



Annual Detroit HIV Surveillance Report - Tables New Diagnoses and Prevalence, 2015

All data as of May 1, 2016



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Overview

Michigan's HIV Surveillance Program collects, interprets, and disseminates population level data regarding persons living with HIV (PLWH) and persons at risk of contracting the virus. Since 2001, the program has produced semi-annual reports for a wide audience. Beginning in 2016, these reports were overhauled and split into two parts. The "Annual Detroit HIV Surveillance Report" presents the most relevant information using graphical, user-friendly displays and can be found on our website. To explore current, pressing issues regarding the HIV epidemic, please review that report. This report, "Annual Detroit HIV Surveillance Report - Tables", contains the most commonly requested regional data.

The old surveillance reports utilized residence at diagnosis (the CDC standard) and therefore any person diagnosed in Michigan, regardless of their current location, was included. However, due to population changes, as well as the extended lifespan among PLWH, it is more appropriate to include only those currently living in Michigan. Due to differences in the underlying dataset, do not compare any numbers or figures in the new Annual Detroit HIV Surveillance Reports to old surveillance reports.

Key Definitions

The Basics

New Diagnoses: The number of cases newly diagnosed over a given period of time, usually a year. In HIV surveillance new diagnoses do not necessarily represent new infections as newly diagnosed cases may have been infected for many years.

Prevalence: The total number of persons currently living with HIV (PLWH).

Reported Prevalence: The number of diagnosed persons who were reported to surveillance.

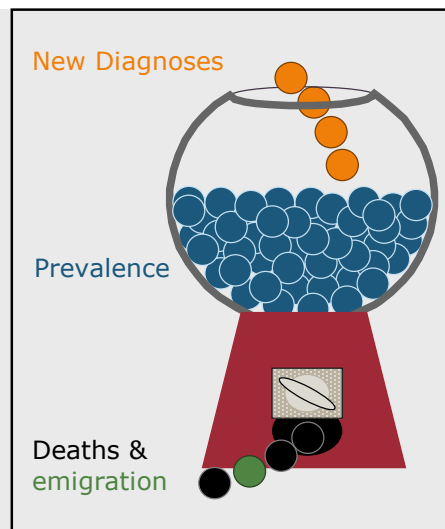
Estimated Prevalence: The number of persons diagnosed plus the estimated number of undiagnosed persons. The latter is calculated using the national estimate: 14%. The sum of diagnosed and undiagnosed is rounded up to the nearest ten.

HIV Stages: Stage 3 (formally called AIDS) refers to persons with a CD4 count of <200 cells. Once a person progresses to stage 3, the CD4 count may be improved, but that person is still categorized as stage 3. Stages 0, 1, or 2 (aka non-stage 3) refer to persons who have never progressed to stage 3.

Linkage, Care and Viral Suppression

Linked to Care: The proportion of newly diagnosed PLWH who have visited a doctor at least eight days after diagnosis (assessed by CD4, viral load, or genotype test).

In Care: The proportion of PLWH who visit a doctor at least once during a calendar year (assessed by CD4, viral load, or genotype test).



Overview

Community Viral Suppression: The proportion virally suppressed ($\leq 200\text{c/mL}$) out of *all* PLWH. Higher levels of community viral suppression reduce HIV transmission.

Viral Suppression (VL Supp) Rate: The proportion virally suppressed ($\leq 200\text{c/mL}$) out of PLWH *in care*.

Demographics

Race: In this report, persons described as white, black, Asian/Native Hawaiian/Pacific Islander, or American Indian/Alaska Native are all non-Hispanic; persons described as Hispanic may be of any race.

Gender: When available, this report utilizes current gender. When missing, gender is assumed to match sex at birth. Surveillance is aware that transgender persons are underreported and are usually categorized as the gender of their birth sex. This is because current gender did not become available for collection until 2010. Michigan surveillance anticipates that the reporting of current gender identity continues to improve.

Risk Categories and Hierarchy

MSM: Men who have sex with men.

