HIV/AIDS

SURVEILLANCE

YEAR-END EDITION

U.S. AIDS cases reported through December 1991

Issued January 1992

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Acquired immunodeficiency syndrome (AIDS) is a specific group of diseases or conditions which are indicative of severe immunosuppression related to infection with the human immunodeficiency virus (HIV).



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Public Health Service
Centers for Disease Control
National Center for Infectious Diseases
Division of HIV/AIDS



Notice to readers: To conserve limited resources, CDC is considering reducing the frequency of this publication to once each quarter beginning April 1992. Comments on this change may be sent to Editor, HIV/AIDS Surveillance Report, Mailstop E-48, Division of HIV/AIDS, National Centers for Infectious Diseases, Centers for Disease Control, Atlanta, GA 30333.

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Single copies of the *HIV/AIDS Surveillance Report* are available free from the National AIDS Information Clearinghouse, P.O. Box 6003, Rockville, MD 20849-6003; telephone 1-800-458-5231. Individuals or organizations can be added to the mailing list by writing to Centers for Disease Control, OD/OPS/MASO, 1/B49, Mailstop A-22, Atlanta, GA 30333. Confidential information, referrals, and educational material on AIDS are available from the National AIDS Hotline: 1-800-342-2437, 1-800-344-7432 (Spanish access), and 1-800-243-7889 (TTY, deaf access).

Figure 1. AIDS annual rates per 100,000 population, for cases reported in 1991, United States

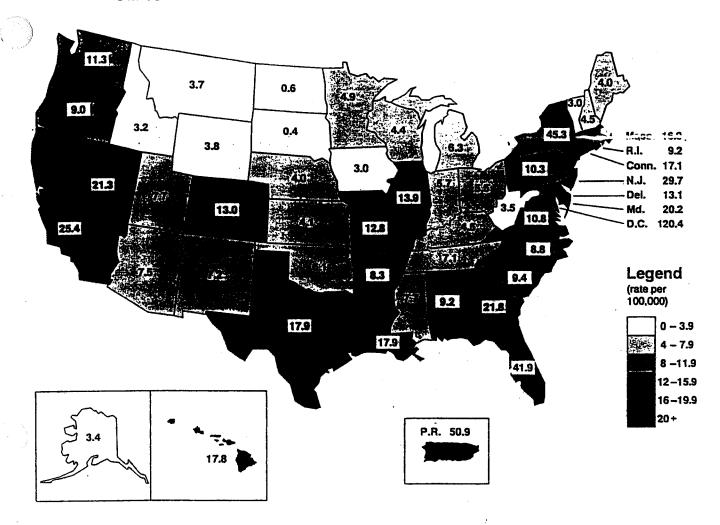


Figure 2. Adult/adolescent and pediatric AIDS cases, reported in 1991, United States

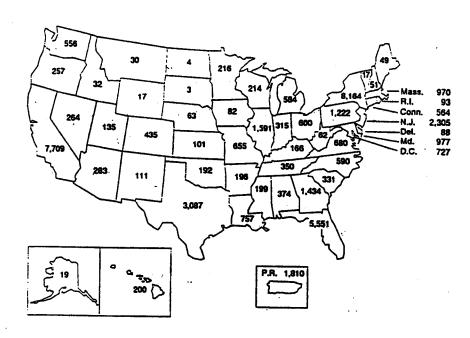


Figure 3. Pediatric AIDS cases, reported in 1991, United States

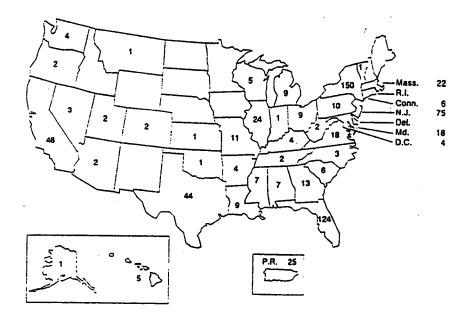


Figure 4. AIDS cases by quarter-year of report, reported January 1982 through December 1991, United States

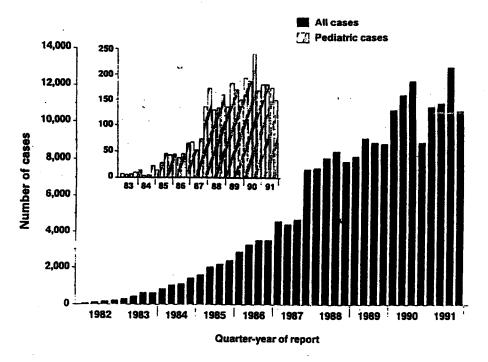
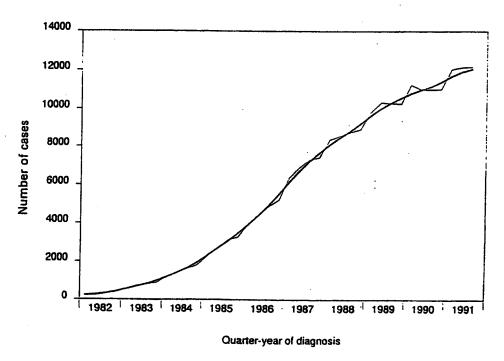


Figure 5. AIDS cases by quarter of diagnosis, adjusted for reporting delays, 1 January 1982 through September 1991, United States



See technical notes for explanation of adjusting and smoothing of data. Adjusted numbers of diagnosed cases for the most recent quarter are not shown because of the imprecision of these estimates.

Table 1. AIDS cases and annual rates per 100,000 population, by state, reported in 1990 and 1991; and cumulative totals, by state and age group, through December 1991

	199	90	199	11		Cumulative totals	
State of residence	No.	Rate	No.	Rate	Adults/ adolescents	Children < 13 years old	Total
Alabama	238	5.9	374	9.2	1,239	28	1,267
Alaska	24	4.4	19	3.4	115	3	1,207
Arizona	311	8.5	283	7.5	1,556	10	1,566
Arkansas	209	8.9	196	8.3	638	14	652
California	7,342	24.7	7,709	25.4	38,073	256	38,329
Colorado	360	10.9	435	13.0	2,014	11	2,025
Connecticut	423	12.9	564	17.1	2,359	69	2,428
Delaware	93	14.0	88	13.1	396	• 4	400
District of Columbia	740	121.9	727	120.4	3,394	44	3,438
Florida	4,021	31.1	5,551	41.9	18,953	511	19,464
Georgia	1,227	18.9	1,434	21.8	5.643	57	5,700
Hawaii	156	14.1	200	17.8	821	7	828
Idaho	28	2.8	32	3.2	109	2	111
Illinois	1,276	11.2	1,591	13.9	6,222	91	6,313
Indiana	292	5.3	315	5.7	1,334	11	1,345
lowa	68	2.4	82	3.0	310	3	313
Kansas	137	5.5	101	4.1	542	4	546
Kentucky	190	5.2	166	4.5	662	9	671
Louisiana	704	16.7	757	17.9	2,999	49	3,048
Maine	66	5.4	49	4.0	2,333 267	2	269
Maryland	994	20.8	977	20.2	4,024	86	4,110
Massachusetts	842	14.0	970	16.0	4,215	92	
Michigan	577	6.2	584	6.3	2,546	42	4,307
Minnesota	203	4.6	216	4.9	1,038		2,588
Mississippi	275	10.7	199	7.7	839	8	1,04(
Missouri	582	11.4	655	12.8		18	857
Montana	17	2.1	30	3.7	2,464	23	2,487
Nebraska	58	3.7	63	4.0	84	2	86
Nevada	190	15.8	264	21.3	246	2	248
New Hampshire	65	5.9	51	4.5	886 240	10	896
New Jersey	2,462	31.8	2.305	4.5 29.7		5	245
New Mexico	109	7.2	111	7.2	12,315 457	356	12,671
New York	8,390	46.6	8.164	45.3	457 41,666	3	460
North Carolina	565	8.5	590	43.3 8.8		953	42,619
North Dakota	2	0.3	4	0.6	2,217	38	2,255
Ohio	665	6.1	600	5.5	24	-	24
Oklahoma	203	6.5	192	5.5 6.1	2,857	49	2,906
Oregon	336	11.8	257	9.0	892	12	904
Pennsylvania	1,193	10.0	1,222	10.3	1,270	7	1,277
Rhode Island	88	8.8	93	9.2	5,563 465	85	5,648
South Carolina	353	10.1	331	9.2 9.4	465 4 256	9	474
South Dakota	9	1.3	331	9.4 0.4	1,356	27	1,383
Tennessee	340	7.0	350	7.1	28	4=	28
Texas	3,342	19.7	3,087	17.9	1,438	17	1,455
Utah	98	5.7	135	7.7	14,320	155	14,475
Vermont	22	3.9	17	3.0	464 93	10	474
Virginia	743	12.0	680	10.8		. 2	95
Washington	710	14.6	556	11.3	2,688	54	2,742
West Virginia	64	3.6	62	3.5	2,772	16	2,788
Wisconsin	209	4.3	214	4.4	239	4	243
Wyoming	5	1.1	17	4.4 3.8	832	9	841
U.S. total	41,616	16.7	43,672	17.2	53 196,237	3,279	53 199,516
Guam	2	1.5	3	2.2		wjace w	
Pacific Islands, U.S.	1	0.4	J		11 2		11
Puerto Rico	1,722	48.9	1,810	50.9		100	2 6 762
Virgin Islands, U.S.	11	10.8	21	20.5	6,575 96	188 4	6,763 100
Total	43,352	17.2	45,506	17.8	202,921	**	100

¹During December 1991, 3,504 cases and 2,526 deaths among adults/adolescents and 45 cases and 20 deaths among children were reported to the CDC.

