

**TABLE 1: Characteristics of Michigan Residents Living with HIV or AIDS
 as of January 1, 2004**

	Estimate of HIV Prevalence ¹	Estimated Prevalence Rate ²	Reported Living with AIDS ³		Reported Living with HIV not AIDS ³	
			Number	Percent ⁴	Number	Percent ⁴
MICHIGAN TOTAL	16,200	163.0	5,420	100%	5,725	100%
SEX						
Male	12,520	257	4,323	80%	4,290	75%
Female	3,680	73	1,097	20%	1,435	25%
BEHAVIOR						
Male-Male Sex	7,470	N/A	2679	57%	2459	54%
Injecting Drug Use ⁵	2,470	N/A	900	19%	798	18%
IDU w/ heterosexual	1,170	N/A	427	9%	376	8%
IDU w/o heterosexual	1,300	N/A	473	10%	422	9%
Male-Male Sex/IDU	840	N/A	294	6%	285	6%
Blood Products	180	N/A	77	2%	49	1%
Heterosexual ⁶	2,270	N/A	701	15%	858	19%
Partner IDU	700	N/A	217	5%	266	6%
Partner Bisexual	110	N/A	31	1%	43	1%
Partner Rec'd Bld	50	N/A	16	0%	21	0%
Partner HIV +	1,400	N/A	437	9%	528	12%
Perinatal	200	N/A	35	1%	102	2%
Undetermined ⁴	Not Applicable	N/A	734	(14%)	1174	(21%)
Presumed Heterosexual ⁷	Not Applicable	N/A	595	(11%)	791	(14%)
Other ⁸	Not Applicable	N/A	139	(3%)	383	(7%)
AGE AT DIAGNOSIS						
0 -12 years	220	12	35	1%	118	2%
13 -19 years	350	35	49	1%	194	3%
20 -24 years	1,460	227	252	5%	753	13%
25 -29 years	2,510	383	650	12%	1077	19%
30 -34 years	3,300	466	1133	21%	1140	20%
35 -39 years	3,280	417	1210	22%	1044	18%
40 -44 years	2,370	292	956	18%	677	12%
45 -49 years	1,380	188	577	11%	370	6%
50 -54 years	780	123	330	6%	206	4%
55 -59 years	320	66	131	2%	90	2%
60 -64 years	140	37	62	1%	37	1%
65 years and over	80	7	35	1%	19	0%
Unspecified ⁴	Not Applicable		0	(0%)	0	(0%)
RACE / ETHNICITY						
White, Non-Hisp.	5,930	76	2,074	38%	2,003	36%
Black, Non-Hisp.	9,360	668	3,084	57%	3,352	60%
Hispanic	600	185	223	4%	188	3%
Asian/Pacific Islander	60	34	25	0%	16	0%
American Indian	50	94	12	0%	24	0%
Unspecified/Multi-race ⁴	Not Applicable	N/A	2	(0%)	142	(2%)

* See Technical Notes for footnotes to Table 1.

TABLE 2a: Michigan Residents Living with HIV or AIDS by County, as of 1/1/04 and Residents Ever Diagnosed with AIDS, 1981 to Date

Residence at Time of Diagnosis	Estimate of HIV Prevalence ¹	Estimated Prevalence Rate ²	Persons Living with AIDS ³	Persons Living with HIV not AIDS ³	Persons Ever Diagnosed with AIDS
Total Michigan	16,200	163.0	5,420	5,725	13,248
Alcona	10	----	0	0	3
Alger	10	----	1	0	1
Allegan	100	94.6	42	25	80
Alpena	10	----	1	1	8
Antrim	10	----	4	1	8
Arenac	10	----	0	2	3
Baraga	10	----	4	3	8
Barry	30	52.9	12	7	24
Bay	80	72.6	21	30	53
Benzie	10	----	0	1	2
Berrien	280	172.4	95	87	184
Branch	20	43.7	1	11	13
Calhoun	150	108.7	47	52	105
Cass	40	78.3	10	15	19
Charlevoix	10	----	3	6	5
Cheboygan	10	----	2	0	5
Chippewa	10	----	2	6	4
Clare	20	64.0	4	6	9
Clinton	40	61.8	17	12	29
Crawford	10	----	2	0	4
Delta	20	51.9	6	7	7
Dickinson	10	----	2	2	5
Eaton	40	38.6	14	15	32
Emmet	10	----	3	3	7
Genesee	620	142.2	172	225	420
Gladwin	10	----	3	1	5
Gogebic	10	----	0	3	7
Grand Traverse	60	77.3	17	23	35
Gratiot	10	----	2	2	8
Hillsdale	10	----	3	6	16
Houghton	10	----	4	3	8
Huron	10	----	2	0	8
Ingham	460	164.7	127	171	337
Ionia	20	32.5	10	4	19
Iosco	10	----	1	2	2
Iron	10	----	0	1	2
Isabella	20	31.6	7	5	19
Jackson	160	101.0	45	56	102
Kalamazoo	340	142.5	109	108	236
Kalkaska	10	----	1	3	4
Kent	850	148.0	276	273	633
Keweenaw	10	----	0	0	0