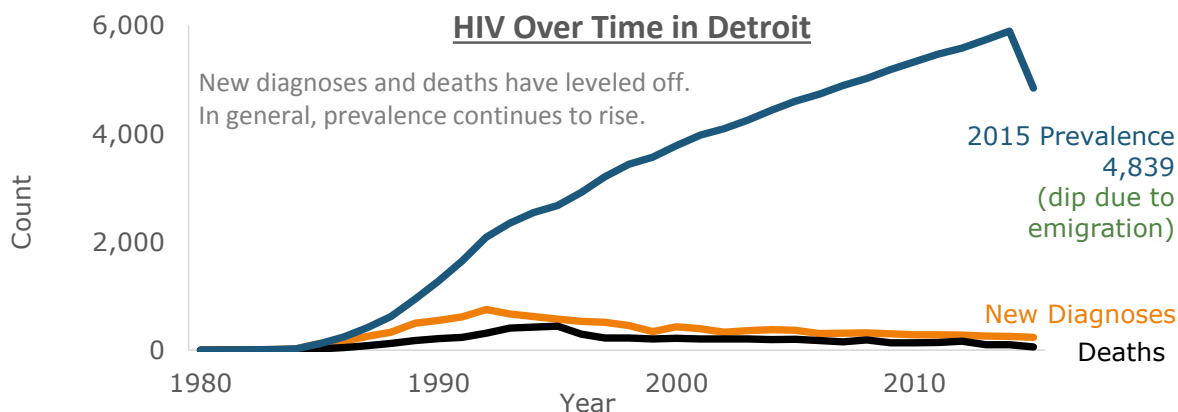
PWID: Persons who inject drugs.

Heterosexual: Males: men who are not MSM or PWID and reported sex with an HIV positive female or a female at risk (includes CDC and HRSA definitions).

Females: females who are not a PWID and reported sex with a male.

Blood Products: 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.

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



Overview

Table 1. New Diagnoses, Deaths, and Prevalence of HIV Infection by Year

Year	HIV Infection - All Stages			HIV Stage 3 Infection		
	Diagnoses	Deaths	Prevalence	Diagnoses	Deaths	Prevalence
1981	2	1	1	2	1	1
1982	2	0	3	2	0	3
1983	12	4	11	10	4	9
1984	21	11	21	21	11	19
1985	123	25	119	40	25	34
1986	165	44	240	74	41	67
1987	251	79	412	140	74	133
1988	329	124	617	212	122	223
1989	494	175	936	302	167	358
1990	551	212	1,275	345	203	500
1991	611	237	1,649	416	224	692
1992	747	311	2,085	583	294	981
1993	665	404	2,346	514	379	1,116
1994	620	423	2,543	484	393	1,207
1995	573	444	2,672	470	407	1,270
1996	532	292	2,912	381	273	1,378
1997	515	222	3,205	335	196	1,517
1998	451	223	3,433	322	194	1,645
1999	339	205	3,567	295	180	1,760
2000	428	216	3,779	331	183	1,908
2001	397	206	3,970	252	174	1,986
2002	328	206	4,092	271	179	2,078
2003	360	204	4,248	279	168	2,189
2004	378	192	4,434	273	162	2,300
2005	366	198	4,602	311	164	2,447
2006	304	177	4,729	232	145	2,534
2007	313	154	4,888	222	136	2,620
2008	316	187	5,017	235	148	2,707
2009	300	135	5,182	201	108	2,800
2010	281	135	5,328	210	119	2,891
2011	284	141	5,471	197	111	2,977
2012	274	165	5,580	155	131	3,001
2013	258	101	5,737	186	84	3,103
2014	252	97	5,892	135	71	3,167
2015	238	57	4,839	130	49	2,684
Total	12,080	6,007		8,568	5,320	

The current reported prevalence of HIV infection in Detroit is 4,839 cases. The prevalence of stage 3 HIV infection, which is a subset of the overall HIV infection prevalence, is 2,684 cases. The HIV infection columns display data on all persons with HIV, including those with stage 3.

The number of reported deaths includes those directly attributable to the presence of HIV infection, as well as those due to other causes. Reported deaths for the most recent year is incomplete.