Table 2. AIDS cases and annual rates per 100,000 population, by metropolitan area with 500,000 or more population, reported in 1990 and 1991; and cumulative totals, by area and age group, through December 1991

	40	100	ه د	104	С	umulative totals	
Metropolitan area of residence	No.	90 Rate	No.	91 Rate	Adults/ adolescents	Children <13 years old	Total
Akron, Ohio	29	4.4	32	4.9	138		138
Albany-Schenectady, N.Y.	81	9.3	93	10.6	408	ā	. 417
Allentown, Pa.	59	8.6	38	5.5	193	5	198
Anaheim, Calif.	369	15.3	430	17.5	1,730	. 10	1,740
Atlanta, Ga.	947	33.4	1,092	37.6	4,323	33	4,356
Austin, Tex.	234	29.9	204	25.3	913	11	4,330 924
Bakersfield, Calif.	37	6.8	51	9.1	166	2	168
Baltimore, Md.	652	27.4	582	24.2	2,418	63	2,481
Baton Rouge, La.	59	11.2	78	14.7	270	4	2,461
Bergen-Passaic, N.J.	351	27.5	246	19.3	1,559	39	1,598
Birmingham, Ala.	74	8.2	113	12.4	391	7	398
Boston, Mass.	602	15.9	687	18.1	3,216	66	3,282
Bridgeport, Conn.	115	13.9	153	18.4	691	23	3,202 714
Buffalo, N.Y.	93	9.6	78	8.1	336	3	339
Charleston, S.C.	78	15.4	64	12.4	295	3	
Charlotte, N.C.	98	8.4	84	7.1	406	7	298
Chicago, III.	1,072	17.7	1,285	21.2	5,199	73	413
Cincinnati, Ohio	135	9.3	99	6.8	446		5,272
Cleveland, Ohio	142	7.8	176	9.6		9	455
Columbus, Ohio	141	10.2	116	8.3	749 613	15	764
Dallas, Tex.	799	31.3	712	27.2		4	617
Dayton, Ohio	71	7.5	50	5.3	3,490	2 <u>1</u>	3,511
Denver, Colo.	301	18.5	360	21.9	281	7	288
Detroit, Mich.	394	9.0	406		1,655	7	1,662
El Paso, Tex.	32	5.4	48	9.3 ⁻ 8.0	1,777	29	1,806
Fort Lauderdale, Fla.	831	66.2	953	74.5	155	_1	156
Fort Worth, Tex.	204	15.3	196	74.3 14.3	3,360	71	3,431
Fresno, Calif.	63	9.4	77		826	12	838
Gary, Ind.	21	3.5	36	11.3	269	2	271
Grand Rapids, Mich.	35	5.1	36 40	6.0	128	1	129
Greensboro, N.C.	95	10.1	· -	5.7	142	2	144
Greenville, S.C.	42		104	10.9	355	7	362
Harrisburg, Pa.	42 34	6.6	42	6.5	168	-	168
Hartford, Conn.	149	5.8	43	7.3	202	4	206
Honolulu, Hawaii		13.3	173	15.3	712	16	728
Houston, Tex.	116	13.9	132	15.6	612	4	616
ndianapolis, Ind.	1,351	40.9	1,204	35.8	5,919	60	5,979
acksonville, Fla.	135 278	10.8	145	11.5	, 622	3	625
ersey City, N.J.	354	30.7	226	24.4	987	28	1,015
Kansas City, Mo.	289	64.0	423	76.5	2,107	60	2,167
Knoxville, Tenn.		18.5	238	15.1	1,226	6	1,232
ake County, III.	31	5.1	35	5.7	146	1	147
as Vegas, Nev.	15	2.9	41	7.8	113	3	- 116
ittle Rock, Ark.	155	20.9	201	26.1	662	10	672
os Angeles, Calif.	81	15.8	68	13.2	246	7	253
ouisville, Ky.	2,376	26.8	2,642	29.3	13,398	111	13,509
Memphis, Tenn.	72	7.6	73	7.7	275	5	280
liami, Fla.	106	10.8	104	10.5	454	6	460
liddlesex, N.J.	1,058	54.6	2,055	104.4	6,084	198	6,282
lilwaukee, Wis.	166	16.3	196	19.0	996	27	1,023
linneapolis-Saint Paul, Minn.	116 179	8.1	107	7.5	458	5	463
fonmouth-Ocean City, N.J.	178	7.2	189	7.6	922	6	928
lashville, Tenn.	203	20.6	160	16.0	809	29	838
lassau-Suffolk, N.Y.	112	11.4	120	12.0	477	8	485
lew Bedford, Mass.	390	14.9	344	13.2	1,930	47	1,977
New Haven, Conn.	50 130	9.9	70	13.7	222	5	227
New Orleans, La.	130	16.2	203	25.1	772	28	800
New York, N.Y.	394 7 308	31.8	448	36.2	1,867	26	1,893
TOTAL TOTAL IN. I.	7,308	85.5	6,986	81.5	36,166	857 ·	37,023

Table 2. AIDS cases and annual rates per 100,000 population, by metropolitan area with 500,000 or more population, reported in 1990 and 1991; and cumulative totals, by area and age group, through December 1991 — Continued

Cumulative totals 1990 1991 Metropolitan Adults/ Children area of residence No. Rate No. Rate adolescents <13 years old Total Newark, N.J. 987 54.1 936 51.5 5,115 161 5,276 Norfolk, Va. 188 13.5 142 10.0 587 15 602 Oakland, Calif. 607 29.1 419 19.8 -2.464 17 **4,40**1 Oklahoma City, Okla. 101 10.5 99 10.2 455 455 Omaha, Neb. 40 6.5 46 7.4 173 1 174 263 1,105 Orlando, Fla. 24.5 379 34.1 15 1,120 Oxnard-Ventura, Calif. 40 6.0 59 8.6 205 205 Philadelphia, Pa. 892 18.4 936 19.2 4,214 59 4.273 Phoenix, Ariz. 225 10.6 211 9.7 1,144 6 1,150 136 Pittsburgh, Pa. 6.6 108 5.3 657 4 661 Portland, Oreg. 270 21.8 195 15.6 995 4 999 Providence, R.I. 85 9.3 88 9.6 438 8 446 Raleigh-Durham, N.C. 116 15.8 133 17.7 487 10 497 Richmond, Va. 136 15.7 135 15.4 518 10 528 Riverside-San Bernardino, Calif. 281 1,357 10.9 354 13.2 18 1,375 Rochester, N.Y. 82 8.2 90 9.0 433 6 439 Sacramento, Calif. 150 10.1 230 15.1 858 13 871 Saint Louis, Mo. 294 12.0 362 14.8 1,170 15 1,185 Salt Lake City, Utah 90 8.4 117 10.7 408 7 415 San Antonio, Tex. 235 18.0 213 16.1 1,002 12 1,014 San Diego, Calif. 671 26.9 620 24.2 2,927 20 2.947 San Francisco, Calif. 2,125 132.5 1,978 122.5 11,356 18 11,374 San Jose, Calif. 195 13.0 180 11.9 887 8 895 San Juan, P.R. 1,135 67.2 1,072 62.8 4,058 119 4,177 Scranton, Pa. 45 6.1 40 5.4 163 3 166 Seattle. Wash. 532 27.0 395 19.7 2,076 10 2,086 Springfield, Mass. 86 14.3 104 17.2 295 13 308 Syracuse, N.Y. 39 5.9 39 5.9 193 6 199 Tacoma, Wash. 48 8.2 43 7.2 188 6 194 Tampa-Saint Petersburg, Fla. 412 19.9 530 25.1 2,012 38 2,050 Toledo, Ohio 40 6.5 39 6.4 152 3 155 Tucson, Ariz. 57 8.5 54 7.9 292 3 295 Tuisa, Okla. 55 7.8 62 8.7 259 4 263 Washington, D.C. 1,291 32.9 1,334 33.4 5.850 78 5.928 West Palm Beach, Fla. 353 40.9 406 45.5 1,752 70 1.822 Wilmington, Del. 83 14.3 67 11.5 325 3 328 Worcester, Mass. 55 7.7 55 7.7 231 235 Metropolitan areas with 500,000 or more population 36,343 24.7 37,621 25.3 172,251 2,893 175,144 Metropolitan areas with 50,000 to 500,000 population 4,351 8.9 4,938 10.1 19,077 346 19,423 Non-metropolitan areas 2,489 4.4 2,781 4.9 11,017 214 11,231 Total1 43,352 17.2 45,506 17.8 202,921 3,471 206,392

