

CENTERS FOR DISEASE CONTROL

HIV/AIDS

SURVEILLANCE

AIDS cases reported through February 1989

Issued March 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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Erratum: February 1989, Figure 3. Pediatric AIDS Cases, United States

The following states reported 0 pediatric AIDS cases between February 1988 and January 1989: Alaska, Arizona, Idaho, Maine, Montana, Nebraska, New Hampshire, North Dakota, South Dakota, West Virginia, Wisconsin, and Wyoming.

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

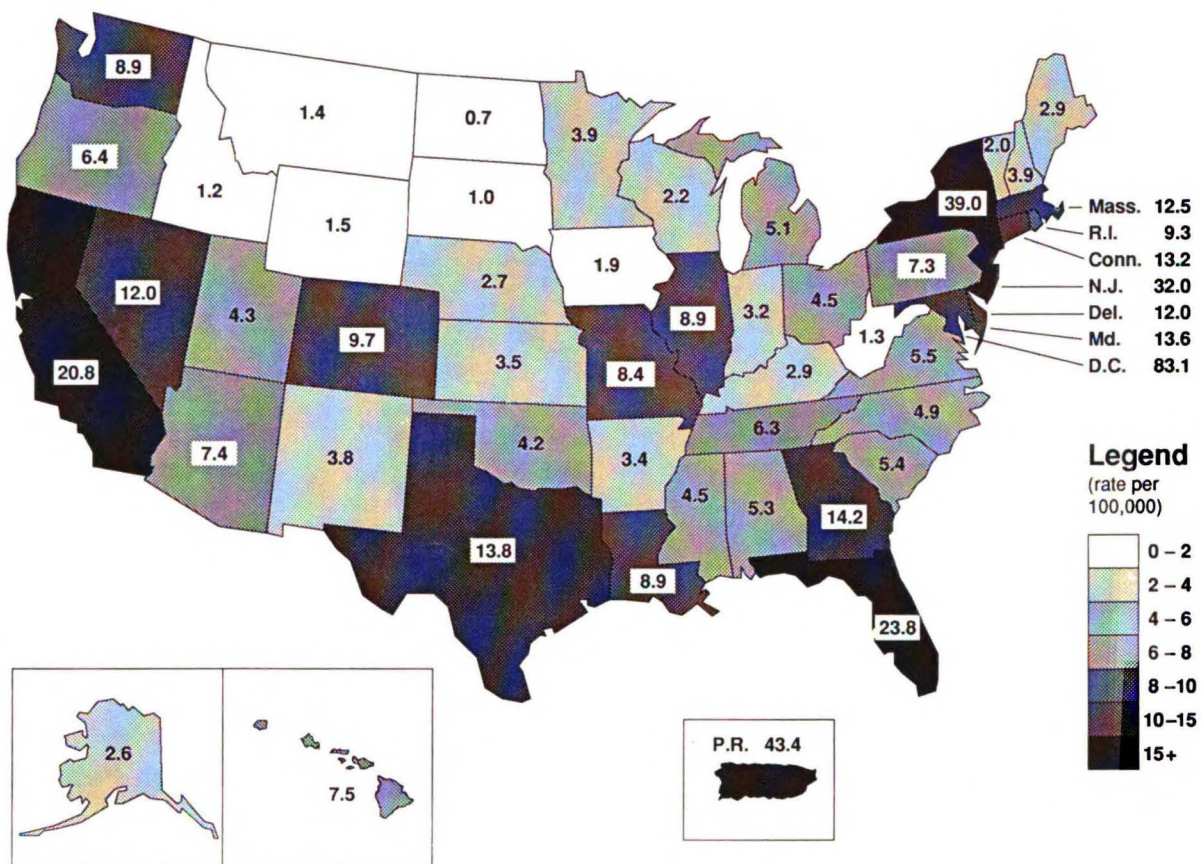


Figure 2. Adult/adolescent and pediatric AIDS cases, United States, reported March 1988 through February 1989

