

BIANNUAL HIV SURVEILLANCE REPORT, WASHTENAW CO. January 2012

Table of Contents: HIV Surveillance Statistics of Persons Diagnosed in Washtenaw Co.

Front Matter	Page
Acronyms and Definitions	i
Prevalence Estimate Calculations	i
Risk Transmission Categories	i
Section 1: Data on Prevalent Cases	
Table 1. Demographic Information on Prevalent HIV Infection Cases	1
Table 2. Sex, Race, and Risk Among Prevalent HIV Infection Cases	2
Table 3. Prevalent HIV Infection Cases According to City of Residence at Diagnosis	3
Section 2: New Diagnoses, Deaths, and Prevalence	
Table 4. New Diagnoses, Deaths, and Prevalence of HIV Infection, by Year	4
Figure 1. New Diagnoses, Deaths, and Prevalence of HIV Infection, by Year	5
Table 5. Comparison of HIV Infection Prevalence to Michigan	5

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

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

****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 WASHTENAW 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 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 WASHTENAW CO. at Diagnosis

	REPORTED PREVALENCE[†]								CENSUS 2010	
	EST PREV* Num	HIV Infection Non-Stage 3		HIV Infection Stage 3 (AIDS)		Total		Rate per 100,000[§]	Num	Percent
RACE/ ETHNICITY[‡]										
White	320	127	51%	115	48%	242	50%	97	248,675	72%
Black	280	99	40%	109	46%	208	43%	482	43,152	13%
Hispanic	30	15	6%	9	4%	24	5%	173	13,860	4%
Asian/PI	10	0	0%	<5	**	<5	**	**	27,123	8%
Am Indian/AN	0	0	0%	0	0%	0	0%	**	976	<1%
Multi/Other/Unk	20	7	3%	5	2%	12	2%	N/A	11,005	3%
SEX & RACE										
Male	540	209	84%	197	82%	406	83%	239	170,132	49%
White Male	300	117	47%	106	44%	223	46%	181	122,968	36%
Black Male	210	75	30%	80	33%	155	32%	742	20,887	6%
Hispanic Male	30	13	5%	7	3%	20	4%	286	6,998	2%
Other Male	10	<5	**	<5	**	8	2%	---	19,279	6%
Female	110	39	16%	42	18%	81	17%	46	174,659	51%
White Female	30	10	4%	9	4%	19	4%	15	125,707	36%
Black Female	70	24	10%	29	12%	53	11%	238	22,265	6%
Hispanic Female	10	<5	**	<5	**	<5	**	**	6,862	2%
Other Female	10	<5	**	<5	**	5	1%	---	19,825	6%
RISK*										
Male-Male Sex (MSM)	410	169	68%	137	57%	306	63%	--	--	--
Injection Drug Use (IDU)	30	7	3%	15	6%	22	5%	--	--	--
MSM/IDU	30	9	4%	13	5%	22	5%	--	--	--
Blood Products	10	0	0%	<5	**	<5	**	--	--	--
Heterosexual Contact (HC)	100	37	15%	38	16%	75	15%	--	--	--
HCFR (Males)	10	<5	**	6	3%	10	2%	--	--	--
HCM (Females)	90	33	13%	32	13%	65	13%	--	--	--
Perinatal	10	<5	**	<5	**	<5	**	--	--	--
Undetermined	80	25	10%	32	13%	57	12%	--	--	--
AGE AT HIV DIAGNOSIS										
0 - 12 years	10	<5	**	<5	**	<5	**	--	--	--
13 - 19 years	20	10	4%	<5	**	14	3%	--	--	--
20 - 24 years	90	38	15%	31	13%	69	14%	--	--	--
25 - 29 years	150	63	25%	47	20%	110	23%	--	--	--
30 - 39 years	220	84	34%	80	33%	164	34%	--	--	--
40 - 49 years	130	42	17%	57	24%	99	20%	--	--	--
50 - 59 years	30	10	4%	14	6%	24	5%	--	--	--
60 years and over	10	0	0%	<5	**	<5	**	--	--	--
Unspecified	0	0	0%	0	0%	0	0%	--	--	--
TOTAL	650	248	100%	239	100%	487	100%	141	344,791	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: 248,675 / 242 = 1,026. Thus, 1 out of every 1,026 non-Hispanic white persons in WASHTENAW 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 3. Prevalent HIV Infection Cases in WASHTENAW CO. by City of Residence at Diagnosis

CITY OF RESIDENCE AT DIAGNOSIS	EST PREV*	REPORTED PREVALENCE[†]			
		HIV Infection Non-Stage 3	HIV Infection Stage 3	Total	
				Number	Percent
Ann Arbor	280	107	102	209	43%
Chelsea	10	<5	<5	<5	**
Dexter	10	<5	<5	7	1%
Manchester	10	0	<5	<5	**
Milan	10	<5	<5	6	1%
Plymouth	10	<5	<5	7	1%
Saline	10	<5	7	10	2%
Whitmore Lake	10	0	<5	<5	**
Willis	10	<5	0	<5	**
Ypsilanti	320	123	115	238	49%
UNKNOWN	10	0	0	0	0%
TOTAL	650	248	239	487	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.

