

BIANNUAL HIV SURVEILLANCE REPORT

KENT COUNTY

January 2013

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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 KENT 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 KENT CO. at Diagnosis

	REPORTED PREVALENCE [†]								CENSUS 2011 ESTIMATES	
	EST PREV* Num	HIV Infection Non-Stage 3		HIV Infection Stage 3 (AIDS)		Total		Rate per 100,000 [§]	Num	Percent
RACE/ ETHNICITY[‡]										
White	530	188	50%	215	47%	403	48%	87.5	460,816	76%
Black	400	137	36%	163	35%	300	36%	521.7	57,508	9%
Hispanic	140	40	11%	67	15%	107	13%	178.3	59,996	10%
Asian/PI	10	5	1%	6	1%	11	1%	74.6	14,743	2%
Am Indian/AN	10	<5	**	<5	**	<5	**	**	2,164	<1%
Multi/Other/Unk	20	8	2%	7	2%	15	2%	N/A	13,226	2%
SEX & RACE										
Male	840	268	71%	369	80%	637	76%	213.7	298,116	49%
White Male	480	165	44%	199	43%	364	43%	161.6	225,197	37%
Black Male	220	66	17%	102	22%	168	20%	601.2	27,945	5%
Hispanic Male	120	31	8%	57	12%	88	10%	287.8	30,573	5%
Other Male	20	6	2%	11	2%	17	2%	118.0	14,401	2%
Female	270	111	29%	91	20%	202	24%	65.1	310,337	51%
White Female	50	23	6%	16	3%	39	5%	16.6	235,619	39%
Black Female	170	71	19%	61	13%	132	16%	446.5	29,563	5%
Hispanic Female	30	9	2%	10	2%	19	2%	64.6	29,423	5%
Other Female	20	8	2%	<5	**	12	1%	76.3	15,732	3%
RISK*										
Male-Male Sex (MSM)	570	191	50%	239	52%	430	51%	--	--	--
Injection Drug Use (IDU)	40	13	3%	21	5%	34	4%	--	--	--
MSM/IDU	40	19	5%	13	3%	32	4%	--	--	--
Blood Products	10	0	0%	<5	**	<5	**	--	--	--
Heterosexual Contact (HC)	260	100	26%	100	22%	200	24%	--	--	--
HCFR (Males)	50	13	3%	25	5%	38	5%	--	--	--
HCM (Females)	210	87	23%	75	16%	162	19%	--	--	--
Perinatal	20	9	2%	<5	**	13	2%	--	--	--
Undetermined	170	47	12%	81	18%	128	15%	--	--	--
AGE AT HIV DIAGNOSIS										
0 - 12 years	20	10	3%	<5	**	14	2%	--	--	--
13 - 19 years	60	18	5%	25	5%	43	5%	--	--	--
20 - 24 years	160	70	18%	54	12%	124	15%	--	--	--
25 - 29 years	190	78	21%	67	15%	145	17%	--	--	--
30 - 39 years	380	111	29%	175	38%	286	34%	--	--	--
40 - 49 years	210	71	19%	88	19%	159	19%	--	--	--
50 - 59 years	70	19	5%	37	8%	56	7%	--	--	--
60 years and over	20	<5	**	10	2%	12	1%	--	--	--
Unspecified	0	0	0%	0	0%	0	0%	--	--	--
TOTAL	1,110	379	100%	460	100%	839	100%	138	608,453	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: 460,816 / 403 = 1,143. Thus, 1 out of every 1,143 non-Hispanic white persons in KENT 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 KENT 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	296	81%	78	46%	48	55%	8	47%	430	68%
Injection Drug Use	5	1%	11	7%	<5	**	0	0%	20	3%
MSM/IDU	20	5%	7	4%	<5	**	<5	**	32	5%
Blood Products	<5	**	0	0%	0	0%	0	0%	<5	**
Heterosexual Contact (HCFR)	6	2%	21	13%	8	9%	<5	**	38	6%
Perinatal	<5	**	5	3%	0	0%	0	0%	7	1%
Undetermined	33	9%	46	27%	25	28%	<5	**	108	17%
Male Subtotal	364	57%	168	26%	88	14%	17	3%	637	100%
FEMALE										
Injection Drug Use	<5	**	9	7%	<5	**	<5	**	14	7%
Blood Products	0	0%	0	0%	0	0%	0	0%	0	0%
Heterosexual Contact (HCM)	35	90%	102	77%	14	74%	11	92%	162	80%
Perinatal	0	0%	<5	**	<5	**	0	0%	6	3%
Undetermined	<5	**	17	13%	0	0%	0	0%	20	10%
Female Subtotal	39	19%	132	65%	19	9%	12	6%	202	100%
ALL										
Male-Male sex	296	73%	78	26%	48	45%	8	28%	430	51%
Injection Drug Use	6	1%	20	7%	7	7%	<5	**	34	4%
MSM/IDU	20	5%	7	2%	<5	**	<5	**	32	4%
Blood Products	<5	**	0	0%	0	0%	0	0%	<5	**
Heterosexual Contact (HC)	41	10%	123	41%	22	21%	14	48%	200	24%
HCFR (Males)	6	1%	21	7%	8	7%	<5	**	38	5%
HCM (Females)	35	9%	102	34%	14	13%	11	38%	162	19%
Perinatal	<5	**	9	3%	<5	**	0	0%	13	2%
Undetermined	36	9%	63	21%	25	23%	<5	**	128	15%
RACE ALL	403	48%	300	36%	107	13%	29	3%	839	100%