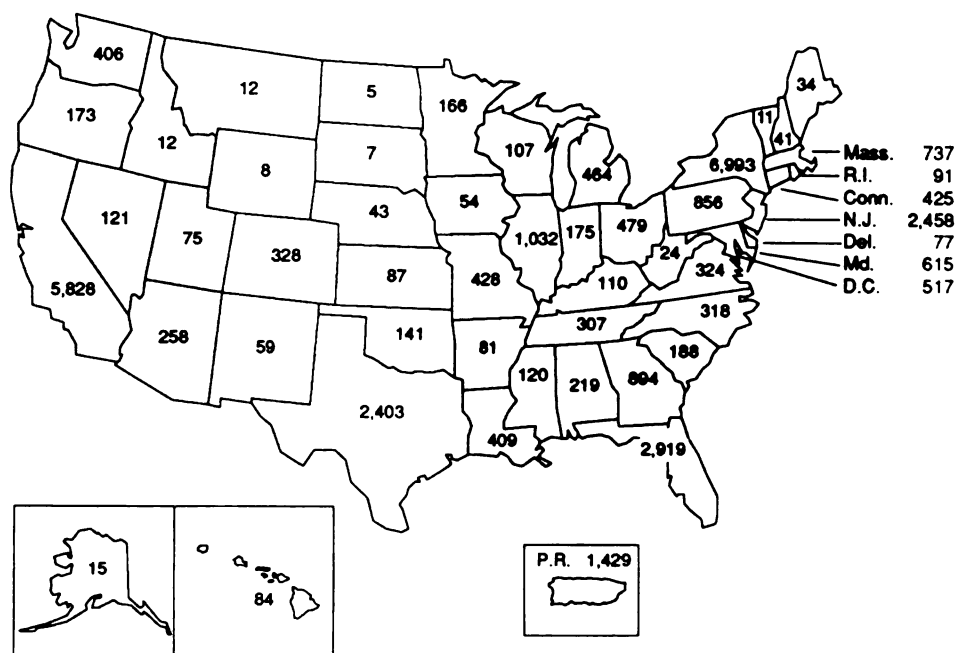


Figure 3. Pediatric AIDS cases, United States, reported March 1988 through February 1989

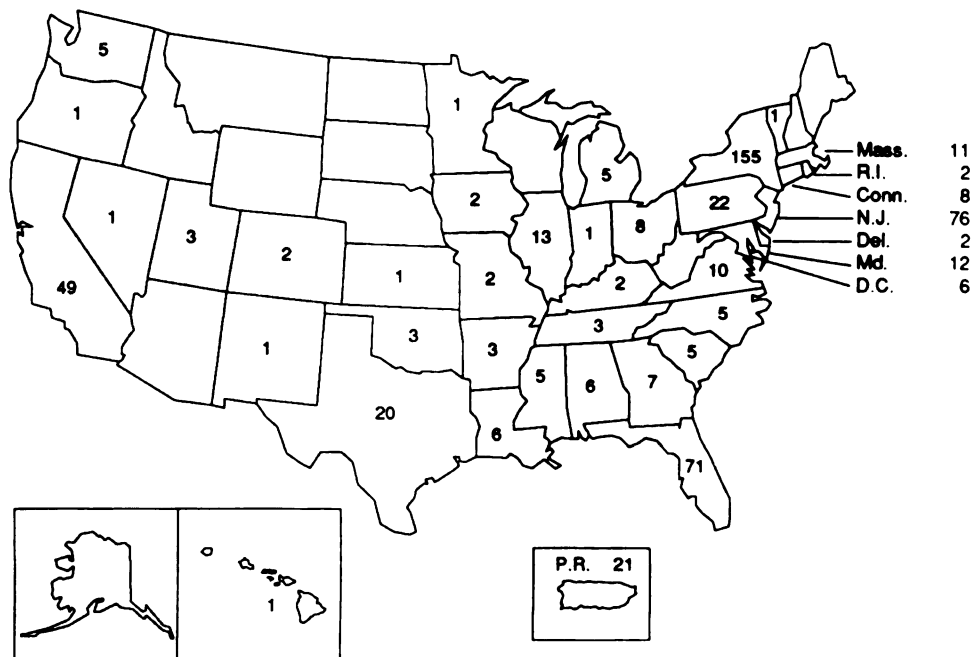


Table 1. AIDS cases and annual incidence rates per 100,000 population, by state, reported March 1987 through February 1988 and March 1988 through February 1989; and cumulative totals, by state and age group, through February 1989

