



# Michigan Statewide HIV Surveillance Report New Diagnoses and Prevalence Tables

All data as of July 1, 2017



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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. "HIV in Michigan, an overview of the epidemic" 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, "Michigan Statewide HIV Surveillance Report, New Diagnoses and Prevalence 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 Michigan Statewide HIV Surveillance Report to reports preceding 2016.

## 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 persons 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: 13%. 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 improve, 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.

New Diagnoses & immigration

Prevalence

Deaths & emigration



### 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/Latino(a); 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, many times, are 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 will continue 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.

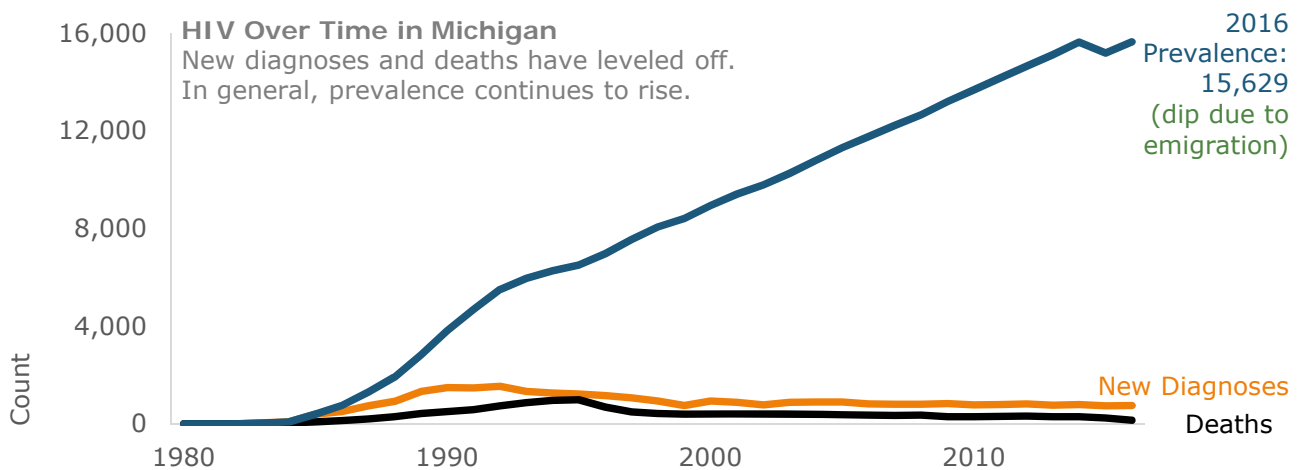


Table 1. New Diagnoses, Deaths, and Prevalence of HIV Infection by Year

Year	HIV Infection - All Stages			HIV Stage 3 Infection		
	Diagnoses	Deaths	Prevalence	Diagnoses	Deaths	Prevalence
1981	3	3	0	3	3	0
1982	3	1	2	2	1	1
1983	31	7	26	22	7	16
1984	72	23	75	50	23	43
1985	392	74	393	98	74	67
1986	491	124	760	168	121	114
1987	733	199	1,294	318	191	241
1988	909	289	1,914	491	280	452
1989	1,319	413	2,820	684	403	733
1990	1,473	491	3,802	793	471	1,055
1991	1,458	569	4,691	956	550	1,461
1992	1,533	725	5,499	1,223	694	1,990
1993	1,323	867	5,955	1,117	821	2,286
1994	1,255	955	6,255	997	893	2,390
1995	1,215	981	6,489	1,051	913	2,528
1996	1,149	678	6,960	842	629	2,741
1997	1,060	482	7,538	720	434	3,027
1998	920	412	8,046	630	359	3,298
1999	745	390	8,401	561	337	3,522
2000	928	395	8,934	632	344	3,810
2001	879	408	9,405	549	342	4,017
2002	769	394	9,780	558	334	4,241
2003	870	398	10,252	580	319	4,502
2004	892	372	10,772	543	298	4,747
2005	893	362	11,303	700	296	5,151
2006	805	356	11,752	588	286	5,453
2007	797	335	12,214	551	282	5,722
2008	790	352	12,652	518	284	5,956
2009	820	288	13,184	454	233	6,177
2010	773	288	13,669	495	235	6,437
2011	786	299	14,156	450	236	6,651
2012	802	315	14,643	411	256	6,806
2013	757	285	15,115	432	230	7,008
2014	785	279	15,621	328	211	7,979
2015	726	238	15,180	329	189	8,033
2016	748	140	<b>15,629</b>	353	106	<b>8,252</b>
Total	29,904	13,187		19,197	11,685	