¹Totals include 594 patients whose area of residence is unknown.

AIDS cases by age group, exposure category, and sex, reported in 1990 and 1991; and cumulative totals, by age group and exposure category, through December 1991, United States

		Mai	es		Fem	ales	Totals				
Adult/adolescent	199	0	199	1	1990	1991	1990	1991	Cumula total		
exposure category	No.	(%)	No.	(%)	No. (%)	No. (%)	No. (%)	No. (%)	No.	(%)	
fen who have sex with men	24,053	(64)	23,960	(61)	-	-	24,053 (57)	23,960 (53)	118,362	(58)	
njecting drug use Ien who have sex with men	7,769	(21)	8,403	(21)	2,392 (49)	2,752 (48)	10,161 (24)	11,155 (25)	45,753	(23)	
and inject drugs	2,445	(6)	2,366	/ e\			0.445 (0)				
emophilia/coagulation disorder	329	(1)	314	(6) (1)	9 (0)		2,445 (6)	2,366 (5)	13,135	(6	
ieterosexual contact:	1,081	(3)		(3)	9 (0) 1,718 (35)	10 (0) 2,095 (37)	338 (1) 2,799 (7)	324 (1) 3,387 (8)	1,713 11,936	(1)	
Sex with injecting drug user	49	95	. 59		1.105	1,239	1,600	1.798		•	
Sex with bisexual male		_		-	135	147	135	1,790	6,3	50 51	
Sex with person with hemophilia		2		4	26	21	28	25		91 94	
Born in Pattern-IP country	30	03	33	36	110	174	413	510	2,5		
Sex with person born in									-,-		
Pattern-II country		24	2	20	22	24	46	44	1	74	
Sex with transfusion recipient											
with HIV infection		26	ä	27	43	<i>56</i>	<i>69</i>	83	2	40	
Sex with HIV-infected person,	•		_								
risk not specified	23	31	34	16 .	277	434	508	780	1,8	78	
leceipt of blood transfusion,											
blood components, or tissue ³	492		456	(1)	354 (7)	250 (4)	846 (2)	706 (2)	4,347	(2	
Other/undetermined ⁴	1,507	(4)	2,302	(6)	415 (8)	623 (11)	1,922 (5)	2,925 (.7)	7,675	(4	
dult/adolescent subtotal	37,676	(100)	39,093	(100)	4,888 (100)	5,730 (100)	42,564 (100)	44 900 (400)	202,921	/100	
ediatric (<13 years old)	01,070	(100)	05,050	(100)	4,000 (100)	3,730 (100)	42,304 (100)	44,823 (100)	156,505	(100	
Pediatric (<13 years old) Exposure category Temophilia/coagulation disorder	31	(7)		(6)		1 (0)	31 (4)	23 (3)	163		
rediatric (<13 years old) xposure category lemophilia/coagulation disorder lother with/at risk for HIV	31	(7)	22	(6)		1 (0)	31 (4)	23 (3)	163	(5	
rediatric (<13 years old) xposure category lemophilia/coagulation disorder										(5	
rediatric (<13 years old) xposure category lemophilia/coagulation disorder lother with/at risk for HIV	31 346	(7)	22	(6)		1 (0)	31 (4)	23 (3) 596 (87)	163 2,936	(5	
Pediatric (<13 years old) exposure category Hemophilia/coagulation disorder Hother with/at risk for HIV infection:	31 346	(7)	22 318	(6) (86)	347 (94)	1 (0) 278 (88)	31 (4) 693 (88)	23 (3) 596 (87) 258	163 2,936	(5 (85	
Pediatric (<13 years old) exposure category Iemophilia/coagulation disorder Nother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male	31 346	(7) (83) 70 74 5	22 318	(6) (86)	- 347 (94) 151	1 (0) 278 (88) 122	31 (4) 693 (88)	23 (3) 596 (87)	163 2,936 1,4 6	(5 (85 30	
Pediatric (<13 years old) exposure category Ilemophilia/coagulation disorder Nother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia	31 346	(7) (83) 70 74 5	22 318	(6) (86) 36 56 5 4	 347 (94) 151 79	1 (0) 278 (88) 122 52	31 (4) 693 (88) 321 153	23 (3) 596 (87) 258 108	163 2,936 1,4 6	(5 (85	
Pediatric (<13 years old) exposure category Hemophilia/coagulation disorder Mother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country	31 346	(7) (83) 70 74 5	22 318	(6) (86) 36 56 5	 347 (94) 151 79 6	1 (0) 278 (88) 122 52	31 (4) 693 (88) 321 153 11	23 (3) 596 (87) 258 108 11	163 2,936 1,4 6	(5 (85 30 93 51	
Pediatric (<13 years old) exposure category Hemophilia/coagulation disorder Hother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born	31 346	(7) (83) 70 74 5 1	22 318	(6) (86) 36 56 5 4 23	347 (94) 151 79 6 1 20	1 (0) 278 (88) 122 52 6	31 (4) 693 (88) 321 153 11 2	23 (3) 596 (87) 258 108 11 4	163 2,936 1,4 6	(5 (85 30 03 61 13	
Pediatric (<13 years old) exposure category Hemophilia/coagulation disorder Mother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with injecting drug user Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country	31 346	(7) (83) 70 74 5	22 318	(6) (86) 36 56 5 4	347 (94) 151 79 6 1	1 (0) 278 (88) 122 52 6	31 (4) 693 (88) 321 153 11 2	23 (3) 596 (87) 258 108 11 4	163 2,936 1,4 6	(5 (85 30 03 61 13	
Pediatric (<13 years old) exposure category Hemophilia/coagulation disorder Mother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with preson born in Pattern-II country Sex with transfusion recipient	31 346	(7) (83) 70 74 5 1 22 2	22 318	(6) (86) 36 56 5 4 23	347 (94) 151 79 6 1 20	1 (0) 278 (88) 122 52 6 - 9	31 (4) 693 (88) 321 153 11 2 42 6	23 (3) 596 (87) 258 108 11 4 32	163 2,936 1,4 6	(5 (85 30 03 61 13 44	
Pediatric (<13 years old) exposure category Iemophilia/coagulation disorder Mother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection	31 346	(7) (83) 70 74 5 1	22 318	(6) (86) 36 56 5 4 23	347 (94) 151 79 6 1 20	1 (0) 278 (88) 122 52 6	31 (4) 693 (88) 321 153 11 2 42	23 (3) 596 (87) 258 108 11 4 32	163 2,936 1,4 6	(5 (85 30 03 61 13 44	
dediatric (<13 years old) exposure category demophilia/coagulation disorder dother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection Sex with HIV-infected person.	31 346 17	(7) (83) 70 74 5 1 22 2	22 318 13	(6) (86) 36 56 5 4 23	347 (94) 151 79 6 1 20 4	1 (0) 278 (88) 122 52 6 - 9	31 (4) 693 (88) 321 153 11 2 42 6	23 (3) 596 (87) 258 108 11 4 32	163 2,936 1,4 6	(5 (85 30 03 51 13 44 14	
dediatric (<13 years old) exposure category demophilia/coagulation disorder dother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection Sex with HIV-infected person, risk not specified	31 346 17	(7) (83) 70 74 5 1 22 2	22 318 13	(6) (86) 36 56 5 4 23	347 (94) 151 79 6 1 20	1 (0) 278 (88) 122 52 6 - 9	31 (4) 693 (88) 321 153 11 2 42 6	23 (3) 596 (87) 258 108 11 4 32	163 2,936 1,4 6	(5 (85 93 61 13 14	
dediatric (<13 years old) exposure category demophilia/coagulation disorder dother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection Sex with HIV-infected person.	31 346 17	(7) (83) 70 74 5 1 22 2	22 318 13	(6) (86) 36 56 54 23 1	347 (94) 151 79 6 1 20 4 —	1 (0) 278 (88) 122 52 6 - 9 - 1	31 (4) 693 (88) 321 153 11 2 42 6 1	23 (3) 596 (87) 258 108 11 4 32 1 1 4	163 2,936 1,4 6	(5 (85) (8	
Rediatric (<13 years old) Exposure category Idemophilia/coagulation disorder Mother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with injecting drug user Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection Sex with HIV-infected person, risk not specified Receipt of blood transfusion, blood components, or tissue	31 346 17	(7) (83) 70 74 5 1 22 2 1	22 318 13	(6) (86) 36 56 5 4 23	347 (94) 151 79 6 1 20 4	1 (0) 278 (88) 122 52 6 - 9	31 (4) 693 (88) 321 153 11 2 42 6	23 (3) 596 (87) 258 108 11 4 32	163 2,936 1,4 6	(5) (85) 03 61 113 44	
rediatric (<13 years old) xposure category lemophilia/coagulation disorder lother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection Sex with HIV-infected person. risk not specified Receipt of blood transfusion,	31 346 1	(7) (83) 70 74 5 1 22 2 1	22 318 13	(6) (86) 36 56 54 23 1	347 (94) 151 79 6 1 20 4 —	1 (0) 278 (88) 122 52 6 - 9 - 1	31 (4) 693 (88) 321 153 11 2 42 6 1	23 (3) 596 (87) 258 108 11 4 32 1 1 4	163 2,936 1,4 6	(5 (85) (8	
Pediatric (<13 years old) exposure category Idemophilia/coagulation disorder Idother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection Sex with HIV-infected person, risk not specified Receipt of blood transfusion, blood components, or tissue Has HIV infection, risk not specified	31 346 1	(7) (83) 70 74 5 1 22 2 1	22 318 13	(6) (86) 36 56 5 4 23 1	347 (94) 151 79 6 1 20 4 — 23	1 (0) 278 (88) 122 52 6 - 9 - 1 14 7	31 (4) 693 (88) 321 153 11 2 42 6 1	23 (3) 596 (87) 258 108 11 4 32 1 1 42 15	163 2,936 1,4 6	(5) (85) 30 33 51 113 44 114 113 44	
Pediatric (<13 years old) exposure category Idemophilia/coagulation disorder Idother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection Sex with HIV-infected person, risk not specified Receipt of blood transfusion, blood components, or tissue Has HIV infection, risk not specified	31 346	(7) (83) 70 74 5 1 22 2 1	22 318 13	(6) (86) 36 56 5 4 23 1	347 (94) 151 79 6 1 20 4 23 7	1 (0) 278 (88) 122 52 6 9 1 14 7 67	31 (4) 693 (88) 321 153 11 2 42 6 1 38 12	23 (3) 596 (87) 258 108 11 4 32 1 1 4 15	163 2,936 1,4 6	(5) (85) 30 33 361 113 444 114 113	
Pediatric (<13 years old) exposure category Hemophilia/coagulation disorder Mother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection Sex with HIV-infected person, risk not specified Receipt of blood transfusion, blood components, or tissue Has HIV infection, risk not specified Receipt of blood transfusion,	31 346 11	(7) (83) 70 74 5 1 22 2 1 15 5	22 318 13 2	(6) (86) 36 56 5 4 23 1 	347 (94) 151 79 6 1 20 4 — 23	1 (0) 278 (88) 122 52 6 - 9 - 1 14 7	31 (4) 693 (88) 321 153 11 2 42 6 1 38 12	23 (3) 596 (87) 258 108 11 4 32 1 1 42 15	163 2,936 1,4 6	03 61 13 44 14 13 14	
Pediatric (<13 years old) exposure category Hemophilia/coagulation disorder Mother with/at risk for HIV infection: Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in Pattern-II country Sex with transfusion recipient with HIV infection Sex with HIV-infected person, risk not specified Receipt of blood transfusion, blood components, or tissue Has HIV infection, risk not specified Receipt of blood transfusion, blood components, or tissue	31 346 17 27 14	(7) (83) 70 74 5 1 22 2 1 15 5 5 1 (6)	22 318 13 2 2 21 7	(6) (86) 36 56 54 23 1 	347 (94) 151 79 6 1 20 4 23 7 56	1 (0) 278 (88) 122 52 6 9 1 14 7 67	31 (4) 693 (88) 321 153 11 2 42 6 1 38 12 107	23 (3) 596 (87) 258 108 11 4 32 1 1 1 42 15 124	163 2,936 1,4 6 2	(5) (85) 30 33 33 33 44 44 113 44 44 (8)	