Prevalence

on January 1, 2016

Table 2. Demographic Information on City of Detroit Residents Living with HIV

Demographic Group	Estimated Prevalence	Reported HIV Infection							Census 2014 Estimates	
		Non Stage 3		Stage 3		Total		Rate	Count	%
		Count	%	Count	%	Count	%			
Total	5,620	2,152	100%	2,679	100%	4,831	100%	671.8	719,096	100%
Race/Ethnicity										
Black	5,030	1,911	89%	2,411	90%	4,322	89%	767.7	562,949	78%
Hispanic	180	71	3%	78	3%	149	3%	292.6	50,917	7%
White	300	129	6%	125	5%	254	5%	420.5	60,407	8%
Other	130	41	2%	65	2%	106	2%	236.5	44,823	6%
Asian/NH/PI	20	5	<1%	5	<1%	10	<1%	118.3	8,452	1%
Am Indian/AN	10	4	<1%	1	<1%	5	<1%	--	2,417	<1%
Multi/Other	110	32	1%	59	2%	91	2%	268.0	33,954	5%
Gender & Race										
Male	4,150	1,589	74%	1,976	74%	3,565	74%	1042.8	341,880	48%
Black	3,680	1,397	65%	1,763	66%	3,160	65%	1209.3	261,301	36%
Hispanic	140	56	3%	57	2%	113	2%	434.5	26,009	4%
White	250	102	5%	109	4%	211	4%	658.7	32,035	4%
Other	100	34	2%	47	2%	81	2%	359.4	22,535	3%
Female	1,400	526	24%	671	25%	1,197	25%	317.3	377,216	52%
Black	1,290	479	22%	622	23%	1,101	23%	365.0	301,648	42%
Hispanic	40	14	<1%	19	<1%	33	<1%	132.5	24,908	3%
White	50	26	1%	15	<1%	41	<1%	144.5	28,372	4%
Other	30	7	<1%	15	<1%	22	<1%	98.7	22,288	3%
Transgender	90	37	2%	32	1%	69	1%	--	N/A	N/A
Black	80	35	2%	26	<1%	61	1%	--	N/A	N/A
Hispanic	10	1	<1%	2	<1%	3	<1%	--	N/A	N/A
White	10	1	<1%	1	<1%	2	<1%	--	N/A	N/A
Other	10	0	0%	3	<1%	3	<1%	--	N/A	N/A
Risk										
MSM	2,600	1,036	48%	1,198	45%	2,234	46%	--	N/A	N/A
PWID	610	161	7%	355	13%	516	11%	--	N/A	N/A
MSM/PWID	190	57	3%	102	4%	159	3%	--	N/A	N/A
Heterosexual	1,130	404	19%	559	21%	963	20%	--	N/A	N/A
Males	240	83	4%	120	4%	203	4%	--	N/A	N/A
Females	890	321	15%	439	16%	760	16%	--	N/A	N/A
Blood Products	10	1	<1%	4	<1%	5	<1%	--	N/A	N/A
Perinatal	70	34	2%	24	<1%	58	1%	--	N/A	N/A
Undetermined	1,050	459	21%	437	16%	896	19%	--	N/A	N/A
Current Age (in years)										
0-12	20	7	<1%	2	<1%	9	<1%	--	124,403	17%
13-19	50	31	1%	8	<1%	39	<1%	47.2	82,696	11%
20-24	340	227	11%	63	2%	290	6%	468.9	61,842	9%
25-29	610	349	16%	173	6%	522	11%	1116.8	46,741	6%
30-39	970	417	19%	411	15%	828	17%	975.8	84,853	12%
40-49	1,340	468	22%	683	25%	1,151	24%	1231.3	93,482	13%
50-59	1,480	424	20%	847	32%	1,271	26%	1309.3	97,078	14%
60+	840	229	11%	492	18%	721	15%	563.3	127,999	18%

Prevalence

on January 1, 2016

Table 3. Demographic Information and Care and Viral Suppression (VL) Rates on City of Detroit Residents Living with HIV