State of residence	Mar. 1987- Feb. 1988		Mar. 1988- Feb. 1989		Cumulative totals		
	No.	Rate	No.	Rate	Adults/ adolescents	Children < 13 years old	Total
Alabama	184	4.5	219	5.3	466	13	479
Alaska	19	3.4	15	2.6	58	1	59
Arizona	286	8.4	258	7.4	703	3	706
Arkansas	60	2.5	81	3.4	183	3	186
California	5,143	18.7	5,828	20.8	17,692	113	17,805
Colorado	247	7.4	328	9.7	904	5	909
Connecticut	289	9.0	425	13.2	1,058	35	1,093
Delaware	43	6.8	77	12.0	163	4	167
District of Columbia	467	74.8	517	83.1	1,548	17	1,565
Florida	1,623	13.6	2,919	23.8	6,688	174	6,862
Georgia	560	9.0	894	14.2	2,079	28	2,107
Hawaii	90	8.1	84	7.5	291	2	293
Idaho	10	1.0	12	1.2	28	2	30
Illinois	713	6.2	1,032	8.9	2,479	33	2,512
Indiana	131	2.4	175	3.2	448	4	452
Iowa	32	1.1	54	1.9	121	3	124
Kansas	60	2.4	87	3.5	205	3	208
Kentucky	47	1.3	110	2.9	222	2	224
Louisiana	351	7.7	409	8.9	1,134	15	1,149
Maine	29	2.5	34	2.9	101	2	103
Maryland	467	10.4	615	13.6	1,525	32	1,557
Massachusetts	496	8.5	737	12.5	1,847	32	1,879
Michigan	265	2.9	464	5.1	1,007	15	1,022
Minnesota	144	3.4	166	3.9	477	2	479
Mississippi	64	2.4	120	4.5	224	5	229
Missouri	254	5.0	428	8.4	883	8	891
Montana	10	1.2	12	1.4	26	—	26
Nebraska	30	1.9	43	2.7	97	—	97
Nevada	109	11.1	121	12.0	294	3	297
New Hampshire	32	3.1	41	3.9	96	3	99
New Jersey	1,734	22.7	2,458	32.0	5,887	189	6,076
New Mexico	48	3.2	59	3.8	155	1	156
New York	4,181	23.4	6,993	39.0	20,596	436	21,032
North Carolina	246	3.8	318	4.9	755	14	769
North Dakota	1	0.1	5	0.7	12	—	12
Ohio	399	3.7	479	4.5	1,191	19	1,210
Oklahoma	108	3.2	141	4.2	337	8	345
Oregon	192	7.1	173	6.4	495	2	497
Pennsylvania	741	6.3	856	7.3	2,260	44	2,304
Rhode Island	65	6.6	91	9.3	215	5	220
South Carolina	103	3.0	188	5.4	403	10	413
South Dakota	5	0.7	7	1.0	15	—	15
Tennessee	152	3.1	307	6.3	548	8	556
Texas	1,619	9.5	2,403	13.8	6,022	51	6,073
Utah	48	2.8	75	4.3	171	5	176
Vermont	16	2.9	11	2.0	37	1	38
Virginia	272	4.6	324	5.5	941	21	962
Washington	360	7.9	406	8.9	1,138	8	1,146
West Virginia	21	1.1	24	1.3	67	2	69
Wisconsin	96	2.0	107	2.2	298	1	299
Wyoming	2	0.4	8	1.5	15	—	15
U.S. total	22,664	9.3	31,738	12.9	84,605	1,387	85,992
Guam	3	2.3	1	0.8	5	—	5
Pacific Islands, Trust Territory	—	—	1	0.7	1	—	1
Puerto Rico	293	8.9	1,429	43.4	1,993	51	2,044
Virgin Islands, U.S.	1	0.9	46	40.7	52	2	54
Total	22,961	9.3	33,215	13.3	86,656	1,440	88,096

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

Metropolitan area of residence	Mar. 1987- Feb. 1988		Mar. 1988- Feb. 1989		Cumulative totals		
	No.	Rate	No.	Rate	Adults/ adolescents	Children < 13 years old	Total
Akron, Ohio	18	2.8	26	4.1	60	—	60
Albany-Schenectady, N.Y.	49	5.8	68	8.0	181	1	182
Allentown, Pa.	16	2.4	31	4.7	69	3	72
Anaheim, Calif.	254	11.6	252	11.3	680	7	687
Atlanta, Ga.	402	15.3	668	24.8	1,565	13	1,578
Austin, Tex.	83	10.7	113	14.0	306	2	308
Bakersfield, Calif.	17	3.3	21	4.0	46	—	46
Baltimore, Md.	229	10.1	364	15.9	802	23	825
Baton Rouge, La.	20	3.6	40	7.0	92	—	92
Bergen-Passaic, N.J.	246	18.9	274	21.0	789	23	812
Birmingham, Ala.	51	5.6	77	8.4	147	5	152
Boston, Mass.	393	10.5	583	15.6	1,480	25	1,505
Bridgeport, Conn.	82	9.9	122	14.7	303	9	312
Buffalo, N.Y.	34	3.5	40	4.2	111	—	111
Charleston, S.C.	21	4.2	42	8.2	95	—	95
Charlotte, N.C.	62	5.7	75	6.8	164	4	168
Chicago, Ill.	631	10.1	878	14.1	2,127	24	2,151
Cincinnati, Ohio	70	4.9	61	4.3	161	3	164
Cleveland, Ohio	104	5.6	127	6.9	327	5	332
Columbus, Ohio	84	6.4	114	8.7	266	1	267
Dallas, Tex.	460	18.7	581	22.9	1,526	6	1,532
Dayton, Ohio	29	3.1	51	5.5	114	3	117
Denver, Colo.	201	12.0	268	15.7	738	3	741
Detroit, Mich.	188	4.4	326	7.6	708	11	719
El Paso, Tex.	18	3.2	14	2.4	43	—	43
Fort Lauderdale, Fla.	311	26.6	440	37.0	1,113	13	1,126
Fort Worth, Tex.	91	7.0	139	10.4	311	1	312
Fresno, Calif.	22	3.6	46	7.4	88	—	88
Gary, Ind.	9	1.5	12	2.0	35	—	35
Grand Rapids, Mich.	10	1.5	28	4.2	50	1	51
Greensboro, N.C.	37	4.1	47	5.1	111	2	113
Greenville, S.C.	18	2.9	16	2.6	49	—	49
Harrisburg, Pa.	29	5.0	40	6.9	83	2	85
Hartford, Conn.	75	6.9	120	11.0	276	7	283
Honolulu, Hawaii	70	8.2	72	8.3	241	1	242
Houston, Tex.	716	21.5	967	28.3	2,674	24	2,698
Indianapolis, Ind.	44	3.6	84	6.8	185	1	186
Jacksonville, Fla.	110	12.7	159	17.9	307	9	316
Jersey City, N.J.	311	55.9	452	81.2	1,093	31	1,124
Kansas City, Mo.	142	9.3	242	15.8	494	3	497
Knoxville, Tenn.	18	3.0	26	4.3	61	—	61
Las Vegas, Nev.	85	14.4	82	13.5	206	3	209
Little Rock, Ark.	25	4.9	33	6.4	77	1	78
Los Angeles, Calif.	1,652	19.8	1,966	23.2	6,285	48	6,333
Louisville, Ky.	18	1.9	55	5.7	99	1	100
Memphis, Tenn.	57	5.9	93	9.6	178	4	182
Miami, Fla.	406	22.6	772	42.8	2,096	85	2,181
Middlesex, N.J.	134	14.1	219	22.8	476	19	495
Milwaukee, Wis.	60	4.4	60	4.4	173	—	173
Minneapolis-Saint Paul, Minn.	122	5.3	149	6.3	412	2	414
Monmouth-Ocean City, N.J.	97	10.1	146	15.0	305	12	317
Nashville, Tenn.	37	3.9	126	13.3	191	3	194
Nassau-Suffolk, N.Y.	230	8.6	366	13.7	943	32	975
New Haven, Conn.	101	12.9	139	17.7	348	19	367
New Orleans, La.	248	18.5	239	17.7	757	9	766
New York, N.Y.	3,538	41.5	6,015	70.3	18,062	391	18,453
Newark, N.J.	734	39.0	1,062	56.5	2,489	85	2,574
Norfolk, Va.	72	5.4	81	5.9	198	6	204

