

# CENTERS FOR DISEASE CONTROL

# **HIV/AIDS**

## **SURVEILLANCE**

**AIDS cases reported through August 1989**

**Issued September 1989**

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Acquired immunodeficiency syndrome (AIDS) is a life-threatening manifestation of infection with the human immunodeficiency virus (HIV).

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**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service  
Centers for Disease Control • Center for Infectious Diseases • Division of HIV/AIDS**

The *HIV/AIDS Surveillance Report* is published each month by the Division of HIV/AIDS, Center for Infectious Diseases, Centers for Disease Control, Atlanta, GA 30333. An expanded, year-end edition is published each January. All data contained in the *Report* are provisional.

Suggested Citation: Centers for Disease Control. HIV/AIDS Surveillance Report, September 1989:1-16

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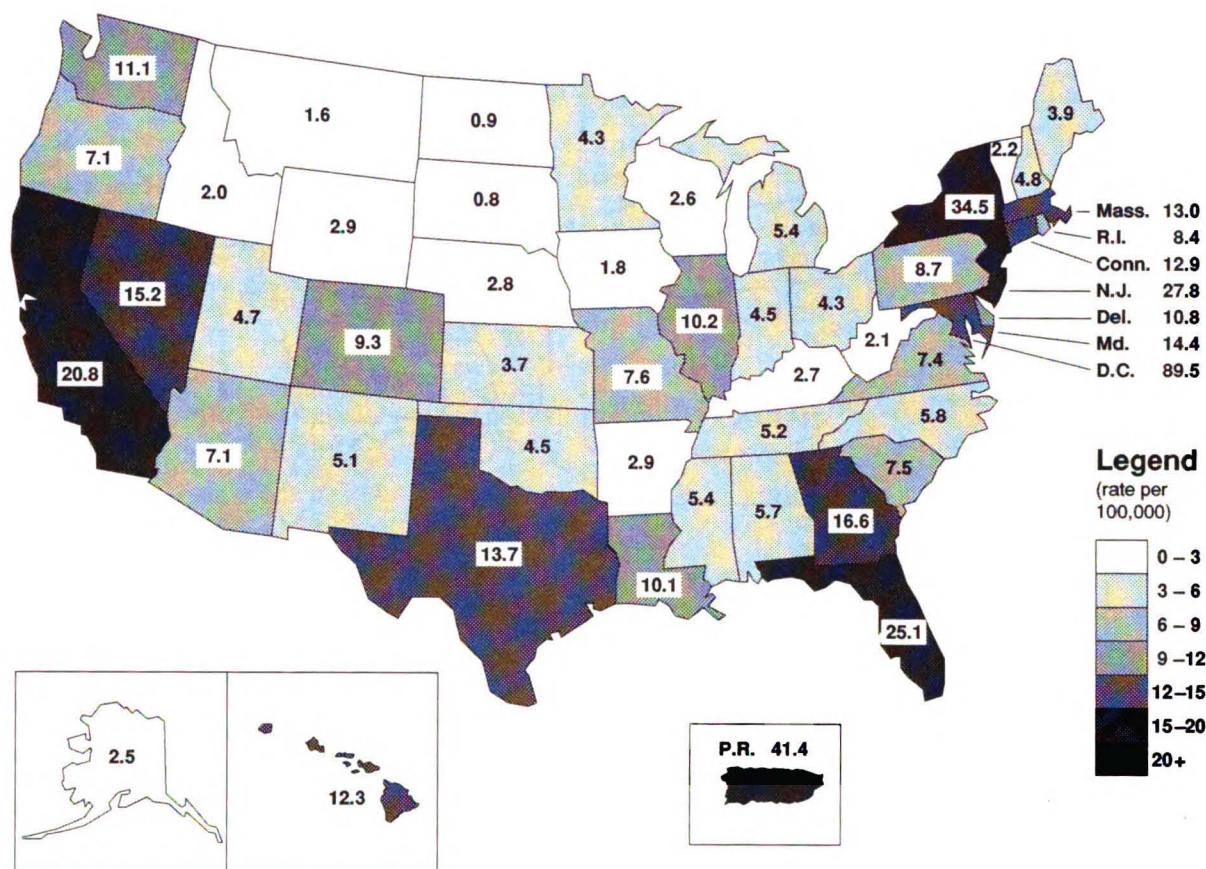
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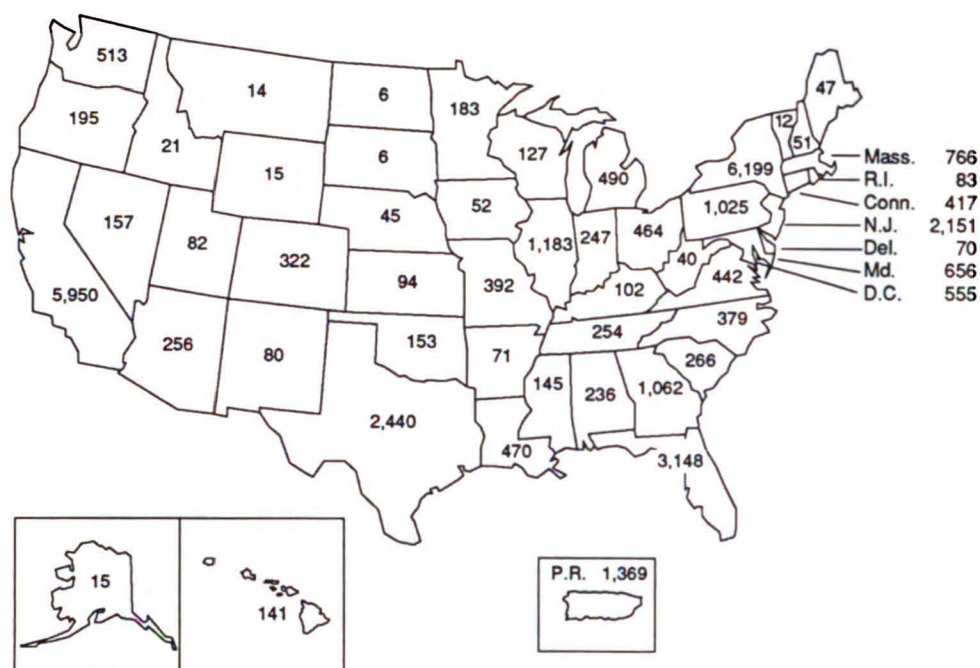
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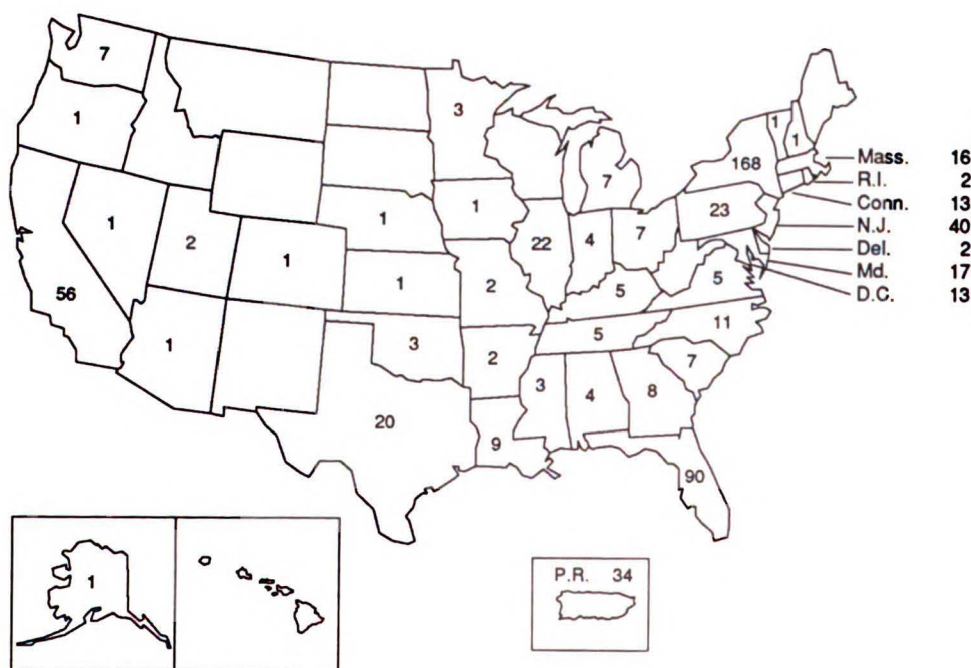
**Figure 1. AIDS annual incidence rates per 100,000 population, for cases reported September 1988 through August 1989, United States**