TABLE 4. New Diagnoses, Deaths, and Prevalence of HIV Infection in WASHTENAW 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	1	0	1	0	0	0
1984	1	0	2	0	0	0
1985	21	3	20	7	3	4
1986	20	5	35	6	5	5
1987	31	3	63	13	3	15
1988	31	9	85	18	9	24
1989	37	10	112	20	10	34
1990	31	10	133	22	10	46
1991	45	14	164	31	14	63
1992	37	19	182	38	19	82
1993	30	20	192	33	20	95
1994	18	31	179	21	31	85
1995	26	25	180	33	25	93
1996	46	17	209	25	14	104
1997	22	10	221	17	10	111
1998	27	9	239	18	8	121
1999	27	8	258	17	7	131
2000	18	2	274	12	2	141
2001	23	8	289	15	7	149
2002	19	4	304	13	4	158
2003	26	2	328	12	2	168
2004	29	6	351	17	5	180
2005	27	5	373	20	4	196
2006	25	11	387	14	8	202
2007	20	3	404	11	0	213
2008	24	5	423	15	4	224
2009	26	4	445	8	4	228
2010	28	3	470	8	3	233
2011	20	3	487	9	3	239
TOTAL	736	249		473	234	

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 WASHTENAW CO is 487. The prevalence of Stage 3 infection, which is a subset of the overall HIV infection prevalence, is 239.

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 WASHTENAW CO., by Year

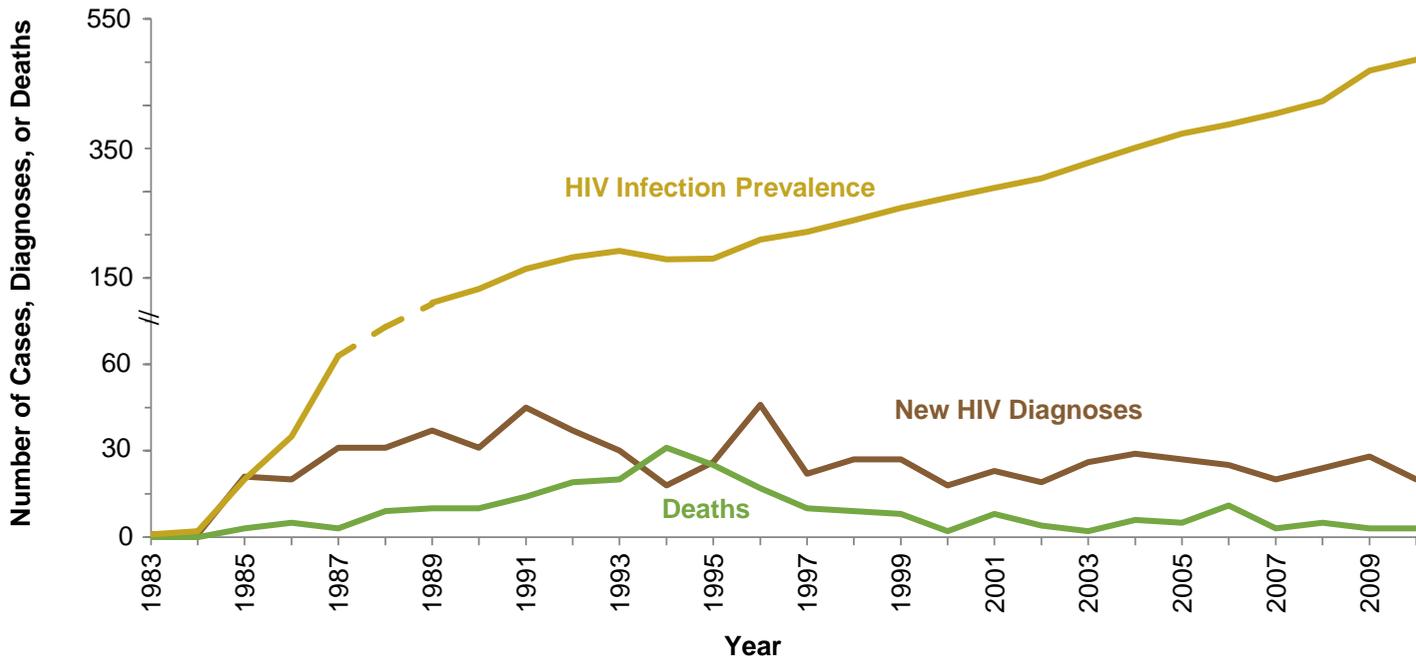


TABLE 5. Comparison of HIV Infection Prevalence in WASHTENAW CO. to State

<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	
Washtenaw Co.	650	248	239	487	141	473
Michigan Total	19,300	6,860	7,855	14,715	149	17,669



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