The reported prevalence of HIV infection in Michigan on January 1, 2017 was 15,629 cases. The prevalence of stage 3 HIV infection, which is a subset of the overall HIV infection prevalence, was 8,252 cases. The HIV infection columns display data on all persons with HIV, including those with stage 3.

The number of reported deaths include 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.

Table 2. Demographic Information of Michigan Residents Living with HIV

Demographic Group	Estimated Prevalence	Reported HIV Infection							2016 Census Estimates	
		Non Stage 3		Stage 3		Total			Count	%
		Count	%	Count	%	Count	%	Rate per 100,000		
<b>Total</b>	<b>17,970</b>	<b>7,377</b>	<b>100%</b>	<b>8,252</b>	<b>100%</b>	<b>15,629</b>	<b>100%</b>	<b>157.4</b>	<b>9,928,298</b>	<b>100%</b>
<b>Race/Ethnicity</b>										
Black	10,150	4,154	56%	4,670	57%	8,824	56%	641.8	1,374,779	14%
Hispanic	990	399	5%	454	6%	853	5%	173.2	492,382	5%
White	6,150	2,533	34%	2,809	34%	5,342	34%	71.4	7,486,890	75%
Other	710	291	4%	319	4%	610	4%	106.2	574,247	6%
Asian/NH/PI	170	86	1%	59	<1%	145	<1%	47.5	305,146	3%
Am Indian/AN	40	19	<1%	14	<1%	33	<1%	58.3	56,594	<1%
Multi/Other	500	186	3%	246	3%	432	3%	203.3	212,507	2%
<b>Gender &amp; Race</b>										
Male	14,010	5,693	77%	6,486	79%	12,179	78%	249.3	4,884,744	49%
Black	7,340	2,996	41%	3,383	41%	6,379	41%	976.2	653,481	7%
Hispanic	800	326	4%	365	4%	691	4%	276.6	249,814	3%
White	5,340	2,158	29%	2,479	30%	4,637	30%	125.3	3,699,526	37%
Other	550	213	3%	259	3%	472	3%	167.4	281,923	3%
Female	3,800	1,596	22%	1,702	21%	3,298	21%	65.4	5,043,554	51%
Black	2,670	1,084	15%	1,238	15%	2,322	15%	321.9	721,298	7%
Hispanic	190	71	<1%	86	1%	157	1%	64.7	242,568	2%
White	790	364	5%	320	4%	684	4%	18.1	3,787,364	38%
Other	160	77	1%	58	<1%	135	<1%	46.2	292,324	3%
Transgender	180	88	1%	64	<1%	152	<1%	--	N/A	N/A
Black	150	74	1%	49	<1%	123	<1%	--	N/A	N/A
Hispanic	10	2	<1%	3	<1%	5	<1%	--	N/A	N/A
White	30	11	<1%	10	<1%	21	<1%	--	N/A	N/A
Other	10	1	<1%	2	<1%	3	<1%	--	N/A	N/A
<b>Risk</b>										
MSM	9,580	4,066	55%	4,258	52%	8,324	53%	2938.1	283,315	3%
PWID	1,230	372	5%	697	8%	1,069	7%	--	N/A	N/A
MSM/PWID	670	244	3%	333	4%	577	4%	--	N/A	N/A
Heterosexual	3,420	1,367	19%	1,599	19%	2,966	19%	--	N/A	N/A
Males	760	270	4%	390	5%	660	4%	--	N/A	N/A
Females	2,660	1,097	15%	1,209	15%	2,306	15%	--	N/A	N/A
Blood Products	70	19	<1%	40	<1%	59	<1%	--	N/A	N/A
Perinatal	250	131	2%	83	1%	214	1%	--	N/A	N/A
Undetermined	2,790	1,178	16%	1,242	15%	2,420	15%	--	N/A	N/A
<b>Age</b>										
0-12	100	67	<1%	12	<1%	79	<1%	8.9	887,021	9%
13-19	230	153	2%	39	<1%	192	1%	19.6	980,673	10%
20-24	1,040	706	10%	192	2%	898	6%	127.0	707,150	7%
25-29	1,700	1,042	14%	428	5%	1,470	9%	223.2	658,551	7%
30-39	3,220	1,562	21%	1,237	15%	2,799	18%	237.9	1,176,624	12%
40-49	4,380	1,611	22%	2,193	27%	3,804	24%	311.2	1,222,196	12%
50-59	5,050	1,579	21%	2,810	34%	4,389	28%	306.5	1,431,925	14%
60+	2,300	654	9%	1,340	16%	1,994	13%	69.6	2,864,165	29%