**Figure 2. Adult/adolescent and pediatric AIDS cases, reported September 1988 through August 1989, United States**



**Figure 3. Pediatric AIDS cases, reported September 1988 through August 1989, United States**



**Table 1. AIDS cases and annual incidence rates per 100,000 population, by state, reported September 1987 through August 1988 and September 1988 through August 1989, and cumulative totals, by state and age group, through August 1989**

| State of residence    | Sep. 1987-<br>Aug. 1988 |             | Sep. 1988-<br>Aug. 1989 |             | Cumulative totals      |                            |                |
|-----------------------|-------------------------|-------------|-------------------------|-------------|------------------------|----------------------------|----------------|
|                       | No.                     | Rate        | No.                     | Rate        | Adults/<br>adolescents | Children<br>< 13 years old | Total          |
| Alabama               | 195                     | 4.8         | 236                     | 5.7         | 576                    | 15                         | 591            |
| Alaska                | 16                      | 2.7         | 15                      | 2.5         | 66                     | 2                          | 68             |
| Arizona               | 309                     | 8.8         | 256                     | 7.1         | 824                    | 4                          | 828            |
| Arkansas              | 87                      | 3.6         | 71                      | 2.9         | 222                    | 3                          | 225            |
| California            | 5,664                   | 20.2        | 5,950                   | 20.8        | 20,889                 | 148                        | 21,037         |
| Colorado              | 324                     | 9.6         | 322                     | 9.3         | 1,062                  | 6                          | 1,068          |
| Connecticut           | 426                     | 13.2        | 417                     | 12.9        | 1,264                  | 45                         | 1,309          |
| Delaware              | 71                      | 11.1        | 70                      | 10.8        | 196                    | 4                          | 200            |
| District of Columbia  | 544                     | 87.4        | 555                     | 89.5        | 1,836                  | 25                         | 1,861          |
| Florida               | 2,373                   | 19.4        | 3,148                   | 25.1        | 8,458                  | 230                        | 8,688          |
| Georgia               | 709                     | 11.2        | 1,062                   | 16.6        | 2,629                  | 33                         | 2,662          |
| Hawaii                | 95                      | 8.4         | 141                     | 12.3        | 400                    | 2                          | 402            |
| Idaho                 | 14                      | 1.4         | 21                      | 2.0         | 44                     | 2                          | 46             |
| Illinois              | 922                     | 8.0         | 1,183                   | 10.2        | 3,152                  | 46                         | 3,198          |
| Indiana               | 138                     | 2.5         | 247                     | 4.5         | 579                    | 7                          | 586            |
| Iowa                  | 36                      | 1.3         | 52                      | 1.8         | 141                    | 3                          | 144            |
| Kansas                | 84                      | 3.4         | 94                      | 3.7         | 263                    | 3                          | 266            |
| Kentucky              | 87                      | 2.3         | 102                     | 2.7         | 271                    | 5                          | 276            |
| Louisiana             | 451                     | 9.8         | 470                     | 10.1        | 1,395                  | 22                         | 1,417          |
| Maine                 | 37                      | 3.1         | 47                      | 3.9         | 132                    | 2                          | 134            |
| Maryland              | 560                     | 12.4        | 656                     | 14.4        | 1,855                  | 43                         | 1,898          |
| Massachusetts         | 628                     | 10.7        | 766                     | 13.0        | 2,223                  | 40                         | 2,263          |
| Michigan              | 389                     | 4.3         | 490                     | 5.4         | 1,256                  | 20                         | 1,276          |
| Minnesota             | 162                     | 3.8         | 183                     | 4.3         | 564                    | 5                          | 569            |
| Mississippi           | 117                     | 4.4         | 145                     | 5.4         | 315                    | 6                          | 321            |
| Missouri              | 383                     | 7.5         | 392                     | 7.6         | 1,062                  | 9                          | 1,071          |
| Montana               | 15                      | 1.8         | 14                      | 1.6         | 34                     | —                          | 34             |
| Nebraska              | 38                      | 2.3         | 45                      | 2.8         | 119                    | 1                          | 120            |
| Nevada                | 149                     | 14.8        | 157                     | 15.2        | 394                    | 3                          | 397            |
| New Hampshire         | 39                      | 3.7         | 51                      | 4.8         | 120                    | 4                          | 124            |
| New Jersey            | 2,690                   | 35.0        | 2,151                   | 27.8        | 6,998                  | 202                        | 7,200          |
| New Mexico            | 57                      | 3.7         | 80                      | 5.1         | 196                    | 1                          | 197            |
| New York              | 6,043                   | 33.7        | 6,199                   | 34.5        | 23,549                 | 521                        | 24,070         |
| North Carolina        | 310                     | 4.8         | 379                     | 5.8         | 947                    | 21                         | 968            |
| North Dakota          | 3                       | 0.4         | 6                       | 0.9         | 16                     | —                          | 16             |
| Ohio                  | 492                     | 4.6         | 464                     | 4.3         | 1,413                  | 22                         | 1,435          |
| Oklahoma              | 144                     | 4.2         | 153                     | 4.5         | 435                    | 9                          | 444            |
| Oregon                | 202                     | 7.4         | 195                     | 7.1         | 607                    | 3                          | 610            |
| Pennsylvania          | 871                     | 7.4         | 1,025                   | 8.7         | 2,889                  | 52                         | 2,941          |
| Rhode Island          | 88                      | 8.9         | 83                      | 8.4         | 257                    | 6                          | 263            |
| South Carolina        | 150                     | 4.3         | 266                     | 7.5         | 566                    | 15                         | 581            |
| South Dakota          | 5                       | 0.7         | 6                       | 0.8         | 16                     | —                          | 16             |
| Tennessee             | 278                     | 5.7         | 254                     | 5.2         | 645                    | 10                         | 655            |
| Texas                 | 2,109                   | 12.1        | 2,440                   | 13.7        | 7,228                  | 61                         | 7,289          |
| Utah                  | 66                      | 3.8         | 82                      | 4.7         | 210                    | 5                          | 215            |
| Vermont               | 20                      | 3.6         | 12                      | 2.2         | 45                     | 1                          | 46             |
| Virginia              | 318                     | 5.4         | 442                     | 7.4         | 1,223                  | 23                         | 1,246          |
| Washington            | 429                     | 9.4         | 513                     | 11.1        | 1,426                  | 10                         | 1,436          |
| West Virginia         | 18                      | 0.9         | 40                      | 2.1         | 92                     | 2                          | 94             |
| Wisconsin             | 114                     | 2.4         | 127                     | 2.6         | 379                    | 1                          | 380            |
| Wyoming               | 4                       | 0.8         | 15                      | 2.9         | 25                     | —                          | 25             |
| <b>U.S. total</b>     | <b>29,473</b>           | <b>12.0</b> | <b>32,290</b>           | <b>13.0</b> | <b>101,503</b>         | <b>1,703</b>               | <b>103,206</b> |
| Guam                  | 4                       | 3.0         | 2                       | 1.5         | 7                      | —                          | 7              |
| Pacific Islands, U.S. | —                       | —           | 1                       | 0.7         | 1                      | —                          | 1              |
| Puerto Rico           | 943                     | 28.6        | 1,369                   | 41.4        | 2,635                  | 74                         | 2,709          |
| Virgin Islands, U.S.  | 32                      | 28.3        | 28                      | 24.3        | 64                     | 3                          | 67             |
| <b>Total</b>          | <b>30,452</b>           | <b>12.2</b> | <b>33,690</b>           | <b>13.4</b> | <b>104,210</b>         | <b>1,780</b>               | <b>105,990</b> |

**Table 2. AIDS cases and annual incidence rates per 100,000 population, by metropolitan area with 500,000 or more population, reported September 1987 through August 1988 and September 1988 through August 1989; and cumulative totals, by area and age group, through August 1989**