1. This estimate includes all persons living with HIV or AIDS, including those not yet diagnosed. The minimum estimate given is 10 persons.
2. Rates are calculated per 100,000 population in 2000. Rates are unreliable for counties with the minimum estimated prevalence of 10, and are therefore not listed.
3. Includes reports of HIV infection or AIDS that contain patient name or are otherwise unduplicated.

**TABLE 2b: Michigan Residents Living with HIV or AIDS by County, as of 1/1/04
 and Residents Ever Diagnosed with AIDS, 1981 to Date**

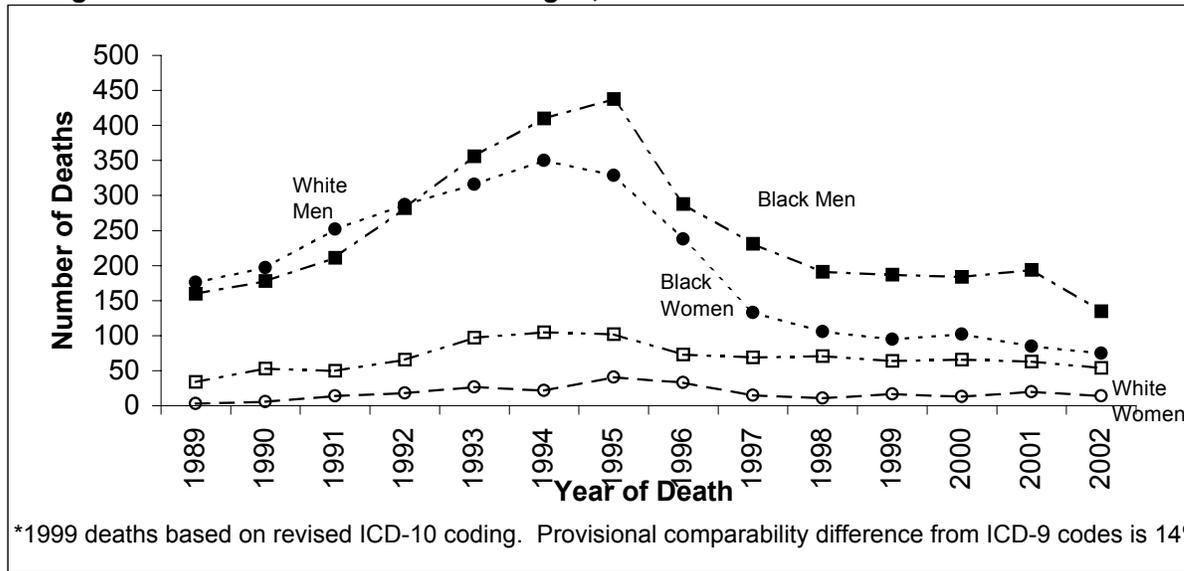
Residence at Time of Diagnosis	Estimate of HIV Prevalence ¹	Estimated Prevalence Rate ²	Persons Living with AIDS ³	Persons Living with HIV not AIDS ³	Persons Ever Diagnosed with AIDS
TOTAL MICHIGAN	16,200	163.0	5,420	5,725	13,248
Lake	10	----	6	3	10
Lapeer	30	34.1	5	12	14
Leelanau	10	----	5	0	13
Lenawee	60	60.7	19	21	41
Livingston	40	25.5	12	15	32
Luce	10	----	0	0	1
Mackinac	10	----	1	0	2
Macomb	590	74.9	195	187	494
Manistee	20	81.5	7	4	10
Marquette	30	46.4	5	12	18
Mason	20	70.7	8	4	11
Mecosta	20	49.3	4	7	11
Menominee	10	----	0	4	3
Midland	30	36.2	14	8	25
Missaukee	10	----	1	4	3
Monroe	60	41.1	26	12	64
Montcalm	30	49.0	9	10	21
Montmorency	10	----	2	0	3
Muskegon	150	88.1	39	55	88
Newaygo	20	41.8	8	5	22
Oakland	1,740	145.7	544	578	1,217
Oceana	10	----	3	4	9
Ogemaw	10	----	1	1	3
Ontonagon	10	----	0	1	0
Osceola	10	----	2	2	8
Oscoda	10	----	0	1	2
Otsego	10	----	5	2	8
Ottawa	100	42.0	40	27	96
Presque Isle	10	----	0	0	2
Roscommon	10	----	6	3	13
Saginaw	200	95.2	61	67	159
Sanilac	20	44.9	5	5	12
Schoolcraft	10	----	1	1	3
Shiawassee	30	41.8	10	7	18
St. Clair	100	60.9	27	39	72
St. Joseph	40	64.1	15	10	36
Tuscola	20	34.3	5	5	13
Van Buren	80	104.9	25	25	48
Washtenaw	530	164.1	171	170	368
Wayne	1,590	143.3	552	473	1,265
City of Detroit	7,080	744.3	2,278	2,285	6,022
Wexford	10	----	2	6	4
PRISONS	700	N/A	229	468	504
Unknown	10	N/A	0	4	1