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

Metropolitan area of residence	Mar. 1987-Feb. 1988		Mar. 1988-Feb. 1989		Cumulative totals		
	No.	Rate	No.	Rate	Adults/adolescents	Children <13 years old	Total
Oakland, Calif.	356	18.1	381	19.1	1,083	5	1,088
Oklahoma City, Okla.	51	5.1	23	2.3	128	—	128
Omaha, Neb.	16	2.6	33	5.3	68	—	68
Orlando, Fla.	69	7.4	183	18.9	334	4	338
Oxnard-Ventura, Calif.	27	4.3	41	6.4	82	—	82
Philadelphia, Pa.	564	11.7	645	13.4	1,757	28	1,785
Phoenix, Ariz.	215	10.7	188	9.1	509	2	511
Pittsburgh, Pa.	104	5.0	81	3.9	263	1	264
Portland, Oreg.	154	13.2	137	11.7	393	1	394
Providence, R.I.	58	6.5	82	9.1	185	5	190
Raleigh-Durham, N.C.	51	7.6	70	10.3	164	4	168
Richmond, Va.	51	6.2	56	6.8	170	1	171
Riverside-San Bernardino, Calif.	213	10.3	181	8.5	498	9	507
Rochester, N.Y.	65	6.6	85	8.6	212	1	213
Sacramento, Calif.	129	9.7	161	11.9	357	4	361
Saint Louis, Mo.	98	4.0	189	7.7	380	5	385
Salt Lake City, Utah	41	3.9	63	5.8	151	4	155
San Antonio, Tex.	48	3.7	265	19.9	398	7	405
San Diego, Calif.	446	19.8	435	18.9	1,168	9	1,177
San Francisco, Calif.	1,498	92.0	1,735	105.4	5,892	6	5,898
San Jose, Calif.	141	9.8	155	10.6	417	5	422
San Juan, P.R.	164	14.7	744	66.5	1,078	32	1,110
Scranton, Pa.	17	2.4	21	2.9	56	2	58
Seattle, Wash.	271	15.2	296	16.4	859	7	866
Springfield, Mass.	13	2.2	40	6.8	87	1	88
Syracuse, N.Y.	20	3.0	25	3.8	86	3	89
Tacoma, Wash.	29	5.4	18	3.3	66	1	67
Tampa, Fla.	199	10.1	438	21.8	789	13	802
Toledo, Ohio	19	3.1	21	3.5	54	1	55
Tucson, Ariz.	55	9.0	42	6.8	139	1	140
Tulsa, Okla.	26	3.5	47	6.2	94	2	96
Washington, D.C.	774	21.6	829	22.8	2,491	34	2,525
West Palm Beach, Fla.	202	26.0	315	39.1	750	25	775
Wilmington, Del.	35	6.3	61	10.9	127	3	130
Worcester, Mass.	24	3.6	45	6.8	93	2	95
Youngstown, Ohio	9	1.8	18	3.6	37	—	37
Metropolitan area subtotal¹	19,643	13.9	27,858	19.5	74,781	1,214	75,995
Non-metropolitan areas	3,318	3.1	5,357	5.0	11,875	226	12,101
Total	22,961	9.3	33,215	13.3	86,656	1,440	88,096

¹Includes data from all metropolitan areas with 50,000 or more population.

