CENTERS FOR DISEASE CONTROL


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## Progress in Chronic Disease Prevention

## Chronic Disease Reports: <br> Chronic Obstructive Pulmonary Disease Mortality - United States, 1986

In 1986, 71,099 persons in the United States died from chronic obstructive pulmonary disease (COPD) (i.e., chronic bronchitis [International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) 491], emphysema [ICD-9-CM 492], and "chronic airway obstruction, not otherwise classified" [ICD-9-CM 496]) (Table 1). Rates of COPD mortality increase with age and are 1.8 times higher in males than females and 2.8 times higher in whites than in blacks (1).

Rates of COPD mortality, age-adjusted to the 1986 U.S. population, were highest in the West (excluding Utah and Hawaii); rates were also high in Kentucky, West Virginia, and Maine (Figure 1, Table 1). Rates were lowest in Hawaii (16.9 per 100,000 population) and highest in Wyoming (49.0 per 100,000).

CHRONIC DISEASE REPORTS: CHRONIC OBSTRUCTIVE PULMONARY DISEASE, FIGURE 1. Age-adjusted chronic obstructive pulmonary disease mortality rates per 100,000 population, by quartile - United States, 1986*

*U.S. standard age distribution. See MMWR 1989;38:191.

COPD Mortality - Continued
CHRONIC DISEASE REPORTS: CHRONIC OBSTRUCTIVE PULMONARY DISEASE, TABLE 1. Chronic obstructive pulmonary disease deaths, age-adjusted mortality rate per 100,000 population, and rank by rate, by area - United States, 1986

| Area | Deaths | Rate per 100,000 | Rank by rate |
| :---: | :---: | :---: | :---: |
| Alabama | 1252 | 30.8 | 23 |
| Alaska | 56 | 35.4 | 12 |
| Arizona | 1257 | 37.9 | 9 |
| Arkansas | 716 | 25.6 | 38 |
| California | 7838 | 32.5 | 17 |
| Colorado | 1046 | 42.6 | 3 |
| Connecticut | 804 | 23.2 | 48 |
| Delaware | 181 | 30.7 | 25 |
| District of Columbia | 123 | 19.0 | 50 |
| Florida | 4575 | 27.6 | 33 |
| Georgia | 1587 | 31.0 | 21 |
| Hawaii | 141 | 16.9 | 51 |
| Idaho | 352 | 39.0 | 8 |
| lllinois | 3157 | 27.5 | 34 |
| Indiana | 1863 | 34.4 | 14 |
| lowa | 978 | 28.4 | 32 |
| Kansas | 844 | 30.8 | 24 |
| Kentucky | 1469 | 39.6 | 6 |
| Louisiana | 928 | 24.9 | 44 |
| Maine | 480 | 36.6 | 11 |
| Maryland | 1123 | 29.2 | 28 |
| Massachusetts | 1773 | 26.5 | 37 |
| Michigan | 2705 | 31.5 | 19 |
| Minnesota | 1056 | 23.7 | 47 |
| Mississippi | 636 | 24.7 | 45 |
| Missouri | 1804 | 31.1 | 20 |
| Montana | 327 | 41.1 | 4 |
| Nebraska | 455 | 25.0 | 43 |
| Nevada | 354 | 48.3 | 2 |
| New Hampshire | 313 | 30.9 | 22 |
| New Jersey | 2028 | 25.3 | 41 |
| New Mexico | 465 | 39.9 | 5 |
| New York | 4912 | 25.6 | 40 |
| North Carolina | 1647 | 27.4 | 36 |
| North Dakota | 163 | 22.6 | 49 |
| Ohio | 3548 | 32.7 | 16 |
| Oklahoma | 979 | 29.0 | 30 |
| Oregon | 998 | 34.9 | 13 |
| Pennsylvania | 4025 | 29.1 | 29 |
| Rhode Island | 340 | 28.9 | 31 |
| South Carolina | 799 | 27.5 | 35 |
| South Dakota | 209 | 25.6 | 39 |
| Tennessee | 1559 | 32.2 | 18 |
| Texas | 3410 | 25.3 | 42 |
| Utah | 326 | 29.4 | 27 |
| Vermont | 185 | 34.1 | 15 |
| Virginia | 1487 | 29.9 | 26 |
| Washington | 1589 | 37.5 | 10 |
| West Virginia | 824 | 39.4 | 7 |
| Wisconsin | 1243 | 24.0 | 46 |
| Wyoming | 170 | 49.1 | 1 |
| Total | 71,099 | 29.5 |  |

CHRONIC DISEASE REPORTS: CHRONIC OBSTRUCTIVE PULMONARY DISEASE, TABLE 2. Chronic obstructive pulmonary disease (COPD [ICD-9-CM 491-2, 496]) indices, risk factors, and attributable mortality - United States, 1986

*NCHS. Vital statistics mortality data, multiple cause of death detail, 1986 [machine-readable public-use data tape]. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, 1988 (ICD-9-CM 491-2, 496).
${ }^{\dagger}$ Calculated for chronic bronchitis and emphysema. NCHS. Current estimates from the National Health Interview Survey, United States, 1987. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, 1988; DHHS publication no. (PHS)88-1594. (Vital and health statistics; series 10, no. 166).
${ }^{5}$ NCHS. National Hospital Discharge Survey, 1987 [machine-readable public-use data tape]. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, 1987 (ICD-9-CM 491-2, 496).
${ }^{1}$ CDC. Years of potential life lost before age 65—United States, 1987. MMWR 1989;38:27-9 (ICD-9-CM 490-496).
**Population-attributable risk (PAR) = percentage of mortality attributable to the specific risk factor in the population. PAR is calculated separately for current and former smokers within each gender category. Morgenstern H, Bursic ES. A method for using epidemiologic data to estimate the potential impact of an intervention on the health status of a target population. J Community Health 1982;7:292-309.
${ }^{\text {tt Estimated }}$ attributable deaths $(E A D)=$ PAR $\times$ multiple cause mortality. Because smoking exposure levels and populations at risk (male and female) are exclusive, EAD are additive in this table.
${ }^{\$ 5}$ Data are for adults, aged $\geqslant 35$ years, in 1985 (CDC, unpublished analysis of data from Current Population Survey).
"TRisk for death from COPD (ICD-9-CM 490-496) in adults $\geqslant 35$ years of age (relative to never smokers). CDC. Reducing the health consequences of smoking: 25 years of progress - a report of the Surgeon General, 1989. Rockville, Maryland: US Department of Health and Human Services, Public Health Service, 1989; DHHS publication no. (CDC)89-8411.

COPD Mortality - Continued
The principal modifiable risk factor for COPD is cigarette smoking; risk varies by smoking status and gender of the smoker (Table 2) (2). For 1986, with established methods (3), it was estimated that $82 \%$ of COPD mortality was attributable to smoking.
Reported by: Div of Surveillance and Epidemiologic Studies, Epidemiology Program Office; Office on Smoking and Health, Center for Chronic Disease Prevention and Health Promotion, CDC.
Editorial Note: Cigarette smoking accounts for most mortality associated with COPD. Several factors can affect COPD mortality patterns and may explain three apparent inconsistencies. First, while COPD mortality has increased by 33\% since 1979 (4), the prevalence of smoking in the United States has declined steadily since 1965 (2); this may reflect the long latency between smoking exposure and death due to COPD (4).

Second, the prevalence of current smoking is higher in eastern states (5), where COPD rates are lower. The long latency between smoking exposure and COPD occurrence also in part may account for this contrast. Other geographic factors might also explain the distribution of COPD mortality: the migration of persons with chronic lung disease to the West (6) and differences in occupational or environmental exposures.

Finally, the higher rate of COPD mortality in whites contrasts with the higher prevalence of current cigarette smoking in blacks (2). This pattern may be related to the higher mortality rates among younger blacks from other causes (7).

## References

1. NCHS. Vital statistics of the United States, 1986. Vol II-Mortality, pt A. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, 1988:105; DHHS publication no. (PHS)88-1122.
2. CDC. Reducing the health consequences of smoking: 25 years of progress-a report of the Surgeon General. Rockville, Maryland: US Department of Health and Human Services, Public Health Service, 1989; DHHS publication no. (CDC)89-8411.
3. Morgenstern H, Bursic ES. A method for using epidemiologic data to estimate the potential impact of an intervention on the health status of a target population. J Community Health 1982;7:292-309.
4. CDC. Chronic disease reports: mortality trends - United States, 1979-1986. MMWR 1989;38: 189-91.
5. CDC. Regional variation in smoking prevalence and cessation: Behavioral Risk Factor Surveillance, 1986. MMWR 1987;36:751-4.
6. Lebowitz MD, Burrows B. Tucson epidemiologic study of obstructive lung diseases. II. Effects of in-migration factors on the prevalence of obstructive lung diseases. Am J Epidemiol 1975;102:153-63.
7. Davis RM, Novotny TE. The epidemiology of cigarette smoking and its impact on chronic obstructive pulmonary disease. Am Rev Respir Dis (in press).

