

BIANNUAL HIV SURVEILLANCE REPORT, WAYNE CO. (excluding Detroit) January 2012

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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 WAYNE CO. (excl Detroit) 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 2011, 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.

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.

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.

TABLE 1. Demographic Information on Prevalent HIV Infection Cases Living in WAYNE CO. (excl Detroit) at Diagnosis**REPORTED PREVALENCE[†]**

	EST PREV*	HIV Infection Non-Stage 3		HIV Infection Stage 3 (AIDS)		Total		Rate per 100,000^{‡§}	CENSUS 2010	
	Num	Num	Percent	Num	Percent	Num	Percent		Num	Percent
RACE/ ETHNICITY[¶]										
White	980	297	49%	404	50%	701	49%	83	846,576	76%
Black	890	275	45%	362	44%	637	45%	436	146,228	13%
Hispanic	60	17	3%	23	3%	40	3%	86	46,581	4%
Asian/PI	20	<5	**	8	1%	12	1%	31	38,376	3%
Am Indian/AN	50	14	2%	19	2%	33	2%	890	3,708	<1%
Multi/Other/Unk	50	14	2%	22	3%	36	3%	N/A	25,338	2%
SEX & RACE										
Male	1,580	469	77%	660	81%	1,129	79%	210	536,482	48%
White Male	880	252	42%	374	46%	626	44%	151	413,798	37%
Black Male	610	189	31%	245	30%	434	30%	651	66,648	6%
Hispanic Male	40	14	2%	18	2%	32	2%	139	23,054	2%
Other Male	50	14	2%	23	3%	37	3%	112	32,982	3%
Female	410	138	23%	156	19%	294	21%	27	1,072,964	97%
White Female	100	45	7%	30	4%	75	5%	17	432,778	39%
Black Female	280	86	14%	117	14%	203	14%	255	79,580	7%
Hispanic Female	10	<5	**	5	1%	8	1%	---	23,527	2%
Other Female	10	<5	**	<5	**	8	1%	---	34,440	3%
RISK*										
Male-Male Sex (MSM)	1,070	314	52%	448	55%	762	54%	--	--	--
Injection Drug Use (IDU)	150	44	7%	65	8%	109	8%	--	--	--
MSM/IDU	80	19	3%	41	5%	60	4%	--	--	--
Blood Products	10	<5	**	5	1%	9	1%	--	--	--
Heterosexual Contact (HC)	320	92	15%	137	17%	229	16%	--	--	--
HCFR (Males)	50	11	2%	27	3%	38	3%	--	--	--
HCM (Females)	270	81	13%	110	13%	191	13%	--	--	--
Perinatal	20	5	1%	6	1%	11	1%	--	--	--
Undetermined	340	129	21%	114	14%	243	17%	--	--	--
AGE AT HIV DIAGNOSIS										
0 - 12 years	20	6	1%	7	1%	13	1%	--	--	--
13 - 19 years	80	40	7%	19	2%	59	4%	--	--	--
20 - 24 years	230	94	15%	67	8%	161	11%	--	--	--
25 - 29 years	340	100	16%	141	17%	241	17%	--	--	--
30 - 39 years	700	178	29%	321	39%	499	35%	--	--	--
40 - 49 years	420	120	20%	183	22%	303	21%	--	--	--
50 - 59 years	170	56	9%	64	8%	120	8%	--	--	--
60 years and over	30	10	2%	14	2%	24	2%	--	--	--
Unspecified	10	<5	**	0	0%	<5	**	--	--	--
TOTAL	1,990	607	100%	816	100%	1,423	100%	129	1,106,807	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: 846,576 / 701 = 1,208. Thus, 1 out of every 1,208 non-Hispanic white persons in WAYNE CO. (excl Detroit) 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 WAYNE CO. (excl Detroit) at Diagnosis