Gender & Race/Risk	Current Age														
	<13 yrs			13-19			20-24			25-29			30-39		
	Count	Care Rate	VL Supp Rate	Count	Care Rate	VL Supp Rate	Count	Care Rate	VL Supp Rate	Count	Care Rate	VL Supp Rate	Count	Care Rate	VL Supp Rate
Total	9	.	.	39	60%	67%	290	77%	70%	522	76%	67%	828	74%	71%
Male	6	.	.	24	53%	67%	240	79%	72%	425	77%	66%	603	73%	73%
Race Black	4	.	.	24	53%	67%	226	78%	70%	386	75%	64%	542	73%	72%
Race Hispanic	0	.	.	0	.	.	7	.	.	14	83%	90%	19	74%	77%
Race White	1	.	.	0	.	.	4	.	.	15	100%	92%	22	79%	100%
Race Other	1	.	.	0	.	.	3	.	.	10	78%	57%	20	68%	69%
Risk MSM	N/A	N/A	N/A	13	83%	80%	208	81%	75%	344	78%	70%	463	76%	73%
Risk PWID	N/A	N/A	N/A	0	.	.	0	.	.	2	.	.	1	.	.
Risk Heterosexual	N/A	N/A	N/A	0	.	.	3	.	.	7	.	.	20	83%	67%
Risk Other/Unk	6	.	.	11	36%	50%	29	68%	53%	72	67%	49%	119	61%	76%
Female	2	.	.	12	60%	83%	45	72%	58%	76	79%	69%	208	75%	65%
Race Black	2	.	.	11	67%	83%	41	69%	59%	68	78%	69%	188	77%	65%
Race Hispanic	0	.	.	1	.	.	1	.	.	3	.	.	11	33%	67%
Race White	0	.	.	0	.	.	2	.	.	4	.	.	4	.	.
Race Other	0	.	.	0	.	.	1	.	.	1	.	.	5	.	.
Risk PWID	N/A	N/A	N/A	0	.	.	1	.	.	1	.	.	10	70%	29%
Risk Heterosexual	N/A	N/A	N/A	3	.	.	24	78%	64%	49	80%	69%	157	78%	65%
Risk Other/Unk	2	.	.	9	.	.	20	71%	50%	26	76%	74%	41	62%	77%
Transgender	1	.	.	3	.	.	5	.	.	21	58%	64%	17	81%	77%
Race Black	1	.	.	3	.	.	5	.	.	17	53%	63%	16	80%	83%
Race Hispanic	0	.	.	0	.	.	0	.	.	2	.	.	0	.	.
Race White	0	.	.	0	.	.	0	.	.	1	.	.	0	.	.
Race Other	0	.	.	0	.	.	0	.	.	1	.	.	1	.	.
Risk Sex with Male	N/A	N/A	N/A	3	.	.	5	.	.	21	58%	64%	16	87%	77%
Risk Other/Unk	1	.	.	0	.	.	0	.	.	0	.	.	1	.	.



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Care and vl rates not shown for frequencies <10

Prevalence

on January 1, 2016

Table 3. Demographic Information and Care and Viral Suppression (VL) Rates on City of Detroit Residents Living with HIV