MSM Census estimate is 5.8% of the male population in Michigan (Lieb S, et al 2011. Statewide Estimation of Racial/Ethnic Populations of Men Who Have Sex with Men in the U.S.)

on January 1, 2017

Table 3. Demographic Information and Care and Viral Suppression (VL) Rates of Michigan 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	79	86%	97%	192	80%	66%	898	81%	74%	1,470	78%	76%	2,799	80%	84%
Male	40	88%	94%	135	79%	62%	770	81%	75%	1,212	78%	77%	2,075	80%	85%
Race															
Black	27	89%	92%	94	78%	57%	599	81%	74%	882	76%	74%	1,156	78%	80%
Hispanic	3	.	.	6	.	.	34	84%	81%	65	82%	89%	164	71%	91%
White	5	.	.	22	70%	71%	102	82%	83%	218	83%	88%	659	86%	92%
Other	5	.	.	13	90%	78%	35	85%	81%	47	73%	75%	96	82%	85%
Risk															
MSM	N/A	N/A	N/A	85	87%	58%	653	84%	76%	1,008	80%	79%	1,609	83%	85%
PWID	N/A	N/A	N/A	0	.	.	1	.	.	12	82%	63%	30	70%	68%
Heterosexual	N/A	N/A	N/A	0	.	.	11	100%	89%	30	78%	76%	86	72%	79%
Other/Unk	40	88%	94%	50	74%	65%	105	60%	71%	162	63%	69%	350	69%	87%
Female	39	85%	100%	49	82%	78%	110	84%	67%	216	83%	69%	690	78%	80%
Race															
Black	28	82%	100%	35	81%	73%	83	84%	62%	145	84%	64%	463	77%	80%
Hispanic	4	.	.	4	.	.	1	.	.	19	89%	75%	37	70%	77%
White	3	.	.	6	.	.	21	79%	85%	39	71%	83%	152	83%	82%
Other	4	.	.	4	.	.	5	.	.	13	91%	90%	38	86%	71%
Risk															
PWID	N/A	N/A	N/A	0	.	.	2	.	.	7	.	.	45	84%	59%
Heterosexual	N/A	N/A	N/A	9	.	.	69	88%	72%	152	82%	71%	545	80%	82%
Other/Unk	39	85%	100%	40	79%	77%	39	82%	58%	57	84%	66%	100	69%	80%
Transgender	0	.	.	8	.	.	18	69%	63%	42	78%	70%	34	79%	74%
Race															
Black	0	.	.	8	.	.	17	69%	63%	33	74%	65%	29	76%	73%
Hispanic	0	.	.	0	.	.	0	.	.	3	.	.	1	.	.
White	0	.	.	0	.	.	1	.	.	4	.	.	3	.	.
Other	0	.	.	0	.	.	0	.	.	2	.	.	1	.	.
Risk															
Sex with Male	N/A	N/A	N/A	8	.	.	17	69%	63%	42	78%	70%	33	79%	73%
Other/Unk	0	.	.	0	.	.	1	.	.	0	.	.	1	.	.



