

BIANNUAL HIV SURVEILLANCE REPORT

BERRIEN COUNTY

January 2013

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HIV/STD/VH/TB Epidemiology Section
Division of Communicable Disease
Bureau of Disease Control, Prevention and Epidemiology
Michigan Department of Community Health

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

MDCH - South Oakland Health Center
27725 Greenfield Rd, Office 57A
Southfield, MI 48076
248-424-7910

****WEBSITE****

<http://www.michigan.gov/hivstd>

****WEBSITE****



General HIV

AIDS (Acquired Immune Deficiency Syndrome)

Now referred to as stage 3 HIV infection (see "HIV Infection Stages" below).

HIV (Human Immunodeficiency Virus)

Diagnosis with HIV requires both a positive HIV screening and positive supplemental antibody test or detectable quantity on a virologic test. A standard case definition for HIV infection is used by all states for surveillance. Specific information is required in order to count a case of HIV infection, including a method to uniquely identify an individual. Each case is classified in a HIV infection stage (see below). Once a case reaches stage 3 (AIDS), the case is always considered stage 3 for surveillance purposes, even if his/her health improves (MMWR; December 5, 2008 / Vol. 57 / No. RR--10 / Pg. 1 - 12).

HIV Infection Stages

Stage 1: A case does not have any of the conditions associated with severe HIV infection (called an AIDS-defining condition) and has ≥ 500 CD4 cells/ μ l.

Stage 2: A case has no AIDS-defining condition, but the level of CD4 cells has fallen to 200-499 cells/ μ l.

Stage 3: Diagnosis with any one of 26 AIDS-defining conditions which are indicative of a severe immune deficiency, or a laboratory test demonstrating severe immune deficiency: CD4 count <200 cells/ μ l or CD4 percent $<14\%$. **Previously referred to as AIDS.**

Stage unknown: A case of HIV without information available on CD4 levels or AIDS-defining conditions.

Prevalence Estimate Calculations

HIV prevalence estimates include all persons living in BERRIEN CO. at diagnosis of HIV Infection (any stage) 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 2013, so the estimates in this report may vary in comparison to reports published before the revision.

Risk Transmission Categories - Definitions

Blood Recipients

Hemophiliacs, blood transfusion recipients, and organ recipients who received blood products prior to 1985 & persons documented to have ever received an infected organ or unit of blood.

Heterosexual Contact (HC):

Heterosexual Contact w/ Female Risk (HCFR): Males whose female sexual partners are known to be HIV-infected or at high risk for HIV. These partners meet one of the following criteria: IDU, hemophiliac, HIV infected transfusion recipient, or other HIV infected person of unknown risk.

Heterosexual Contact w/ Male (HCM): Females who have had sex with a male regardless of what is known about the male's HIV status or behaviors.

Please note:

-Males whose only documented risk is sex with a female, and their female partner's risk and HIV status is unknown fall into the undetermined risk category.

-Exposure categories are only calculated at the state level due to small numbers at the county and city level. For more information regarding exposure categories, and how they differ from transmission categories, please refer to the statewide statistics.

Injection Drug Users (IDU)

Persons who have a history of injection drug use.

Men who have sex with men (MSM)

Males who have a history of sexual contact with other men.

MSM/IDU

MSM who also have a history of injection drug use.

Perinatal

HIV transmission from mother to child during birth or through breastfeeding.

Undetermined

Males and females with no identified risk.

Michigan Department
of Community Health



Rick Snyder, Governor
James K. Haveman, Director

TABLE 1. Demographic Information on Prevalent HIV Infection Cases Living in BERRIEN CO. at Diagnosis