1. This estimate includes all persons living with HIV or AIDS, including those not yet diagnosed. The minimum estimate given is 10 persons.
2. Rates are calculated per 100,000 population in 2000. Rates are unreliable for counties with the minimum estimated prevalence of 10, and are therefore not listed.
3. Includes reports of HIV infection or AIDS that contain patient name or are otherwise unduplicated.
4. The category PRISONS includes those persons who were in prison at the time of their HIV or AIDS diagnosis.

TABLE 3: Michigan Residents Reported Living with HIV or AIDS: Sex by Race by Behavior

MALES:	White		Black		Hispanic		Other or Unknown		TOTAL	
Male-Male Sex	2,659	75%	2,267	49%	149	47%	63	38%	5,138	60%
Injecting Drug Use	175	5%	776	17%	59	18%	9	5%	1,019	12%
Male-Male Sex/IDU	224	6%	332	7%	16	5%	7	4%	579	7%
Blood Recipient	79	2%	24	1%	1	0%	2	1%	106	1%
Heterosexual	90	3%	324	7%	35	11%	6	4%	455	5%
Perinatal	12	0%	56	1%	2	1%	2	1%	72	1%
Undetermined	291	8%	820	18%	57	18%	76	46%	1,244	14%
<i>Presumed Heterosexual</i>	184	5%	589	13%	47	15%	23	14%	843	10%
<i>Other</i>	107	3%	231	5%	10	3%	53	32%	401	5%
Male Subtotal	3,530 (41%)		4,599 (53%)		319 (4%)		165 (2%)		8,613 100%	
FEMALES:	White		Black		Hispanic		Other or Unknown		TOTAL	
Injecting Drug Use	129	24%	529	29%	15	16%	6	11%	679	27%
Blood Recipient	11	2%	9	0%	0	0%	0	0%	20	1%
Heterosexual	283	52%	747	41%	55	60%	19	34%	1104	44%
Perinatal	12	2%	47	3%	5	5%	1	2%	65	3%
Undetermined	112	20%	505	27%	17	18%	30	54%	664	26%
<i>Presumed Heterosexual</i>	97	18%	418	23%	15	16%	13	23%	543	21%
<i>Other</i>	15	3%	87	5%	2	2%	17	30%	121	5%
Female Subtotal	547 (22%)		1,837 (73%)		92 (4%)		56 (2%)		2,532 100%	
GRAND TOTAL	4,077 37%		6,436 58%		411 4%		221 2%		11,145 100%	