## State-Specific Smoking-Attributable Chronic Obstructive Pulmonary Disease Mortality - United States, 1986

Estimates of mortality caused by smoking-attributable chronic obstructive pulmonary disease (SA-COPD) indicate substantial differences by state and region, with higher rates in the West (1). To examine these variations, CDC analyzed 1986 state-specific current smoking prevalence rates, quit ratios (2), and age-adjusted SA-COPD mortality rates for adults aged $\geqslant 35$ years.

For this report, current smokers are defined as persons who have smoked at least 100 cigarettes and who continue to smoke; former smokers as persons who have

## Smoking-Attributable COPD - Continued

smoked 100 cigarettes but who no longer smoke; and ever smokers as current and former smokers combined. Regional patterns in smoking cessation are based on state-specific "quit ratios," defined as the proportion of ever smokers who are former smokers (3).

SA-COPD mortality estimates are derived from relative risk estimates for death from COPD in current and former smokers aged $\geqslant 35$ years (4); these relative risks are based on a prospective mortality study sponsored by the American Cancer Society $(3,5)$. State-specific SA-COPD mortality rates are sex- and age-adjusted to the 1986 U.S. population, and attributable risk percentages are calculated by standard methods (6).

Current smoking prevalence among persons aged $\geqslant 35$ years ranged from $10 \%$ in Utah to $35 \%$ in Alaska. The quit ratio ranged from 39\% in Alaska to 54\% in Utah (Table 1, page 559). Regional variations included higher current smoking prevalence in the eastern and southern states (Figure 1, page 560) but higher quit ratios in the West (Figure 2, page 560).

SA-COPD mortality rates ranged from 28.0 per 100,000 persons in Hawaii to 87.4 per 100,000 in Wyoming (Table 1). The geographic distribution of state-specific SA-COPD mortality rates (Figure 3) was similar to the pattern for total COPD death rates (1), with the highest SA-COPD mortality rates in the western states.
Reported by: Office on Smoking and Health, Center for Chronic Disease Prevention and Health Promotion, CDC.
Editorial Note: The regional pattern for SA-COPD mortality differs from that of prevalence of current smoking among adults. One explanation for this difference may relate to migration patterns of persons with SA-COPD who relocate to the West before dying from their disease (7). Alternatively, the difference may reflect the regional distribution of current smoking, quit ratios, and the mortality patterns for other smoking-related diseases (i.e., coronary heart disease, lung cancer, and stroke).

In general, current smokers die younger than never smokers or former smokers (8). Therefore, regional variations in the prevalence of smoking and smoking

FIGURE 1. Percentage of current smoking among adults $\geqslant 35$ years of age, by quartile - United States, 1985


Smoking-Attributable COPD - Continued
cessation may contribute substantially to regional mortality patterns for several chronic diseases. The regional concentration of higher age-adjusted mortality rates for stroke (9), coronary heart disease (10), and lung cancer (11) in the East and South more closely approximates the distribution of higher current smoking prevalence. Conversely, the regional distribution of SA-COPD mortality is similar to the regional distribution of higher quit ratios. Thus, the incidence of premature death due to stroke, coronary heart disease, and lung cancer may be reduced in populations characterized by lower current smoking prevalence rates and higher quit ratios. However, these populations ultimately may have higher SA-COPD mortality rates because of previous smoking exposure. Additional epidemiologic analyses are necessary to assess the possible link between smoking-attributable chronic disease mortality patterns and changes in smoking behavior.

Efforts to prevent initiation of smoking and promote cessation of smoking are known to reduce mortality associated with COPD and other chronic diseases (3).
(Continued on page 559)
TABLE I. Summary - cases of specified notifiable diseases, United States

| Disease | 32nd Week Ending |  |  | Cumulative, 32nd Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Aug. 12, } \\ 1989 \end{gathered}$ | $\begin{gathered} \text { Aug. } 13, \\ 1988 \end{gathered}$ | Median 1984-1988 | $\begin{gathered} \text { Aug. 12, } \\ 1989 \end{gathered}$ | $\begin{gathered} \text { Aug. 13, } \\ 1988 \end{gathered}$ | Median 1984-1988 |
| Acquired Immunodeficiency Syndrome (AIDS) | 385 | U* | 371 | 20,803 | 19,335 | 7,715 |
| Aseptic meningitis | 299 | 194 | 349 | 3,752 | 3,125 | 3,784 |
| Encephalitis: Primary (arthropod-borne \& unspec) | 17 | 24 | 28 | 396 | 470 | 578 |
| Post-infectious | 5 | 7 | 3 | 59 | 79 | 79 |
| Gonorrhea: Civilian | 10,329 | 14,233 | 16,871 | 397,638 | 415,751 | 496,495 |
| Military | 175 | 366 | 366 | 6,479 | 7,561 | 10,356 |
| Hepatitis: Type A | 711 | 503 | 406 | 20,575 | 15,097 | 13,462 |
| Type B | 440 | 529 | 508 | 13,881 | 13,695 | 15,434 |
| Non A, Non B | 49 | 58 | 58 | 1,470 | 1,624 | 2,241 |
| Unspecified | 34 | 49 | 88 | 1,445 | 1,289 | 2,844 |
| Legionellosis | 24 | 42 | 21 | 581 | 589 | 441 |
| Leprosy | 2 | 4 | 3 | 96 | 103 | 139 |
| Malaria ${ }^{\text {a }}{ }^{\dagger}$ | 16 | 27 | 23 | 701 | 524 | 537 |
| Measles: Total ${ }^{\dagger}$ | 222 | 59 | 59 | 9,189 | 2,046 | 2,236 |
| Indigenous | 207 | 54 | 54 | 8,786 | 1,831 | 1,924 |
| Imported | 15 | 5 | 5 | 403 | 215 | 255 |
| Meningococcal infections | 38 | 37 | 32 | 1,838 | 1,996 | 1,916 |
| Mumps | 38 | 33 | 34 | 3,719 | 3,313 | 3,187 |
| Pertussis | 82 | 93 | 85 | 1,654 | 1,517 | 1,427 |
| Rubella (German measles) | 4 | 4 | 8 | 283 | 142 | 391 |
| Syphilis (Primary \& Secondary): Civilian | 474 | 1,787 | 565 | 24,551 | 25,160 | 16,932 |
| Military | 2 | $1{ }^{2}$ | 4 | 152 | 106 | 111 |
| Toxic Shock syndrome | 4 | 11 | 11 | 224 | 215 | 220 |
| Tuberculosis | 290 | 504 | 397 | 12,692 | 12,625 | 12,819 |
| Tularemia | 5 | 8 | 8 | 92 | 121 | 121 |
| Typhoid Fever | 23 | 10 | 10 | 287 | 213 | 201 |
| Typhus fever, tick-borne (RMSF) | 19 | 25 | 25 | 342 | 377 | 396 |
| Rabies, animal | 87 | 76 | 107 | 2,925 | 2,614 | 3,135 |

TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1989 |  | Cum. 1989 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | Leptospirosis (La. 1, Hawaii 2) | 64 |
| Botulism: Foodborne | 15 | Plague | 3 |
| Infant | 8 | Poliomyelitis, Paralytic | - |
| Other | 5 | Psittacosis (Pa. 1, lowa 1, Wyo. 1) | 62 |
| Brucellosis (Tex. 1) | 55 | Rabies, human | 1 |
| Cholera | - | Tetanus | 31 |
| Congenital rubella syndrome | 1 | Trichinosis | 14 |
| Congenital syphilis, ages < 1 year Diphtheria | 81 |  |  |