TABLE 3. New Diagnoses, Deaths, and Prevalence of HIV Infection in KENT 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	1	0	1
1984	3	1	3	2	1	2
1985	23	3	23	7	3	6
1986	25	3	45	3	3	6
1987	39	5	79	10	5	11
1988	47	10	116	18	9	20
1989	66	20	162	35	20	35
1990	64	16	210	33	16	52
1991	76	28	258	53	26	79
1992	59	29	288	67	28	118
1993	50	47	291	52	47	123
1994	48	44	295	52	44	131
1995	47	36	306	48	35	144
1996	43	33	316	36	30	150
1997	33	28	321	37	27	160
1998	34	18	337	23	17	166
1999	45	13	369	25	12	179
2000	53	15	407	32	13	198
2001	41	14	434	29	10	217
2002	53	9	478	27	8	236
2003	50	9	519	31	6	261
2004	52	10	561	31	8	284
2005	59	14	606	42	10	316
2006	51	17	640	45	13	348
2007	47	14	673	38	14	372
2008	38	7	704	24	7	389
2009	55	10	749	36	7	418
2010	37	14	772	25	12	431
2011	41	7	806	25	6	450
2012	42	9	839	19	9	460
TOTAL	1,322	483		906	446	

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 Kent Co. is 839. The prevalence of Stage 3 infection, which is a subset of the overall HIV infection prevalence, is 460.

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 KENT CO., by Year

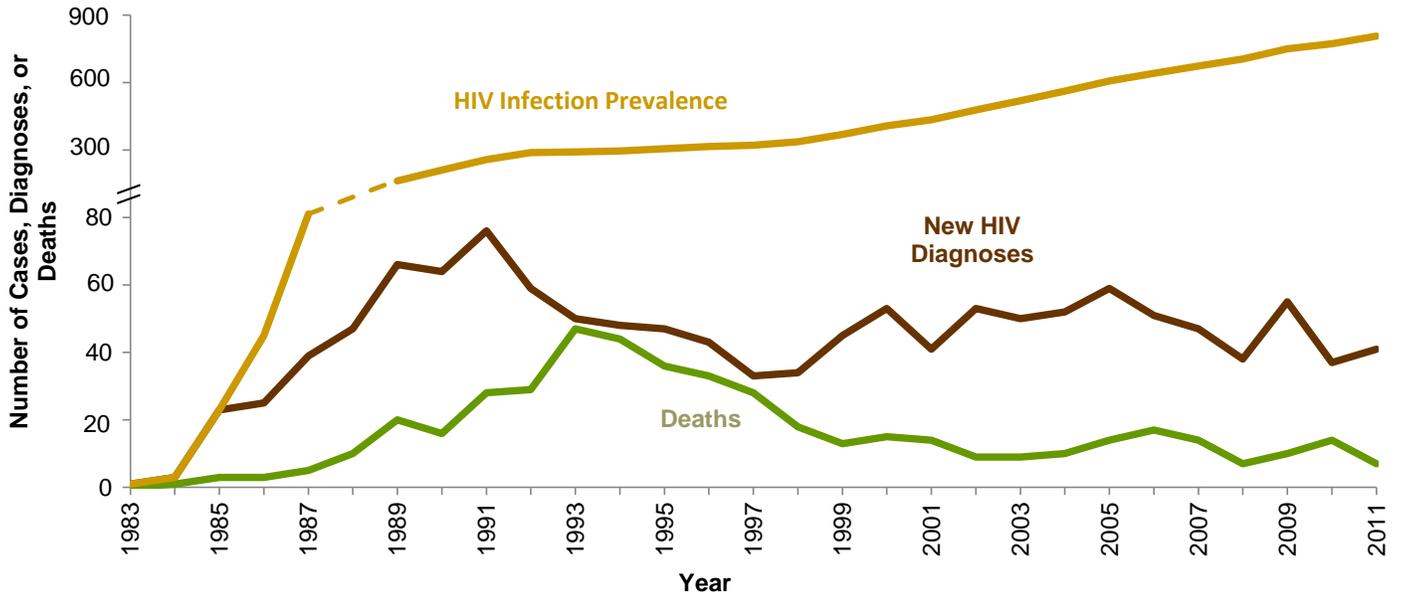


TABLE 4. Comparison of HIV Infection Prevalence in KENT CO. to State

<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>	
Kent Co.	1,110	379	460	839	138	906
Michigan Total	19,800	7,169	7,912	15,081	153	18,130