

TABLE 1. Demographic Information on Prevalent HIV/AIDS Cases Living in MUSKEGON CO. at Diagnosis

	EST PREV*	REPORTED PREVALENCE †					CENSUS 2008 ESTIMATES	
		HIV, not AIDS		AIDS		Total	Rate per 100,000[§]	Number Percent
	Number	Number Percent	Number Percent	Number Percent	Number Percent		Number Percent	
RACE/ ETHNICITY[¶]								
White	70	29 (47%)	23 (42%)	52 (44%)	37.6	138,118	(79%)	
Black	70	25 (40%)	28 (51%)	53 (45%)	229.3	23,114	(13%)	
Hispanic	10	5 (8%)	<5 **	6 (5%)	---	7,825	(4%)	
Asian/PI	0	0 (0%)	0 (0%)	0 (0%)	**	949	(1%)	
Am Indian/AN	10	0 (0%)	<5 **	<5 **	**	1,237	(1%)	
Multi/Unk	10	<5 **	<5 **	5 (4%)	N/A	3,101	(2%)	
SEX & RACE								
Males	120	45 (73%)	42 (76%)	87 (74%)	100.4	86,646	(50%)	
White Males	60	27 (44%)	19 (35%)	46 (39%)	67.3	68,335	(39%)	
Black Males	40	12 (19%)	20 (36%)	32 (27%)	278.9	11,475	(7%)	
Hispanic Males	10	<5 **	0 (0%)	<5 **	**	4,130	(2%)	
Other Males	10	<5 **	<5 **	5 (4%)	---	2,706	(2%)	
Females	40	17 (27%)	13 (24%)	30 (26%)	34.2	87,698	(50%)	
White Females	10	<5 **	<5 **	6 (5%)	---	69,783	(40%)	
Black Females	30	13 (21%)	8 (15%)	21 (18%)	180.4	11,639	(7%)	
Hispanic Fmls	10	<5 **	<5 **	<5 **	**	3,695	(2%)	
Other Females	10	<5 **	0 (0%)	<5 **	**	2,581	(1%)	
RISK*								
Male-Male Sex	80	30 (48%)	25 (45%)	55 (47%)	N/A	N/A	N/A	
Injection Drug Use	20	6 (10%)	8 (15%)	14 (12%)	N/A	N/A	N/A	
MSM/IDU	10	<5 **	<5 **	7 (6%)	N/A	N/A	N/A	
Blood Products	0	0 (0%)	0 (0%)	0 (0%)	N/A	N/A	N/A	
Heterosexual	30	15 (24%)	9 (16%)	24 (21%)	N/A	N/A	N/A	
HRH	20	13 (21%)	5 (9%)	18 (15%)	N/A	N/A	N/A	
PH-Female	10	<5 **	<5 **	6 (5%)	N/A	N/A	N/A	
Perinatal	10	<5 **	<5 **	<5 **	N/A	N/A	N/A	
Undetermined	20	5 (8%)	8 (15%)	13 (11%)	N/A	N/A	N/A	
PH-Male	10	<5 **	<5 **	5 (4%)	N/A	N/A	N/A	
Unknown	10	<5 **	<5 **	8 (7%)	N/A	N/A	N/A	
AGE AT HIV DIAGNOSIS								
0 - 12 years	10	<5 **	<5 **	<5 **	N/A	N/A	N/A	
13 - 19 years	10	<5 **	<5 **	5 (4%)	N/A	N/A	N/A	
20 - 24 years	20	8 (13%)	<5 **	12 (10%)	N/A	N/A	N/A	
25 - 29 years	30	13 (21%)	12 (22%)	25 (21%)	N/A	N/A	N/A	
30 - 39 years	50	21 (34%)	18 (33%)	39 (33%)	N/A	N/A	N/A	
40 - 49 years	30	10 (16%)	14 (25%)	24 (21%)	N/A	N/A	N/A	
50 - 59 years	10	<5 **	<5 **	5 (4%)	N/A	N/A	N/A	
60 years and over	10	<5 **	<5 **	<5 **	N/A	N/A	N/A	
Unspecified	0	0 (0%)	0 (0%)	0 (0%)	N/A	N/A	N/A	
TOTAL	160	62 (100%)	55 (100%)	117 (100%)	67	174,344 (100%)		

*See page 4 for descriptions of prevalence estimate calculations and new risk category groupings. Risk categories used in Michigan are newly defined as of the July 2007 quarter.