| Metropolitan<br>area of residence | Sep. 1987-<br>Aug. 1988 |      | Sep. 1988-<br>Aug. 1989 |      | Cumulative totals      |                           |        |
|-----------------------------------|-------------------------|------|-------------------------|------|------------------------|---------------------------|--------|
|                                   | No.                     | Rate | No.                     | Rate | Adults/<br>adolescents | Children<br><13 years old | Total  |
| Akron, Ohio                       | 20                      | 3.1  | 26                      | 4.1  | 67                     | —                         | 67     |
| Albany-Schenectady, N.Y.          | 61                      | 7.2  | 64                      | 7.5  | 213                    | 1                         | 214    |
| Allentown, Pa.                    | 28                      | 4.2  | 29                      | 4.4  | 90                     | 3                         | 93     |
| Anaheim, Calif.                   | 226                     | 10.1 | 285                     | 12.6 | 848                    | 8                         | 856    |
| Atlanta, Ga.                      | 499                     | 18.5 | 840                     | 30.4 | 2,005                  | 18                        | 2,023  |
| Austin, Tex.                      | 86                      | 10.7 | 197                     | 23.5 | 423                    | 4                         | 427    |
| Bakersfield, Calif.               | 20                      | 3.8  | 27                      | 5.0  | 64                     | —                         | 64     |
| Baltimore, Md.                    | 299                     | 13.1 | 412                     | 18.0 | 1,009                  | 30                        | 1,039  |
| Baton Rouge, La.                  | 31                      | 5.4  | 50                      | 8.6  | 120                    | —                         | 120    |
| Bergen-Passaic, N.J.              | 356                     | 27.3 | 208                     | 15.9 | 906                    | 24                        | 930    |
| Birmingham, Ala.                  | 59                      | 6.4  | 89                      | 9.6  | 188                    | 6                         | 194    |
| Boston, Mass.                     | 497                     | 13.3 | 602                     | 16.1 | 1,770                  | 32                        | 1,802  |
| Bridgeport, Conn.                 | 121                     | 14.5 | 134                     | 16.0 | 374                    | 13                        | 387    |
| Buffalo, N.Y.                     | 42                      | 4.4  | 54                      | 5.7  | 147                    | —                         | 147    |
| Charleston, S.C.                  | 35                      | 6.8  | 58                      | 11.0 | 137                    | —                         | 137    |
| Charlotte, N.C.                   | 86                      | 7.8  | 79                      | 7.1  | 204                    | 4                         | 208    |
| Chicago, Ill.                     | 795                     | 12.7 | 977                     | 15.6 | 2,672                  | 32                        | 2,704  |
| Cincinnati, Ohio                  | 72                      | 5.1  | 56                      | 3.9  | 191                    | 3                         | 194    |
| Cleveland, Ohio                   | 133                     | 7.2  | 123                     | 6.7  | 391                    | 5                         | 396    |
| Columbus, Ohio                    | 119                     | 9.0  | 107                     | 8.1  | 317                    | 2                         | 319    |
| Dallas, Tex.                      | 568                     | 22.4 | 560                     | 21.5 | 1,786                  | 7                         | 1,793  |
| Dayton, Ohio                      | 35                      | 3.8  | 59                      | 6.4  | 142                    | 3                         | 145    |
| Denver, Colo.                     | 265                     | 15.5 | 263                     | 15.1 | 865                    | 4                         | 869    |
| Detroit, Mich.                    | 286                     | 6.7  | 337                     | 7.9  | 881                    | 15                        | 896    |
| El Paso, Tex.                     | 15                      | 2.6  | 24                      | 4.1  | 60                     | —                         | 60     |
| Fort Lauderdale, Fla.             | 349                     | 29.4 | 513                     | 42.4 | 1,392                  | 22                        | 1,414  |
| Fort Worth, Tex.                  | 105                     | 7.9  | 169                     | 12.2 | 393                    | 3                         | 396    |
| Fresno, Calif.                    | 32                      | 5.2  | 51                      | 8.1  | 115                    | 1                         | 116    |
| Gary, Ind.                        | 13                      | 2.1  | 18                      | 3.0  | 48                     | —                         | 48     |
| Grand Rapids, Mich.               | 13                      | 2.0  | 31                      | 4.6  | 63                     | 1                         | 64     |
| Greensboro, N.C.                  | 39                      | 4.3  | 66                      | 7.1  | 143                    | 3                         | 146    |
| Greenville, S.C.                  | 15                      | 2.4  | 30                      | 4.8  | 71                     | —                         | 71     |
| Harrisburg, Pa.                   | 35                      | 6.0  | 50                      | 8.6  | 112                    | 3                         | 115    |
| Hartford, Conn.                   | 109                     | 10.0 | 137                     | 12.5 | 345                    | 8                         | 353    |
| Honolulu, Hawaii                  | 76                      | 8.8  | 100                     | 11.4 | 312                    | 2                         | 314    |
| Houston, Tex.                     | 941                     | 27.5 | 852                     | 24.4 | 3,090                  | 25                        | 3,115  |
| Indianapolis, Ind.                | 59                      | 4.8  | 119                     | 9.6  | 255                    | 2                         | 257    |
| Jacksonville, Fla.                | 161                     | 18.1 | 141                     | 15.5 | 381                    | 10                        | 391    |
| Jersey City, N.J.                 | 471                     | 84.7 | 350                     | 62.9 | 1,251                  | 31                        | 1,282  |
| Kansas City, Mo.                  | 213                     | 13.9 | 207                     | 13.4 | 575                    | 3                         | 578    |
| Knoxville, Tenn.                  | 24                      | 4.0  | 23                      | 3.8  | 72                     | —                         | 72     |
| Las Vegas, Nev.                   | 115                     | 19.0 | 115                     | 18.5 | 284                    | 3                         | 287    |
| Little Rock, Ark.                 | 35                      | 6.8  | 28                      | 5.4  | 94                     | 1                         | 95     |
| Los Angeles, Calif.               | 1,938                   | 22.9 | 1,963                   | 22.8 | 7,328                  | 66                        | 7,394  |
| Louisville, Ky.                   | 47                      | 4.9  | 41                      | 4.2  | 117                    | 1                         | 118    |
| Memphis, Tenn.                    | 96                      | 10.0 | 76                      | 7.8  | 205                    | 4                         | 209    |
| Miami, Fla.                       | 576                     | 31.9 | 846                     | 46.6 | 2,561                  | 103                       | 2,664  |
| Middlesex, N.J.                   | 214                     | 22.3 | 178                     | 18.4 | 562                    | 19                        | 581    |
| Milwaukee, Wis.                   | 68                      | 4.9  | 72                      | 5.2  | 222                    | —                         | 222    |
| Minneapolis-Saint Paul, Minn.     | 142                     | 6.0  | 159                     | 6.7  | 486                    | 4                         | 490    |
| Monmouth-Ocean City, N.J.         | 155                     | 16.0 | 161                     | 16.3 | 398                    | 14                        | 412    |
| Nashville, Tenn.                  | 97                      | 10.2 | 85                      | 8.8  | 217                    | 4                         | 221    |
| Nassau-Suffolk, N.Y.              | 269                     | 10.1 | 372                     | 13.9 | 1,124                  | 35                        | 1,159  |
| New Haven, Conn.                  | 155                     | 19.7 | 104                     | 13.2 | 394                    | 24                        | 418    |
| New Orleans, La.                  | 284                     | 21.0 | 286                     | 21.0 | 913                    | 14                        | 927    |
| New York, N.Y.                    | 5,201                   | 60.8 | 5,232                   | 60.9 | 20,537                 | 467                       | 21,004 |
| Newark, N.J.                      | 1,212                   | 64.4 | 881                     | 46.8 | 2,949                  | 91                        | 3,040  |
| Norfolk, Va.                      | 90                      | 6.6  | 81                      | 5.8  | 243                    | 6                         | 249    |

**Table 2. AIDS cases and annual incidence rates per 100,000 population, by metropolitan area with 500,000 or more population, reported September 1987 through August 1988 and September 1988 through August 1989; and cumulative totals, by area and age group, through August 1989 — Continued**