Figure 2: HIV-Related Deaths in Michigan, 1989-2002



Mortality Trends

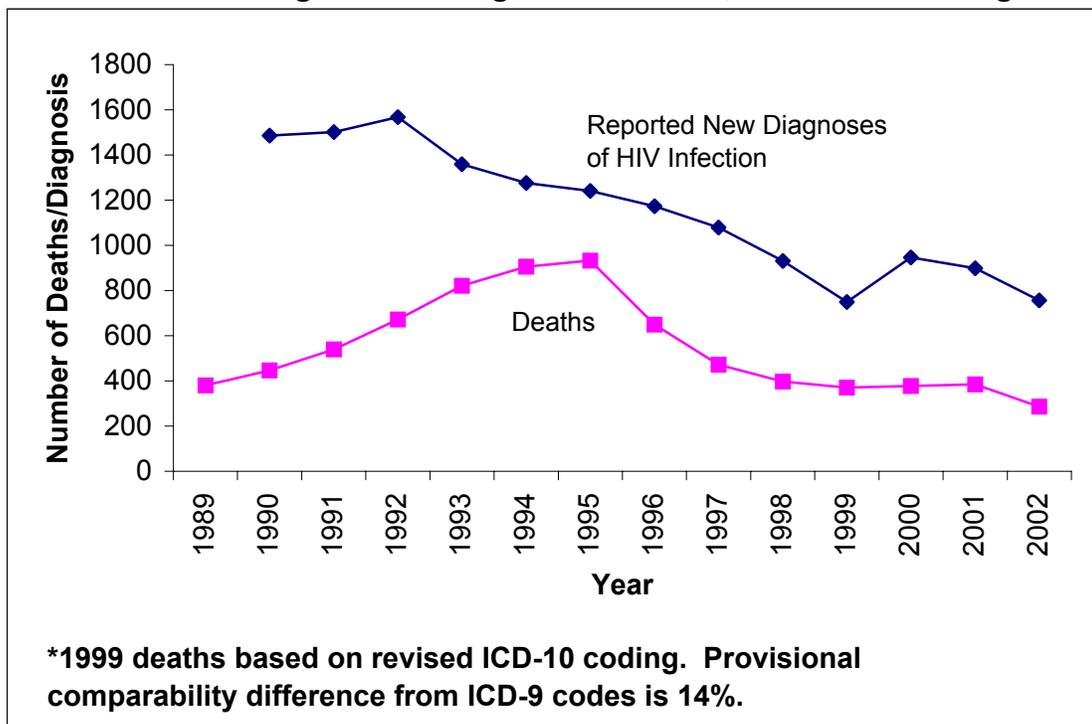
HIV-related deaths declined sharply among all groups between 1995 and 1997, and less sharply between 1998 and 2000. These data (MDCH HIV/AIDS reporting system) show the trend among white men, black men, black women and white women. There was statistical difference in the 1995-2001 declines among white men (79%), black men (65%), and women (47%). From 2001 to 2002 there was also a 30% decline in deaths among black men. There were too few deaths to show other groups.

TABLE 4: States and Territories With Most AIDS Cases Ever Reported to CDC, 1981-12/31/02

State	Cases	Rate ¹	State	Cases	Rate ¹	State	Cases	Rate ¹	State	Cases	Rate ¹
1. NY	155,755	820.8	6. IL	28,426	228.9	11. MA	17,774	279.9	16. OH	12,733	112.2
2. CA	128,064	378.1	7. PA	28,136	229.1	12. VA	14,959	211.3	17. MI ³	12,645	127.2
3. FL	90,233	564.6	8. PR ²	27,242	715.3	13. DC ²	14,882	2,601.5	18. NC	12,384	153.9
4. TX	59,772	286.7	9. GA	26,008	317.7	14. LA	14,624	327.2	19. SC	11,055	275.5
5. NJ	45,237	537.6	10. MD	25,358	478.8	15. CT	12,765	374.8	20. WA	10,473	177.7

