

\* TABLE 1: Characteristics of Michigan Residents Living with HIV or AIDS

	Estimate of HIV Prevalence <sup>1</sup>	Estimated Prevalence Rate <sup>2</sup>	Reported Living with AIDS <sup>3</sup>		Reported Living with HIV not AIDS <sup>3</sup>	
			Number	Percent <sup>4</sup>	Number	Percent <sup>4</sup>
<b>MICHIGAN TOTAL</b>	<b>16,200</b>	163	6,415	100%	5,999	100%
<b>SEX</b>						
Male	12,420	255	5,065	79%	4,452	74%
Female	3,780	75	1,350	21%	1,547	26%
<b>BEHAVIOR</b>						
Male-Male Sex	7,500	N/A	3,120	49%	2,631	44%
Injecting Drug Use <sup>5</sup>	2,080	N/A	907	14%	689	11%
<i>IDU w/ heterosexual</i>	970	N/A	415	6%	325	5%
<i>IDU w/o heterosexual</i>	1,120	N/A	492	8%	364	6%
Male-Male Sex/IDU	730	N/A	309	5%	248	4%
Blood Products	200	N/A	92	1%	58	1%
Heterosexual <sup>6</sup>	2,150	N/A	819	13%	827	14%
<i>Partner IDU</i>	640	N/A	240	4%	251	4%
<i>Partner Bisexual</i>	130	N/A	40	1%	60	1%
<i>Partner Rec'd Bld</i>	50	N/A	20	0%	20	0%
<i>Partner HIV +</i>	1,320	N/A	519	8%	496	8%
Perinatal	190	N/A	44	1%	100	2%
Undetermined/Other <sup>4</sup>	Not Applicable	N/A	1,124	18%	1,446	24%
<i>Presumed Heterosexual<sup>7</sup></i>	Not Applicable	N/A	897	14%	1,030	17%
<i>Other<sup>8</sup></i>	Not Applicable	N/A	227	4%	416	7%
<b>AGE AT DIAGNOSIS</b>						
0 -12 years	190	10	37	1%	111	2%
13 -19 years	420	41	68	1%	255	4%
20 -24 years	1,550	241	333	5%	852	14%
25 -29 years	2,340	357	743	12%	1,048	17%
30 -34 years	3,050	431	1,211	19%	1,130	19%
35 -39 years	3,160	401	1,405	22%	1,015	17%
40 -44 years	2,440	301	1,141	18%	730	12%
45 -49 years	1,500	204	721	11%	430	7%
50 -54 years	880	139	433	7%	242	4%
55 -59 years	390	80	183	3%	113	2%
60 -64 years	170	45	87	1%	44	1%
65 years and over	100	8	53	1%	26	0%
Undetermined <sup>4</sup>	Not Applicable	N/A	0	0%	3	0%
<b>RACE / ETHNICITY</b>						
White, Non-Hisp.	5,820	75	2,330	37%	2,128	35%
Black, Non-Hisp.	9,490	677	3,748	59%	3,523	59%
Hispanic	610	188	260	4%	209	3%
Asian	80	45	32	1%	27	0%
American Indian	50	94	12	0%	30	1%
Unspecified/Other/Multi-race <sup>4</sup>	Not Applicable	N/A	33	(1%)	82	1%

\* See Technical Notes for footnotes to Table 1.

**TABLE 2: Michigan Residents Reported Living with HIV or AIDS by County, as of 10/1/06  
 and Residents Ever Diagnosed with AIDS, 1981 to Present**