† Includes reports that contain patient name or are otherwise unduplicated. <5 and ** = 1, 2, 3, or 4 cases.

§ To calculate "1 out of x" statements, divide the census number by total reported prevalence. For example, for non-Hispanic whites: 138,118 / 52 = 2,656. Thus, 1 out of every 2,656 non-Hispanic white persons in MUSKEGON CO. are living with HIV. Rates and "1 out of x" statements are not reliable for <10 cases. Thus, rates for <10 cases are shown as "---".

¶ In this report, persons described as white, black, Asian/Pacific Islander (PI), or American Indian/Alaska Native (AN) are all non-Hispanic; persons described as Hispanic might be of any race.

TABLE 2. Sex, Race, and Risk Among Prevalent HIV/AIDS Cases in MUSKEGON CO.

MALES	White	Black	Hispanic	Other or Unknown	Male Subtotal
Male-Male sex	35 (76%)	17 (53%)	<5 **	<5 **	55 (63%)
Injecting Drug Use	<5 **	6 (19%)	<5 **	0 (0%)	8 (9%)
Male-Male Sex/IDU	5 (11%)	<5 **	0 (0%)	<5 **	7 (8%)
Blood Products	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Heterosexual*	<5 **	<5 **	<5 **	0 (0%)	<5 **
Perinatal	0 (0%)	<5 **	0 (0%)	<5 **	<5 **
Undetermined	<5 **	5 (16%)	0 (0%)	<5 **	10 (11%)
<i>PH-Male</i>	<5 **	<5 **	0 (0%)	<5 **	5 (6%)
<i>Unknown</i>	<5 **	<5 **	0 (0%)	0 (0%)	5 (6%)
Male Subtotal	46 (53%)	32 (37%)	<5 **	5 (6%)	87 (100%)
FEMALES	White	Black	Hispanic	Other or Unknown	Female Subtotal
Injecting Drug Use	<5 **	5 (24%)	0 (0%)	0 (0%)	6 (20%)
Blood Products	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Heterosexual	<5 **	13 (62%)	<5 **	<5 **	20 (67%)
<i>HRH</i>	<5 **	9 (43%)	<5 **	<5 **	14 (47%)
<i>PH-Female</i>	<5 **	<5 **	<5 **	0 (0%)	6 (20%)
Perinatal	0 (0%)	<5 **	0 (0%)	0 (0%)	<5 **
Undetermined*	<5 **	<5 **	0 (0%)	0 (0%)	<5 **
Female Subtotal	6 (20%)	21 (70%)	<5 **	<5 **	30 (100%)
TOTAL	White	Black	Hispanic	Other or Unknown	Risk Total
Male-Male sex	35 (67%)	17 (32%)	<5 **	<5 **	55 (47%)
Injecting Drug Use	<5 **	11 (21%)	<5 **	0 (0%)	14 (12%)
Male-Male Sex/IDU	5 (10%)	<5 **	0 (0%)	<5 **	7 (6%)
Blood Products	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Heterosexual	5 (10%)	15 (28%)	<5 **	<5 **	24 (21%)
<i>HRH</i>	<5 **	11 (21%)	<5 **	<5 **	18 (15%)
<i>PH-Female</i>	<5 **	<5 **	<5 **	0 (0%)	6 (5%)
Perinatal	0 (0%)	<5 **	0 (0%)	<5 **	<5 **
Undetermined	5 (10%)	7 (13%)	0 (0%)	<5 **	13 (11%)
<i>PH-Male</i>	<5 **	<5 **	0 (0%)	<5 **	5 (4%)
<i>Unknown</i>	<5 **	5 (9%)	0 (0%)	0 (0%)	8 (7%)
RACE TOTAL	52 (44%)	53 (45%)	6 (5%)	6 (5%)	117 (100%)