| Metropolitan<br>area of residence             | Sep. 1987-<br>Aug. 1988 |             | Sep. 1988-<br>Aug. 1989 |             | Cumulative totals      |                           |                |
|-----------------------------------------------|-------------------------|-------------|-------------------------|-------------|------------------------|---------------------------|----------------|
|                                               | No.                     | Rate        | No.                     | Rate        | Adults/<br>adolescents | Children<br><13 years old | Total          |
| Oakland, Calif.                               | 351                     | 17.6        | 341                     | 16.8        | 1,247                  | 5                         | 1,252          |
| Oklahoma City, Okla.                          | 37                      | 3.6         | 18                      | 1.7         | 138                    | —                         | 138            |
| Omaha, Neb.                                   | 26                      | 4.1         | 34                      | 5.4         | 84                     | —                         | 84             |
| Orlando, Fla.                                 | 155                     | 16.0        | 154                     | 15.4        | 414                    | 4                         | 418            |
| Oxnard-Ventura, Calif.                        | 32                      | 5.0         | 41                      | 6.3         | 97                     | —                         | 97             |
| Philadelphia, Pa.                             | 679                     | 14.1        | 727                     | 15.0        | 2,200                  | 35                        | 2,235          |
| Phoenix, Ariz.                                | 234                     | 11.3        | 173                     | 8.1         | 590                    | 2                         | 592            |
| Pittsburgh, Pa.                               | 104                     | 5.0         | 148                     | 7.2         | 372                    | 1                         | 373            |
| Portland, Oreg.                               | 161                     | 13.7        | 153                     | 12.9        | 480                    | 1                         | 481            |
| Providence, R.I.                              | 80                      | 8.9         | 71                      | 7.9         | 222                    | 5                         | 227            |
| Raleigh-Durham, N.C.                          | 68                      | 10.0        | 80                      | 11.5        | 208                    | 6                         | 214            |
| Richmond, Va.                                 | 51                      | 6.2         | 95                      | 11.4        | 234                    | 1                         | 235            |
| Riverside-San Bernardino, Calif.              | 208                     | 9.7         | 249                     | 11.3        | 668                    | 13                        | 681            |
| Rochester, N.Y.                               | 79                      | 8.0         | 71                      | 7.2         | 241                    | 1                         | 242            |
| Sacramento, Calif.                            | 137                     | 10.1        | 165                     | 11.9        | 437                    | 5                         | 442            |
| Saint Louis, Mo.                              | 166                     | 6.8         | 179                     | 7.3         | 469                    | 6                         | 475            |
| Salt Lake City, Utah                          | 55                      | 5.1         | 68                      | 6.2         | 182                    | 4                         | 186            |
| San Antonio, Tex.                             | 121                     | 9.1         | 267                     | 19.6        | 514                    | 8                         | 522            |
| San Diego, Calif.                             | 438                     | 19.0        | 443                     | 18.8        | 1,414                  | 11                        | 1,425          |
| San Francisco, Calif.                         | 1,720                   | 104.5       | 1,733                   | 104.1       | 6,796                  | 11                        | 6,807          |
| San Jose, Calif.                              | 155                     | 10.6        | 150                     | 10.1        | 496                    | 5                         | 501            |
| San Juan, P.R.                                | 479                     | 42.8        | 857                     | 76.3        | 1,567                  | 53                        | 1,620          |
| Scranton, Pa.                                 | 21                      | 2.9         | 22                      | 3.1         | 70                     | 2                         | 72             |
| Seattle, Wash.                                | 304                     | 16.8        | 393                     | 21.5        | 1,083                  | 9                         | 1,092          |
| Springfield, Mass.                            | 23                      | 3.9         | 44                      | 7.5         | 103                    | 1                         | 104            |
| Syracuse, N.Y.                                | 30                      | 4.6         | 21                      | 3.2         | 95                     | 4                         | 99             |
| Tacoma, Wash.                                 | 29                      | 5.3         | 40                      | 7.3         | 93                     | 1                         | 94             |
| Tampa, Fla.                                   | 350                     | 17.4        | 402                     | 19.5        | 1,010                  | 17                        | 1,027          |
| Toledo, Ohio                                  | 21                      | 3.5         | 18                      | 3.0         | 60                     | 1                         | 61             |
| Tucson, Ariz.                                 | 53                      | 8.6         | 53                      | 8.4         | 166                    | 2                         | 168            |
| Tulsa, Okla.                                  | 44                      | 5.8         | 47                      | 6.1         | 123                    | 2                         | 125            |
| Washington, D.C.                              | 871                     | 24.0        | 907                     | 24.6        | 2,982                  | 46                        | 3,028          |
| West Palm Beach, Fla.                         | 283                     | 35.1        | 326                     | 39.1        | 914                    | 38                        | 952            |
| Wilmington, Del.                              | 57                      | 10.2        | 60                      | 10.7        | 160                    | 3                         | 163            |
| Worcester, Mass.                              | 42                      | 6.3         | 37                      | 5.5         | 111                    | 3                         | 114            |
| <b>Metropolitan area subtotal<sup>1</sup></b> | <b>25,767</b>           | <b>18.1</b> | <b>27,784</b>           | <b>19.3</b> | <b>89,162</b>          | <b>1,490</b>              | <b>90,652</b>  |
| <b>Non-metropolitan areas</b>                 | <b>4,685</b>            | <b>4.4</b>  | <b>5,906</b>            | <b>5.5</b>  | <b>15,048</b>          | <b>290</b>                | <b>15,338</b>  |
| <b>Total</b>                                  | <b>30,452</b>           | <b>12.2</b> | <b>33,690</b>           | <b>13.4</b> | <b>104,210</b>         | <b>1,780</b>              | <b>105,990</b> |

<sup>1</sup> Includes data from all metropolitan areas with 50,000 or more population.

**Table 3. AIDS cases by age group, exposure category, and sex, reported September 1987 through August 1988 and September 1988 through August 1989; and cumulative totals, by age group and exposure category, through August 1989, United States**

| Adult/adolescent exposure category                                        | Males                |                      | Females              |                      | Totals               |                      |                  |
|---------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------|
|                                                                           | Sept. 1987-Aug. 1988 | Sept. 1988-Aug. 1989 | Sept. 1987-Aug. 1988 | Sept. 1988-Aug. 1989 | Sept. 1987-Aug. 1988 | Sept. 1988-Aug. 1989 | Cumulative total |
|                                                                           | No. (%)              | No. (%)              | No. (%)              | No. (%)              | No. (%)              | No. (%)              | No. (%)          |
| Male homosexual/bisexual contact                                          | 17,439 (65)          | 18,803 (64)          | —                    | —                    | 17,439 (58)          | 18,803 (57)          | 63,497 (61)      |
| Intravenous (IV) drug use (female and heterosexual male)                  | 5,241 (19)           | 5,843 (20)           | 1,617 (54)           | 1,775 (51)           | 6,858 (23)           | 7,618 (23)           | 21,370 (21)      |
| Male homosexual/bisexual contact and IV drug use                          | 2,082 ( 8)           | 2,079 ( 7)           | —                    | —                    | 2,082 ( 7)           | 2,079 ( 6)           | 7,379 ( 7)       |
| Hemophilia/coagulation disorder                                           | 296 ( 1)             | 308 ( 1)             | 5 ( 0)               | 9 ( 0)               | 301 ( 1)             | 317 ( 1)             | 996 ( 1)         |
| Heterosexual contact:                                                     | 547 ( 2)             | 698 ( 2)             | 854 (29)             | 1,044 (30)           | 1,401 ( 5)           | 1,742 ( 5)           | 4,807 ( 5)       |
| Sex with IV drug user                                                     | 189                  | 351                  | 553                  | 659                  | 742                  | 1,010                | 2,402            |
| Sex with bisexual male                                                    | —                    | —                    | 94                   | 76                   | 94                   | 76                   | 300              |
| Sex with person with hemophilia                                           | 1                    | 3                    | 12                   | 11                   | 13                   | 14                   | 41               |
| Born in Pattern-II <sup>1</sup> country                                   | 282                  | 229                  | 91                   | 126                  | 373                  | 355                  | 1,477            |
| Sex with person born in Pattern-II country                                | 19                   | 16                   | 4                    | 10                   | 23                   | 26                   | 74               |
| Sex with transfusion recipient with HIV infection                         | 4                    | 10                   | 16                   | 22                   | 20                   | 32                   | 70               |
| Sex with person with HIV infection, risk not specified                    | 52                   | 89                   | 84                   | 140                  | 136                  | 229                  | 443              |
| Receipt of transfusion of blood, blood components, or tissue <sup>2</sup> | 552 ( 2)             | 451 ( 2)             | 330 (11)             | 318 ( 9)             | 882 ( 3)             | 769 ( 2)             | 2,566 ( 2)       |
| Other/undetermined <sup>3</sup>                                           | 768 ( 3)             | 1,429 ( 5)           | 174 ( 6)             | 311 ( 9)             | 942 ( 3)             | 1,740 ( 5)           | 3,595 ( 3)       |
| Adult/adolescent subtotal                                                 | 26,925 (100)         | 29,611 (100)         | 2,980 (100)          | 3,457 (100)          | 29,905 (100)         | 33,068 (100)         | 104,210 (100)    |
| <b>Pediatric (&lt;13 years old) exposure category</b>                     |                      |                      |                      |                      |                      |                      |                  |
| Hemophilia/coagulation disorder                                           | 29 (10)              | 34 (10)              | —                    | 1 ( 0)               | 29 ( 5)              | 35 ( 6)              | 102 ( 6)         |
| Mother with/at risk for AIDS/HIV infection:                               | 221 (74)             | 262 (76)             | 211 (85)             | 251 (90)             | 432 (79)             | 513 (82)             | 1,422 (80)       |
| IV drug use                                                               | 112                  | 132                  | 109                  | 106                  | 221                  | 238                  | 728              |
| Sex with IV drug user                                                     | 46                   | 58                   | 39                   | 54                   | 85                   | 112                  | 288              |
| Sex with bisexual male                                                    | 3                    | 5                    | 8                    | 3                    | 11                   | 8                    | 30               |
| Sex with person with hemophilia                                           | 3                    | —                    | 2                    | 1                    | 5                    | 1                    | 7                |
| Born in Pattern-II country                                                | 22                   | 25                   | 15                   | 27                   | 37                   | 52                   | 155              |
| Sex with person born in Pattern-II country                                | 1                    | 2                    | —                    | 2                    | 1                    | 4                    | 6                |
| Sex with transfusion recipient with HIV infection                         | —                    | 3                    | 1                    | 6                    | 1                    | 9                    | 10               |
| Sex with person with HIV infection, risk not specified                    | 10                   | 12                   | 6                    | 13                   | 16                   | 25                   | 56               |
| Receipt of transfusion of blood, blood components, or tissue              | 3                    | 3                    | 10                   | 8                    | 13                   | 11                   | 32               |
| Has HIV infection, risk not specified                                     | 21                   | 22                   | 21                   | 31                   | 42                   | 53                   | 110              |
| Receipt of transfusion of blood, blood components, or tissue              | 43 (14)              | 34 (10)              | 29 (12)              | 15 ( 5)              | 72 (13)              | 49 ( 8)              | 200 (11)         |
| Undetermined                                                              | 7 ( 2)               | 14 ( 4)              | 7 ( 3)               | 11 ( 4)              | 14 ( 3)              | 25 ( 4)              | 56 ( 3)          |
| Pediatric subtotal                                                        | 300 (100)            | 344 (100)            | 247 (100)            | 278 (100)            | 547 (100)            | 622 (100)            | 1,780 (100)      |
| <b>Total</b>                                                              | <b>27,225</b>        | <b>29,955</b>        | <b>3,227</b>         | <b>3,735</b>         | <b>30,452</b>        | <b>33,690</b>        | <b>105,990</b>   |

<sup>1</sup> See technical notes.