	White		Black		Hispanic		Other or Unknown		All Male	
	Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent
MALE										
Male-Male sex	461	74%	254	59%	23	72%	24	65%	762	67%
Injection Drug Use	26	4%	33	8%	<5	**	<5	**	62	5%
MSM/IDU	35	6%	22	5%	<5	**	<5	**	60	5%
Blood Products	7	1%	0	0%	0	0%	0	0%	7	1%
Heterosexual Contact (HCFR)	19	3%	18	4%	<5	**	0	0%	38	3%
Perinatal	<5	**	5	1%	0	0%	0	0%	7	1%
Undetermined	76	12%	102	24%	6	19%	9	24%	193	17%
Male Subtotal	626	55%	434	38%	32	3%	37	3%	1129	100%
FEMALE										
Injection Drug Use	12	16%	33	16%	<5	**	<5	**	47	16%
Blood Products	<5	**	0	0%	<5	**	0	0%	<5	**
Heterosexual Contact (HCM)	55	73%	125	62%	5	63%	6	75%	191	65%
Perinatal	0	0%	<5	**	<5	**	0	0%	<5	**
Undetermined	7	9%	42	21%	0	0%	<5	**	50	17%
Female Subtotal	75	26%	203	69%	8	3%	8	3%	294	100%
ALL										
Male-Male sex	461	66%	254	40%	23	58%	24	53%	762	54%
Injection Drug Use	38	5%	66	10%	<5	**	<5	**	109	8%
MSM/IDU	35	5%	22	3%	<5	**	<5	**	60	4%
Blood Products	8	1%	0	0%	<5	**	0	0%	9	1%
Heterosexual Contact (HC)	74	11%	143	22%	6	15%	6	13%	229	16%
HCFR (Males)	19	3%	18	3%	<5	**	0	0%	38	3%
HCM (Females)	55	8%	125	20%	5	13%	6	13%	191	13%
Perinatal	<5	**	8	1%	<5	**	0	0%	11	1%
Undetermined	83	12%	144	23%	6	15%	10	22%	243	17%
RACE ALL	701	49%	637	45%	40	3%	45	3%	1423	100%

TABLE 3. Prevalent HIV Infection Cases in WAYNE CO. (excl Detroit) by City of Residence at Diagnosis

CITY OF RESIDENCE AT DIAGNOSIS	EST PREV*	REPORTED PREVALENCE †			Total	
		HIV Infection Non-Stage 3	HIV Infection Stage 3	Number	Percent of all Wayne Co. cases living in city [§]	
Allen Park	20	10	7	17	1%	
Belleville	90	26	35	61	4%	
Brownstown Township	10	<5	5	7	<1%	
Canton	80	31	26	57	4%	
Dearborn	130	44	52	96	7%	
Dearborn Heights	80	28	31	59	4%	
Ecorse	40	14	18	32	2%	
Flat Rock	10	<5	5	6	<1%	
Garden City	20	8	9	17	1%	
Gibraltar	10	0	<5	<5	**	
Grosse Ile	10	<5	<5	<5	**	
Grosse Pointe	30	7	16	23	2%	
Grosse Pointe Farms	10	<5	<5	5	<1%	
Grosse Pointe Park	10	<5	0	<5	**	
Grosse Pointe Woods	10	<5	<5	5	<1%	
Hamtramck	80	26	31	57	4%	
Harper Woods	30	9	13	22	2%	
Highland Park	230	72	92	164	12%	
Inkster	190	49	87	136	10%	
Lincoln Park	60	20	26	46	3%	
Livonia	100	33	37	70	5%	
Melvindale	20	6	6	12	1%	
New Boston	10	<5	<5	5	<1%	
Northville	20	9	7	16	1%	
Plymouth	20	9	6	15	1%	
Redford Township	130	40	54	94	7%	
River Rouge	40	14	15	29	2%	
Riverview	20	5	6	11	1%	
Rockwood	10	<5	<5	<5	**	
Romulus	70	23	26	49	3%	
Southgate	30	13	11	24	2%	
Taylor	110	28	54	82	6%	
Trenton	20	<5	11	13	1%	
Wayne	40	5	21	26	2%	
Westland	170	50	72	122	9%	
Woodhaven	10	<5	0	<5	**	
Wyandotte	40	9	21	30	2%	
UNKNOWN	10	<5	<5	<5	**	
TOTAL	1,990	607	816	1423	100%	

*See front matter page i for descriptions of prevalence estimate calculations.

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

§ The percentages under the 'Total' column header show the percentage of Wayne Co.'s HIV cases that lived in a particular city at diagnosis and should not be interpreted as the proportion of all residents living in a city who are HIV-positive.