Gender & Race/Risk	Current Age									Total		
	40-49			50-59			60+			Count	Care Rate	VL Supp Rate
	Count	Care Rate	VL Supp Rate	Count	Care Rate	VL Supp Rate	Count	Care Rate	VL Supp Rate			
Total	1,151	76%	81%	1,271	76%	85%	721	73%	88%	4,831	75%	79%
Male	804	75%	83%	944	77%	86%	519	71%	88%	3,565	75%	80%
Race												
Black	701	77%	83%	825	78%	86%	452	71%	86%	3,160	75%	79%
Hispanic	29	52%	86%	28	54%	86%	16	69%	100%	113	65%	86%
White	55	74%	87%	74	75%	86%	40	80%	97%	211	77%	91%
Other	19	74%	92%	17	88%	64%	11	64%	86%	81	76%	76%
Risk												
MSM	539	79%	84%	528	82%	88%	242	81%	89%	2,337	79%	81%
PWID	22	50%	60%	118	69%	76%	152	59%	87%	295	63%	80%
Heterosexual	69	73%	82%	68	66%	84%	36	69%	83%	203	72%	80%
Other/Unk	174	68%	84%	230	74%	84%	89	68%	86%	730	68%	78%
Female	337	77%	77%	318	73%	84%	199	77%	88%	1,197	75%	78%
Race												
Black	321	77%	77%	285	75%	84%	185	77%	88%	1,101	76%	78%
Hispanic	6	.	.	6	.	.	5	.	.	33	61%	74%
White	7	.	.	19	53%	80%	5	.	.	41	63%	75%
Other	3	.	.	8	.	.	4	.	.	22	73%	71%
Risk												
PWID	54	70%	58%	86	64%	80%	69	67%	93%	221	66%	76%
Heterosexual	231	80%	80%	182	79%	86%	104	83%	86%	750	80%	78%
Other/Unk	52	68%	76%	50	67%	79%	26	85%	89%	226	69%	77%
Transgender	10	70%	86%	9	.	.	3	.	.	69	67%	71%
Race												
Black	9	.	.	8	.	.	2	.	.	61	66%	75%
Hispanic	0	.	.	1	.	.	0	.	.	3	.	.
White	0	.	.	0	.	.	1	.	.	2	.	.
Other	1	.	.	0	.	.	0	.	.	3	.	.
Risk												
Sex with Male	10	70%	86%	8	.	.	3	.	.	66	67%	73%
Other/Unk	0	.	.	1	.	.	0	.	.	3	.	.

Virally suppressed individuals have a better prognosis and are less likely to transmit the virus compared to unsuppressed individuals.

Compared to the state as a whole, lower care and viral suppression rates are observed in Detroit.

Hispanics and Latino males achieve very high viral suppression rates once in care. However, small proportion (relative to the Detroit average) make it into care. Hispanic and Latina females achieve average viral suppression rate, but very low levels of care.

Persons 13-19 years old have low rates of care, and all young persons 13-39 years old) achieve viral suppression less often.

PWID and Transgender persons have low rates of care and those in care have low viral suppression rates.

Care and vl rates not shown for frequencies <10

New Diagnoses

During 2015

Table 4. Demographic Information on City of Detroit Residents Newly Diagnosed with HIV

Demographic Group	New HIV Diagnoses			Census 2014 Estimates		New Stage 3	
	Count	% of Total	Rate per 100,000	Count	% of Total	Count	% of HIV Prevalence
Total	238	100%	33.1	719,096	100%	132	3%
Race/Ethnicity							
Black	219	92%	38.9	562,949	78%	121	3%
Hispanic	8	3%	--	50,917	7%	1	1%
White	9	4%	--	60,407	8%	8	3%
Other	2	<1%	--	44,823	6%	2	2%
Asian/NH/PI	1	<1%	--	8,452	1%	0	0%
Am Indian/AN	0	0%	--	2,417	<1%	0	0%
Multi/Other	1	<1%	--	33,954	5%	2	2%
Gender & Race							
Male	187	79%	54.7	341,880	48%	93	3%
Black	172	72%	65.8	261,301	36%	85	3%
Hispanic	6	3%	--	26,009	4%	1	1%
White	7	3%	--	32,035	4%	6	3%
Other	2	<1%	--	22,535	3%	1	1%
Female	47	20%	12.5	377,216	52%	37	3%
Black	43	18%	14.3	301,648	42%	34	3%
Hispanic	2	<1%	--	24,908	3%	0	0%
White	2	<1%	--	28,372	4%	2	5%
Other	0	0%	--	22,288	3%	1	5%
Transgender	4	2%	--	N/A	N/A	2	3%
Black	4	2%	--	N/A	N/A	2	3%
Hispanic	0	0%	--	N/A	N/A	0	0%
White	0	0%	--	N/A	N/A	0	0%
Other	0	0%	--	N/A	N/A	0	0%
Risk							
MSM	130	55%	--	N/A	N/A	59	3%
PWID	4	2%	--	N/A	N/A	10	2%
MSM/PWID	3	1%	--	N/A	N/A	2	1%
Heterosexual	42	18%	--	N/A	N/A	30	3%
Males	14	6%	--	N/A	N/A	4	2%
Females	28	12%	--	N/A	N/A	26	3%
Blood Products	0	0%	--	N/A	N/A	0	0%
Perinatal	0	0%	--	N/A	N/A	1	2%
Undetermined	59	25%	--	N/A	N/A	30	3%
Age (in years)							
<13	0	0%	--	124,403	17%	0	0%
13-19	13	5%	15.7	82,696	11%	2	5%
20-24	78	33%	126.1	61,842	9%	19	7%
25-29	39	16%	83.4	46,741	6%	23	4%
30-39	42	18%	49.5	84,853	12%	30	4%
40-49	27	11%	28.9	93,482	13%	26	2%
50-59	31	13%	31.9	97,078	14%	19	1%
60+	8	3%	--	127,999	18%	13	2%