¹Includes 3 patients known to be infected with human immunodeficiency virus type 2 (HIV-2). See MMWR 1989;38:572-580.

³Eighteen adults/adolescents and 2 children developed AIDS after receiving blood screened negative for HIV antibody. Five additional adults developed AIDS after receiving tissue or organs from HIV-infected donors. Two of the five received organs or tissue from a donor who was negative for HIV antibody at the time of donation.

^{4&}quot;Other" refers to 4 persons who developed AIDS after exposure to HIV-infected blood within the health care setting, as documented by evidence of seroconversion or other laboratory studies. "Undetermined" refers to patients whose mode of exposure to HIV is unknown. This 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 6.

Table 4. AIDS cases by age group, exposure category, and race/ethnicity, reported through December 1991, United States

Adult/adolescent	White, not Hispanic	Black, not Hispanic	Hispanic	Asian/Pacific Islander	American Indian/ Alaska Native	Total⁴
exposure category	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%
Men who have sex with men Injecting drug use Men who have sex with men and	83,205 (<u>76)</u> 9,285 (8)	20,540 (35) 22,983 (39)	13,240 (40) 13,274 (40)	936 (74) 56 (4)	172 (55) 58 (18)	118,362 (58) 45,753 (23)
inject drugs Hemophilia/coagulation disorder Heterosexual contact:	7,547 (7) 1,402 (1) 2,513 (2)	3,578 (6) 137 (0) 7,091 (12)	1,925 (6) 140 (0) 2,242 (7)	28 (2) . 18 (1) 46 (4)	41 (13) 8 (3) 13 (4)	13,135 (6) 1,713 (1) 11,936 (6)
Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II¹ country Sex with person born in	1,342 343 85 13	3,321 216 11 2,488	1,656 78 6 14	19 11 2 2	10 . 1 . —	6,366 651 104 2,523
Pattern-II country Sex with transfusion recipient	50	111	11	1	_	174
with HIV infection Sex with HIV-infected person,	145	47	44	2	·	240
risk not specified	535	897	433	9	2	1,878
Receipt of blood transfusion, blood components, or tissue ² Other/undetermined ³	2,993 (3) 2,701 (2)	767 (1) 3,097 (5)	479 (1) 1,724 (5)	90 (7) 84 (7)	6 (2) 16 (5)	4,347 (2) 7,675 (4)
Adult/adolescent subtotal	109,646(100)	58,193 (100)	33,024(100)	1,258 (100)	314(100)	202,921(100)
exposure category Hemophilia/coagulation disorder Mother with/at risk for HIV	112 (15)	22 (1)	26 (3)	3 (18)	_	163 (5)
intection:	465 (63)	1,704 (92)	742 (87)	8 (47)	8(100)	2,936 (85)
Injecting drug use Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born	224 91 22 9 1	833 269 24 3 241	365 238 14 1 2	, 2 , 1 —	2 1 - -	1,430 603 61 13 244
in Pattern-II country Sex with transfusion recipient	_	13	•		-	14
with HIV infection Sex with HIV-infected person,	4	4	4	<u>.</u>	-	13
risk not specified Receipt of blood transfusion,	30	70	40	1 :	2	144
blood components, or tissue Has HIV infection, risk not specified	22 62	25 222	13 65	- 2	 3	60 354
Receipt of blood transfusion, blood components, or tissue Undetermined	152 (21) 10 (1)	65 (4) 53 (3)	66 (8) 20 (2)	6 (35)	 	289 (8) 83 (2)
Pediatric subtotal	739(100)	1,844 (100)	854(100)	17 (100)	8(100)	3,471(100)
Total	110,385	60,037	33,878	1,275	322	206,392

¹See technical notes.