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

Adult/adolescent exposure category	Males		Females		Totals		Cumulative total
	Mar. 1987-Feb. 1988	Mar. 1988-Feb. 1989	Mar. 1987-Feb. 1988	Mar. 1988-Feb. 1989	Mar. 1987-Feb. 1988	Mar. 1988-Feb. 1989	
	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	
Male homosexual/bisexual contact	14,231 (69)	18,421 (63)			14,231 (63)	18,421 (56)	53,317 (62)
Intravenous (IV) drug use (female and heterosexual male)	3,174 (15)	6,010 (21)	957 (50)	1,812 (53)	4,131 (18)	7,822 (24)	17,392 (20)
Male homosexual/bisexual contact and IV drug use	1,628 (8)	2,119 (7)	—	—	1,628 (7)	2,119 (6)	6,225 (7)
Hemophilia/coagulation disorder	251 (1)	305 (1)	6 (0)	8 (0)	257 (1)	313 (1)	845 (1)
Heterosexual contact:	375 (2)	621 (2)	570 (30)	992 (29)	945 (4)	1,613 (5)	3,804 (4)
<i>Sex with IV drug user</i>	111	263	346	637	457	900	1,797
<i>Sex with bisexual male</i>	—	—	70	87	70	87	250
<i>Sex with person with hemophilia</i>	1	2	12	10	13	12	31
<i>Born in Pattern-II¹ country</i>	212	261	75	121	287	382	1,301
<i>Sex with person born in Pattern-II country</i>	13	16	7	5	20	21	58
<i>Sex with transfusion recipient with HIV infection</i>	2	9	15	17	17	26	53
<i>Sex with person with HIV infection, risk not specified</i>	36	70	45	115	81	185	314
Receipt of transfusion of blood, blood components, or tissue ²	456 (2)	500 (2)	246 (13)	334 (10)	702 (3)	834 (3)	2,170 (3)
Other/undetermined ³	529 (3)	1,267 (4)	136 (7)	266 (8)	665 (3)	1,533 (5)	2,903 (3)
Adult/adolescent subtotal	20,644 (100)	29,243 (100)	1,915 (100)	3,412 (100)	22,559 (100)	32,655 (100)	86,656 (100)
Pediatric (<13 years old) exposure category							
Hemophilia/coagulation disorder	27 (12)	32 (10)	—	—	27 (7)	32 (6)	84 (6)
Mother with/at risk for AIDS/HIV infection:	155 (71)	218 (71)	149 (81)	223 (89)	304 (76)	441 (79)	1,126 (78)
<i>IV drug use</i>	81	107	80	112	161	219	595
<i>Sex with IV drug user</i>	32	51	31	32	63	83	217
<i>Sex with bisexual male</i>	—	3	6	6	6	9	24
<i>Sex with person with hemophilia</i>	3	—	2	1	5	1	7
<i>Born in Pattern-II country</i>	13	23	8	23	21	46	124
<i>Sex with person born in Pattern-II country</i>	1	—	1	—	2	—	3
<i>Sex with transfusion recipient with HIV infection</i>	—	2	1	2	1	4	5
<i>Sex with person with HIV infection, risk not specified</i>	6	14	2	9	8	23	42
<i>Receipt of transfusion of blood, blood components, or tissue</i>	4	2	7	9	11	11	27
<i>Has HIV infection, risk not specified</i>	15	16	11	29	26	45	82
Receipt of transfusion of blood, blood components, or tissue	30 (14)	41 (13)	27 (15)	18 (7)	57 (14)	59 (11)	177 (12)
Undetermined	6 (3)	18 (6)	8 (4)	10 (4)	14 (3)	28 (5)	53 (4)
Pediatric subtotal	218 (100)	309 (100)	184 (100)	251 (100)	402 (100)	560 (100)	1,440 (100)
Total	20,862	29,552	2,099	3,663	22,961	33,215	88,096

¹ See technical notes.

² Includes 1 tissue recipient and 2 transfusion recipients who received blood screened for HIV antibody.

³ "Other" is 1 health-care worker who seroconverted to HIV and developed AIDS after needlestick exposure to HIV-infected blood. "Undetermined" includes 1,985 adults/adolescents (47 children) under investigation; 523 adults/adolescents (6 children) who died, were lost to follow-up, or refused interview; and 359 adults/adolescents (0 children) whose mode of exposure to HIV remains undetermined after investigation.