[^0]TABLE III. Cases of specified notifiable diseases, United States, weeks ending
August 12, 1989 and August 13, 1988 (32nd Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ |
| UNITED STATES | 20,803 | 3,752 | 396 | 59 | 397,638 | 415,751 | 20,575 | 13,881 | 1,470 | 1,445 | 581 | 96 |
| NEW ENGLAND | 845 | 196 | 15 | 2 | 11,655 | 12,735 | 443 | 672 | 51 | 54 | 39 | 6 |
| Maine | 41 | 9 | 5 | - | 164 | 248 | 10 | 32 | 4 | 1 | 5 | - |
| N.H. | 31 | 17 | - | - | 108 | 164 | 42 | 42 | 8 | 4 | 1 | - |
| Vt. | 9 | 14 | 2 | - | 43 | 84 | 26 | 50 | 5 | - | - | - |
| Mass. | 444 | 64 | 5 | 2 | 4,428 | 4,465 | 133 | 405 | 23 | 37 | 25 | 4 |
| R.I. | 50 | 35 | - | . | 862 | 1,062 | 24 | 45 | 3 | 3 | 8 | 1 |
| Conn. | 270 | 57 | 3 | - | 6,050 | 6,712 | 208 | 98 | 8 | 9 | - | 1 |
| MID. ATLANTIC | 5,673 | 357 | 50 | 5 | 50,837 | 64,125 | 2,433 | 2,098 | 133 | 183 | 142 | 12 |
| Upstate N.Y. | 578 | 160 | 17 | 4 | 8,690 | 8,479 | 550 | 407 | 54 | 6 | 46 | 2 |
| N.Y. City | 2,960 | 77 | 2 | 1 | 22,797 | 28,013 | 249 | 798 | 25 | 153 | 14 | 8 |
| N.J. | 1,413 | $\bigcirc$ | 31 | - | 9,353 | 9,367 | 263 | 395 | 18 | 5 | 29 | 1 |
| Pa. | 722 | 120 | - | - | 9,997 | 18,266 | 1,371 | 498 | 36 | 19 | 53 | 1 |
| E.N. CENTRAL | 1,718 | 578 | 123 | 4 | 74,152 | 68,134 | 1,176 | 1,755 | 167 | 60 | 158 | 3 |
| Ohio | 287 | 125 | 36 | 1 | 19,842 | 15,266 | 245 | 336 | 27 | 13 | 78 | - |
| Ind. | 252 | 107 | 25 | 2 | 5,370 | 5,178 | 132 | 300 | 20 | 23 | 30 | 1 |
| III. | 774 | 99 | 24 | 1 | 23,812 | 19,932 | 524 | 456 | 63 | 14 | 13 | 2 |
| Mich. | 326 | 215 | 28 | - | 19,360 | 21,789 | 180 | 414 | 35 | 10 | 25 | . |
| Wis. | 79 | 32 | 10 | - | 5,768 | 5,969 | 95 | 249 | 22 | - | 12 | - |
| W.N. CENTRAL | 454 | 163 | 16 | 3 | 18,376 | 17,323 | 755 | 617 | 64 | 17 | 26 | 1 |
| Minn. | 93 | 5 | - | 1 | 1,982 | 2,337 | 78 | 71 | 13 | 3 | 2 | - |
| lowa | 35 | 23 | 4 | - | 1,588 | 1,311 | 55 | 23 | 11 | 2 | 5 | - |
| Mo. | 219 | 74 | - | - | 11,109 | 9,827 | 418 | 434 | 21 | 7 | 10 | - |
| N. Dak. | 6 | 6 | 1 | - | 81 | 107 | 4 | 16 | 3 | 1 | 1 | - |
| S. Dak. | 4 | 6 | 3 | - | 157 | 331 | 10 | 7 | 5 | - | 1 | - |
| Nebr. | 16 | 6 | 4 | - | 873 | 1,000 | 56 | 16 |  | 2 | 2 | 1 |
| Kans. | 81 | 43 | 4 | 2 | 2,586 | 2,410 | 134 | 50 | 11 | 2 | 5 | - |
| S. ATLANTIC | 4,502 | 771 | 67 | 25 | 113,007 | 118,397 | 1,870 | 2,671 | 224 | 219 | 75 | 1 |
| Del. | , 61 | 31 | 1 | - | 1,855 | 1,787 | 27 | 99 | 5 | 5 | 7 | - |
| Md. | 476 | 92 | 13 | 2 | 12,649 | 12,111 | 467 | 458 | 20 | 21 | 19 | - |
| D.C. | 358 | 7 |  | - | 7,437 | 8,649 | 4 | 18 | 2 | - | - | - |
| Va . | 319 | 138 | 29 | 2 | 9,533 | 8,430 | 204 | 200 | 49 | 128 | 5 | - |
| W. Va. | 29 | 15 | 15 | - | 871 | 857 | 13 | 64 | 7 | 3 | - | - |
| N.C. | 353 | 92 | 4 | 1 | 16,703 | 17,108 | 278 | 647 | 59 | - | 22 | 1 |
| S.C. | 214 | 20 | - | - | 10,338 | 8,515 | 39 | 365 | 3 | 8 | 3 | . |
| Ga. | 654 | 69 | 1 | $\cdots$ | 21,802 | 22,692 | 220 | 266 | 9 | 7 | 11 | $\bullet$ |
| Fla. | 2,038 | 307 | 4 | 20 | 31,819 | 38,248 | 618 | 554 | 70 | 47 | 8 | - |
| E.S. CENTRAL | 470 | 349 | 18 | 1 | 33,186 | 32,965 | 235 | 986 | 101 | 4 | 28 | - |
| $K y .$ | 70 | 92 | 6 | 1 | 3,205 | 3,239 | 74 | 266 | 34 | 3 | 5 | - |
| Tenn. | 156 | 53 | - | - | 11,094 | 11,084 | 90 | 531 | 20 | - | 14 | - |
| Ala. | 137 | 144 | 12 | - | 10,582 | 10,444 | 50 | 137 | 43 | 1 | 9 | - |
| Miss. | 107 | 60 | 12 | - | 8,305 | 8,198 | 21 | 52 | 4 | - | - | - |
| W.S. CENTRAL | 1,805 | 511 | 42 | 2 | 43,373 | 46,238 | 2,316 | 1,357 | 98 | 337 | 33 | 16 |
| Ark. | 1,80 | 14 | 5 | - | 4,973 | 4,606 | 143 | 46 | 9 | 6 | 1 | - |
| La. | 291 | 41 | 9 | - | 9,111 | 9,307 | 181 | 238 | 11 | 1 | 4 | $\bullet$ |
| Okla. | 101 | 41 | 10 | - | 3,750 | 4,263 | , 252 | 134 | 21 | 20 | 19 | - |
| Tex. | 1,363 | 415 | 18 | 2 | 25,539 | 28,062 | 1,740 | 939 | 57 | 310 | 9 | 16 |
| MOUNTAIN | 644 | 138 | 7 | 2 | 8,735 | 9,196 | 3,070 | 913 | 148 | 109 | 33 | 2 |
| Mont. | 10 | 3 | 7 | 2 | 120 | 294 | 36 | 34 | 4 | 2 | 2 | 1 |
| Idaho | 16 | - | - | 1 | 119 | 238 | 113 | 80 | 11 | 3 | - | * |
| Wyo. | 13 | 2 | - | , | $\begin{array}{r}57 \\ \hline 1793\end{array}$ | 134 | 30 | 4 | 2 | - | 3 | - |
| Colo. | 224 | 59 | 1 | 1 | 1,793 | 2,094 | 353 | 114 | 40 | 46 | 3 | - |
| N. Mex. | 52 | 7 | 1 | - | 859 | 848 | 396 | 138 | 28 | 2 | 2 | 1 |
| Ariz. | 176 | 49 | 2 | - | 3,341 | 3,293 | 1,591 | 339 | 35 | 47 | 16 | 1 |
| Utah | 42 | 11 | 1 | - | 268 | 359 | 298 | 66 | 18 | 4 | 6 | - |
| Nev. | 111 | 7 | 2 | - | 2,178 | 1,936 | 253 | 138 | 10 | 5 | 4 | - |
| PACIFIC | 4,692 | 689 | 58 | 15 | 44,317 | 46,638 | 8,277 | 2,812 | 484 | 462 | 47 | 55 |
| Wash. | 4,692 312 | 689 | 2 | 1 | 3,958 | 4,278 | 1,989 | 2,842 | 143 | 34 | 13 | 5 |
| Oreg. | 153 | - | - | - | 1,859 | 1,948 | 1,486 | r 301 | 50 | 9 | 1 | 1 |
| Calif. | 4,105 | 640 | 51 | 13 | 37,612 | 39,354 | 4,185 | 1,760 | 279 | 405 | 30 | 45 |
| Alaska | 4, 10 | 10 | 4 | - | 591 | 667 | 482 | 39 | 5 | 4 | 1 | 4 |
| Hawaii | 112 | 39 | 1 | 1 | 297 | 391 | 135 | 70 | 7 | 10 | 2 | 4 |
| Guam | 1 | - | - | - | - | 91 | - | - | - | - | - | $\stackrel{\square}{-}$ |
| P.R. | 884 | 62 | 2 | 1 | 650 | 873 | 125 | 151 | 15 | 16 | - | 8 |
| V.I. | 26 | - | - | - | 419 | 265 | - | 5 | - | - | - | - |
| Amer. Samoa | 26 | - | . | - | - | 65 | - | . | - | - | - | - |
| C.N.M.I. | - | - | - | - | - | 34 | - | - | - | - | - | - |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending August 12, 1989 and August 13, 1988 (32nd Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported* |  | Total <br> Cum. <br> 1988 |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | 1989 | $\begin{aligned} & \text { Cum. } \\ & 1989 \end{aligned}$ | 1989 | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ |  | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | 1989 | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \\ & \hline \end{aligned}$ | 1989 | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | 1989 | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ |