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Care and vl rates not shown for frequencies <10

on January 1, 2017

Table 3. Demographic Information and Care and Viral Suppression (VL) Rates of Michigan Residents Living with HIV (continued)

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	Count	Care Rate	VL Supp Rate
<b>Total</b>	<b>3,804</b>	<b>81%</b>	<b>89%</b>	<b>4,389</b>	<b>83%</b>	<b>91%</b>	<b>1,994</b>	<b>82%</b>	<b>94%</b>	<b>15,625</b>	<b>81%</b>	<b>87%</b>
Male	2,829	81%	90%	3,526	83%	91%	1,590	82%	95%	12,177	81%	88%
Race												
Black	1,340	80%	85%	1,553	80%	87%	726	76%	91%	6,377	79%	83%
Hispanic	196	69%	93%	165	79%	98%	58	74%	100%	691	75%	93%
White	1,170	85%	94%	1,692	87%	95%	769	88%	98%	4,637	86%	94%
Other	123	81%	92%	116	85%	88%	37	78%	89%	472	82%	87%
Risk												
MSM	2,025	85%	91%	2,422	87%	93%	982	87%	95%	8,784	85%	89%
PWID	78	79%	82%	263	73%	84%	254	67%	90%	638	71%	85%
Heterosexual	206	74%	82%	231	82%	89%	95	80%	94%	659	78%	86%
Other/Unk	520	72%	89%	610	76%	89%	259	76%	96%	2,096	72%	87%
Female	952	81%	86%	843	80%	90%	397	82%	93%	3,296	81%	85%
Race												
Black	681	80%	85%	585	79%	89%	301	80%	92%	2,321	80%	84%
Hispanic	46	80%	89%	33	78%	96%	13	85%	91%	157	79%	86%
White	192	84%	87%	201	82%	93%	69	87%	95%	683	83%	88%
Other	33	88%	97%	24	88%	85%	14	93%	100%	135	88%	87%
Risk												
PWID	107	72%	82%	170	72%	88%	97	75%	92%	428	74%	84%
Heterosexual	703	85%	87%	558	84%	91%	245	85%	93%	2,281	83%	86%
Other/Unk	142	70%	83%	115	72%	88%	55	80%	95%	587	75%	82%
Transgender	23	94%	82%	20	79%	93%	7	.	.	152	80%	75%
Race												
Black	18	93%	77%	16	80%	91%	2	.	.	123	78%	71%
Hispanic	1	.	.	0	.	.	0	.	.	5	.	.
White	4	.	.	4	.	.	5	.	.	21	90%	94%
Other	0	.	.	0	.	.	0	.	.	3	.	.
Risk												
Sex with Male	20	94%	80%	16	80%	92%	6	.	.	142	80%	74%
Other/Unk	3	.	.	4	.	.	1	.	.	10	75%	100%

Virally suppressed individuals have a better prognosis and are less likely to transmit the virus compared to unsuppressed individuals. Receiving routine care is the first step in achieving viral suppression (VS). The following groups struggle to obtain care, achieve VS, or both:

Black persons, especially males 13-29 and females 20-29, have low VS rates. Additionally, the care rate among Black males 25-29 is lower than average.

Black trans folks 20-49 have extremely low care & VS rates.

Latinos over 30 have low care rates, but those in care achieve VS more often than the state average.

Latinas 25-29 are likely to be in care but not VS; those 30-39 are less likely to be in care and VS.

PWID are in care substantially less often compared to the state average. Those 25-39 also achieve VS at lower rates.

Teenage white males and white females 25-29 have low care and VS rates.

\*Two black males, one black and one white female have unknown ages and are not included in this table; Care and vl rates not shown for frequencies <10