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

Adult/adolescent exposure category	White, not Hispanic	Black, not Hispanic	Hispanic	Asian/Pacific Islander	American Indian/Alaskan Native	Total ⁴
	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
Male homosexual/bisexual contact	38,798 (77)	8,495 (37)	5,481 (42)	382 (75)	49 (51)	53,317 (62)
Intravenous (IV) drug use (female and heterosexual male)	3,466 (7)	8,717 (38)	5,133 (40)	19 (4)	15 (15)	17,392 (20)
Male homosexual/bisexual contact and IV drug use	3,732 (7)	1,567 (7)	896 (7)	8 (2)	14 (14)	6,225 (7)
Hemophilia/coagulation disorder	704 (1)	52 (0)	68 (1)	11 (2)	6 (6)	845 (1)
Heterosexual contact:	735 (1)	2,458 (11)	584 (5)	16 (3)	4 (4)	3,804 (4)
<i>Sex with IV drug user</i>	402	910	475	6	1	1,797
<i>Sex with bisexual male</i>	133	82	32	3	—	250
<i>Sex with person with hemophilia</i>	27	2	1	1	—	31
<i>Born in Pattern-II¹ country</i>	4	1,283	10	2	—	1,301
<i>Sex with person born in Pattern-II country</i>	16	39	3	—	—	58
<i>Sex with transfusion recipient with AIDS/HIV infection</i>	38	7	5	2	—	53
<i>Sex with person with HIV infection, risk not specified</i>	115	135	58	2	3	314
Receipt of transfusion of blood, blood components, or tissue ²	1,587 (3)	347 (2)	186 (1)	43 (8)	3 (3)	2,170 (3)
Other/undetermined ³	1,101 (2)	1,123 (5)	622 (5)	31 (6)	6 (6)	2,903 (3)
Adult/adolescent subtotal	50,123(100)	22,759 (100)	12,970(100)	510(100)	97(100)	86,656(100)
Pediatric (<13 years old) exposure category						
Hemophilia/coagulation disorder	61 (18)	10 (1)	11 (3)	2 (29)	—	84 (6)
Mother with/at risk for AIDS/HIV infection:	170 (50)	679 (89)	269 (82)	3 (43)	3(100)	1,126 (78)
<i>IV drug use</i>	75	354	163	1	2	595
<i>Sex with IV drug user</i>	35	110	72	—	—	217
<i>Sex with bisexual male</i>	10	11	3	—	—	24
<i>Sex with person with hemophilia</i>	5	1	1	—	—	7
<i>Born in Pattern-II country</i>	2	120	1	—	—	124
<i>Sex with person born in Pattern-II country</i>	—	2	—	—	—	3
<i>Sex with transfusion recipient with HIV infection</i>	4	1	—	—	—	5
<i>Sex with person with HIV infection, risk not specified</i>	9	21	11	1	—	42
<i>Receipt of transfusion of blood, blood components, or tissue</i>	10	10	7	—	—	27
<i>Has HIV infection, risk not specified</i>	20	49	11	1	1	82
Receipt of transfusion of blood, blood components, or tissue	98 (29)	40 (5)	37 (11)	2 (29)	—	177 (12)
Undetermined	10 (3)	30 (4)	13 (4)	—	—	53 (4)
Pediatric subtotal	339(100)	759 (100)	330(100)	7(100)	3(100)	1,440(100)
Total	50,462	23,518	13,300	517	100	88,096

¹ See technical notes.

² Includes 1 tissue recipient and 2 transfusion recipients who received blood screened for HIV antibody.

³ "Other" is 1 health-care worker who seroconverted to HIV and developed AIDS after needlestick exposure to HIV-infected blood. "Undetermined" includes 1,985 adults/adolescents (47 children) under investigation; 523 adults/adolescents (6 children) who died, were lost to follow-up, or refused interview; and 359 adults/adolescents (0 children) whose mode of exposure to HIV remains undetermined after investigation.

⁴ Includes 199 persons whose race/ethnicity is unknown.

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

Male exposure category	White, not Hispanic	Black, not Hispanic	Hispanic	Asian/Pacific Islander	American Indian/ Alaskan Native	Total ⁴
	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
Male homosexual/bisexual contact	38,798 (81)	8,495 (45)	5,481 (48)	382 (82)	49 (59)	53,317 (67)
Intravenous (IV) drug use (heterosexual)	2,617 (5)	6,455 (34)	4,346 (38)	11 (2)	7 (8)	13,469 (17)
Male homosexual/bisexual contact and IV drug use	3,732 (8)	1,567 (8)	896 (8)	8 (2)	14 (17)	6,225 (8)
Hemophilia/coagulation disorder	685 (1)	48 (0)	68 (1)	11 (2)	6 (7)	822 (1)
Heterosexual contact:	222 (0)	1,287 (7)	85 (1)	4 (1)	—	1,601 (2)
<i>Sex with IV drug user</i>	143	254	58	1	—	456
<i>Sex with person with hemophilia</i>	2	1	—	—	—	3
<i>Born in Pattern-II¹ country</i>	3	963	6	2	—	975
<i>Sex with person born in</i> <i>Pattern-II country</i>	16	16	3	—	—	35
<i>Sex with transfusion recipient</i> <i>with HIV infection</i>	7	4	—	1	—	13
<i>Sex with person with HIV</i> <i>infection, risk not specified</i>	51	49	18	—	—	119
Receipt of transfusion of blood, blood components, or tissue ²	1,043 (2)	183 (1)	110 (1)	27 (6)	1 (1)	1,368 (2)
Other/undetermined ³	936 (2)	828 (4)	520 (5)	25 (5)	6 (7)	2,331 (3)
Male subtotal	48,033 (100)	18,863 (100)	11,506 (100)	468 (100)	83 (100)	79,133 (100)
Female						
exposure category						
IV drug use	849 (41)	2,262 (58)	787 (54)	8 (19)	8 (57)	3,923 (52)
Hemophilia/coagulation disorder	19 (1)	4 (0)	—	—	—	23 (0)
Heterosexual contact:	513 (25)	1,171 (30)	499 (34)	12 (29)	4 (29)	2,203 (29)
<i>Sex with IV drug user</i>	259	656	417	5	1	1,341
<i>Sex with bisexual male</i>	133	82	32	3	—	250
<i>Sex with person with hemophilia</i>	25	1	1	1	—	28
<i>Born in Pattern-II country</i>	1	320	4	—	—	326
<i>Sex with person born in</i> <i>Pattern-II country</i>	—	23	—	—	—	23
<i>Sex with transfusion recipient</i> <i>with HIV infection</i>	31	3	5	1	—	40
<i>Sex with person with HIV</i> <i>infection, risk not specified</i>	64	86	40	2	3	195
Receipt of transfusion of blood, blood components, or tissue	544 (26)	164 (4)	76 (5)	16 (38)	2 (14)	802 (11)
Other/undetermined	165 (8)	295 (8)	102 (7)	6 (14)	—	572 (8)
Female subtotal	2,090 (100)	3,896 (100)	1,464 (100)	42 (100)	14 (100)	7,523 (100)
Total	50,123	22,759	12,970	510	97	86,656