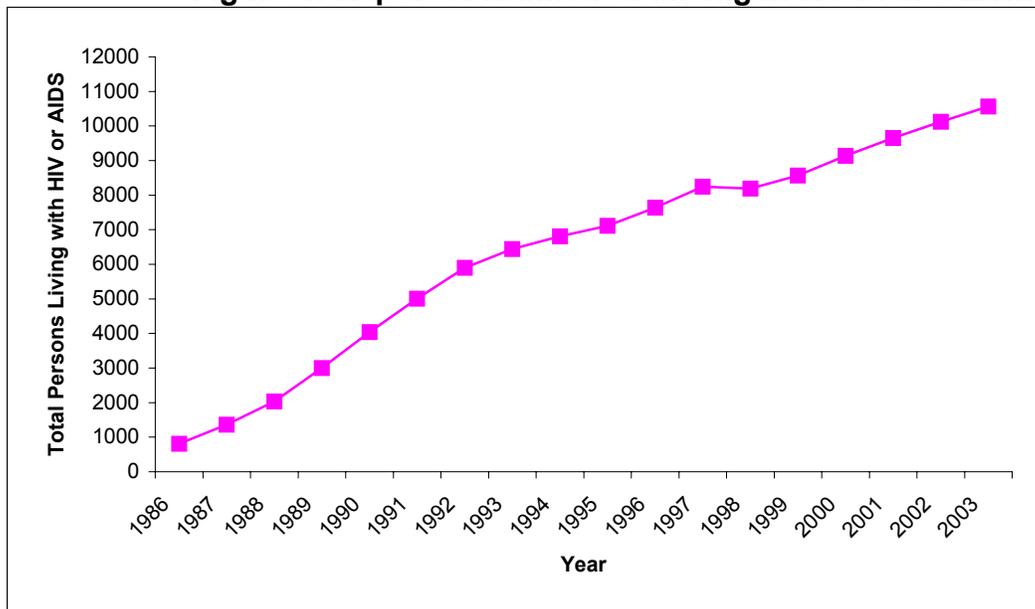
1. Cumulative Rate per 100,000 Population, 2000 Census. The average U.S. rate was 305.2.
 2. Abbreviations include PR for Puerto Rico, and DC for District of Columbia.
 3. Michigan annual rate per 100,000 population ranks 30th among U.S. states and territories.

Figure 3: Michigan HIV Deaths, and New HIV Diagnoses, by Year



Deaths and Diagnoses
 The numbers of deaths due to HIV infection and AIDS have declined 60 percent in 1995-97, an additional 10 percent in 1998-2000, and then 26% from 2001 to 2002, primarily due to effective therapies. Meanwhile, the number of persons diagnosed with HIV infection each year was roughly level between 1995-1997 at 1,100 persons, but has since declined to 756 cases.

Figure 4: Reported Number of Michigan Residents Living with HIV or AIDS



Number of Infected Persons Is Increasing
 The total number of persons reported with a diagnosis of HIV infection or AIDS is increasing. This is caused by the two factors shown in Figure 3: the number of persons diagnosed exceeds the number who die each year, leading to increased prevalence. Currently we estimate there are about 16,200 persons living with HIV or AIDS in Michigan. This graph shows 11,145 who have been diagnosed and reported.

TABLE 5: Characteristics of Michigan and U.S. Residents Ever Diagnosed with AIDS, 1981 to Date

	MI AIDS : 1981-1/1/2004			U.S. AIDS : 1981-12/31/2002 ¹		
	Cases	Percent	Rate ²	Cases	Percent	Rate ²
TOTAL	13,248	100%	133.3	859,000	100%	305.2
SEX						
Male	10,954	83%	224.8	702,448	82%	508.8
Female	2,294	17%	45.3	156,550	18%	109.2
Unknown	0	0%	---	2	0%	---
TRANSMISSION						
Male-Male Sex	6,521	49%	N/A	384,784	45%	N/A
Injecting Drug Use	2,897	22%	N/A	209,920	24%	N/A
Male-Male Sex/IDU	868	7%	N/A	54,224	6%	N/A
Blood Products ³	294	2%	N/A	15,144	2%	N/A
Heterosexual ⁴	1,260	10%	N/A	100,071	12%	N/A
Perinatal ⁵	96	1%	N/A	8,425	1%	N/A
Undetermined ⁶	1,312	10%	N/A	86,432	10%	N/A
AGE AT DIAGNOSIS						
0 - 4 years	71	1%	10.6	∞	N/A	N/A
5 -12 years	40	0%	3.3	∞	N/A	N/A
13 -19 years	91	1%	9.0	∞	N/A	N/A
20 -24 years	496	4%	77.0	∞	N/A	N/A
25 -29 years	1,696	13%	259.1	∞	N/A	N/A
30 -34 years	2,653	20%	375.0	∞	N/A	N/A
35 -39 years	2,926	22%	371.6	∞	N/A	N/A
40 -44 years	2,327	18%	286.9	∞	N/A	N/A
45 -49 years	1,430	11%	194.6	∞	N/A	N/A
50 -54 years	803	6%	126.8	∞	N/A	N/A
55 -59 years	361	3%	74.3	∞	N/A	N/A
60 -64 years	194	1%	51.4	∞	N/A	N/A
65 and over	160	1%	13.1	∞	N/A	N/A
Unknown	----	----	----	∞	N/A	N/A
RACE/ETHNICITY						
White, Non-Hisp.	5,272	40%	67.5	∞	N/A	N/A
Black, Non-Hisp.	7,493	57%	534.4	∞	N/A	N/A
Hispanic	404	3%	124.7	∞	N/A	N/A
Asian/Pacific Islander	38	0%	21.4	∞	N/A	N/A
American Indian	36	0%	67.4	∞	N/A	N/A
Unspecified	5	0%	2.9	∞	N/A	N/A