²Eighteen adults/adolescents and 2 children developed AIDS after receiving blood screened negative for HIV antibody. Five additional adults developed AIDS after receiving tissue or organs from HIV-infected donors. Two of the five received organs or tissue from a donor who was negative for HIV antibody at the time of donation.

³"Other" refers to 4 persons who developed AIDS after exposure to HIV-infected blood within the health care setting, as documented by evidence of seroconversion or other laboratory studies. "Undetermined" refers to patients whose mode of exposure to HIV is unknown. This 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 6.

⁴Includes 495 persons whose race/ethnicity is unknown.

Table 5. Adult/adolescent AIDS cases by sex, exposure category, and race/ethnicity, reported through December 1991, United States

) Male	White, not Hispanic	Black, not Hispanic	Hispanic	Asian/Pacific Islander	American Indian/ Alaska Native	Total ⁴
exposure category	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%
Men who have sex with men Injecting drug use Men who have sex with men and	83,205 (80) 7,017 (7)	20,540 (44) 16,798 (36)	13,240 (46) 11,083 (39)	936 (81) 40 (3)	172 (64) 33 (12)	118,362 (65 35,048 (19
inject drugs Hemophilia/coagulation disorder Heterosexual contact:	7,547 (7) 1,373 (1) 813 (1)	3,578 (8) 127 (0) 3,307 (7)	1,925 (7) 137 (0) 548 (2)	28 (2) 18 (2) 9 (1)	41 (15) 8 (3) 3 (1)	13,135 (7 1,671 (1 4,687 (3
Sex with injecting drug user Sex with person with hemophilia Born in Pattern-II ¹ country Sex with person born in	483 7 8	1,077 313 5 3 1 2 — — — 1,779 11 2 —		3 - -	1,882 10 1,805	
Pattern-II country Sex with transfusion recipient with HIV infection	40 43	48 · 19	9 16	1	-	98
Sex with HIV-infected person, risk not specified	232	383	197	<u> </u>	<u>-</u>	79 813
Receipt of blood transfusion, blood components, or tissue ² Other/undetermined ³	1,938 (2) 2,287 (2)	418 (1) 2,269 (5)	259 (1) 1,432 (5)	55 (5) 67 (6)	1 (0) 11 (4)	2,679 (1 6,114 (3
Male subtotal	104,180 (100)	47,037 (100)	28,624 (100)	1,153 (100)	269 (100)	181,696 (100
Female . exposure category						
hjecting drug use Hemophilia/coagulation disorder Heterosexual contact:	2,268 (41) 29 (1) 1,700 (31)	6,185 (55) 10 (0) 3,784 (34)	2,191 (50) 3 (0) 1,694 (39)	16 (15) — 37 (35)	25 (56) - 10 (22)	10,705 (50 42 (0 7,249 (34
Sex with injecting drug user Sex with bisexual male Sex with person with hemophilia Born in Pattern-II country Sex with person born in	859 343 78 5	2,244 216 10 709	1, 343 78 [.] 4 3	14 11 2 —	7 1 —	4,484 651 94 718
Pattern-II country Sex with transfusion recipient	10	<i>63</i>	2	· -	-	76
with HIV infection Sex with HIV-infected person, risk not specified	102 303	28 514	28 236	2 8	_	161
Receipt of blood transfusion, blood components, or tissue Other/undetermined	1,055 (19) 414 (8)	349 (3) 828 (7)	220 (5) 292 (7)	35 (33) 17 (16)	2 5 (11) 5 (11)	1,065 1,668 (8 1,561 (7
Female subtotal	5,466 (100)	11,156 (100)	4,400 (100)	105 (100)	45 (100)	21,225 (100
Total	109,646	58,193	33,024	1,258	314	202.921

¹See technical notes.

²Eighteen adults/adolescents and 2 children developed AIDS after receiving blood screened negative for HIV antibody. Five additional adults developed AIDS after receiving tissue or organs from HIV-infected donors. Two of the five received organs or tissue from a donor who was negative for HIV antibody at the time of donation.

³"Other" refers to 4 persons who developed AIDS after exposure to HIV-infected blood within the health care setting, as documented by evidence of seroconversion or other laboratory studies. "Undetermined" refers to patients whose mode of exposure to HIV is unknown. This 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 6.

Includes 433 males and 53 females whose race/ethnicity is unknown.

Table 6. AIDS cases in adolescents and adults under age 25, by exposure category, reported in 1990 and 1991, and cumulative totals through December 1991, United States



•	13-19 years old							20-24 years old				
	1990		1991			lative tal	199	90	1991		Cumu	
Exposure category	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Men who have sex with men	27	(16)	32	(20)	197	(25)	825	(51)	674	(45)	4,462	(55)
Injecting drug use	21	(12)	25	(16)	101	(13)	301		300	(20)	1,406	(17)
Men who have sex with men and		, ,				` '		(/	7	\ <i>,</i>	.,	(,
inject drugs	5	(3)	5	(3)	33	(4)	144	(9)	105	(7)	731	(9)
Hemophilia/coagulation disorder	54	(32)	48	(30)	242	(31)	35	(2)	38	(3)	207	(3)
Heterosexual contact:	37	(22)	21	(13)	108	(14)	206		204	(14)	857	(11)
Sex with injecting drug user		29		12	. ;	73	1.	30	1:	21	4	93
Sex with bisexual male					•	3	•	9		10		61
Sex with person with hemophilia		1		3		4		3		2		17
Born in Pattern-II1 country		2		2		14		18		16		24
Sex with person born in		_		_		• •		.0			•	4
Pattern-II country		.,		1		1		6		1	ě.	10
Sex with transfusion recipient				•		•		0		•		10
with HIV infection		1		_		1		5		2		9
Sex with HIV-infected person,		•				•		5		.~		9
risk not specified		4		3		12		35	;	5 <i>2</i>	1	43
Receipt of blood transfusion,												
blood components, or tissue	9	(5)	8	(5)	53	(7)	24	(1)	21	(1)	117	(1)
Undetermined ²	17			(13)	55	(7)	91	(6)	143		380	(5)
Total	170	(100)	160	(100)	789	(100)	1,626	(100)	1,485	(100)	8,160	(100)

¹ See technical notes.

² "Undetermined" refers to patients whose mode of exposure to HIV is unknown. This 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 6.

Table 7. AIDS cases by age at diagnosis and exposure category, reported through December 1991, United States

	Men who have sex with men		•	Injecting drug use		have men ject js	Hemop coagu diso	lation	Heterosexual contact: sex with person with/at risk for HIV infection		
Age at diagnosis (years)	No.	(%)	· No.	(%)	No.	(%)	No.	(%)	No.	(%)	
Under 5	_		_		_		9.	(0)			
5-12	_		-		٠ ـــ		154	. (8)			
13-19	197	(0)	101	(0)	33	(0)	242	(13)	94	(1)	
20-24	4,462	(4)	1,406	(3)	731	(6)	207	(11)	733	(8)	
25-29	19,184	(16)	6,186	(14)	2,750	(21)	267	(14)	1,932	(21)	
30-34	28,089	(24)	12,411	(27)	3,844	(29)	251	(13)	2,156	(23)	
35-39	25,631	(22)	12,900	(28)	3,103	(24)	206	(11)	1,555	(17) -	
40-44	17,850	(15)	7,203	(16)	1,561	(12)	157	(8)	1,005	(11)	
45-49	10,768	(9)	3,085	(7)	666	(5)	126	(7)	668	(7)	
50-54	5,904	(5)	1,410	(3)	256	(2)	67	(4)	468	(5)	
55-59	3,586	(3)	691	(2)	124	(1)	49	(3)	310	(3)	
60-64	1,775	(1)	257	(1)	44	(o)	63	(3)	238	(3)	
65 or older	916	(1)	103	(o)	23	(o)	78	(4)	254	(3)	
Total	118,362	(100)	45,753	(100)	13,135	(100)	1,876	(100)	9,413	(100)	

	Heterosexual contact: born in Pattern-II ¹ country			Receipt of transfusion ²		Mother with/at risk for HIV infection		Other/ undetermined ³		al
Age at diagnosis (years)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Under 5	_		136	(3)	2,592	(88)	65	(1)	2,802	(1)
5-12	_		153	(3)	344	(12)	18	(0)	669	(0)
43-19	14	(1)	53	(1)		` '	55	(1)	789	(0)
20-24	124	(5)	117	(3)	_		380	(5)	8,160	(4)
25-29	559	(22)	274	(6)			1,050	(14)	32,202	(16)
30-34	747	(30)	343	(7)			1,475	(19)	49,316	(24)
35-39	513	(20)	352	(8)			1,144	(15)	45,404	(22)
40-44	280	(11)	361	(8)			1,037	(13)	29,454	(14)
45-49	122	(5)	322	(7)			790	(10)	16,547	(8)
50-54	75	(3)	341	(7)	_		620	(8)	9,141	(4)
55-59	47	(2)	413	(9)	_		471	(6)	5,691	(3)
60-64	21	(1)	527	(11)			318	(4)	3,243	(2)
65 or older	21	(1)	1,244	(27)	_	,	335	(4)	2,974	(1)
Total	2,523	(100)	4,636	(100)	2,936	(100)	7,758	(100)	206.392	(100)

¹ See technical notes.