	REPORTED PREVALENCE [†]								CENSUS 2011 ESTIMATES	
	EST PREV*	HIV Infection Non-Stage 3		HIV Infection Stage 3 (AIDS)		Total		Rate per 100,000 [§]	Num	Percent
	Num	Num	Percent	Num	Percent	Num	Percent			
RACE/ ETHNICITY[‡]										
White	80	24	25%	40	29%	64	27%	53.7	119,158	76%
Black	210	66	68%	90	66%	156	67%	651.8	23,932	15%
Hispanic	10	<5	**	6	4%	10	4%	136.8	7,308	5%
Asian/PI	0	0	0%	0	0%	0	0%	**	2,650	2%
Am Indian/AN	0	0	0%	0	0%	0	0%	**	743	<1%
Multi/Other/Unk	10	<5	**	<5	**	<5	**	N/A	3,150	2%
SEX & RACE										
Male	190	61	63%	79	58%	140	60%	183.1	76,459	49%
White Male	70	19	20%	33	24%	52	22%	89.2	58,281	37%
Black Male	100	37	38%	40	29%	77	33%	690.1	11,158	7%
Hispanic Male	10	<5	**	5	4%	8	3%	---	3,818	2%
Other Male	10	<5	**	<5	**	<5	**	**	3,202	2%
Female	120	36	37%	58	42%	94	40%	116.8	80,482	51%
White Female	20	5	5%	7	5%	12	5%	19.7	60,877	39%
Black Female	100	29	30%	50	36%	79	34%	618.4	12,774	8%
Hispanic Female	10	<5	**	<5	**	<5	**	**	3,490	2%
Other Female	10	<5	**	0	0%	<5	**	**	3,341	2%
RISK*										
Male-Male Sex (MSM)	80	28	29%	34	25%	62	26%	--	--	--
Injection Drug Use (IDU)	10	6	6%	5	4%	11	5%	--	--	--
MSM/IDU	10	<5	**	5	4%	7	3%	--	--	--
Blood Products	10	<5	**	0	0%	<5	**	--	--	--
Heterosexual Contact (HC)	110	35	36%	51	37%	86	37%	--	--	--
HCFR (Males)	20	9	9%	7	5%	16	7%	--	--	--
HCM (Females)	90	26	27%	44	32%	70	30%	--	--	--
Perinatal	10	<5	**	<5	**	<5	**	--	--	--
Undetermined	80	23	24%	41	30%	64	27%	--	--	--
AGE AT HIV DIAGNOSIS										
0 - 12 years	10	<5	**	<5	**	<5	**	--	--	--
13 - 19 years	20	8	8%	<5	**	12	5%	--	--	--
20 - 24 years	40	15	15%	17	12%	32	14%	--	--	--
25 - 29 years	40	13	13%	19	14%	32	14%	--	--	--
30 - 39 years	130	44	45%	51	37%	95	41%	--	--	--
40 - 49 years	60	14	14%	34	25%	48	21%	--	--	--
50 - 59 years	10	0	0%	9	7%	9	4%	--	--	--
60 years and over	10	<5	**	<5	**	<5	**	--	--	--
Unspecified	0	0	0%	0	0%	0	0%	--	--	--
TOTAL	310	97	100%	137	100%	234	100%	149	156,941	100%

*See front matter page i for descriptions of prevalence estimate calculations and risk category groupings. Risk categories used in Michigan are redefined as of January 2012. NOTE: Heterosexual contact for males includes only males whose sexual partners are known to be HIV infected or at high risk for HIV (HCFR). Heterosexual contact for females includes all females who have had sex with a male regardless of what is known about the male's HIV status or behaviors (HCM).

[†] 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: 119,158 / 64 = 1,862. Thus, 1 out of every 1,862 non-Hispanic white persons in BERRIEN 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 "--".

[§] Rates are not reported for risk categories and age at diagnosis because no reliable denominator data exist for these groups.

[¶] 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 Infection Cases Living in BERRIEN CO. at Diagnosis

	White		Black		Hispanic		Other or Unknown		All Male	
	Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent
MALE										
Male-Male sex	37	71%	22	29%	<5	**	<5	**	62	44%
Injection Drug Use	<5	**	5	6%	0	0%	0	0%	7	5%
MSM/IDU	5	10%	<5	**	0	0%	0	0%	7	5%
Blood Products	0	0%	<5	**	0	0%	0	0%	<5	**
Heterosexual Contact (HCFR)	<5	**	12	16%	0	0%	<5	**	16	11%
Perinatal	0	0%	<5	**	0	0%	0	0%	<5	**
Undetermined	5	10%	34	44%	7	88%	0	0%	46	33%
Male Subtotal	52	37%	77	55%	8	6%	<5	**	140	100%
FEMALE										
Injection Drug Use	<5	**	<5	**	<5	**	0	0%	<5	**
Blood Products	0	0%	0	0%	0	0%	0	0%	0	0%
Heterosexual Contact (HCM)	8	67%	60	76%	<5	**	<5	**	70	92%
Perinatal	0	0%	<5	**	0	0%	0	0%	<5	**
Undetermined	<5	**	15	19%	0	0%	0	0%	0	0%
Female Subtotal	12	16%	79	104%	<5	**	<5	**	76	100%
ALL										
Male-Male sex	37	58%	22	14%	<5	**	<5	**	62	29%
Injection Drug Use	<5	**	7	4%	<5	**	0	0%	11	5%
MSM/IDU	5	8%	<5	**	0	0%	0	0%	7	3%
Blood Products	0	0%	<5	**	0	0%	0	0%	<5	**
Heterosexual Contact (HC)	11	17%	72	46%	<5	**	<5	**	86	40%
HCFR (Males)	<5	**	12	8%	0	0%	<5	**	16	7%
HCM (Females)	8	13%	60	38%	<5	**	<5	**	70	32%
Perinatal	0	0%	<5	**	0	0%	0	0%	<5	**
Undetermined	8	13%	49	31%	7	70%	0	0%	46	21%
RACE ALL	64	30%	156	72%	10	5%	<5	**	216	100%