<sup>2</sup> Includes 1 tissue recipient and 7 transfusion recipients who received blood screened for HIV antibody.

<sup>3</sup> "Other" is 1 health-care worker who seroconverted to HIV and developed AIDS after needlestick exposure to HIV-infected blood. "Undetermined" includes patients under investigation; patients who died, were lost to follow-up, or refused interview; and patients whose mode of exposure to HIV remains undetermined after investigation. See Figure 4.

**Table 4. AIDS cases by age group, exposure category, and race/ethnicity, reported through August 1989, United States**

| Adult/adolescent exposure category                                        | White, not Hispanic | Black, not Hispanic | Hispanic      | Asian/Pacific Islander | American Indian/Alaskan Native | Total <sup>4</sup> |
|---------------------------------------------------------------------------|---------------------|---------------------|---------------|------------------------|--------------------------------|--------------------|
|                                                                           | No. (%)             | No. (%)             | No. (%)       | No. (%)                | No. (%)                        | No. (%)            |
| Male homosexual/bisexual contact                                          | 45,916 (77)         | 10,310 (37)         | 6,606 (42)    | 471 (75)               | 69 (50)                        | 63,497 (61)        |
| Intravenous (IV) drug use (female and heterosexual male)                  | 4,322 ( 7)          | 10,710 (39)         | 6,234 (40)    | 24 ( 4)                | 24 (18)                        | 21,370 (21)        |
| Male homosexual/bisexual contact and IV drug use                          | 4,389 ( 7)          | 1,899 ( 7)          | 1,050 ( 7)    | 11 ( 2)                | 21 (15)                        | 7,379 ( 7)         |
| Hemophilia/coagulation disorder                                           | 833 ( 1)            | 64 ( 0)             | 75 ( 0)       | 14 ( 2)                | 6 ( 4)                         | 996 ( 1)           |
| Heterosexual contact:                                                     | 963 ( 2)            | 3,041 (11)          | 767 ( 5)      | 21 ( 3)                | 8 ( 6)                         | 4,807 ( 5)         |
| <i>Sex with IV drug user</i>                                              | 538                 | 1,222               | 629           | 8                      | 3                              | 2,402              |
| <i>Sex with bisexual male</i>                                             | 158                 | 97                  | 39            | 4                      | 1                              | 300                |
| <i>Sex with person with hemophilia</i>                                    | 36                  | 3                   | 1             | 1                      | —                              | 41                 |
| <i>Born in Pattern-II<sup>1</sup> country</i>                             | 3                   | 1,457               | 10            | 4                      | —                              | 1,477              |
| <i>Sex with person born in Pattern-II country</i>                         | 21                  | 49                  | 4             | —                      | —                              | 74                 |
| <i>Sex with transfusion recipient with AIDS/HIV infection</i>             | 54                  | 8                   | 6             | 1                      | —                              | 70                 |
| <i>Sex with person with HIV infection, risk not specified</i>             | 153                 | 205                 | 78            | 3                      | 4                              | 443                |
| Receipt of transfusion of blood, blood components, or tissue <sup>2</sup> | 1,878 ( 3)          | 395 ( 1)            | 233 ( 1)      | 52 ( 8)                | 3 ( 2)                         | 2,566 ( 2)         |
| Other/undetermined <sup>3</sup>                                           | 1,334 ( 2)          | 1,385 ( 5)          | 798 ( 5)      | 36 ( 6)                | 6 ( 4)                         | 3,595 ( 3)         |
| Adult/adolescent subtotal                                                 | 59,635(100)         | 27,804 (100)        | 15,763(100)   | 629(100)               | 137(100)                       | 104,210(100)       |
| <b>Pediatric (&lt;13 years old) exposure category</b>                     |                     |                     |               |                        |                                |                    |
| Hemophilia/coagulation disorder                                           | 73 (18)             | 12 ( 1)             | 14 ( 3)       | 3 (33)                 | —                              | 102 ( 6)           |
| Mother with/at risk for AIDS/HIV infection:                               | 209 (52)            | 849 (90)            | 353 (84)      | 3 (33)                 | 4(100)                         | 1,422 (80)         |
| <i>IV drug use</i>                                                        | 100                 | 428                 | 196           | 1                      | 2                              | 728                |
| <i>Sex with IV drug user</i>                                              | 43                  | 140                 | 104           | —                      | —                              | 288                |
| <i>Sex with bisexual male</i>                                             | 11                  | 15                  | 4             | —                      | —                              | 30                 |
| <i>Sex with person with hemophilia</i>                                    | 5                   | 1                   | 1             | —                      | —                              | 7                  |
| <i>Born in Pattern-II country</i>                                         | 2                   | 152                 | 1             | —                      | —                              | 155                |
| <i>Sex with person born in Pattern-II country</i>                         | —                   | 5                   | —             | —                      | —                              | 6                  |
| <i>Sex with transfusion recipient with HIV infection</i>                  | 5                   | 3                   | 2             | —                      | —                              | 10                 |
| <i>Sex with person with HIV infection, risk not specified</i>             | 9                   | 25                  | 19            | 1                      | 1                              | 56                 |
| <i>Receipt of transfusion of blood, blood components, or tissue</i>       | 10                  | 12                  | 10            | —                      | —                              | 32                 |
| <i>Has HIV infection, risk not specified</i>                              | 24                  | 68                  | 16            | 1                      | 1                              | 110                |
| Receipt of transfusion of blood, blood components, or tissue              | 111 (27)            | 46 ( 5)             | 40 (10)       | 3 (33)                 | —                              | 200 (11)           |
| Undetermined                                                              | 12 ( 3)             | 32 ( 3)             | 12 ( 3)       | —                      | —                              | 56 ( 3)            |
| Pediatric subtotal                                                        | 405(100)            | 939 (100)           | 419(100)      | 9(100)                 | 4(100)                         | 1,780(100)         |
| <b>Total</b>                                                              | <b>60,040</b>       | <b>28,743</b>       | <b>16,182</b> | <b>638</b>             | <b>141</b>                     | <b>105,990</b>     |

<sup>1</sup> See technical notes.

<sup>2</sup> Includes 1 tissue recipient and 7 transfusion recipients who received blood screened for HIV antibody.

<sup>3</sup> "Other" is 1 health-care worker who seroconverted to HIV and developed AIDS after needlestick exposure to HIV-infected blood. "Undetermined" includes patients under investigation; patients who died, were lost to follow-up, or refused interview; and patients whose mode of exposure to HIV remains undetermined after investigation. See Figure 4.

<sup>4</sup> Includes 246 persons whose race/ethnicity is unknown.

**Table 5. Adult/adolescent AIDS cases by sex, exposure category, and race/ethnicity, reported through August 1989, United States**