² Eighteen adults/adolescents and 2 children developed AIDS after receiving blood screened negative for HIV antibody. Five additional adults developed AIDS after receiving tissue or organs from HIV-infected donors. Two of the five received organs or tissue from a donor who was negative for HIV antibody at the time of donation.

^{3 &}quot;Other" refers to 4 persons who developed AIDS after exposure to HIV-infected blood within the health care setting, as documented by evidence of seroconversion or other laboratory studies. "Undetermined" refers to patients whose mode of exposure to HIV is unknown. This 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 6.

Table 8. AIDS cases by sex, age at diagnosis, and race/ethnicity, reported through December 1991, United States

Males		White, not Hispanic		Black, not Hispanic		Hispanic		Asian/Pacific Islander		American Indian/ Alaska Native		Total ¹	
Age at diagnosis (years)	No.	(%)	Ÿ No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	
Under 5 5-12 13-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64	248 194 271 3,361 15,618 24,350 23,048 16,141 9,538 5,155 3,216 1,873	(0) (0) (3) (15) (22) (15) (9) (5) (3) (2)	820 128 175 2,065 7,355 11,667 11,160 6,730 3,616 2,026 1,196 632	(2) (0) (0) (4) (15) (24) (23) (14) (8) (4) (2)	367 95 119 1,269 4,826 7,311 6,430 4,037 2,132 1,186 723	(1) (0) (0) (4) (17) (25) (22) (14) (7) (4) (2)	6 5 7 42 160 230 264 190 116 62 40	(1) (0) (1) (4) (14) (20) (23) (16) (10) (5) (3)	5 	(2) (5) (22) (26) (20) (13) (6) (2) (1)	1,449 424 577 6,765 28,080 43,715 41,064 27,202 15,464 8,456 5,196	(1) (0) (0) (4) (15) (24) (22) (15) (8) (5) (3)	
65 or older	1,609	(2)	415	(1)	356 235	(1)	12 30	(1) (3)	4	(1) (0)	2,882 2,295	(2)	
Male subtotal	104,622 (100)	47,985	(100)	29,086 ((100)	1,164 (100)	274		183,569	<u> </u>	

Females Age at diagnosis (years)

Total	110,385	60,037	33,878	1,275	322	206,392
Female subtotal	5,763 (100)	12,052 (100)	4,792 (100)	111 (100)	48 (100)	22,823 (100)
Under 5 5-12 13-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65 or older	240 (4) 57 (1) 61 (1) 342 (6) 1,011 (18) 1,257 (22) 907 (16) 522 (9) 279 (5) 204 (4) 219 (4) 183 (3) 481 (8)	783 (6) 113 (1) 117 (1) 692 (6) 2,093 (17) 3,148 (26) 2,514 (21) 1,237 (10) 565 (5) 338 (3) 191 (2) 122 (1) 139 (1)	323 (7) 69 (1) 32 (1) 343 (7) 992 (21) 1,149 (24) 888 (19) 465 (10) 222 (5) 134 (3) 78 (2) 46 (1) 51 (1)	1 (1) 5 (5) 1 (1) 6 (5) 8 (7) 20 (18) 15 (14) 21 (19) 9 (8) 7 (6) 5 (5) 8 (7) 5 (5)	3 (6) - 1 (2) 5 (10) 7 (15) 15 (31) 5 (10) 5 (10) 3 (6) 1 (2) - 2 (4) 1 (2)	1,353 (6) 245 (7) 212 (1,395 (6) 4,122 (18) 5,601 (25) 4,340 (19) 2,252 (10) 1,083 (5) 685 (3) 495 (2) 361 (2) 679 (3)

¹Includes 495 persons whose race/ethnicity is unknown.

Table 9. AIDS cases and annual rates per 100,000 population, by race/ethnicity, age group, and sex, reported in 1991, United States

Race/ethnicity	Adults/adolescents						Children			
	Males		Females		Total		<13 years old		Total	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
White, not Hispanic	20,716	27.8	1,358	1.7	22,074	14.2	142	0.4	22,216	11.7
Black, not Hispanic	11,059	95.3	3,102	24.6	14,161	58.5	400	7.4	14.561	49.2
Hispanic	6,850	69.9	1,213	12.6	8,063	41:5	133	2.0	8.196	31.4
Asian/Pacific Islander	247	8.5	24	0.8	271	4.5	4	0.3	275	3.7
American Indian/Alaska Native	65	9.2	12	1.6	77	5.2	. 2	0.6	79	4.4
Total ¹	39,093	39.3	5,730	5.4	44,823	21.7	683	1.4	45,506	17.8

¹ Includes 179 persons whose race/ethnicity is unknown.

Table 10. AIDS cases by year of diagnosis and definition category, diagnosed through December 1991, United States

	Before 1988	1988	1989	1990	1991	Cumulative total
Definition category	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
Pre-1987 definition	59,895 (88)	24,171 (72)	26,442 (69)	25,143 (66)	17,472 (62)	153,123 (74)
1987 definition:	8,079 (12)	9,419 (28)	11,712 (31)	13,137 (34)	10,922 (38)	53,269 (26)
Specific disease	. , ,		(2.7)	(4.)	, (00)	(40)
presumptively diagnosed	4,340	<i>5,338</i>	6,764	8,166	6.682	31,290
Specific disease		•				
definitively diagnosed	909	649	799 [†]	837	646	3.840
HIV encephalopathy	<i>986</i>	1,147	1,353	1.362	969	5.817
HIV wasting syndrome	1,844	2,285	2,796	2,772	2,625	12,322
Total	67,974 (100)	33,590 (100)	38,154 (100)	38,280 (100)	28,394 (100)	206,392 (100)

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

Table 11. AIDS-indicator diseases diagnosed in patients reported in 1991, by age group, United States

	Adults/adole			13 years old
AIDS-indicator disease	No.	(%) ¹	No.	(%) ¹
Bacterial infections, multiple or recurrent	NA		120	(18)
Candidiasis of bronchi, trachea, or lungs	957	(2)	31	(5)
Candidiasis of esophagus				• •
Definitive diagnosis	3,336	(7)	56	(8)
Presumptive diagnosis	3,383	(8)	39	(6)
Coccidioidomycosis, disseminated or extrapulmonary	·	(o)	1	· (o)
Cryptococcosis, extrapulmonary	2,439	(5)	3	(0)
Cryptosporidiosis, chronic intestinal		(2)	20	(3)
Cytomegalovirus disease other than retinitis		(4)	37	(5)
Cytomegalovirus retinitis		` '	•	(),
Definitive diagnosis	962	(2)	2	(0)
Presumptive diagnosis		(2)	3	: -:
HIV encephalopathy (dementia)		(6)	96	
Herpes simplex, with esophagitis, pneumonitis, or	. 2,103	(0)	90	(14)
chronic mucocutaneous ulcers	1,632	(4)	17	/ O)
Histoplasmosis, disseminated or extrapulmonary	•	(1) (1)	17	(2)
Isosporiasis, chronic intestinal			1	(0)
Kaposi's sarcoma	90	(0)	. 0	(0)
Definitive diagnosis	2 600	/ O)	•	(a)
Presumptive diagnosis	3,608		2	(0)
Lymphoid interstitial pneumonia and/or pulmonary lymphoid hyperplasia	1,056 NA	(2)	, . 0	(0)
Definitive diagnosis	IVA			>
Presumptive diagnosis			55	(8)
Lymphoma, Burkitt's (or equivalent term)	075	. 45	87	(13)
Lymphoma, immunoblastic (or equivalent term)		(1)	5	(1)
Lymphoma, primary in brain	111	(2)	2	(O)
Africa to design a suitement Africa and a discoming and a suite an	303	(1)	2	(0)
Mycobacterium avium or M. kansasii, disseminated or extrapulmonary				
Definitive diagnosis		(5)	19	(3)
Presumptive diagnosis	228	(1)	0	(0)
M. tuberculosis, disseminated or extrapulmonary				
Definitive diagnosis		(2)	7	(1)
Presumptive diagnosis	237	(1)	0	(O)
Mycobacterial disease, other, disseminated or extrapulmonary	\vec{i}			
Definitive diagnosis		(1)	3	(0)
Presumptive diagnosis	241	(1)	1	(0)
Pneumocystis carinii pneumonia				•
Definitive diagnosis	13,524	(30)	173	(25)
Presumptive diagnosis	7,132	(16)	57	(8)
Progressive multifocal leukoencephalopathy	386		0	(0)
Salmonella septicemia, recurrent	156	(o)	N.	Δ3
Toxoplasmosis of brain		•		•
Definitive diagnosis	860	(2)	6	(1)
Presumptive diagnosis	1,466	3)	2	(o)
HIV wasting syndrome		(19)	84	(12)

