures may be misleading.
    ${ }^{\dagger}$ Two of the 175 reported cases for this week were imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.
    ${ }^{5}$ One case of suspected poliomyelitis has been reported in 1990; none of 13 suspected cases in 1989 have been confirmed to date. Nine of 14 suspected cases in 1988 were confirmed and all were vaccine-associated.

[^2]:    *Use of trade names is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