| <b>Male<br/>exposure category</b>                                            | <b>White, not<br/>Hispanic</b> | <b>Black, not<br/>Hispanic</b> | <b>Hispanic</b>     | <b>Asian/Pacific<br/>Islander</b> | <b>American Indian/<br/>Alaskan Native</b> | <b>Total<sup>4</sup></b> |
|------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------|-----------------------------------|--------------------------------------------|--------------------------|
|                                                                              | <b>No. (%)</b>                 | <b>No. (%)</b>                 | <b>No. (%)</b>      | <b>No. (%)</b>                    | <b>No. (%)</b>                             | <b>No. (%)</b>           |
| Male homosexual/bisexual contact                                             | 45,916 (80)                    | 10,310 (45)                    | 6,606 (47)          | 471 (82)                          | 69 (61)                                    | 63,497 (67)              |
| Intravenous (IV) drug use<br>(heterosexual)                                  | 3,273 (6)                      | 7,903 (34)                     | 5,279 (38)          | 13 (2)                            | 10 (9)                                     | 16,523 (17)              |
| Male homosexual/bisexual contact<br>and IV drug use                          | 4,389 (8)                      | 1,899 (8)                      | 1,050 (8)           | 11 (2)                            | 21 (18)                                    | 7,379 (8)                |
| Hemophilia/coagulation disorder                                              | 812 (1)                        | 61 (0)                         | 74 (1)              | 14 (2)                            | 6 (5)                                      | 971 (1)                  |
| Heterosexual contact:                                                        | 303 (1)                        | 1,555 (7)                      | 133 (1)             | 4 (1)                             | 1 (1)                                      | 1,998 (2)                |
| <i>Sex with IV drug user</i>                                                 | 198                            | 377                            | 97                  | 1                                 | 1                                          | 674                      |
| <i>Sex with person with hemophilia</i>                                       | 3                              | 1                              | —                   | —                                 | —                                          | 4                        |
| <i>Born in Pattern-II<sup>1</sup> country</i>                                | 2                              | 1,077                          | 7                   | 3                                 | —                                          | 1,090                    |
| <i>Sex with person born in<br/>    Pattern-II country</i>                    | 21                             | 20                             | 4                   | —                                 | —                                          | 45                       |
| <i>Sex with transfusion recipient<br/>    with HIV infection</i>             | 11                             | 5                              | —                   | —                                 | —                                          | 17                       |
| <i>Sex with person with HIV<br/>    infection, risk not specified</i>        | 68                             | 75                             | 25                  | —                                 | —                                          | 168                      |
| Receipt of transfusion of blood,<br>blood components, or tissue <sup>2</sup> | 1,219 (2)                      | 204 (1)                        | 135 (1)             | 34 (6)                            | 1 (1)                                      | 1,598 (2)                |
| Other/undetermined <sup>3</sup>                                              | 1,134 (2)                      | 1,024 (4)                      | 679 (5)             | 28 (5)                            | 6 (5)                                      | 2,898 (3)                |
| <b>Male subtotal</b>                                                         | <b>57,046 (100)</b>            | <b>22,956 (100)</b>            | <b>13,956 (100)</b> | <b>575 (100)</b>                  | <b>114 (100)</b>                           | <b>94,864 (100)</b>      |
| <b>Female</b>                                                                |                                |                                |                     |                                   |                                            |                          |
| <b>exposure category</b>                                                     |                                |                                |                     |                                   |                                            |                          |
| IV drug use                                                                  | 1,049 (41)                     | 2,807 (58)                     | 955 (53)            | 11 (20)                           | 14 (61)                                    | 4,847 (52)               |
| Hemophilia/coagulation disorder                                              | 21 (1)                         | 3 (0)                          | 1 (0)               | —                                 | —                                          | 25 (0)                   |
| Heterosexual contact:                                                        | 660 (25)                       | 1,486 (31)                     | 634 (35)            | 17 (31)                           | 7 (30)                                     | 2,809 (30)               |
| <i>Sex with IV drug user</i>                                                 | 340                            | 845                            | 532                 | 7                                 | 2                                          | 1,728                    |
| <i>Sex with bisexual male</i>                                                | 158                            | 97                             | 39                  | 4                                 | 1                                          | 300                      |
| <i>Sex with person with hemophilia</i>                                       | 33                             | 2                              | 1                   | 1                                 | —                                          | 37                       |
| <i>Born in Pattern-II country</i>                                            | 1                              | 380                            | 3                   | 1                                 | —                                          | 387                      |
| <i>Sex with person born in<br/>    Pattern-II country</i>                    | —                              | 29                             | —                   | —                                 | —                                          | 29                       |
| <i>Sex with transfusion recipient<br/>    with HIV infection</i>             | 43                             | 3                              | 6                   | 1                                 | —                                          | 53                       |
| <i>Sex with person with HIV<br/>    infection, risk not specified</i>        | 85                             | 130                            | 53                  | 3                                 | 4                                          | 275                      |
| Receipt of transfusion of blood,<br>blood components, or tissue              | 659 (25)                       | 191 (4)                        | 98 (5)              | 18 (33)                           | 2 (9)                                      | 968 (10)                 |
| Other/undetermined                                                           | 200 (8)                        | 361 (7)                        | 119 (7)             | 8 (15)                            | —                                          | 697 (7)                  |
| <b>Female subtotal</b>                                                       | <b>2,589 (100)</b>             | <b>4,848 (100)</b>             | <b>1,807 (100)</b>  | <b>54 (100)</b>                   | <b>23 (100)</b>                            | <b>9,346 (100)</b>       |
| <b>Total</b>                                                                 | <b>59,635</b>                  | <b>27,804</b>                  | <b>15,763</b>       | <b>629</b>                        | <b>137</b>                                 | <b>104,210</b>           |

<sup>1</sup> See technical notes.

<sup>2</sup> Includes 1 tissue recipient and 7 transfusion recipients who received blood screened for HIV antibody.

<sup>3</sup> "Other" is 1 health-care worker who seroconverted to HIV and developed AIDS after needlestick exposure to HIV-infected blood. "Undetermined" includes patients under investigation; patients who died, were lost to follow-up, or refused interview; and patients whose mode of exposure to HIV remains undetermined after investigation. See Figure 4.

<sup>4</sup> Includes 217 males and 25 females whose race/ethnicity is unknown.

**Table 6. AIDS cases by sex, age at diagnosis, and race/ethnicity, reported through August 1989, United States**

| <b>Males</b>                    | <b>White, not<br/>Hispanic</b> | <b>Black, not<br/>Hispanic</b> | <b>Hispanic</b> | <b>Asian/Pacific<br/>Islander</b> | <b>American Indian/<br/>Alaskan Native</b> | <b>Total<sup>1</sup></b> |
|---------------------------------|--------------------------------|--------------------------------|-----------------|-----------------------------------|--------------------------------------------|--------------------------|
| <b>Age at diagnosis (years)</b> | <b>No. (%)</b>                 | <b>No. (%)</b>                 | <b>No. (%)</b>  | <b>No. (%)</b>                    | <b>No. (%)</b>                             | <b>No. (%)</b>           |
| Under 5                         | 135 ( 0)                       | 425 ( 2)                       | 199 ( 1)        | 3 ( 1)                            | 2 ( 2)                                     | 766 ( 1)                 |
| 5-12                            | 117 ( 0)                       | 56 ( 0)                        | 37 ( 0)         | 3 ( 1)                            | —                                          | 214 ( 0)                 |
| 13-19                           | 168 ( 0)                       | 97 ( 0)                        | 60 ( 0)         | 5 ( 1)                            | 3 ( 3)                                     | 334 ( 0)                 |
| 20-24                           | 2,104 ( 4)                     | 1,154 ( 5)                     | 680 ( 5)        | 25 ( 4)                           | 9 ( 8)                                     | 3,979 ( 4)               |
| 25-29                           | 8,700 (15)                     | 3,865 (16)                     | 2,437 (17)      | 77 (13)                           | 20 (17)                                    | 15,123 (16)              |
| 30-34                           | 13,526 (24)                    | 5,997 (26)                     | 3,682 (26)      | 122 (21)                          | 31 (27)                                    | 23,408 (24)              |
| 35-39                           | 12,519 (22)                    | 5,325 (23)                     | 3,064 (22)      | 131 (23)                          | 20 (17)                                    | 21,111 (22)              |
| 40-44                           | 8,435 (15)                     | 2,934 (13)                     | 1,920 (14)      | 80 (14)                           | 14 (12)                                    | 13,421 (14)              |
| 45-49                           | 4,947 ( 9)                     | 1,643 ( 7)                     | 951 ( 7)        | 63 (11)                           | 9 ( 8)                                     | 7,629 ( 8)               |
| 50-54                           | 2,873 ( 5)                     | 950 ( 4)                       | 565 ( 4)        | 32 ( 6)                           | 3 ( 3)                                     | 4,435 ( 5)               |
| 55-59                           | 1,832 ( 3)                     | 557 ( 2)                       | 352 ( 2)        | 18 ( 3)                           | 3 ( 3)                                     | 2,772 ( 3)               |
| 60-64                           | 1,008 ( 2)                     | 277 ( 1)                       | 145 ( 1)        | 7 ( 1)                            | 2 ( 2)                                     | 1,444 ( 2)               |
| 65 or older                     | 934 ( 2)                       | 157 ( 1)                       | 100 ( 1)        | 15 ( 3)                           | —                                          | 1,208 ( 1)               |
| Male subtotal                   | 57,298 (100)                   | 23,437 (100)                   | 14,192 (100)    | 581 (100)                         | 116 (100)                                  | 95,844 (100)             |
| <b>Females</b>                  |                                |                                |                 |                                   |                                            |                          |
| <b>Age at diagnosis (years)</b> |                                |                                |                 |                                   |                                            |                          |
| Under 5                         | 129 ( 5)                       | 405 ( 8)                       | 158 ( 8)        | 1 ( 2)                            | 2 ( 8)                                     | 696 ( 7)                 |
| 5-12                            | 24 ( 1)                        | 53 ( 1)                        | 25 ( 1)         | 2 ( 4)                            | —                                          | 104 ( 1)                 |
| 13-19                           | 16 ( 1)                        | 49 ( 1)                        | 14 ( 1)         | 1 ( 2)                            | 1 ( 4)                                     | 81 ( 1)                  |
| 20-24                           | 187 ( 7)                       | 303 ( 6)                       | 154 ( 8)        | 2 ( 4)                            | 1 ( 4)                                     | 651 ( 6)                 |
| 25-29                           | 501 (18)                       | 1,008 (19)                     | 446 (22)        | 5 ( 9)                            | 4 (16)                                     | 1,973 (19)               |
| 30-34                           | 596 (22)                       | 1,495 (28)                     | 500 (25)        | 14 (25)                           | 9 (36)                                     | 2,620 (26)               |
| 35-39                           | 380 (14)                       | 1,022 (19)                     | 350 (18)        | 6 (11)                            | 3 (12)                                     | 1,765 (17)               |
| 40-44                           | 209 ( 8)                       | 476 ( 9)                       | 174 ( 9)        | 11 (19)                           | 2 ( 8)                                     | 872 ( 9)                 |
| 45-49                           | 114 ( 4)                       | 205 ( 4)                       | 71 ( 4)         | 5 ( 9)                            | —                                          | 397 ( 4)                 |
| 50-54                           | 92 ( 3)                        | 119 ( 2)                       | 37 ( 2)         | 3 ( 5)                            | 1 ( 4)                                     | 252 ( 2)                 |
| 55-59                           | 103 ( 4)                       | 67 ( 1)                        | 26 ( 1)         | 1 ( 2)                            | —                                          | 197 ( 2)                 |
| 60-64                           | 105 ( 4)                       | 49 ( 1)                        | 16 ( 1)         | 3 ( 5)                            | 1 ( 4)                                     | 174 ( 2)                 |
| 65 or older                     | 286 (10)                       | 55 ( 1)                        | 19 ( 1)         | 3 ( 5)                            | 1 ( 4)                                     | 364 ( 4)                 |
| Female subtotal                 | 2,742 (100)                    | 5,306 (100)                    | 1,990 (100)     | 57 (100)                          | 25 (100)                                   | 10,146 (100)             |
| <b>Total</b>                    | <b>60,040</b>                  | <b>28,743</b>                  | <b>16,182</b>   | <b>638</b>                        | <b>141</b>                                 | <b>105,990</b>           |