New stage 3 is not new HIV diagnoses. Individuals diagnosed last year with both HIV and stage 3 are in both categories, with most diagnosed before last year. The % of HIV prevalence is the proportion of that demographic that progressed to stage 3. The denominator is from table 2 (e.g. of PLWH in 2015, 2% progressed to stage 3).

New Diagnoses

During 2015

Table 5. Demographic Information and Linkage to Care Rates for City of Detroit Residents Newly Diagnosed with HIV

Demographic Info Gender & Race/Risk	Age at HIV Diagnosis														Total Linkage Rate	
	13-19		20-24		25-29		30-39		40-49		50-59		60+			
	Count	Linkage Rate	Count	Linkage Rate	Count	Linkage Rate	Count	Linkage Rate	Count	Linkage Rate	Count	Linkage Rate	Count	Linkage Rate	Count	Linkage Rate
Total	13	31%	78	37%	39	33%	42	38%	27	37%	31	39%	8	.	238	36%
Male	12	25%	66	38%	32	41%	31	42%	20	40%	21	38%	5	.	187	38%
Race																
Black	12	25%	64	39%	28	36%	28	43%	17	41%	18	39%	5	.	172	38%
Hispanic	0	.	2	.	1	.	0	.	1	.	2	.	0	.	6	.
White	0	.	0	.	2	.	2	.	2	.	1	.	0	.	7	.
Other	0	.	0	.	1	.	1	.	0	.	0	.	0	.	2	.
Risk																
MSM	10	20%	59	41%	24	46%	18	39%	10	30%	6	.	2	.	129	40%
PWID	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
Heterosexual	1	.	3	.	2	.	2	.	2	.	4	.	0	.	14	29%
Unknown	1	.	4	.	6	.	11	45%	8	.	11	45%	3	.	44	36%
Female	1	.	12	33%	5	.	9	.	7	.	10	40%	3	.	47	30%
Race																
Black	1	.	12	33%	5	.	6	.	7	.	10	40%	2	.	43	30%
Hispanic	0	.	0	.	0	.	2	.	0	.	0	.	0	.	2	.
White	0	.	0	.	0	.	1	.	0	.	0	.	1	.	2	.
Other	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
Risk																
PWID	0	.	0	.	0	.	1	.	1	.	1	.	1	.	4	.
Heterosexual	1	.	8	.	5	.	4	.	4	.	5	.	1	.	28	21%
Unknown	0	.	4	.	0	.	4	.	2	.	4	.	1	.	15	47%
Transgender	0	.	0	.	2	.	2	.	0	.	0	.	0	.	4	.
Race																
Black	0	.	0	.	2	.	2	.	0	.	0	.	0	.	4	.
Hispanic	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
White	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
Other	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
Risk																
Sex with Male	0	.	0	.	2	.	2	.	0	.	0	.	0	.	4	.
Unknown	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.

The linkage rate is the proportion of newly diagnosed individuals that received a CD4, VL, or genotype between 8 days and and 1 month following diagnosis. <13 years of age is not listed due to small sample size- in 2014 1 black male with unknown risk was linked to care.