∞ Due to changes in the national statistics released by the Centers for Disease Control and Prevention these figures are no longer available.

1. U.S. figures are produced by the federal Centers for Disease Control and Prevention. Additional detail is available through the CDC web page at www.cdc.gov/nchstp/hiv_aids/stats/hasrlinc.htm.
2. Cumulative rates per 100,000 population are calculated using 2000 Census figures. Populations and rates are not available (N/A) for behaviors.
3. Blood products received for coagulation disorder (224 MI; 5,607 U.S.) or transfusion (70 MI; 9,537 U.S.).
4. A heterosexual partner is known to be: an injecting drug user (464 MI; 31,351 U.S.), a bisexual man (62 MI; 4,088 U.S.), a recipient of infected blood products (33 MI; 1,650 U.S.), or HIV positive with unknown behavior history (701 MI; 60,982 U.S.)
5. Perinatal transmission occurs from HIV-infected mothers to infants before or at birth, or from breast milk.
6. Patient risks are under investigation, or no risk was identified. Included are persons with documented exposure in the health care setting (2 MI; 57 U.S.), or receipt of donor products other than blood (14 U.S.).

Table 6: Michigan Infants Born to HIV-Infected Mothers

Year of Birth	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003 ²
TOTAL										
Total Infants Reported	57	52	57	75	67	62	70	66	54	39
Total Mothers Reported	56	52	57	74	67	61	69	65	53	34
RESIDENCE AT TIME OF BIRTH¹										
Detroit MSA	43	32	44	53	47	39	52	39	34	29
Outside the Detroit MSA	14	20	13	22	20	23	18	27	20	10
RACE OF CHILD										
White, Non-Hispanic	10	10	8	16	13	11	13	10	10	6
Black, Non-Hispanic	45	42	47	57	50	45	50	48	38	29
Hispanic, Asian, Am. Indian, Unk.	2	0	2	2	4	6	7	8	6	4
1- Detroit Metropolitan Statistical Area includes Wayne, Oakland, Macomb, Monroe, Lapeer, and St. Clair counties.										
2- Data for 2003 is incomplete at this time.										