<sup>1</sup> Includes 246 persons whose race/ethnicity is unknown.

**Table 7. AIDS deaths and case-fatality rates, by half-year of diagnosis and age group, diagnosed through August 1989, United States**

| Half-year of diagnosis | Adults/adolescents |               |                    | Children <13 years old |            |                    |
|------------------------|--------------------|---------------|--------------------|------------------------|------------|--------------------|
|                        | Cases              | Deaths        | Case-fatality rate | Cases                  | Deaths     | Case-fatality rate |
| Before 1981            | 79                 | 64            | 81.0               | 6                      | 4          | 66.7               |
| 1981 Jan.-June         | 88                 | 81            | 92.0               | 8                      | 5          | 62.5               |
| July-Dec.              | 194                | 178           | 91.8               | 5                      | 5          | 100.0              |
| 1982 Jan.-June         | 383                | 348           | 90.9               | 13                     | 10         | 76.9               |
| July-Dec.              | 659                | 587           | 89.1               | 14                     | 11         | 78.6               |
| 1983 Jan.-June         | 1,248              | 1,140         | 91.3               | 33                     | 30         | 90.9               |
| July-Dec.              | 1,607              | 1,462         | 91.0               | 40                     | 28         | 70.0               |
| 1984 Jan.-June         | 2,504              | 2,162         | 86.3               | 47                     | 39         | 83.0               |
| July-Dec.              | 3,293              | 2,871         | 87.2               | 61                     | 44         | 72.1               |
| 1985 Jan.-June         | 4,688              | 4,035         | 86.1               | 94                     | 64         | 68.1               |
| July-Dec.              | 6,054              | 5,087         | 84.0               | 127                    | 94         | 74.0               |
| 1986 Jan.-June         | 7,887              | 6,341         | 80.4               | 128                    | 90         | 70.3               |
| July-Dec.              | 9,446              | 7,040         | 74.5               | 159                    | 100        | 62.9               |
| 1987 Jan.-June         | 11,947             | 8,202         | 68.7               | 200                    | 117        | 58.5               |
| July-Dec.              | 13,093             | 7,372         | 56.3               | 231                    | 118        | 51.1               |
| 1988 Jan.-June         | 14,201             | 6,315         | 44.5               | 196                    | 82         | 41.8               |
| July-Dec.              | 13,767             | 4,728         | 34.3               | 242                    | 77         | 31.8               |
| 1989 Jan.-June         | 12,157             | 2,575         | 21.2               | 166                    | 52         | 31.3               |
| July-Aug.              | 915                | 96            | 10.5               | 10                     | 1          | 10.0               |
| <b>Total</b>           | <b>104,210</b>     | <b>60,684</b> | <b>58.2</b>        | <b>1,780</b>           | <b>971</b> | <b>54.6</b>        |

**Table 8. AIDS cases by year of diagnosis and definition category, diagnosed through August 1989, United States**

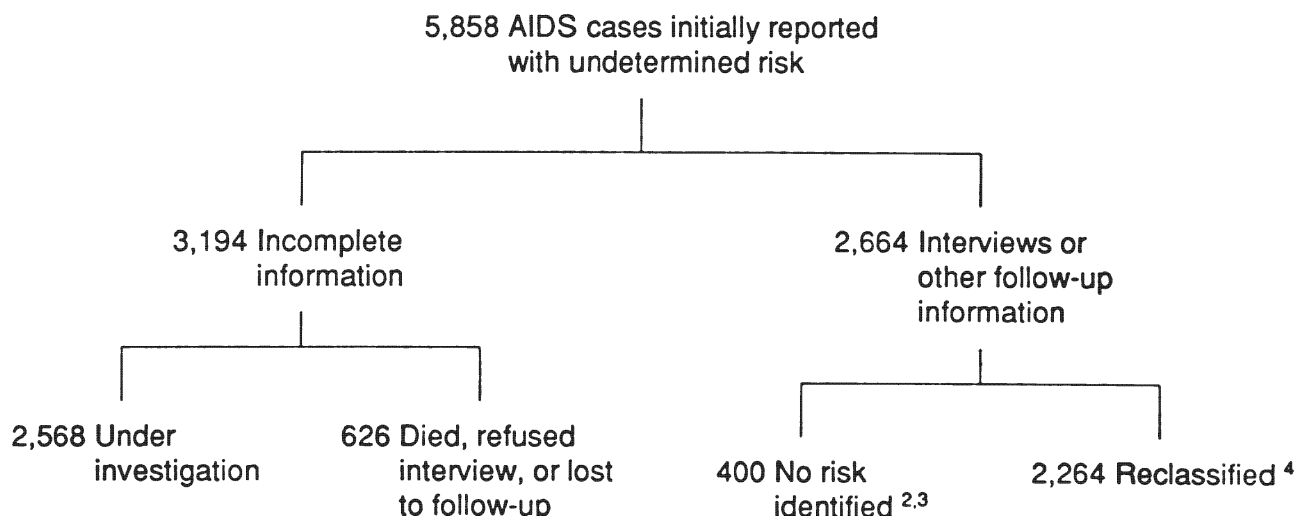
| Definition category <sup>1</sup> | Year of diagnosis   |                      |                      |                      |                      | Cumulative total     |
|----------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                  | Before Sept. 1985   | Sept. 1985-Aug. 1986 | Sept. 1986-Aug. 1987 | Sept. 1987-Aug. 1988 | Sept. 1988-Aug. 1989 |                      |
|                                  | No. (%)             | No. (%)              | No. (%)              | No. (%)              | No. (%)              |                      |
| Pre-1987 definition              | 16,756 ( 98)        | 13,789 (91)          | 19,802 (86)          | 20,461 (72)          | 15,460 (69)          | 86,268 (81)          |
| 1987 definition:                 | 395 ( 2)            | 1,396 ( 9)           | 3,258 (14)           | 7,774 (28)           | 6,899 (31)           | 19,722 (19)          |
| <i>Specific disease</i>          |                     |                      |                      |                      |                      |                      |
| <i>presumptively diagnosed</i>   | 193                 | 762                  | 1,708                | 4,299                | 3,871                | 10,833               |
| <i>Specific disease</i>          |                     |                      |                      |                      |                      |                      |
| <i>definitively diagnosed</i>    | 109                 | 198                  | 426                  | 548                  | 460                  | 1,741                |
| <i>HIV encephalopathy</i>        | 33                  | 118                  | 417                  | 990                  | 801                  | 2,359                |
| <i>HIV wasting syndrome</i>      | 60                  | 318                  | 707                  | 1,937                | 1,767                | 4,789                |
| <b>Total</b>                     | <b>17,151 (100)</b> | <b>15,185 (100)</b>  | <b>23,060 (100)</b>  | <b>28,235 (100)</b>  | <b>22,359 (100)</b>  | <b>105,990 (100)</b> |

<sup>1</sup> Persons who meet the criteria for more than one definition category are classified in the definition category listed first.