*In the male subset all cases in the heterosexual category are HRH because the PH-Female category is not applicable to males and, likewise, in the female subset, all cases in the undetermined category are of unknown risk because the PH-Male category is not applicable to females. See page 4 for additional details about the changes to Michigan's risk categories.

TABLE 3. New Diagnoses, Deaths, and Prevalence of HIV/AIDS in MUSKEGON CO. by Year

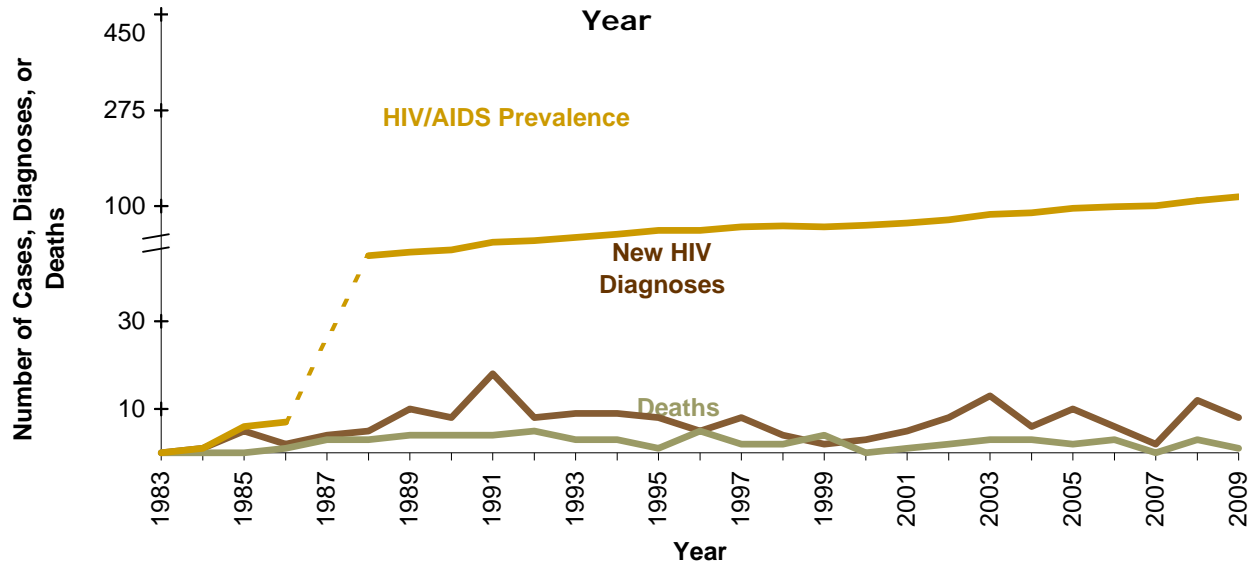
Year	<i>HIV/AIDS</i>			<i>AIDS</i>		
	New HIV Diagnoses	Deaths	Prevalence	New AIDS Diagnoses	Deaths	Prevalence
1983	0	0	0	0	0	0
1984	1	0	1	0	0	0
1985	5	0	6	2	0	2
1986	2	1	7	2	1	3
1987	4	3	8	1	3	1
1988	5	3	10	3	2	2
1989	10	4	16	7	4	5
1990	8	4	20	5	4	6
1991	18	4	34	5	4	7
1992	8	5	37	4	5	6
1993	9	3	43	7	3	10
1994	9	3	49	8	3	15
1995	8	1	56	7	1	21
1996	5	5	56	8	5	24
1997	8	2	62	6	2	28
1998	4	2	64	1	2	27
1999	2	4	62	2	4	25
2000	3	0	65	3	0	28
2001	5	1	69	3	1	30
2002	8	2	75	5	2	33
2003	13	3	85	8	3	38
2004	6	3	88	2	3	37
2005	10	2	96	10	2	45
2006	6	3	99	8	3	50
2007	2	0	101	4	0	54
2008	12	3	110	2	3	53
2009	8	1	117	4	1	56
2010	1	1	117	0	1	55
TOTAL	180	63		117	62	