Residence at Time of Diagnosis	Estimate of HIV Prevalence <sup>1</sup>	Estimated Prevalence Rate <sup>2</sup>	Persons Living with AIDS <sup>3</sup>	Persons Living with HIV not AIDS <sup>3</sup>	Persons Ever Diagnosed with AIDS
<b>Total Michigan</b>	<b>16,200</b>	<b>163.0</b>	<b>6,415</b>	<b>5,999</b>	<b>14,770</b>
Alcona	10	----	0	0	3
Alger	10	----	1	0	1
Allegan	90	85.2	40	28	79
Alpena	10	----	1	1	8
Antrim	10	----	5	3	10
Arenac	10	----	1	1	4
Baraga	10	----	4	2	8
Barry	30	52.9	13	7	25
Bay	70	63.5	22	29	55
Benzie	10	----	0	1	2
Berrien	290	178.5	112	94	208
Branch	20	43.7	1	10	13
Calhoun	130	94.2	47	46	112
Cass	40	78.3	12	14	21
Charlevoix	20	76.7	5	7	7
Cheboygan	10	----	4	1	6
Chippewa	10	----	5	4	8
Clare	20	64.0	5	7	9
Clinton	50	77.2	14	20	28
Crawford	10	----	2	0	4
Delta	20	51.9	7	5	9
Dickinson	10	----	1	0	5
Eaton	60	57.9	17	24	35
Emmet	10	----	5	3	9
Genesee	600	137.6	204	230	463
Gladwin	10	----	5	1	7
Gogebic	10	----	0	1	7
Grand Traverse	60	77.3	22	23	41
Gratiot	10	----	3	2	9
Hillsdale	10	----	3	5	15
Houghton	10	----	4	2	8
Huron	10	----	2	0	8
Ingham	480	171.8	145	201	350
Ionia	20	32.5	10	4	21
Iosco	10	----	1	2	2
Iron	10	----	0	0	2
Isabella	30	47.4	9	10	21
Jackson	150	94.7	50	57	105
Kalamazoo	340	142.5	119	129	255
Kalkaska	10	----	2	3	5
Kent	920	160.2	351	310	729
Keweenaw	10	----	0	0	0
Lake	10	----	6	3	11
Lapeer	30	34.1	12	10	23
Leelanau	10	----	4	0	14
Lenawee	60	60.7	20	20	41
Livingston	50	31.9	17	18	37
Luce	10	----	0	0	1

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Residence at Time of Diagnosis	Estimate of HIV Prevalence <sup>1</sup>	Estimated Prevalence Rate <sup>2</sup>	Persons Living with AIDS <sup>3</sup>	Persons Living with HIV not AIDS <sup>3</sup>	Persons Ever Diagnosed with AIDS
<b>Total Michigan</b>	<b>16,200</b>	<b>163.0</b>	<b>6,415</b>	<b>5,999</b>	<b>14,770</b>
Mackinac	10	-----	1	0	2
Macomb	640	81.2	244	215	551
Manistee	20	81.5	8	4	12
Marquette	30	46.4	6	12	20
Mason	20	70.7	8	4	11
Mecosta	20	49.3	5	8	14
Menominee	10	-----	0	3	4
Midland	30	36.2	15	8	30
Missaukee	10	-----	1	3	3
Monroe	70	48.0	29	18	67
Montcalm	30	49.0	12	6	25
Montmorency	10	-----	3	0	4
Muskegon	130	76.4	46	50	102
Newaygo	20	41.8	11	6	23
Oakland	1,820	152.4	670	641	1,369
Oceana	10	-----	4	6	9
Ogemaw	10	-----	1	1	3
Ontonagon	10	-----	1	1	1
Osceola	10	-----	2	2	8
Oscoda	10	-----	0	1	2
Otsego	10	-----	5	4	9
Ottawa	120	50.4	49	36	107
Presque Isle	10	-----	1	1	3
Roscommon	20	78.5	9	3	15
Saginaw	200	95.2	68	75	174
Sanilac	20	44.9	7	4	14
Schoolcraft	10	-----	0	1	2
Shiawassee	30	41.8	12	8	21
St. Clair	110	67.0	33	45	86
St. Joseph	40	64.1	15	13	35
Tuscola	10	-----	3	4	12
Van Buren	60	78.7	22	22	46
Washtenaw	540	167.2	196	192	404
Wayne	1,600	144.2	653	502	1,427
City of Detroit	6,890	724.3	2,641	2,317	6,669
Wexford	10	-----	6	4	8
PRISONS <sup>4</sup>	760	N/A	315	437	633
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**