¹ See technical notes.

² Includes 2 transfusion recipients who received blood screened for HIV antibody.

³ "Other" is 1 health-care worker who seroconverted to HIV and developed AIDS after needlestick exposure to HIV-infected blood. "Undetermined" includes 1,985 adults/adolescents under investigation; 523 persons who died, were lost to follow-up, or refused interview; and 359 persons whose mode of exposure to HIV remains undetermined after investigation.

⁴ Includes 180 males and 17 females whose race/ethnicity is unknown.

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

Males	White, not Hispanic	Black, not Hispanic	Hispanic	Asian/Pacific Islander	American Indian/ Alaskan Native	Total¹
Age at diagnosis (years)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
Under 5	117 (0)	343 (2)	156 (1)	3 (1)	1 (1)	621 (1)
5-12	95 (0)	42 (0)	24 (0)	3 (1)	—	164 (0)
13-19	147 (0)	80 (0)	53 (0)	5 (1)	2 (2)	288 (0)
20-24	1,810 (4)	968 (5)	558 (5)	22 (5)	8 (10)	3,372 (4)
25-29	7,362 (15)	3,242 (17)	2,005 (17)	59 (12)	10 (12)	12,700 (16)
30-34	11,391 (24)	4,949 (26)	3,079 (26)	98 (21)	25 (30)	19,582 (25)
35-39	10,574 (22)	4,370 (23)	2,477 (21)	104 (22)	14 (17)	17,581 (22)
40-44	7,037 (15)	2,360 (12)	1,596 (14)	62 (13)	10 (12)	11,097 (14)
45-49	4,161 (9)	1,318 (7)	814 (7)	57 (12)	6 (7)	6,369 (8)
50-54	2,368 (5)	784 (4)	457 (4)	26 (5)	3 (4)	3,648 (5)
55-59	1,560 (3)	453 (2)	276 (2)	16 (3)	3 (4)	2,318 (3)
60-64	843 (2)	224 (1)	117 (1)	5 (1)	2 (2)	1,193 (1)
65 or older	780 (2)	115 (1)	74 (1)	14 (3)	—	985 (1)
Male subtotal	48,245 (100)	19,248 (100)	11,686 (100)	474 (100)	84 (100)	79,918 (100)
Females						
Age at diagnosis (years)						
Under 5	107 (5)	334 (8)	130 (8)	1 (2)	2 (13)	575 (7)
5-12	20 (1)	40 (1)	20 (1)	—	—	80 (1)
13-19	14 (1)	38 (1)	11 (1)	1 (2)	—	64 (1)
20-24	140 (6)	243 (6)	128 (8)	2 (5)	—	516 (6)
25-29	424 (19)	821 (19)	364 (23)	3 (7)	2 (13)	1,621 (20)
30-34	463 (21)	1,225 (29)	419 (26)	12 (28)	6 (38)	2,129 (26)
35-39	296 (13)	814 (19)	283 (18)	5 (12)	2 (13)	1,402 (17)
40-44	168 (8)	365 (9)	130 (8)	6 (14)	1 (6)	670 (8)
45-49	84 (4)	166 (4)	54 (3)	3 (7)	—	308 (4)
50-54	79 (4)	93 (2)	28 (2)	3 (7)	1 (6)	204 (2)
55-59	90 (4)	53 (1)	18 (1)	1 (2)	—	162 (2)
60-64	89 (4)	37 (1)	15 (1)	3 (7)	1 (6)	145 (2)
65 or older	243 (11)	41 (1)	14 (1)	3 (7)	1 (6)	302 (4)
Female subtotal	2,217 (100)	4,270 (100)	1,614 (100)	43 (100)	16 (100)	8,178 (100)
Total	50,462	23,518	13,300	517	100	88,096

¹ Includes 199 persons whose race/ethnicity is unknown.