¹ Percentages are based on 44.823 adult/adolescent and 683 pediatric cases reported to CDC in 1991. The sum of percentages is greater than 100, because some patients have more than one disease.

² Not applicable as indicator of AIDS in adults/adolescents.

³ Tabulated above in "Bacterial infections, multiple or recurrent."

Table 12. AIDS cases, case-fatality rates, and deaths, by half-year and age group, through December 1991, United States

Adults/adolescents Children < 13 years old Cases diagnosed **Case-fatality** Deaths occurring Cases diagnosed Case-fatality Deaths occurring during interval Half-year rate during interval during interval rate during interval 80 86.3 Before 1981 31 6 66.7 1 92 91.3 1981 Jan.-June 39 10 80.0 2 207 90.8 July-Dec. 86 7 . 5 100.0 92.1 1982 Jan.-June 393 152 14 78.6 July-Dec. 691 89.3 284 15 80.0 5 1983 Jan.-June 1,281 93.0 520 33 97.0 13 1,645 92.5 July-Dec. 927 42 83.3 16 1984 Jan.-June 2.560 90.7 1.387 49 26 85.7 July-Dec. 3,378 91.5 1,945 62 80.6 24 4.856 1985 Jan.-June 90.7 2,797 98 74.5 44 July-Dec. 6,276 89.5 3,823 129 78.3 70 1986 Jan.-June 8,273 88.2 5.040 135 78.5 66 July-Dec. 9,898 85.6 6,429 188 69.1 91 12.847 85.7 1987 Jan.-June 7,469 221 68.3 117 July-Dec. 14,237 81.3 7,824 253 62.5 163 1988 Jan.-June 16,294 77.3 9,161 244 56.6 133 July-Dec. 16,722 74.5 10,424 330 53.9 164 1989 Jan.-June 18,797 67.2 11,979 333 52.6 166 July-Dec. 18,709 61.9 13,653 315 47.0 180 1990 Jan.-June 19,477 51.9 13,254 326 37.4 179 July-Dec. 18,156 41.6 13,707 321 29.9 171 1991 Jan.-June 17,900 28.1 12,849 245 24.9 135 July-Dec. 10,152 15.8 7,406 97 14.4 64 Total1 202,921 64.7 131,383 3,471 53.3 1.850

¹ Death totals include 197 adults/adolescents and 6 children known to have died, but whose dates of death are unknown.

Table 13. AIDS deaths by race/ethnicity, age at death, and sex, occurring in 1989 and 1990, and cumulative totals reported through December 1991, United States¹

	Males			Females			Both Sexes			
Race/ethnicity and age at death ²	Cur		Cumulative		Cumulative			Cumulat		
	1989	1990	total	1989	1990	total	1989	1990	total	
White, not Hispanic										
Under 15	46	33	253	44	28	. 177	90	61	430	
15-24	276	200	1,478	36	47	181	312	247	1,659	
25-34	4,186	4,373	22,481	259	251	1,269	4,445	4,624	23,750	
35-44	5,160	5,736	27,341	166	216	853	5,326	5,952		
45-54	2,217	2,426	11,540	65	68	330			28,194	
55 or older	1,082	1,075	5,738	116	133		2,282	2,494	11,870	
All ages	12,967		68,920	686	743	742 3,560	1,198 13,653	1,208 14,586	6,480 72,480	
Black, not Hispanic						-,	,	,000		
Under 15	80	103	485	00	400	407				
15-24	206	164		86	100	487	166	203	972	
25-34			1,091	66	. 74	378	272	238	1,469	
35-44	2,172	2,223	11,565	633	644	3,160	2,805	2,867	14,725	
	2,529	2,630	11,974	511	639	2,420	3,040	3,269	14,394	
45-54	784	852	3,941	142	139	606	926	991	4,547	
55 or older	370	403	.,	58	86	343	428	489	2,093	
All ages	6,141	6,375	30,848	1,496	1,682	7,416	7,637	8,057	38,264	
Hispanic			•							
Under 15	45	41	232	46	41	211	91	82	443	
15-24	126	101	647	29	31	158				
25-34	1,462	1.402	7,114	260			155	132	805	
35-44	1,460	1.526	7,028		255	1,208	1,722	1,657	8,322	
45-54	536	502		174	210	824	1,634	1,736	7,852	
55 or older			2,437	51	59	234	587	561	2,671	
	204	210	1,005	29	27	117	233	237	1,122	
All ages	3,833	3,782	18,492	589	623	2,761	4,422	4,405	21,253	
Asian/Pacific Islander										
Under 15		1	8	1		3	1	1	11	
15-24	4		16		_	3	4		19	
25-34	43	42	222	- 5	2	17	48	.44	239	
35-44	60	67	289	6	5	26				
45-54	31	30	131	2	2		66	72	315	
55 or older	14	19	71			14	33	32	145	
All ages	152	159	739	4	3	16	18	22	87	
_	132	139	739	18	12	80	170	171	819	
American Indian/Alaska Native										
Under 15	1	1	5	_	_	1	1	1	6	
15-24	2	3	10	_	1	· 1	2	4	11	
25-34 25-44	13	16	75	1	3	12	14	19	87	
35-44	11	12	58	3	1	6	14	13	64	
45-54	4	3	22	1	_	2	5	3	24	
55 or older	_	1	9		_	ī	_	1	10	
All ages	31	36	179	5	5	24	36	41	203	
All racial/ethnic groups										
Under 15	172	181	985	178	169	881	350	350	1,866	
15-24	614	468	3,246	131	153	722	745	621	3,968	
25-34	7,890	8,068	41,507	1,159	1,158	5,672	9.049	9,226	47,179	
35-44	9,245	9,988	46,779	863	1,073	4,135	10,108	11.061	50,914	
45-54	3,581	3,824	18,103	262	269					
55 or older	1,674	1,710	8.588	209	250	1,189	3,843	4,093	19,292	
All ages	23,176	24,239	119,370			1,223	1,883	1.960	9,811	
•		,	. 10,010	2,802	3,072	13,863	25,978	27,311	133,233	

Data tabulations for 1989 and 1990 are based on date of death occurrence. Data for deaths occurring in 1991 are incomplete and not tabulated separately, but are included in the cumulative totals. Tabulations for 1989 and 1990 may increase as additional deaths are reported to the CDC.
 Data tabulated under "All ages" include 203 persons whose age at death is unknown. Data tabulated under "All racial/ethnic groups" include 214 persons whose race/ethnicity is unknown.