| UNITED STATES | 701 | 207 | 8,786 | 15 | 403 | 2,046 | 1,838 | 38 | 3,719 | 82 | 1,654 | 1,517 | - | 283 | 142 |
| NEW ENGLAND | 38 | - | 268 | - | 23 | 107 | 136 | - | 67 | 9 | 244 | 182 | - | 6 | 5 |
| Maine | - | - | - | - | . | 7 | 13 | - | - | - | 6 | 11 | - | . | - |
| N.H. | 2 | - | 8 | - | - | 87 | 15 | - | 12 | - | 5 | 33 | - | 4 | 3 |
| Vt . | 1 | - | 1 | - | - | - | 6 | - | 1 | - | 6 | 3 | - | 1 | - |
| Mass. | 22 | - | 25 | - | 16 | 3 | 70 | - | 47 | 9 | 205 | 117 | - | 1 | 1 |
| R.I. | 7 | - | 38 | - | 3 | - | 1 | - | - | - | 11 | 6 | - | - | 1 |
| Conn. | 6 | - | 196 | - | 4 | 10 | 31 | - | 7 | - | 11 | 12 | - | - | - |
| MID. ATLANTIC | 120 | 8 | 576 | 1 | 161 | 814 | 261 | 4 | 293 | 5 | 90 | 81 | - | 23 | 12 |
| Upstate N.Y. | 22 | - | 41 | - | 96 | 32 | 88 | 4 | 131 | - | 42 | 45 | - | 10 | 2 |
| N.Y. City | 42 | 4 | 66 | - | 14 | 42 | 32 | - | 18 | - | 3 | 2 | - | 13 | 7 |
| N.J. | 27 | - | 279 | - | - | 212 | 55 | - | 97 | - | 14 | 4 | - | - | 1 |
| Pa . | 29 | 4 | 190 | $1 \S$ | 51 | 528 | 86 | - | 47 | 5 | 31 | 30 | - | - | 2 |
| E.N. CENTRAL | 56 | 60 | 1,953 | 2 | 63 | 179 | 224 | - | 420 | - | 159 | 178 | - | 21 | 23 |
| Ohio | 8 | - | 626 | - | 35 | 24 | 85 | - | 114 | - | 33 | 25 | - | 3 | . |
| Ind. | 7 | - | 51 | - | - | 57 | 26 | - | 38 | - | 17 | 56 | - | - | - |
| III. | 24 | $\cdot$ | 831 | - | - | 71 | 62 | - | 132 | - | 59 | 27 | - | 16 | 19 |
| Mich. | 11 | 60 | 285 | 25 | 14 | 23 | 38 | - | 106 | - | 26 | 25 | - | 1 | 4 |
| Wis. | 6 | - | 160 | - | 14 | 4 | 13 | - | 30 | - | 24 | 45 | - | 1 | - |
| W.N. CENTRAL | 23 | 1 | 557 | - | 4 | 12 | 66 | - | 359 | 1 | 77 | 91 | - | 6 | - |
| Minn. | 7 | - | 12 | - | - | 11 | 11 | - | 1 | - | 11 | 36 | - | - | - |
| lowa | 2 | 1 | 6 | - | 1 | - | 2 | - | 27 | 1 | 13 | 19 | - | 1 | - |
| Mo. | 8 | - | 299 | - | - | 1 | 24 | - | 50 | - | 46 | 15 | - | 4 | - |
| N. Dak. | 1 | - | - | - | - | - | - | - | . | - | - | 11 | - | - | - |
| S. Dak. | 1 | - | 108 | - | - | - | 7 | - | - | - | 1 | 5 | - | - | - |
| Nebr. | 1 | - | 108 | - | 2 | - | 14 | - | 5 | - | 3 | - | - | $\bullet$ | - |
| Kans. | 3 | - | 132 | - | 1 | - | 8 | - | 276 | - | 3 | 5 | - | 1 | - |
| S. ATLANTIC | 122 | 19 | 477 | 3 | 35 | 289 | 316 | 16 | 615 | 18 | 148 | 146 | - | 8 | 16 |
| Del. | 3 | 2 | 64 | - | 1 | - | 2 | - | 1 | - | 1 | 6 | - | - | - |
| Md. | 22 | 3 | 40 | $3 \dagger$ | 20 | 13 | 55 | 1 | 347 | 3 | 16 | 26 | - | 2 | 1 |
| D.C. | 5 | - | 7 | - | 3 | - | 15 | 2 | 97 | - | - | - | - | . | - |
| Va . | 22 | - | 19 | - | 3 | 143 | 34 | 7 | 75 | - | 9 | 16 | - | $\bullet$ | 11 |
| W. Va. | 2 | - | 51 | - | - | 6 | 12 | - | 10 | 2 | 20 | 6 | - | - | , |
| N.C. | 17 | - | 168 | - | - | 1 | 44 | 3 | 26 | 6 | 33 | 40 | - | 1 | - |
| S.C. | 5 | - | 2 | - | - | - | 19 | - | 19 | - | - | 1 | - | . | - |
| Ga. | 9 | - | 1 | - | 1 | - | 55 | 3 | 14 | 5 | 21 | 21 | - | - | 1 |
| Fla. | 37 | 14 | 125 | - | 7 | 126 | 80 | - | 26 | 2 | 48 | 30 | - | 5 | 3 |
| E.S. CENTRAL | 8 | 4 | 188 | - | - | 68 | 59 | - | 190 | 6 | 77 | 46 | - | 2 | - |
| Ky. | - | 3 | 23 | - | - | 35 | 35 | - | 9 | - | 1 | 12 | - | . | - |
| Tenn. | 1 | 1 | 120 | - | - | - | 4 | - | 62 | - | 27 | 16 | - | 2 | - |
| Ala. | 5 | - | 45 | - | $\bullet$ | - | 17 | - | 16 | 6 | 47 | 14 | - | . | . |
| Miss. | 2 | - | - | - | $\bullet$ | 33 | 3 | N | N | - | 2 | 4 | - | - |  |
| W.S. CENTRAL | 37 | 102 | 3,084 | 2 | 42 | 14 | 124 | 10 | 1,218 | 10 | 134 | 78 | - | 36 | 6 |
| Ark. | - | - | - | $2 \xi$ | 5 | 1 | 7 | - | 124 | 1 | 17 | 9 | - |  | 2 |
| La. | 2 | - | 9 | - | - | - | 33 | 4 | 495 | 5 | 11 | 14 | - | 5 |  |
| Okla. | 4 | - | 121 | - | 37 | 8 | 18 | 1 | 181 | 4 | 25 | 28 | - | 1 | 1 |
| Tex. | 31 | 102 | 2,954 | - | 37 | 5 | 66 | 5 | 418 | - | 81 | 27 | - | 30 | 3 |
| MOUNTAIN | 16 | 12 | 332 | 4 | 24 | 137 | 57 | 8 | 140 | 18 | 445 | 436 | - | 34 | 5 |
| Mont. | 1 | - | 12 | - | 1 | 22 | 1 | . | 2 |  | 26 | 1 | - | 1 | 5 |
| Idaho | 2 | - | - | - | 2 | 1 | 2 | - | 14 | 2 | 56 | 258 | - | 31 | - |
| Wyo. | 1 | - | - | - | - | - | - | - | 7 | 2 | 5 | 1 | - | 1 | - |
| Colo. | 2 | 3 | 65 | 45 | 5 | 114 | 18 | - | 21 | 4 | 27 | 14 | - | 1 | 1 |
| N. Mex. | 1 | - | 16 |  | 15 | - | 1 | N | N | 7 | 16 | 19 | . | - | 1 |
| Ariz. | 6 | 5 | 124 | - | - | - | 23 | 8 | 88 | 5 | 305 | 120 | - | . | - |
| Utah | - | 4 | 114 | - | - | - | 5 | - | 3 | 5 | 14 | 22 | - | - | 3 |
| Nev. | 3 | - | 1 | - | 1 | - | 7 | - | 5 | - | 1 | 1 | - | 1 | 1 |
|  | 281 | 1 | $1,351$ | 3 | 51 | 426 | 595 | - | 417 | 15 | 280 | 279 |  | 147 |  |
| Wash. | 24 |  | 20 | 3 | 12 | 2 | 62 | - | $\begin{array}{r}35 \\ \hline\end{array}$ | 2 | 109 | 279 56 | - | 147 | 75 |
| Oreg. | 17 | - | 1,313 | $3 \dagger$ | 19 | 3 | 42 | N | N | 2 | 7 | 16 | - | 2 | - |
| Calif. | 230 | - | 1,313 | , | 12 | 409 | 485 | N | 369 | 13 | 159 | 152 | - | 122 | 53 |
| Alaska | 4 | 1 | $10^{\circ}$ | - | 8 | 12 | 4 | - | 2 |  | 15 | 7 | - | 122 | 53 |
| Hawaii | 6 | 1 | 18 | - | 8 | 12 | 2 | - | 11 | - | 5 | 48 | - | 23 | 22 |
| Guam | - | U | - | U | - | 1 | - | U | - | U | . |  | U |  |  |
| P.R. | 1 | U | 436 |  | - | 190 | 4 | U | 8 | U | 4 | 12 | U | 6 | 1 |
| V.I. | , | - | 4 | - | - | 130 | 4 | - | 8 11 | - | 4 | 12 | - | 6 | 1 |
| Amer. Samoa | - | U |  |  | - | - | - | U | 11 | U | - | - | U | - | - |
| C.N.M.I. | - | U | - | U | - | - | - | U | - | U | $\stackrel{-}{*}$ | $\bullet$ | U | - | - |