TABLE 3. New Diagnoses, Deaths, and Prevalence of HIV Infection in BERRIEN CO., by Year

Year	<i>HIV Infection (all stages)</i>			<i>HIV Infection Stage 3 (AIDS)</i>		
	New HIV Diagnoses	Deaths	Prevalence	New Stage 3 Diagnoses	Deaths	Prevalence
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	2	0	2	1	0	1
1986	7	2	7	4	2	3
1987	8	1	14	2	1	4
1988	12	7	19	7	7	4
1989	9	3	25	4	3	5
1990	26	3	48	9	3	11
1991	14	5	57	12	5	18
1992	18	2	73	11	2	27
1993	11	10	74	13	10	30
1994	17	9	82	13	7	36
1995	13	11	84	11	10	37
1996	17	7	94	13	7	43
1997	14	5	103	8	4	47
1998	16	7	112	10	6	51
1999	11	5	118	5	5	51
2000	22	6	134	14	4	61
2001	22	2	154	18	2	77
2002	17	7	164	13	7	83
2003	17	5	176	13	3	93
2004	12	7	181	10	6	97
2005	10	4	187	9	4	102
2006	14	7	194	12	5	109
2007	15	3	206	11	2	118
2008	10	3	213	7	3	122
2009	6	5	214	6	4	124
2010	5	4	215	11	3	132
2011	14	4	225	5	4	133
2012	9	0	234	4	0	137
TOTAL	368	134		256	119	

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 infection in BERRIEN CO. is 234. The prevalence of Stage 3 infection, which is a subset of the overall HIV infection prevalence, is 137.

As implied, the HIV infection section displays data on all persons with HIV, including those with Stage 3 infection, as well as those who have not progressed to Stage 3. Thus, persons represented in the Stage 3 section are also represented in the HIV infection section. The number of reported deaths includes deaths directly attributable to presence of HIV infection 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 Infection in BERRIEN CO., by Year

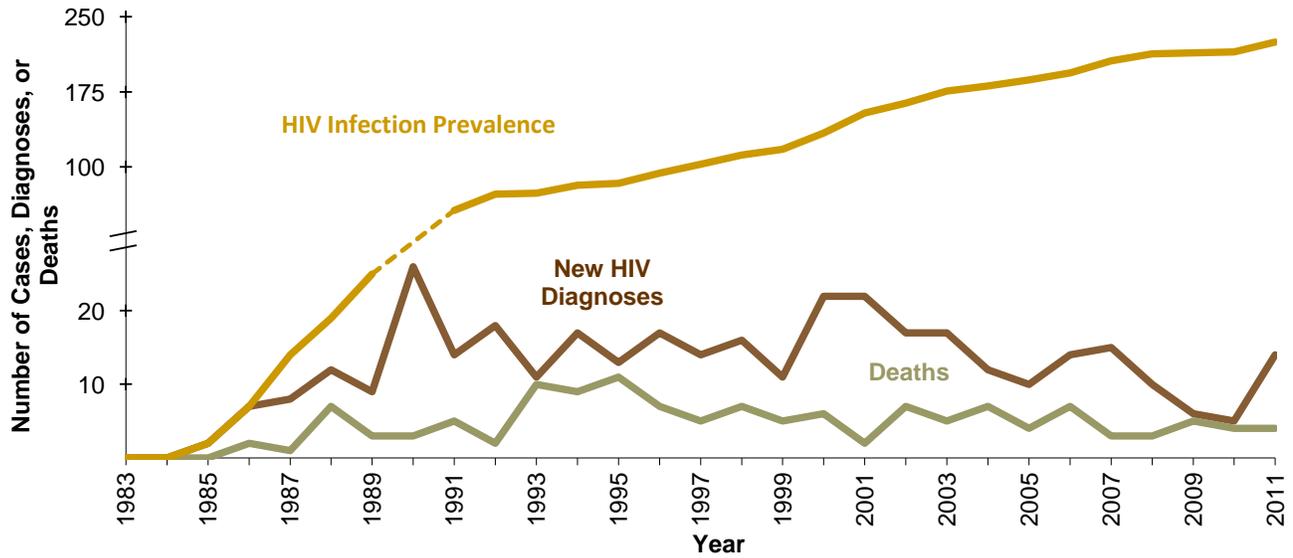


TABLE 4. Comparison of HIV Infection Prevalence in BERRIEN CO. to State

<i>Residence at Diagnosis</i>	<i>Estimated Prevalence</i>	<i>Reported Prevalence</i>				<i>Cumulative Stage 3</i>
		HIV Infection Non-Stage 3	HIV Infection Stage 3 (AIDS)	Total	Rate	
Berrien Co.	310	97	137	234	149	256
Michigan Total	19,800	7,169	7,912	15,081	153	18,130



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