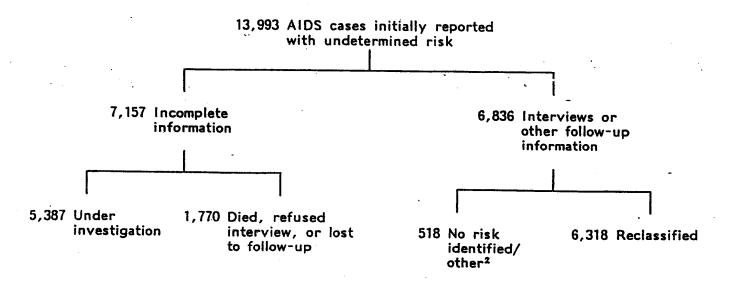
Table 14. Adult/adolescent AIDS cases by single and multiple exposure categories, reported through December 1991, United States

Evaceura cotogom.	AIDS cases		
Exposure category	No.	(%	
Single mode of exposure			
Men who have sex with men	113,804		
Injecting drug use	39,039	(56	
Hemophilia/coagulation disorder	•	(19	
Heterosexual contact	1,106	(1	
Receipt of transfusion of blood, blood component, or tissue ¹	11,442	(€	
Other/undetermined ²	4,347	(2	
Single mode of exposure subtotal	7,675	(4	
	177,413	(87	
Multiple modes of exposure		·	
Men who have sex with men; injecting drug use	11,780	/ 6	
Men who have sex with men; hemophilia	41	(6	
Men who have sex with men; heterosexual contact	2.451	(0	
Men who have sex with men; receipt of transfusion	1,922	(1	
Injecting drug use; hemophilia	45	(1	
Injecting drug use; heterosexual contact	5.555	(0	
Injecting drug use; receipt of transfusion	3,555 823	(3	
Hemophilia; heterosexual contact	9 9	(0	
Hemophilia; receipt of transfusion		(0	
Heterosexual contact; receipt of transfusion	584	(0	
Men who have sex with men; injecting drug use; hemophilia	494	(0	
men who have sex with men; injecting drug use; heterosexual contact	12	(0	
men who have sex with men; injecting drug use: receipt of transfusion	1,004	(0	
men who have sex with men; hemophilia: heterosexual contact	290	(0)	
Men who have sex with men; hemophilia; receipt of transfusion	3	(0)	
Men who have sex with men; heterosexual contact: receipt of transfusion	23	(0)	
injecting drug use; nemophilia; heterosexual contact	118	(0)	
Injecting drug use; hemophilia; receipt of transfusion	6	(0)	
Injecting drug use; heterosexual contact; receipt of transfusion	23	(0)	
nemophilia; neterosexual contact; receipt of transfusion	254	(0)	
Men who have sex with men; injecting drug use; hemophilia; heterosexual contact	14	(0)	
when who have sex with men; injecting drug use; hemophilia; receipt of transfering	, 1	(0)	
well will have sex with men; injecting drug use, heterosevual contact, receipt of transfer.	6	(0)	
Injecting drug use; hemophilia; heterosexual contact; receipt of transfusion	42	(0)	
Multiple modes of exposure subtotal	8	(0)	
	25,508	(13)	
Total	202,921	(100)	

¹Eighteen adults/adolescents and 2 children developed AIDS after receiving blood screened negative for HIV antibody. Five additional adults developed AIDS after receiving tissue or organs from HIV-infected donors. Two of the five received organs or tissue from a donor who was negative for HIV antibody at the time of donation.

²"Other" refers to 4 persons who developed AIDS after exposure to HIV-infected blood within the health care setting, as documented by evidence of seroconversion or other laboratory studies. "Undetermined" refers to patients whose mode of exposure to HIV is unknown. This 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 6.

Figure 6. Results of investigations of adult/adolescent AIDS cases with undetermined risk reported through December 1991¹



¹ Excludes 83 children under 13 years of age who have an undetermined risk: 73 children are under investigation and 10 have died, refused interview, or were lost to follow-up. An additional 123 children who were initially reported with an undetermined risk have been reclassified after investigation.

Health-care workers. 84 of the 514 patients who had no risk identified after follow-up are health-care workers, 75 of whom responded to a standardized questionaire. 45 (60%) reported needlesticks and/or mucous membrane exposures to blood and other body fluids of patients. None of the source patients was known to be infected with HIV at the time of 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.

Heterosexual transmission. 455 of the 514 patients who had no risk identified after follow-up responded to a standardized questionnaire; 145 (35%) of 418 persons responding to questions related to sexually transmitted disease gave a history of such disease and 104 (36%) of 290 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.

² Of the 518 persons classified as "No risk identified/other," 4 are persons who developed AIDS after exposure to HIV-infected blood within the health-care setting, as documented by evidence of seroconversion or other laboratory studies. For the remaining 514, the mode of exposure to HIV remains undetermined after investigation.

Surveillance and reporting of AIDS

All 50 states, the District of Columbia, U.S. dependencies and possessions, and independent nations in free association with the U.S.1 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 AIDSindicator 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. Compared with patients who meet the pre-1987 case definition, a higher proportion of patients who meet only the 1987 case definition were female, black, or Hispanic, or were injecting drug users (MMWR 1989:38:229-36).

Each issue of this report includes information received and tabulated by CDC through the last day of the previous 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.

Age group tabulations are based on the person's age at diagnosis of AIDS: adult/adolescent cases include persons 13 years of age and older; pediatric cases include children under 13 years of age. Age group tabulations in Table 13 (only included in the year-end edition) are based on age at death.

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 cities and counties, and may cross state boundaries.

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.

For example, AIDS cases and annual rates presented for the District of Columbia in Table 1 include only persons residing within the geographic boundaries of the District. AIDS cases and annual rates for Washington, D.C., in Table 2 include persons residing within the metropolitan area which includes counties in both Maryland and Virginia. State or metropolitan area data tabulations are based on the person's residence at diagnosis of the first AIDS-indicator disease(s). The cities and counties which comprise each metropolitan area in Table 2 are listed in the Bureau of Census publication, "State and Metropolitan Area Data Book, 1986."

Data in this report are provisional. Reporting delays (time between diagnosis and report to CDC) vary widely among exposure, geographic, racial/ethnic, and age categories and have been several years for some cases. About 55 percent of all cases are reported within 3 months of diagnosis, but about 20 percent are reported more than 1 year after diagnosis.

Completeness of reporting of diagnosed cases to state and local health departments varies by geographic region and patient population; however, mortality studies suggest that 70 to 90 percent of HIV-related deaths in men 25 to 44 years old are identified through national surveillance of AIDS (MMWR 1989;38:561-3). 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 casefatality 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 category listed first in the hierarchy, except for men with both a history of sexual contact with other men and injecting drug use. They make up a separate category.

"Men who have sex with men" cases include men who report sexual contact with other men (i.e., homosexual contact) and men who report sexual contact with both men and women (i.e., bisexual contact).

"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 transmission is observed in areas of sub-Saharan Africa and in some Caribbean countries. In these countries, most of the reported cases occur in heterosexuals and the male-to-female ratio is approximately 1:1. Injecting drug use and homosexual transmission either do not occur or occur at a low level.

"Undetermined" cases are 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 denominators for computing rates are based on U.S. Bureau of Census data from the 1990 census and on extrapolations from the 1980 and 1990 census. Each 12-month rate is the number of cases for a 12-month period divided by the 1990 or 1991 population, multiplied by 100,000. Racespecific rates are the number of cases reported for a particular race/ethnicity during the preceding 12-month period divided by the 1991 census estimate for that race/ethnicity, multiplied by 100,000.

Case-fatality rates are on a semiannual basis by date of diagnosis. Each 6-month case-fatality rate is the number of fatal cases reported, divided by the number of total cases diagnosed in that period, multiplied by 100.

Trends in AIDS incidence

Tabulations of AIDS cases by date of report cases a general description of AIDS cases, but analysis by date of diagnosis give a more accurate description of trends. Delays in reporting, however, can have a substantial impact on tabulated numbers of cases diagnosed in recent time periods. About 55 percent of all cases are reported within 3 months of diagnosis, but about 20 percent are reported more than 1 year after diagnosis. Delays are substantially longer for pediatric cases and for transfusion-associated cases in adults.

Figure 5 (included only in the year-end edition) shows trends in AIDS incidence by quarter of diagnosis. The jagged line on the plot shows the estimated numbers of cases diagnosed, after adjusting for estimated delays in reporting. Reporting delays were estimated by a maximum likelihood statistical procedure, taking into account possible differences in reporting delays among exposure, geographic, racial/ethnic, and age categories, but assuming that reporting delays within these groups have not changed over time (J.M. Karon, O.J. Devine, and W.M. Morgan "Predicting AIDS incidence by exrapolating from recent trends." In: C. Castillo-Chavex ed. Mathematical and Statistical Approaches AIDS Epidemiology. Lecture Notes in Biomathematics, Vol. 83, Springer Verlag, Berlin, 1989).

The smooth curve is obtained by connecting smoothed values computed for each quarter. The smoothed value at time t is a weighted average of adjusted incidences in the interval $t \pm 1$ year; the weights decrease for times further from t.

The smooth curve should be considered a description of the overall trend in AIDS cases but predictions of future number of cases should not be made by extrapolating the curve. This curve emphasizes that the rate of increase in incidence slowed during the middle of 1987 (see MMWR 1990;39:81-86).