*For measles only, imported cases includes both out-of-state and international importations.
N : Not notifiable U : Unavailable ${ }^{\dagger}$ International ${ }^{\boldsymbol{5}}$ Out-of-state

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending August 12, 1989 and August 13, 1988 (32nd Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxicshock Syndrome | Tuberculosis |  | Tularemia <br> Cum. 1989 | Typhoid <br> Fever <br> Cum. <br> 1989 | Typhus Fever(Tick-borne)(RMSF) | $\begin{gathered} \begin{array}{c} \text { Rabies, } \\ \text { Animal } \end{array} \\ \hline \text { Cum. } \\ \hline 1989 \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ |  |  |  |  |
| UNITED STATES | 24,551 | 25,160 | 224 | 12,692 | 12,625 | 92 | 287 | 342 | 2,925 |
| NEW ENGLAND | 1,028 | 672 | 9 | 341 | 307 | 2 | 23 | 6 | 6 |
| Maine |  | 9 | 3 | 12 | 16 | . | . |  | 1 |
| N.H. | 9 | 6 | - | 16 | 6 | - |  |  | 1 |
| V t. |  | 3 |  | 5 | 2 |  |  |  |  |
| Mass. | 315 | 262 | 3 | 178 | 177 | 2 | 13 | 3 | 2 |
| R.I. | 17 | 21 | - | 37 | 30 | - | 5 | 1 | - |
| Conn. | 682 | 371 | 3 | 93 | 76 | - | 5 | 2 | 2 |
| MID. ATLANTIC | 4,387 | 6,470 | 35 | 2,425 | 2,443 | 2 | 84 | 42 | 450 |
| Upstate N.Y. | 510 | 308 | 6 | 198 | 329 | 1 | 20 | 8 | 31 |
| N.Y. City | 2,275 | 4,757 | 2 | 1,346 | 1,285 | - | 44 | 3 |  |
| N.J. | 834 | 560 | 9 | 438 | 425 |  | 14 | 19 |  |
| Pa . | 768 | 845 | 18 | 443 | 404 | 1 | 6 | 12 | 419 |
| E.N. CENTRAL | 1,143 | 694 | 31 | 1,348 | 1,375 | 3 | 27 | 46 | 68 |
| Ohio | 81 | 65 | 9 | 242 | 265 | - | 4 | 23 | 5 |
| Ind. | 42 | 36 | 5 | 114 | 143 | 1 | 2 | 16 | 2 |
| 'III. | 482 | 326 | 5 | 611 | 577 | - | 17 | 5 | 17 |
| Mich. | 380 | 231 | 12 | 300 | 323 | 1 | 3 | 2 | 6 |
| Wis. | 158 | 36 | - | 81 | 67 | 1 | 1 | - | 38 |
| W.N. CENTRAL | 198 | 143 | 28 | 328 | 330 | 37 | 5 | 47 | 391 |
| Minn. | 29 | 15 | 7 | 66 | 52 |  | 1 | - | 77 |
| lowa | 21 | 16 | 4 | 28 | 31 |  | 2 | 1 | 110 |
| Mo. | 101 | 84 | 6 | 152 | 164 | 26 | 1 | 41 | 28 |
| N. Dak. | 2 | 2 | - | 11 | 10 | - | . | 1 | 38 |
| S. Dak. | - | - | 3 | 17 | 24 | 6 |  | 1 | 66 |
| Nebr. | 17 | 20 | 5 | 14 | 9 | 1 | $i$ | ; | 36 |
| Kans. | 28 | 6 | 3 | 40 | 40 | 4 | 1 | 3 | 36 |
| S. ATLANTIC | 9,167 | 8,571 | 20 | 2,675 | 2,695 | 3 | 27 | 100 | 900 |
| Del. | 99 | 72 | 1 | 25 | 23 | - | 2 | 1 | 20 |
| Md. | 468 | 472 | 1 | 222 | 269 | - | 8 | 11 | 251 |
| D.C. | 574 | 410 | 1 | 125 | 119 | ; | 2 | - | 2 |
| Va . | 340 | 261 | 4 | 214 | 244 | 3 | 4 | 6 | 172 |
| W. Va. | 10 | 7 | - | 47 | 51 |  | 2 | 2 | 41 |
| N.C. | 608 | 490 | 6 | 307 | 245 |  | 2 | 53 | 5 |
| S.C. | 508 | 413 | 3 | 311 | 300 |  |  | 15 | 144 |
| Ga . | 1,955 | 1,414 | 3 | 400 | 439 | - | 3 | 10 | 153 |
| Fla. | 4,605 | 5,032 | 1 | 1,024 | 1,005 | $\cdot$ | 6 | 2 | 112 |
| E.S. CENTRAL | 1,675 | 1,200 | 4 | 1,022 | 1,071 | 6 |  | 32 | 242 |
| Ky. | 40 | 40 | 1 | 251 | 250 |  | 1 | 10 | 103 |
| Tenn. | 724 | 520 | 2 | 286 | 309 | 4 | ; | 20 | 55 |
| Ala. | 517 | 355 | 1 | 292 | 329 | ; | 1 | 2 | 83 |
| Miss. | 394 | 285 |  | 193 | 183 | 1 |  |  | 1 |
| W.S. CENTRAL | 3,453 | 2,675 | 21 | 1,496 | 1,572 | 28 | 12 | 47 | 424 |
| Ark. | 208 | 147 | 1 | 157 | 170 | 19 | 1 | 11 | 59 |
| La. | 803 | 514 | 11 | 201 | 190 | $\overline{9}$ | 1 | 32 | 5 69 |
| Okla. | 58 | 98 | 11 | 131 | 151 | 9 | 1 | 32 | 69 |
| Tex. | 2,384 | 1,916 | 9 | 1,007 | 1,061 | - | 10 | 4 | 291 |
| MOUNTAIN | 467 | 456 | 34 | 288 | 352 | 7 | 6 | 20 | 161 |
| Mont. | 1 | 3 | - | 11 | 12 | - | - | 14 | 59 |
| Idaho | 1 | 2 | 3 | 20 | 11 | ; | - | 2 | 4 |
| Wyo. | 3 | 1 | 2 | 12 | ${ }_{5}^{2}$ | 2 | 2 | 3 | 49 |
| Colo. | 53 | 74 | 5 | 12 | 50 | 2 | 2 | 3 | 11 |
| N. Mex. | 20 | 35 | 4 | 53 | 66 | 1 | ; | - | 16 |
| Ariz. | 145 | 109 | 9 | 140 | 161 | - | 1 | $\cdot$ | 18 |
| Utah | 12 | 11 | 9 | 24 | 18 | 1 | 1 | $\cdot$ | 2 |
| Nev . | 232 | 221 | 2 | 28 | 32 | 1 |  | - | 2 |
| PACIFIC | 3,033 | 4,279 | 42 | 2,769 | 2,480 | 4 | 101 | 2 | 283 |
| Wash. | 252 | 140 | 2 | 152 | 128 | - | 6 | i | - |
| Oreg. | 152 | 178 | $3{ }^{-}$ | 92 | 93 | 2 | 5 | 1 |  |
| Calif. | 2,617 | 3,931 | 39 | 2,385 | 2,138 | 2 | 86 | 1 | 221 |
| Alaska | 3 | 8 | - | 32 | 24 | - | - | - | 62 |
| Hawaii | 9 | 22 | 1 | 108 | 97 | - | 4 | - |  |
| Guam | - | 3 | - | - | 16 | - | - | - |  |
| P.R. | 349 | 375 | - | 200 | 134 | - | - | - | 40 |
| V.I. | 7 | 1 | - | 4 | 5 | - | - | - | - |
| Amer. Samoa |  | - | - | - | 3 | - | $\cdot$ | - | - |
| C.N.M.I. | - | 1 | - | - | 17 | - | - | $\cdot$ | - |