<b>MALES:</b>	<b>White</b>		<b>Black</b>		<b>Hispanic</b>		<b>Other or Unknown</b>		<b>TOTAL</b>	
Male-Male Sex	2,899	75%	2,602	51%	180	50%	70	44%	5,751	60%
Injecting Drug Use	173	4%	731	14%	47	13%	14	9%	965	10%
Male-Male Sex/IDU	220	6%	315	6%	14	4%	8	5%	557	6%
Blood Recipient	86	2%	33	1%	4	1%	3	2%	126	1%
Heterosexual	91	2%	342	7%	35	10%	4	3%	472	5%
Perinatal	15	0%	61	1%	2	1%	3	2%	81	1%
Undetermined/Other	390	10%	1,041	20%	76	21%	58	36%	1,565	16%
<i>Presumed Heterosexual</i>	243	6%	762	15%	62	17%	26	16%	1,093	11%
<i>Other</i>	147	4%	279	5%	14	4%	32	20%	472	5%
<b>MALE TOTAL</b>	<b>3,874</b>	<b>(41%)</b>	<b>5,125</b>	<b>(54%)</b>	<b>358</b>	<b>(4%)</b>	<b>160</b>	<b>(2%)</b>	<b>9,517</b>	<b>100%</b>
<b>FEMALES:</b>	<b>White</b>		<b>Black</b>		<b>Hispanic</b>		<b>Other or Unknown</b>		<b>TOTAL</b>	
Injecting Drug Use	105	18%	500	23%	18	16%	8	14%	631	22%
Blood Recipient	14	2%	6	0%	3	3%	1	2%	24	1%
Heterosexual	302	52%	794	37%	58	52%	20	36%	1174	41%
Perinatal	13	2%	43	2%	6	5%	1	2%	63	2%
Undetermined/Other	150	26%	803	37%	26	23%	26	46%	1005	35%
<i>Presumed Heterosexual</i>	126	22%	668	31%	22	20%	18	32%	834	29%
<i>Other</i>	24	4%	135	6%	4	4%	8	14%	171	6%
<b>FEMALE TOTAL</b>	<b>584</b>	<b>(20%)</b>	<b>2,146</b>	<b>(74%)</b>	<b>111</b>	<b>(4%)</b>	<b>56</b>	<b>(2%)</b>	<b>2897</b>	<b>100%</b>
<b>GRAND TOTAL</b>	<b>4,458</b>	<b>36%</b>	<b>7,271</b>	<b>59%</b>	<b>469</b>	<b>4%</b>	<b>216</b>	<b>2%</b>	<b>12,414</b>	<b>100%</b>

## TECHNICAL NOTES

**NOTE:** In July 2006, the HIV surveillance program upgraded its surveillance system software from a DOS-based system called HARS (HIV/AIDS Reporting System) to a restricted-access browser-based system called eHARS (the "e" stands for Evaluation). This change in software necessitated changes in the way HIV and AIDS cases are counted (e.g. race is now required for all cases reported after January 1, 2002 in order for the cases to be counted). Thus, the case counts included in the October 2006 statistics may be different than expected. For example, there was a total reported increase of only 70 persons living with HIV/AIDS in Michigan between July 2006 and October 2006 (an increase of 79 AIDS cases and a decrease of 9 HIV, non-AIDS cases). This can be compared to an increase of 162 persons living with HIV/AIDS between April 2006 and July 2006, just before the conversion. We believe that the smaller than expected increase this quarter is due to the change in software systems and is not truly representative of changes in the epidemic in Michigan. Throughout the next quarter, we plan to resolve the discrepancies between the two software systems in order to provide statistics that are more representative in January. Decreases in the number of reported cases also occur as the result of routine, ongoing deduplication of cases between other states and Michigan. This deduplication was last applied to our surveillance system prior to the release of the April 2006 statistics.

### HIV Prevalence Estimate for Michigan

MDCH estimates that there are up to 16,200 HIV-infected persons (including those with AIDS) living in Michigan. This estimate includes all persons living in Michigan at diagnosis of HIV or AIDS, including those not reported or not yet diagnosed. It is supported by national estimates of HIV infection and rate of new AIDS diagnoses and deaths. Categorical estimates of HIV prevalence are calculated from the distribution of reported cases among each group of confidentially reported persons living with HIV or AIDS.

Since April 2005, MDCH has been implementing PA 514, which requires laboratories to report HIV test results. The addition of laboratory reporting to the HIV surveillance system has increased the case reports received and has improved reporting completeness, bringing the number of reported cases closer to the previously calculated prevalence estimates. However, since this procedure is still new, MDCH has not had enough months of complete laboratory reporting to fully evaluate the impact of PA 514 on the HIV/AIDS prevalence estimates. Consequently, MDCH does not have sufficient data to recalculate the current prevalence estimate and it remains at 16,200. This estimate will be re-calculated for the January 2007 statistics at which time MDCH should have sufficient data to evaluate the impact of PA 514. The estimate is based on adding the following three components and rounding: 1) the number of cases living with HIV/AIDS, 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).

### 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).