Figure 5: Efforts to Prevent HIV Transmission to Infants

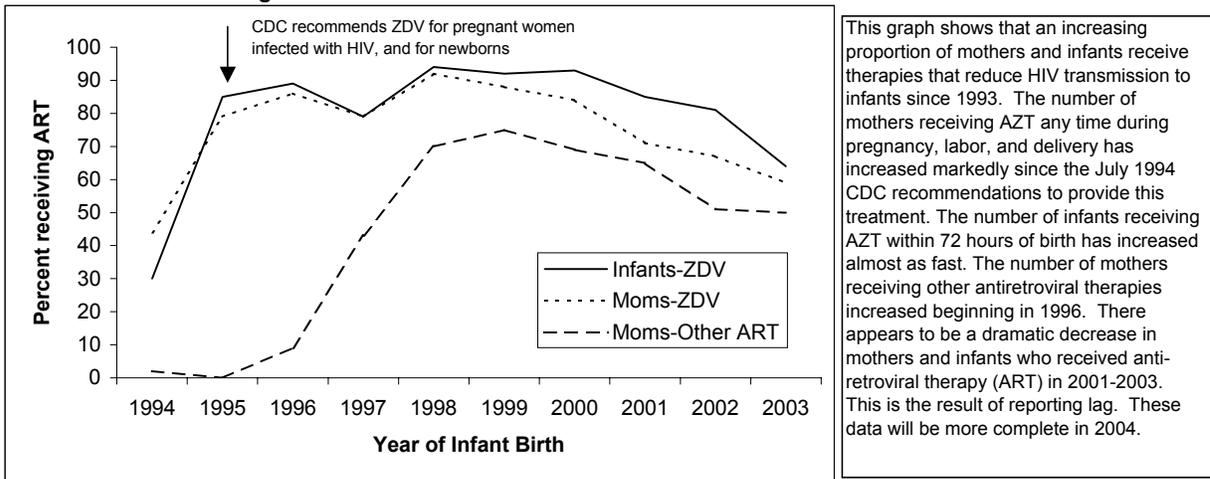
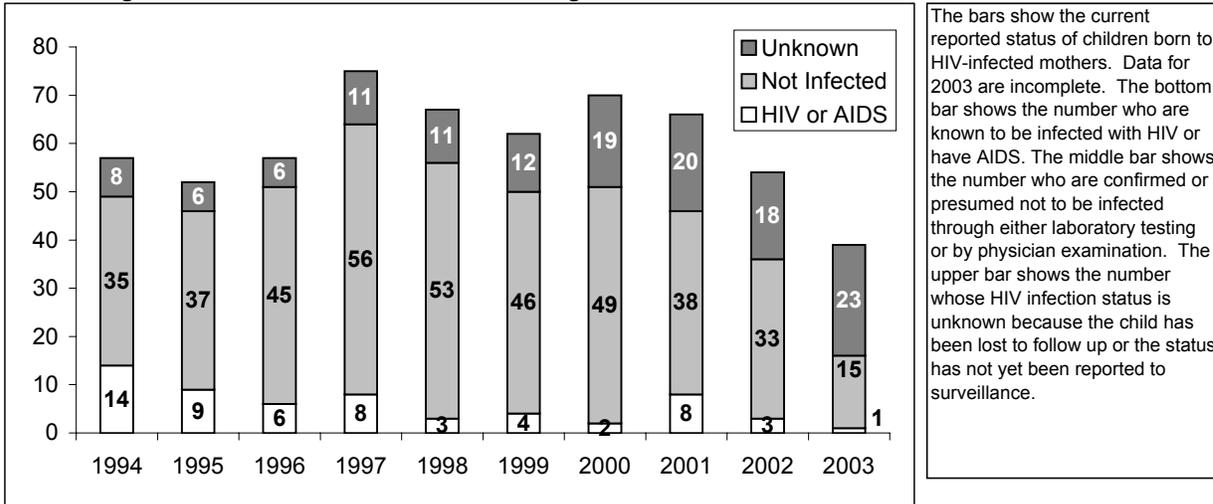


Figure 6: Confirmed Infection Status Among Infants Born to HIV-Infected Mothers



TECHNICAL NOTES

Reports of HIV infection and AIDS are submitted to state and local health departments under Michigan law by providers making the diagnoses. Confidential case reports have been actively solicited for AIDS since 1986 and for HIV infection since April 1992. HIV reports passively collected between April 1989 and March 1992 are also included in these calculations. Anonymous HIV reports (without name or other identifier) are excluded from the calculations because we cannot estimate duplication, update status, or obtain missing data. A total of 1,419 complete anonymous reports are currently in our database.

Footnotes for Table 1:

1. This estimate includes all persons living in Michigan at diagnosis of HIV or AIDS, including those not reported or not yet diagnosed. All estimates are rounded to the nearest ten, and the minimum estimate given is 10. The formula used to gain these estimates was updated October 2003 and January 2004 so that numbers are only rounded at the end of the estimate calculation and so that cases with no identified risk are no longer part of the equation. This may result in minor variations when compared to past estimates.
2. Rates are calculated per 100,000 population in 2000.
3. Includes reports that contain patient name or are otherwise unduplicated.
4. Age, sex, race, and behavior percentages are calculated excluding missing data. The percentages of total cases missing this demographic information are given in parentheses.
5. The IDU risk category is further sub-divided to indicate the number and percentage of persons who also had a sexual partner who is considered to be a "high risk" heterosexual, (i.e., partner is an IDU, a bisexual male (for females), a recipient of HIV infected blood or blood products or a person who is known to be infected with HIV).
6. The heterosexual category includes only those persons with "high risk" heterosexual partners as defined in footnote 5.
7. This subset of undetermined includes persons who had heterosexual sex but their partner(s)' risk is unknown. This includes unconfirmed exposures in the healthcare setting (1).
8. Includes persons with confirmed exposure in the health care setting (2) and pediatric cases with probable sexual mode of transmission (3).