The prevalence of HIV in Michigan has steadily increased, since persons with HIV are living longer. This is largely due to improved anti-retroviral therapy.

The increase in HIV prevalence is also reflected in Figure 1 on page 4, which shows that the number of persons diagnosed, while stable for the last several years, is greater than the number of deaths each year. This directly contributes to the increase in prevalence. The current reported prevalence of HIV/AIDS in MUSKEGON CO. is 117. The prevalence of AIDS, which is a subset of HIV/AIDS prevalence, is 55.

As implied, the HIV/AIDS section displays data on all persons with HIV, including those with AIDS, as well as those who have not been diagnosed with AIDS. Thus, persons represented in the AIDS section are also represented in the HIV/AIDS section. The number of reported deaths includes deaths directly attributable to presence of HIV/AIDS as well as deaths due to other causes.

NOTE: Reporting for recent years may not be complete. Data are not adjusted to account for reporting delays.

FIGURE 1. New Diagnoses, Deaths, and Prevalence of HIV/AIDS in MUSKEGON CO. by**TABLE 4. Comparison of HIV/AIDS Prevalence in MUSKEGON CO. to State**

Residence at Diagnosis	Estimated Prevalence	Reported Prevalence				Cumulative AIDS
		HIV, not AIDS	AIDS	Total	Rate	
Muskegon Co.	160	62	55	117	67	117
Michigan Total	19,500	6,846	8,049	14,895	149	17,184

ADDITIONAL NOTES

Prevalence Estimate Calculations

HIV prevalence estimates include all persons living in MUSKEGON CO. at diagnosis of HIV or AIDS and incorporates an approximation of those not reported or not yet diagnosed. All estimates are rounded to the nearest ten, and the minimum estimate given is 10. Prevalence estimates were most recently revised in January 2010, so the estimates in this report may vary in comparison to reports published before the revision.

Risk Groups

In June 2007, the CSTE issued a position statement proposing the creation of a "presumed heterosexual" category. As a result, the following changes were made to Michigan's HIV risk categories.

Heterosexual risk is made up of two sub-categories, (1) HRH [High Risk Heterosexual]: Males and females whose sexual partners are known to be HIV-infected or at high risk for HIV. The partners meet one of the following criteria: a history of sexual contact with bi-sexual males (for females), IDU, hemophiliacs, HIV+ transfusion recipients or other HIV+ persons of unknown risk and (2) PH [Presumed Heterosexual]-female: Females who are not injection drug users and whose only reported risk is heterosexual contact, but their male partners' risk and HIV status are unknown.

Undetermined risk is made up of two sub-categories, (1) PH [Presumed Heterosexual]-Male: Males whose only reported risk is heterosexual contact, and their female partners' risk and HIV status are unknown and (2) Unknown: Males and Females with no identified risk.



Michigan Department of Community Health
HIV/STD/VH/TB Epidemiology Section
Division of Communicable Disease
Bureau of Epidemiology
<http://www.michigan.gov/hivstd>

Lansing Office 201 Townsend St., 5th Floor
Lansing, MI 48913
517-335-8165

Detroit Office 1151 Taylor St., Room 211B
Detroit, MI 48202
313-876-0353

Jennifer M. Granholm, Governor
Janet Olszewski, Director