TABLE IV. Deaths in 121 U.S. cities,* week ending August 12, 1989 (32nd Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\left\{\begin{array}{l} \text { P\& } l^{* *} \\ \text { Total } \end{array}\right.$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\&I** } \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Ages | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 579 | 398 | 106 | 47 | 17 | 11 | 45 | S. ATLANTIC | 1,228 | 702 | 260 | 163 | 48 | 55 | 64 |
| Boston, Mass. | 154 | 103 | 28 | 15 | 3 | 5 | 19 | Atlanta, Ga. | 156 | 85 | 35 | 25 | 7 | 4 | 4 |
| Bridgeport, Conn. | 37 | 26 | 9 | 1 |  | 1 | 4 | Baltimore, Md. | 197 | 121 | 36 | 17 | 11 | 12 | 13 |
| Cambridge, Mass. | 9 | 5 | 4 |  |  |  | 1 | Charlotte, N.C. | 52 | 32 | 13 | 4 |  | 3 | 5 |
| Fall River, Mass. | 23 | 19 | 2 | 2 |  |  | 2 | Jacksonville, Fla. | 101 | 57 | 24 | 11 | 4 | 5 | 5 |
| Hartford, Conn. | 101 | 62 | 17 | 14 | 7 | 1 | 7 | Miami, Fla. | 191 | 95 | 37 | 42 | 8 | 9 | 2 |
| Lowell, Mass. | 15 | 12 | 2 |  | 1 |  |  | Norfolk, Va. | 65 | 30 | 20 | 7 |  | 8 | 5 |
| Lynn, Mass. | 15 | 10 | 4 |  | 1 | - |  | Richmond, Va. | 68 | 44 | 14 | 5 | 4 | 1 | 7 |
| New Bedford, Mass. | 17 | 13 | 4 |  |  |  | 1 | Savannah, Ga. | 46 | 29 | 12 | 2 | 1 | 2 | 5 |
| New Haven, Conn. | 47 | 29 | 11 | 5 | 1 | 1 | 2 | St. Petersburg, Fla. | 72 | 59 | 5 | 5 | 2 | 1 | 4 |
| Providence, R.I. $¢$ | 37 | 30 | 6 |  | 1 |  | 1 | Tampa, Fla. | 62 | 31 | 18 | 9 | 3 | 1 | 6 |
| Somerville, Mass. | 9 | 7 | 1 | - | 1 | - | $\bar{\square}$ | Washington, D.C.§ | 194 | 101 | 42 | 34 | 8 | 9 | 5 |
| Springfield, Mass. | 32 | 23 | 5 | 4 |  |  | 5 | Wilmington, Del. | 24 | 18 |  | 2 |  |  | 6 |
| Waterbury, Conn. | 24 | 18 | 4 | 1 | 1 | 3 | 2 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 59 | 41 | 9 | 5 | 1 | 3 | 1 | E.S. CENTRAL <br> Birmingham, Ala. | ${ }_{127} 695$ | 451 | 25 | $\begin{aligned} & 51 \\ & 13 \end{aligned}$ | 24 6 | 10 | 41 5 |
| MID. ATLANTIC | 2,641 | 1,692 | 507 | 296 | 69 | 76 | 130 | Chattanooga, Tenn. | 50 | 34 | 9 |  | 2 | 2 | 5 |
| Albany, N.Y. | 44 | 30 | 8 | 4 | 2 |  | 3 | Knoxville, Tenn. | 71 | 53 | 15 | 1 |  | 2 | 8 |
| Allentown, Pa. | 14 | 13 | 1 |  | - |  | 1 | Louisville, Ky. | 65 | 34 | 18 | 5 |  | 8 | 4 |
| Buffalo, N.Y. | 140 | 97 | 28 | 10 | 1 | 3 | 7 | Memphis, Tenn. | 168 | 114 | 31 | 13 | 6 | 4 | 10 |
| Camden, N.J. | 36 | 25 | 5 | 3 |  |  |  | Mobile, Ala. | 42 | 27 | 7 | 5 | 3 |  | 1 |
| Elizabeth, N.J. | 27 | 17 | 5 | 3 | 2 | - | 5 | Montgomery, Ala. | 68 | 48 | 13 | 7 |  |  |  |
| Erie, Pa.t | 35 | 27 | 5 | 2 | - | 1 | 3 | Nashville, Tenn. | 104 | 68 | 23 |  | 7 | 2 | 8 |
| Jersey City, N.J. | 53 | 888 | 9 ${ }^{9}$ | 2 | 9 | 4 34 | 50 |  |  |  |  |  |  |  |  |
| N.Y. City, N.Y. | 1,325 | 808 35 | 274 23 | 180 | 29 | 34 15 | 50 | Wustin, Tex. | 1,766 50 | 1,071 30 | 13 | 4 | 64 | 4 | 65 2 |
| Newark, N.J. Paterson, N.J. | $\begin{aligned} & 98 \\ & 24 \end{aligned}$ | 13 | 23 5 | 17 5 | 8 | 15 | 10 | Baton Rouge, La. | 69 | 46 | 12 | 7 | 2 | 3 | 2 |
| Philadelphia, Pa. | 399 | 268 | 66 | 38 | 14 | 13 | 26 | Corpus Christi, Tex. ${ }^{\text {S }}$ | § 43 | 29 | 10 | 3 |  | 1 |  |
| Pittsburgh, Pa.t | 68 | 46 | 14 | 4 | 3 | 1 | 4 | Dallas, Tex. | 158 | 87 | 37 | 22 | 8 | 4 | 4 |
| Reading, Pa. | 27 | 18 | 6 | 1 | i | 2 | 3 | El Paso, Tex. Fort Worth, Tex | 70 95 | 40 | 20 | 7 | 9 | 11 | 9 |
| Rochester, N.Y. | 128 | 90 | 23 | 13 | 1 | 1 | 9 | Fort Worth, Tex | 95 | 56 | 14 |  | 9 | 11 | 6 |
| Schenectady, N.Y. | 21 | 18 | 1 | 2 |  |  |  | Houston, Tex. 5 | 734 | 436 | 169 | 89 | 24 | 16 | 18 |
| Scranton, Pa. $\dagger$ | 27 | 23 | 3 | 1 | - |  | 1 | Little Rock, Ark. | 80 | 48 | 17 | 9 | 1 | 5 | 1 |
| Syracuse, N.Y. | 82 | 63 | 14 | 3 | 2 |  | 1 | New Orleans, La. | 179 | 115 | 40 | 15 | 7 | 2 |  |
| Trenton, N.J. | 44 | 26 | 8 | 6 | 3 | 1 | - | San Antonio, Tex. | 159 43 | 99 26 | 33 10 | 19 | 5 | 2 | 13 |
| Utica, N.Y. | 18 | 13 | 4 | 1 | - |  | 1 | Shreveport, La. | 43 | 26 | 10 | 7 | 2 | 1 | 1 |
| Yonkers, N.Y. | 31 | 24 | 5 | 1 | - | 1 | 2 | Tulsa, Okla. | 86 | 59 | 15 | 7 | 5 | - | 4 |
| E.N. CENTRAL | 2,136 | 1,417 | 440 | 159 | 50 | 70 | 79 | MOUNTAIN | 623 | 382 | 118 | 66 | 29 | 28 | 27 |
| Akron, Ohio | 61 | 41 | 16 | 2 | 1 | 1 |  | Albuquerque, N. Mex | -. 82 | 42 | 12 | 8 | 11 | 9 | 3 |
| Canton, Ohio | 37 | 28 | 5 | 4 | - |  | 5 | Colo. Springs, Colo. | 45 | 27 | 11 | 4 | 2 | 1 | 7 |
| Chicago, III. $\$$ | 564 | 362 | 125 | 45 | 10 | 22 | 16 | Denver, Colo. | 99 | 68 | 14 | 12 | 2 | 3 | 1 |
| Cincinnati, Ohio | 166 | 104 | 46 | 7 | 6 | 3 | 11 | Las Vegas, Nev . | 100 | 55 | 27 | 10 | 6 | 2 | 11 |
| Cleveland, Ohio | 133 | 83 | 35 | 8 | 4 | 3 | 2 | Ogden, Utah | 22 | 18 | 2 | 2 |  | - | 2 |
| Columbus, Ohio | 100 | 68 | 17 | 9 | 1 | 5 |  | Phoenix, Ariz. | 130 | 82 | 20 | 14 | 4 | 10 | 1 |
| Dayton, Ohio | 96 | 67 | 18 | 6 | 2 | 3 | 2 | Pueblo, Colo. | 19 | 14 | 3 | 1 |  | 1 |  |
| Detroit, Mich. | 252 | 145 | 42 | 36 | 10 | 19 | 10 | Salt Lake City, Utah | 43 | 19 | 12 | - | 2 | 1 |  |
| Evansville, Ind. | 49 | 41 | 8 | - | . |  | 1 | Tucson, Ariz. | 83 | 57 | 17 | 6 | 2 | 1 | 2 |
| Fort Wayne, Ind. | 45 | 34 | 8 | 1 | - | 2 | 4 | PACIFIC | 1,993 | 1,215 | 380 | 238 | 83 | 67 | 109 |
| Gary, Ind. 5 | 17 | 12 | 4 | 1 | - | - |  | Berkeley, Calif. | 20 | 13 | 4 | 1 |  | 2 |  |
| Grand Rapids, Mich. | 47 | 37 | 6 | 1 | 2 | 1 | 5 | Fresno, Calif. | 80 | 51 | 15 | 7 | 3 | 4 | 4 |
| Indianapolis, Ind. | 162 | 109 | 32 | 11 | 5 | 5 | 1 | Glendale, Calif. | 40 | 25 | 11 | 3 | 1 | - | 1 |
| Madison, Wis. | 34 | 20 | 7 | 7 |  | - | 2 | Honolulu, Hawaii | 47 | 34 | 8 | 4 | 1 | - | 9 |
| Milwaukee, Wis. | 109 | 78 | 22 | 5 | 3 | 1 | 1 | Long Beach, Calif. | 73 | 45 | 10 | 12 | 4 | 2 | 5 |
| Peoria, III. | 50 | 29 | 14 | 4 | 1 | 2 | 3 | Los Angeles Calif. | 713 | 424 | 145 | 85 | 35 | 14 | 23 |
| Rockford, III. | 29 | 26 | 3 | ; | - | - | 1 | Oakland, Calif. | 63 | 41 | 8 | 11 | 2 | 1 | 5 |
| South Bend, Ind. | 32 | 24 | 6 | 1 | - | 1 | 3 | Pasadena, Calif. | 38 | 23 | 7 | 5 | - | 3 | 2 |
| Toledo, Ohio | 94 | 66 | 17 | 5 | 4 | 2 | 5 | Portland, Oreg. | 118 | 79 | 19 | 11 | 4 | 5 | , |
| Youngstown, Ohio | 59 | 43 | , | 6 | 1 | - | 7 | Sacramento, Calif. | 144 | 84 | 31 | 14 | 11 | + | 14 |
| W.N. CENTRAL | 779 | 530 | 157 | 51 | 28 | 13 | 32 | San Diego, Calif. | 146 | 82 | 20 | 18 | 8 | 18 |  |
| Des Moines, lowa | 47 | 35 | 7 |  | 2 |  | 1 | San Francisco, Calif. | 146 | 78 | 28 | 33 | 2 | 5 |  |
| Duluth, Minn. | 32 | 20 | 9 | 2 | 1 |  | 1 | San Jose, Calif. | 124 | 90 | 32 | 10 | 8 | 4 |  |
| Kansas City, Kans. $\$^{\text {I }}$ | 74 | 56 | 12 | 5 | 1 | - | 3 | Seattle, Wash. | 123 60 | 44 | 27 | 18 5 | 2 | 1 |  |
| Kansas City, Mo. | 114 | 71 | 25 | 9 | 6 | 3 | 2 | Spokane, Wash. | 38 | 25 | 8 | 1 | 2 | 2 |  |
| Lincoln, Nebr. | 42 | 32 | 5 |  | 1 | 1 | 8 | Tacoma, Wash. |  |  |  |  | 1 |  |  |
| Minneapolis, Minn. | 144 | 98 | 31 | 8 | 7 | $\bar{\square}$ | 11 | TOTAL 12 | 12,440 ${ }^{\text {t }}$ | 7,858 | 2,499 | 1,262 | 412 | 396 | 592 |
| Omaha, Nebr. | 82 | 54 | 21 | 3 | 3 | 1 | 1 |  |  |  |  |  |  |  |  |
| St. Louis, Mo. | 135 | 92 | 26 | 9 | 6 | 2 | 2 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 65 | 45 | 11 | 5 | 1 | 3 | 1 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 44 | 27 | 10 | 4 | - | 3 | 1 |  |  |  |  |  |  |  |  |