TABLE 4. New Diagnoses, Deaths, and Prevalence of HIV Infection in WAYNE CO. (excl Detroit) 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
1981	1	1	0	1	1	0
1982	0	0	0	0	0	0
1983	3	0	3	3	0	3
1984	5	1	7	4	1	6
1985	36	4	39	11	4	13
1986	46	14	71	14	14	13
1987	61	16	116	25	15	23
1988	89	23	182	49	21	51
1989	128	42	268	78	42	87
1990	139	40	367	77	38	126
1991	127	51	443	94	51	169
1992	134	61	516	117	58	228
1993	105	84	537	102	79	251
1994	127	83	581	100	77	274
1995	136	101	616	113	93	294
1996	74	63	627	67	60	301
1997	102	40	689	67	33	335
1998	86	31	744	68	26	377
1999	71	31	784	50	26	401
2000	93	31	846	67	26	442
2001	92	35	903	54	27	469
2002	70	30	943	59	23	505
2003	79	30	992	58	23	540
2004	96	32	1,056	59	25	574
2005	77	27	1,106	69	23	620
2006	75	36	1,145	64	33	651
2007	92	31	1,206	65	28	688
2008	68	38	1,236	57	32	713
2009	85	30	1,291	51	29	735
2010	93	11	1,373	56	7	784
2011	59	9	1,423	37	5	816
TOTAL	2,449	1,026		1,736	920	

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 5, 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 WAYNE CO (excl Detroit) is 1,423. The prevalence of Stage 3 infection, which is a subset of the overall HIV infection prevalence, is 816.

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 WAYNE CO. (excl Detroit) by Year

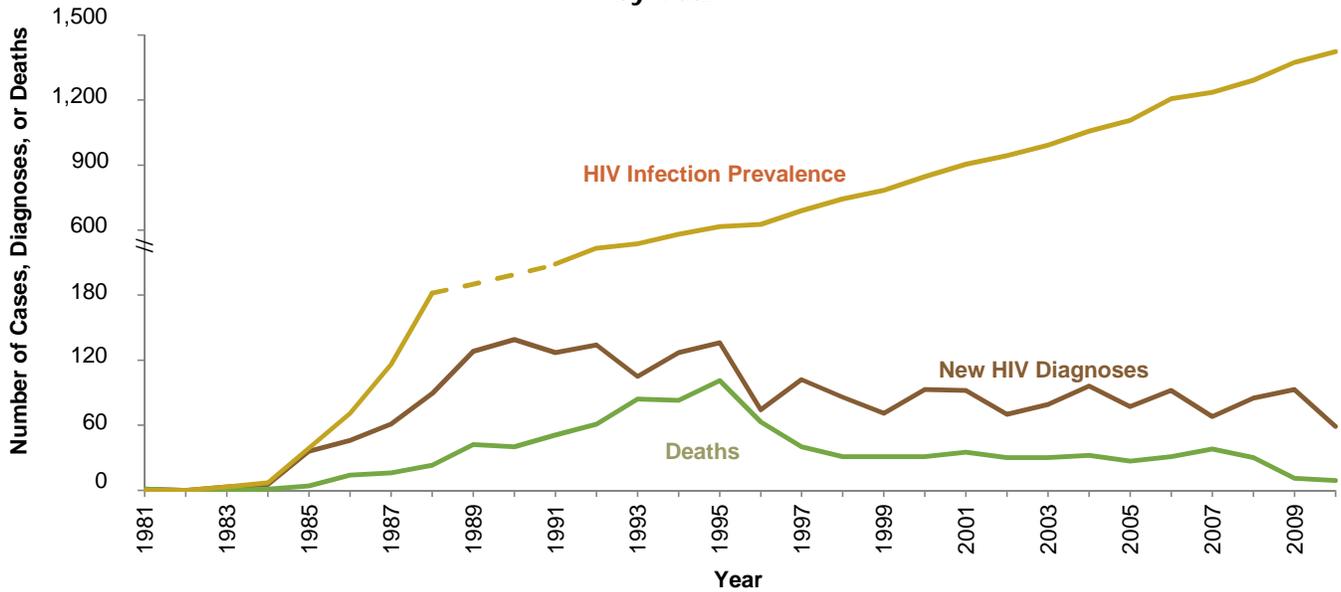


TABLE 5. Comparison of HIV Infection Prevalence in WAYNE CO. (excl Detroit) to State

<i>Residence at Diagnosis</i>	<i>Estimated Prevalence</i>	<i>Reported Prevalence</i>				<i>Cumulative Stage 3</i>
		<i>HIV Infection Non-Stage 3</i>	<i>HIV Infection Stage 3 (AIDS)</i>	<i>Total</i>	<i>Rate</i>	
Wayne Co. (excl Detroit)	1,990	607	816	1,423	129	51
Michigan Total	19,300	6,860	7,855	14,715	149	17,669



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