HIV Prevalence Estimates for Michigan

MDCH estimates that there are up to 16,200 HIV-infected persons (including those with AIDS) living in Michigan. This estimate is based on adding the following three components and rounding: 1) the number of cases living with HIV/AIDS as of 01/01/04 (11,145), 2) the number of known HIV+ cases not yet reported, estimated at 20 percent of the reported living HIV/AIDS cases, and 3) the number of HIV+ cases that have not yet been tested, estimated at 25 percent of the total cases living with HIV/AIDS (identical to the CDC estimate). The estimate of HIV-infected persons has increased from the estimate given in January of 2003. This is the result of an increase in the number of reported cases, currently living in Michigan.

Categorical estimates of HIV infection are calculated from the distribution of reported cases among each group of confidentially-reported persons living with HIV or AIDS. The proportion of total cases is multiplied by 16,200. For example, 77 percent of combined HIV and AIDS reports are among men. Therefore, the number of HIV-infected men in Michigan is estimated to be $12,520 = (77\% \times 16,200)$. Since the estimates are rounded to the nearest 10, totals may not equal 16,200. The minimum estimate is 10.

TECHNICAL NOTES (Continued)

TABLES 1, 2, 3 AND FIGURE 1: HIV AND AIDS AMONG MICHIGAN RESIDENTS

These tables describe Michigan residents living with HIV infection or AIDS, by sex, mode of transmission, age, race, and residence. For tables 1 and 2, the estimated total number of HIV-infected persons is shown in column 2, the rate is shown in column 3, the numbers of persons reported living with AIDS is in column 4, and the number reported living with HIV infection is in column 5. The estimated number living with HIV or AIDS for each county (from column 2) is shown in Figure 1. In Michigan, there have been two cases in which exposure to HIV has been confirmed by the CDC to have occurred in the health care setting. There has been one case which was unable to be confirmed by the CDC so is considered to be a possible exposure in the health care setting.

TABLES 2 and 5: PERSONS EVER DIAGNOSED WITH AIDS

These tables describe all Michigan residents who were diagnosed with AIDS, most of whom have died. The final column of Table 2 (Cumulative AIDS) shows these cases by residence. Table 5 shows gender, race, mode of transmission, and age when diagnosed for Michigan and the U.S.

FIGURES 2 AND 3: HIV-RELATED DEATHS IN MICHIGAN, 1989-2002

Source: MDCH HIV/AIDS reporting system. The number of Michigan residents whose underlying cause of death is HIV or AIDS is shown, by race and sex (Figure 2), and total only (Figure 3). Deaths occurring from 1999 to 2001 are based on revised ICD-10 coding. The ICD-9/ICD-10 comparability ratio is 1.14. Since the codings are not 100% comparable, any changes in HIV/AIDS mortality between 1998 and 1999 should be interpreted with caution, because a portion of the change in mortality is directly attributable to changes in the coding (Grigg et al. Coding Changes and Apparent HIV/AIDS Mortality Trends in Florida, 1999. JAMA 2001; 286(15): 1839).

FIGURE 3: HIV INFECTIONS BY YEAR OF DIAGNOSIS

Figure 3 shows the estimated number of persons diagnosed with HIV infection each year, adjusted for reporting delays. The number of persons diagnosed with HIV infection was roughly level between 1995 and 1997 at 1,100 cases. Data before 1994 (a compressed reporting period) and after 1998 (too incomplete) are not reliable for making these estimates.

FIGURE 4: REPORTED NUMBER OF MICHIGAN RESIDENTS WITH HIV INFECTION OR AIDS

The total number of living persons with a diagnosis of HIV infection changes as some persons are newly diagnosed and some persons die (see Figure 3).

TABLE 6: PERINATAL DATA

Infants born to HIV-infected mothers are described, first by residence and race. Prevention efforts to identify infected women during pregnancy and to treat with AZT are listed next. Most of these infants are not themselves infected. Finally, the graph shows the confirmed infection status of these children.