[^1]§Data not available. Figures are estimates based on average of past available 4 weeks.

Smoking-Attributable COPD - Continued
TABLE 1. Current smoking prevalence, quit ratios, attributable risk percent, number of chronic obstructive pulmonary disease (COPD) deaths attributable to smoking, and smoking-attributable (SA) COPD mortality rates, by area - United States, 1986

| Area | Current smoking prevalence " ${ }^{\circ}$ (\%)* | Quit ratio $(\%)^{\dagger}$ | Attributable risk (\%) | SA-COPD deaths | SA-COPD mortality rate ${ }^{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 28 | 43 | 78 | 977 | 53.9 |
| Alaska | 35 | 39 | 83 | 46 | 59.0 |
| Arizona | 30 | 46 | 81 | 1019 | 68.3 |
| Arkansas | 28 | 44 | 77 | 549 | 45.1 |
| California | 26 | 46 | 80 | 6229 | 58.4 |
| Colorado | 29 | 46 | 79 | 826 | 73.7 |
| Connecticut | 28 | 47 | 81 | 646 | 41.7 |
| Delaware | 28 | 48 | 83 | 151 | 55.9 |
| District of Columbia | 30 | 40 | 77 | 95 | 33.7 |
| Florida | 29 | 46 | 81 | 3699 | 50.7 |
| Georgia | 32 | 42 | 81 | 1274 | 55.3 |
| Hawaii | 26 | 45 | 78 | 110 | 28.0 |
| Idaho | 24 | 49 | 79 | 280 | 68.7 |
| llinois | 27 | 46 | 78 | 2462 | 48.1 |
| Indiana | 29 | 46 | 81 | 1499 | 61.9 |
| lowa | 26 | 45 | 81 | 786 | 53.2 |
| Kansas | 26 | 44 | 77 | 651 | 54.9 |
| Kentucky | 34 | 45 | 82 | 1196 | 72.6 |
| Louisiana | 28 | 41 | 80 | 738 | 43.0 |
| Maine | 28 | 49 | 81 | 388 | 68.7 |
| Maryland | 27 | 49 | 80 | 900 | 50.2 |
| Massachusetts | 27 | 47 | 82 | 1448 | 50.5 |
| Michigan | 30 | 47 | 81 | 2196 | 57.0 |
| Minnesota | 26 | 50 | 79 | 831 | 43.5 |
| Mississippi | 31 | 45 | 82 | 518 | 45.6 |
| Missouri | 25 | 48 | 81 | 1457 | 58.0 |
| Montana | 25 | 48 | 80 | 261 | 72.5 |
| Nebraska | 23 | 47 | 77 | 350 | 44.5 |
| Nevada | 33 | 44 | 83 | 294 | 77.0 |
| New Hampshire | 28 | 44 | 83 | 258 | 58.9 |
| New Jersey | 27 | 43 | 80 | 1615 | 44.6 |
| New Mexico | 29 | 47 | 81 | 375 | 68.9 |
| New York | 27 | 45 | 79 | 3857 | 45.6 |
| North Carolina | 30 | 42 | 80 | 1317 | 48.2 |
| North Dakota | 24 | 52 | 80 | 130 | 41.3 |
| Ohio | 29 | 46 | 80 | 2841 | 58.2 |
| Oklahoma | 32 | 47 | 83 | 806 | 54.0 |
| Oregon | 25 | 48 | 82 | 815 | 63.4 |
| Pennsylvania | 26 | 48 | 79 | 3174 | 50.5 |
| Rhode Island | 29 | 48 | 82 | 274 | 53.6 |
| South Carolina | 28 | 44 | 79 | 631 | 47.1 |
| South Dakota | 26 | 47 | 79 | 166 | 46.3 |
| Tennessee | 29 | 43 | 78 | 1213 | 56.0 |
| Texas | 30 | 46 | 80 | 2733 | 45.8 |
| Utah | 10 | 54 | 70 | 227 | 45.5 |
| Vermont | 28 | 49 | 82 | 152 | 65.3 |
| Virginia | 29 | 44 | 80 | 1181 | 51.5 |
| Washington | 25 | 50 | 82 | 1299 | 68.7 |
| West Virginia | 31 | 48 | 80 | 662 | 70.8 |
| Wisconsin | 25 | 50 | 78 | 968 | 42.8 |
| Wyoming | 31 | 44 | 82 | 140 | 87.4 |

[^2]${ }^{4}$ Per 100,000, age- and sex-adjusted to the 1986 U.S. population.

## Smoking-Attributable COPD - Continued

Public health programs and primary-care providers should intensify efforts to prevent initiation of smoking in younger age groups and to support smoking cessation among adults, especially in states with high prevalences of smoking.

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FIGURE 2. Percentage of ever smokers $\geqslant 35$ years of age who are former smokers (quit ratio), by quartile - United States, 1985


FIGURE 3. Mortality rate* per $\mathbf{1 0 0 , 0 0 0}$ persons of smoking-attributable chronic obstructive pulmonary disease, by quartile - United States, 1986

*Age- and sex-adjusted to the 1986 U.S. population.