Table 7. AIDS deaths and case-fatality rates, by half-year of diagnosis and age group, diagnosed through February 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	78	64	82.1	7	5	71.4
1981 Jan.-June	88	81	92.0	7	5	71.4
July-Dec.	194	178	91.8	5	5	100.0
1982 Jan.-June	376	337	89.6	13	10	76.9
July-Dec.	654	589	90.1	14	11	78.6
1983 Jan.-June	1,245	1,131	90.8	34	31	91.2
July-Dec.	1,593	1,442	90.5	42	30	71.4
1984 Jan.-June	2,493	2,134	85.6	52	43	82.7
July-Dec.	3,270	2,823	86.3	57	41	71.9
1985 Jan.-June	4,649	3,946	84.9	89	57	64.0
July-Dec.	5,979	4,921	82.3	117	85	72.6
1986 Jan.-June	7,767	6,026	77.6	123	77	62.6
July-Dec.	9,283	6,485	69.9	151	94	62.3
1987 Jan.-June	11,519	7,009	60.8	187	103	55.1
July-Dec.	12,565	5,820	46.3	209	101	48.3
1988 Jan.-June	13,061	4,370	33.5	163	62	38.0
July-Dec.	10,880	2,405	22.1	163	38	23.3
1989 Jan.-Feb.	962	109	11.3	7	2	28.6
Total	86,656	49,870	57.5	1,440	800	55.6

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

Definition category ¹	Year of diagnosis					Cumulative total
	Before Mar. 1985	Mar. 1985-Feb. 1986	Mar. 1986-Feb. 1987	Mar. 1987-Feb. 1988	Mar. 1988-Feb. 1989	
	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	
Pre-1987 definition	11,451 (99)	11,215 (94)	16,682 (90)	19,703 (79)	14,762 (70)	73,813 (84)
1987 definition:	136 (1)	706 (6)	1,863 (10)	5,368 (21)	6,210 (30)	14,283 (16)
<i>Specific disease</i>						
<i>presumptively diagnosed</i>	56	386	1,003	2,886	3,488	7,819
<i>Specific disease</i>						
<i>definitively diagnosed</i>	50	126	267	500	416	1,359
<i>HIV encephalopathy</i>	10	53	201	701	718	1,683
<i>HIV wasting syndrome</i>	20	141	392	1,281	1,588	3,422
Total	11,587(100)	11,921 (100)	18,545 (100)	25,071 (100)	20,972 (100)	88,096 (100)

¹ 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 February 1989, United States

Exposure category	AIDS cases	
	No.	(%)
Single mode of exposure		
Male homosexual/bisexual contact	51,288	(59)
Intravenous (IV) drug use (female and heterosexual male)	15,093	(17)
Hemophilia/coagulation disorder	492	(1)
Heterosexual contact	3,602	(4)
Receipt of transfusion of blood, blood component, or tissue	2,172	(3)
Other/undetermined	2,901	(3)
Single mode of exposure subtotal	75,548	(87)
Multiple modes of exposure		
Male homosexual/bisexual contact; IV drug use	5,663	(7)
Male homosexual/bisexual contact; hemophilia	36	(0)
Male homosexual/bisexual contact; heterosexual contact	890	(1)
Male homosexual/bisexual contact; receipt of transfusion	1,019	(1)
IV drug use; hemophilia	21	(0)
IV drug use; heterosexual contact	1,694	(2)
IV drug use; receipt of transfusion	449	(1)
Hemophilia; heterosexual contact	4	(0)
Hemophilia; receipt of transfusion	346	(0)
Heterosexual contact; receipt of transfusion	202	(0)
Male homosexual/bisexual contact; IV drug use; hemophilia	10	(0)
Male homosexual/bisexual contact; IV drug use; heterosexual contact	349	(0)
Male homosexual/bisexual contact; IV drug use; receipt of transfusion	175	(0)
Male homosexual/bisexual contact; hemophilia; heterosexual contact	2	(0)
Male homosexual/bisexual contact; hemophilia; receipt of transfusion	27	(0)
Male homosexual/bisexual contact; heterosexual contact; receipt of transfusion	54	(0)
IV drug use; hemophilia; heterosexual contact	6	(0)
IV drug use; hemophilia; receipt of transfusion	16	(0)
IV drug use; heterosexual contact; receipt of transfusion	109	(0)
Hemophilia; heterosexual contact; receipt of transfusion	3	(0)
Male homosexual/bisexual contact; IV drug use; hemophilia; receipt of transfusion	8	(0)
Male homosexual/bisexual contact; IV drug use; heterosexual contact; receipt of transfusion	20	(0)
Male homosexual/bisexual contact; hemophilia; heterosexual contact; receipt of transfusion	1	(0)
IV drug use; hemophilia; heterosexual contact; receipt of transfusion	4	(0)
Multiple modes of exposure subtotal	11,108	(13)
Total	86,656	(100)

Technical notes

Surveillance and reporting of AIDS

All 50 states, the District of Columbia, and U.S. dependencies and possessions 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 reporting month. Data are tabulated by date of report to CDC unless otherwise noted. Data for U.S. dependencies and possessions 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 and may include several counties. 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 the time of onset of HIV-related symptoms.

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 1987 or 1988 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.

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