**Table 9. Adult/adolescent AIDS cases by single and multiple exposure categories, reported through August 1989, United States**

| Exposure category                                                                           | AIDS cases     |              |
|---------------------------------------------------------------------------------------------|----------------|--------------|
|                                                                                             | No.            | ( %)         |
| <b>Single mode of exposure</b>                                                              |                |              |
| Male homosexual/bisexual contact                                                            | 60,963         | ( 59)        |
| Intravenous (IV) drug use (female and heterosexual male)                                    | 18,298         | ( 18)        |
| Hemophilia/coagulation disorder                                                             | 591            | ( 1)         |
| Heterosexual contact                                                                        | 4,561          | ( 4)         |
| Receipt of transfusion of blood, blood component, or tissue                                 | 2,566          | ( 2)         |
| Other/undetermined                                                                          | 3,595          | ( 3)         |
| <b>Single mode of exposure subtotal</b>                                                     | <b>90,574</b>  | <b>( 87)</b> |
| <b>Multiple modes of exposure</b>                                                           |                |              |
| Male homosexual/bisexual contact; IV drug use                                               | 6,675          | ( 6)         |
| Male homosexual/bisexual contact; hemophilia                                                | 40             | ( 0)         |
| Male homosexual/bisexual contact; heterosexual contact                                      | 1,190          | ( 1)         |
| Male homosexual/bisexual contact; receipt of transfusion                                    | 1,218          | ( 1)         |
| IV drug use; hemophilia                                                                     | 24             | ( 0)         |
| IV drug use; heterosexual contact                                                           | 2,350          | ( 2)         |
| IV drug use; receipt of transfusion                                                         | 524            | ( 1)         |
| Hemophilia; heterosexual contact                                                            | 5              | ( 0)         |
| Hemophilia; receipt of transfusion                                                          | 394            | ( 0)         |
| Heterosexual contact; receipt of transfusion                                                | 246            | ( 0)         |
| Male homosexual/bisexual contact; IV drug use; hemophilia                                   | 16             | ( 0)         |
| Male homosexual/bisexual contact; IV drug use; heterosexual contact                         | 458            | ( 0)         |
| Male homosexual/bisexual contact; IV drug use; receipt of transfusion                       | 200            | ( 0)         |
| Male homosexual/bisexual contact; hemophilia; heterosexual contact                          | 2              | ( 0)         |
| Male homosexual/bisexual contact; hemophilia; receipt of transfusion                        | 24             | ( 0)         |
| Male homosexual/bisexual contact; heterosexual contact; receipt of transfusion              | 60             | ( 0)         |
| IV drug use; hemophilia; heterosexual contact                                               | 6              | ( 0)         |
| IV drug use; hemophilia; receipt of transfusion                                             | 18             | ( 0)         |
| IV drug use; heterosexual contact; receipt of transfusion                                   | 146            | ( 0)         |
| Hemophilia; heterosexual contact; receipt of transfusion                                    | 6              | ( 0)         |
| Male homosexual/bisexual contact; IV drug use; hemophilia; receipt of transfusion           | 10             | ( 0)         |
| Male homosexual/bisexual contact; IV drug use; heterosexual contact; receipt of transfusion | 20             | ( 0)         |
| IV drug use; hemophilia; heterosexual contact; receipt of transfusion                       | 4              | ( 0)         |
| <b>Multiple modes of exposure subtotal</b>                                                  | <b>13,636</b>  | <b>( 13)</b> |
| <b>Total</b>                                                                                | <b>104,210</b> | <b>(100)</b> |

**Figure 4. Results of investigations of adult/adolescent AIDS cases with undetermined risk, reported through August 1989<sup>1</sup>**



<sup>1</sup> Excludes 57 children under 13 years of age who have an undetermined risk: 49 children are under investigation and 8 have died, refused interview, or were lost to follow-up. An additional 55 children who were initially reported with an undetermined risk have been reclassified after investigation.

<sup>2</sup> **Health-care workers.** Included among the 400 adults/adolescents whose mode of exposure remains undetermined after investigation are 56 health-care workers; 23 (55%) of 42 workers who responded to a standardized questionnaire reported needlesticks and/or mucous membrane exposures to blood and other body fluids of patients. None of the patients was known to be infected with HIV at the time of the exposure and none of the health-care workers was evaluated at the time of the exposure to document seroconversion to HIV antibody. See *MMWR*, "Update: Acquired Immunodeficiency Syndrome and Human Immunodeficiency Virus Infection Among Health-Care Workers," (April 22, 1988) 37:229-234, 239.

<sup>3</sup> **Heterosexual transmission.** 272 of the 400 patients who had no risk identified after follow-up responded to a standardized questionnaire; 89 (37%) of 241 persons responding to questions related to sexually transmitted disease gave a history of such disease and 57 (33%) of 172 interviewed men reported sexual contact with a prostitute. Some of these persons may represent unreported or unrecognized heterosexual transmission of HIV. See *MMWR*, "Update: Heterosexual Transmission of AIDS and HIV Infection — U.S.," (June 23, 1989) 38:423-424, 429-434.

<sup>4</sup> Included in this category is 1 health-care worker who seroconverted to HIV and developed AIDS after a needlestick exposure to HIV-infected blood and is classified as "other."

# Technical notes

## Surveillance and reporting of AIDS

All 50 states, the District of Columbia, and U.S. dependencies and possessions and independent nations in free association with the U.S.<sup>1</sup> report AIDS cases to CDC using a uniform case definition and case report form. The original definition was modified in 1985 (*MMWR* 1985;34:373-5) and again in 1987 (*MMWR* 1987;36 [suppl. no. 1S]:1S-15S). The revisions incorporated a broader range of AIDS-indicator diseases and conditions and used human immunodeficiency virus (HIV) diagnostic tests to improve the sensitivity and specificity of the definition. For persons with laboratory-confirmed HIV infection, the 1987 revision incorporated HIV encephalopathy, wasting syndrome, and other indicator diseases that are diagnosed presumptively (i.e., without confirmatory laboratory evidence of the opportunistic disease). AIDS cases that meet the criteria of both the pre-1987 and 1987 definitions are classified in the pre-1987 definition category. The CDC case report form includes demographic, clinical, laboratory, and exposure information.

Each issue of this update includes information received by CDC through the last day of the current reporting month. Data are tabulated by date of report to CDC unless otherwise noted. Data for U.S. dependencies and possessions, and for associated independent nations are included in the totals unless otherwise noted.

Reporting by age is based on the person's age at the time of diagnosis of AIDS: adult/adolescent cases include persons 13 years of age and older; pediatric cases include children under 13 years of age.

Metropolitan areas are defined as the Metropolitan Statistical Areas (MSA) for all areas except the 6 New England states. For these states, the New England County Metropolitan Areas (NECMA) are used. Metropolitan areas are named for a central city in the MSA or NECMA, may include several counties, and may cross state boundaries. For example, AIDS cases and incidence rates presented for the District of Columbia in Table 1 include only persons residing within the geographic boundaries of the District. AIDS cases and incidence rates for Washington, D.C., in Table 2 include persons residing within several counties in the MSA. State or metropolitan area data tabulations are based on the person's residence at diagnosis of the first AIDS-indicator diseases.

Data in this report are provisional; completeness of reporting to state and local health departments varies. In addition, multiple routes of exposure, opportunistic diseases diagnosed after the initial case report was submitted to CDC, and vital status may not be determined or

reported for all cases. Caution should be used in interpreting case-fatality rates because reporting of deaths is known to be incomplete.

## Exposure categories

For surveillance purposes, AIDS cases are counted only once in a hierarchy of exposure categories. Persons with more than one reported mode of exposure to HIV are classified in the exposure category listed first in the hierarchy, except for persons with a history of both homosexual/bisexual contact and intravenous drug use. They make up a separate exposure category.

"Heterosexual contact" cases include persons who report either specific heterosexual contact with a person with, or at increased risk for, HIV infection (e.g., an intravenous drug user), or persons presumed to have acquired HIV infection through heterosexual contact because they were born in countries with a distinctive pattern of transmission termed "Pattern II" by the World Health Organization (*MMWR* 1988;37:286-8,293-5). Pattern II is observed in areas of central, eastern, and southern Africa and in some Caribbean countries. In these countries, most of the reported cases occur in heterosexuals; the male-to-female ratio is approximately 1:1; and perinatal transmission is more common than in other areas. Intravenous drug use and homosexual transmission either do not occur or occur at a low level.

"Undetermined" cases are in persons with no reported history of exposure to HIV through any of the routes listed in the hierarchy of exposure categories. Undetermined cases include persons who are currently under investigation by local health department officials; persons whose exposure history is incomplete because of death, refusal to be interviewed, or loss to follow-up; and persons who were interviewed or for whom other follow-up information was available and no exposure mode was identified. Persons who have an exposure mode identified at the time of follow-up are reclassified into the appropriate exposure category.

## Rates

Rates are on an annual basis per 100,000 population. The denominator for computing the rates is based on population estimates derived from 1980 census data and post-census population estimates. Each 12-month rate is the number of cases for a 12-month period divided by the estimated midyear 1988 or 1989 population multiplied by 100,000.

Case-fatality rates are on a semiannual basis by date of diagnosis. Each 6-month case-fatality rate is the sum of fatal cases reported per number of cases diagnosed in that period. Deaths reported for cases diagnosed in a particular half-year period may have occurred after that period.

<sup>1</sup>Included among the dependencies, possessions, and independent nations are Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, the Republic of Palau, the Republic of the Marshall Islands, the Commonwealth of the Northern Mariana Islands, and the Federated States of Micronesia. The latter 5 comprise the category "Pacific Islands, U.S." listed in Table 1.