## Smoking-Attributable COPD - Continued

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Current Trends

## First 100,000 Cases of Acquired Immunodeficiency Syndrome - United States

In June 1981, the first cases of the illness now known as acquired immunodeficiency syndrome (AIDS) were reported from Los Angeles in five young homosexual men diagnosed with Pneumocystis carinii pneumonia and other opportunistic infections (1). Since then, state and territorial health departments have reported $>100,000$ cases of AIDS and $>59,000$ AIDS-related deaths to CDC. AIDS is now a major cause of morbidity and mortality in children and young adults in the United States, ranking 15th among leading causes of death in 1988 (2) and seventh among estimated years of potential life lost before age 65 in 1987 (3). The first 50,000 cases of AIDS were reported to CDC from 1981 to 1987; the second 50,000 were reported between December 1987 and July 1989.

Although homosexual/bisexual men still account for most reported AIDS cases, intravenous-drug users (IVDUs), their sex partners, and their children represent an increasing proportion of all cases. Of AIDS cases reported before 1985, $63 \%$ were homosexual/bisexual men with no history of IV-drug use, $18 \%$ were female or heterosexual male IVDUs, and 2\% were sex partners or children of IVDUs or their sex partners. In contrast, of the AIDS cases reported in the first 6 months of 1989, 56\% were homosexual/bisexual men with no history of IV-drug use, $23 \%$ were female or heterosexual male IVDUs, and 4\% were sex partners or children of IVDUs or their sex partners. The proportion of AIDS cases among women has also increased from $7 \%$ of cases reported before 1985 to $11 \%$ of cases reported in the first 6 months of 1989. Blacks and Hispanics continue to be disproportionately represented among all persons with AIDS and particularly among IVDUs with AIDS (Table 1). Although most AIDS cases are reported from large metropolitan areas, an increasing proportion are being reported from smaller cities and rural areas. Metropolitan statistical areas with populations $\leqslant 500,000$ reported $10 \%$ of all U.S. cases before 1985 , compared with $19 \%$ in 1988.

## AIDS - Continued

Reported by: AIDS Program, Center for Infectious Diseases, CDC.
Editorial Note: The 100,000 AIDS cases reported in the United States as of July 1989 represent the minimum number of persons with severe human immunodeficiency virus (HIV)-related disease. Because of the combination of underdiagnosis and underreporting of AIDS cases and severe manifestations of HIV infection that do not meet the CDC AIDS surveillance case definition, reported AIDS cases underestimate the number of persons severely affected by HIV since 1981. The completeness of diagnosis and reporting of AIDS cases varies by geographic region and patient population; however, mortality studies suggest that $70 \%-90 \%$ of HIV-related deaths are identified through national surveillance of AIDS (4).

The number of AIDS cases are one indication of the larger epidemic of HIV infection. An estimated 1-1.5 million persons are infected with HIV in the United States (5), with recent seroprevalence studies suggesting that the actual number is closer to the lower end of this range (6). A cohort study of homosexual/bisexual men in San Francisco suggests that $54 \%$ of infected persons will develop AIDS within 10 years of infection (7) and that up to $99 \%$ will eventually develop AIDS (8). Therefore, the number of persons with AIDS and other severe manifestations of HIV infection will continue to increase.

AIDS is reportable in all 50 states, the District of Columbia, and U.S. territories. AIDS surveillance has been crucial in identifying characteristics of persons at risk for the disease and modes of transmission and remains extremely important in monitoring trends in severe HIV-related disease, projecting future numbers of AIDS cases and HIV-infected persons, and targeting resources for prevention and treatment efforts. Because persons with AIDS require a broad range of medical services, documentation of these cases is also important in determining current and future health-care needs and costs. AIDS surveillance data together with information from the HIV family of surveys (6) and HIV infection reporting (9) are important components of public health programs directed toward controlling HIV infection and assist in providing the most accurate picture of the HIV epidemic in the United States.
References

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TABLE 1. Percentage distribution by racial/ethnic groups comparing population, AIDS cases, and AIDS cases associated with intravenous-drug users (IVDU) - United States,* 1981-1989

| Race/Ethnicity | 1980 U.S. population ${ }^{\dagger}$ | AIDS cases |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Cumulative* } \\ & (\mathrm{n}=97,110) \end{aligned}$ | $\begin{gathered} \text { IVDU } \\ (\mathrm{n}=18,540) \end{gathered}$ | Heterosexual IVDU contact $(n=2,067)$ | Children and sex partners of IVDU ( $\mathrm{n}=906$ ) |
| White | 79.6\% | 58.5\% | 21.8\% | 24.2\% | 14.7\% |
| Black | 11.5\% | 27.7\% | 54.0\% | 54.0\% | 60.0\% |
| Hispanic | 6.4\% | 13.1\% | 24.1\% | 21.2\% | 25.0\% |
| Asian/Pacific Islander | 1.8\% | 0.6\% | 0.1\% | 0.4\% | 0.1\% |
| American Indian/ Alaskan Native | 0.7\% | 0.1\% | 0.1\% | 0.1\% | 0.2\% |

[^3]Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, 1989; DHHS publication no. (PHS)89-1120. (Monthly vital statistics report; vol 37, no. 13).
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## Enterovirus Surveillance - United States, 1989

Nonpolio enterovirus (NPEV) surveillance data show that isolates from March through May predict the types likely to be isolated in July through December, which includes the peak enterovirus season (1). State virology laboratories have reported to CDC 31 NPEV isolates obtained from patients in the United States from March through May 1989. Coxsackievirus B5 was isolated most frequently (16 isolates), followed by echovirus 6 (two isolates), and coxsackievirus B3, coxsackievirus A3, and echovirus 9 (one each); 10 isolates were reported as untyped enteroviruses.

Of the 946 NPEV isolates reported in 1988, the six most common were echovirus 11 (18.6\%), echovirus 9 (14.1\%), coxsackievirus B4 (10.6\%), coxsackievirus B2 (9.2\%), echovirus 6 ( $6.2 \%$ ), and coxsackievirus B5 (5.1\%). In 1988, these six NPEV types represented $64 \%$ of the total enterovirus isolates.
Reported by: State virology laboratory directors. Respiratory and Enterovirus Br, Div of Viral and Rickettsial Diseases, Center for Infectious Diseases, CDC.
Editorial Note: Enteroviruses are a group of 65 different, common agents that cause 10-20 million mild upper respiratory infections in the United States every year. Enteroviruses are also responsible for tens of thousands of hospitalizations for aseptic meningitis each year. Knowledge of the common enterovirus subtypes may assist diagnostic laboratories in more rapidly identifying enterovirus isolates and assist public health officials in recognizing outbreaks of enteroviral disease.

Since 1970, state health department laboratories have reported on enterovirus serotypes to CDC approximately 6-8 weeks after specimens are submitted for identification. From 1970 through 1983, the six most common isolates in March through May accounted for an average of $59 \%$ of the isolates in July through December, and for this period in 1984-1988, for 50\%-58\% of the isolates.

The NPEV isolates reported in early 1989 included many coxsackievirus B5 and several of three other types; however, the limited number of these four types makes it impossible to predict at this time that they will be common isolates in 1989. The top six isolates reported in 1988 and each of the four isolates reported in March through May 1989 were in the 15 most frequent isolates for 1970-1983 (1).
Reference

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FIGURE 1. Reported measles cases - United States, weeks 28-31, 1989


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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; telephone (404) 332-4555.

| Acting Director, Centers for Disease Control | Editor, MMWR Series <br> Walter R. Dowdle, Ph.D. |
| :--- | :--- |
| Richard A. Goodman, M.D., M.P.H. <br> Acting Director, Epidemiology Program Office <br> Michael B. Gregg, M.D. | Managing Editor <br> Karen L. Foster, M.A. |

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[^0]:    ${ }^{*}$ Because AIDS cases are not received weekly from all reporting areas, comparison of weekly figures may be misleading.
    ${ }^{\dagger}$ Six of the 220 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.

[^1]:    *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.
    $\dagger$ 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.

[^2]:    *Persons aged $\geqslant 35$ years.
    ${ }^{\dagger}$ Proportion of ever smokers (smoked $\geqslant 100$ cigarettes in lifetime) aged $\geqslant 35$ years of age who are former smokers (no longer smoking).
    ${ }^{\text {A }}$ Attributable risk percentage $=\left[p_{0}+p_{1}\left(R R_{1}\right)+p_{2}\left(R R_{2}\right)\right]-1$ $\times 100(4)$.

[^3]:    *Excluding U.S. territories.
    ${ }^{\dagger} 1980$ U.S. Census.
    ${ }^{5}$ Female or heterosexual male IVDU.