on January 1, 2017

Table 4. Current Residence of Persons Living with HIV in Michigan

Current County of Residence	Estimated Prevalence	Reported HIV Infection			Rate per 100,000	2016 Census Estimates
		Non Stage 3	Stage 3	Total		
<b>Total</b>	17,970	7,377	8,252	15,629	157.4	9,928,298
<b>Detroit Metro Area</b>	11,560	4,676	5,375	10,051	236.0	4,258,201
Lapeer Co.	50	24	19	43	48.7	88,340
Macomb Co.	1,240	531	544	1,075	123.9	867,730
Monroe Co.	110	42	52	94	63.0	149,208
Oakland Co.	2,300	961	1,037	1,998	160.6	1,243,970
St. Clair Co.	120	55	46	101	63.3	159,587
Wayne Co. excl Detroit	2,230	908	1,023	1,931	179.4	1,076,571
Detroit	5,530	2,155	2,654	4,809	714.8	672,795
<b>Out-state</b>	6,300	2,643	2,835	5,478	96.6	5,670,097
Alcona Co.	10	0	2	2	--	10,352
Alger Co.	10	3	3	6	--	9,219
Allegan Co.	130	51	60	111	96.1	115,548
Alpena Co.	20	2	13	15	52.3	28,704
Antrim Co.	20	6	7	13	56.2	23,144
Arenac Co.	10	1	4	5	--	15,122
Baraga Co.	10	3	5	8	--	8,503
Barry Co.	30	6	13	19	31.8	59,702
Bay Co.	100	42	39	81	77.3	104,747
Benzie Co.	10	1	5	6	--	17,572
Berrien Co.	250	92	125	217	140.9	154,010
Branch Co.	30	12	12	24	55.3	43,427
Calhoun Co.	210	87	95	182	135.4	134,386
Cass Co.	30	6	14	20	38.8	51,599
Charlevoix Co.	20	5	6	11	42.0	26,174
Cheboygan Co.	20	4	8	12	47.2	25,401
Chippewa Co.	40	17	13	30	79.5	37,724
Clare Co.	40	11	18	29	95.5	30,358
Clinton Co.	50	21	20	41	52.6	77,888
Crawford Co.	10	0	3	3	--	13,744
Delta Co.	30	11	9	20	55.2	36,202
Dickinson Co.	10	1	3	4	--	25,535
Eaton Co.	110	43	44	87	79.7	109,160
Emmet Co.	20	8	6	14	42.2	33,182
Genesee Co.	610	261	262	523	128.0	408,615
Gladwin Co.	20	4	6	10	39.8	25,122
Gogebic Co.	20	5	6	11	72.2	15,243
Grand Traverse Co.	90	33	44	77	83.6	92,084
Gratiot Co.	30	9	11	20	48.5	41,202
Hillsdale Co.	20	5	11	16	35.0	45,774
Houghton Co.	20	5	6	11	30.1	36,555
Huron Co.	10	3	5	8	--	31,481
Ingham Co.	500	211	218	429	148.9	288,051
Ionia Co.	50	16	19	35	54.5	64,232

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on January 1, 2017

Table 4. Current Residence of Persons Living with HIV in Michigan (continued)

Current County of Residence	Estimated Prevalence	Reported HIV Infection			Rate per 100,000	2016 Census Estimates
		Non Stage 3	Stage 3	Total		
<b>Out-state (cntd)</b>						
Iosco Co.	20	3	8	11	43.4	25,327
Iron Co.	10	2	2	4	--	11,195
Isabella Co.	60	24	24	48	67.3	71,282
Jackson Co.	250	99	117	216	136.3	158,460
Kalamazoo Co.	420	185	177	362	138.4	261,654
Kalkaska Co.	20	7	2	9	--	17,263
Kent Co.	1,130	482	500	982	152.9	642,173
Keweenaw Co.	10	1	0	1	--	2,199
Lake Co.	20	3	7	10	87.0	11,496
Leelanau Co.	10	2	5	7	--	21,765
Lenawee Co.	70	28	27	55	55.8	98,504
Livingston Co.	110	35	52	87	46.1	188,624
Luce Co.	10	0	4	4	--	6,358
Mackinac Co.	10	2	4	6	--	10,820
Manistee Co.	20	1	8	9	--	24,373
Marquette Co.	40	5	26	31	46.7	66,435
Mason Co.	20	4	12	16	55.4	28,876
Mecosta Co.	30	6	12	18	41.6	43,221
Menominee Co.	10	7	1	8	--	23,281
Midland Co.	50	19	18	37	44.3	83,462
Missaukee Co.	10	1	2	3	--	15,102
Montcalm Co.	70	27	28	55	87.3	62,974
Montmorency Co.	10	1	6	7	--	9,173
Muskegon Co.	210	84	94	178	102.6	173,408
Newaygo Co.	40	15	12	27	56.3	47,938
Oceana Co.	20	4	5	9	--	26,027
Ogemaw Co.	20	6	6	12	57.4	20,904
Ontonagon Co.	10	2	2	4	--	5,911
Osceola Co.	20	4	9	13	56.3	23,110
Oscoda Co.	10	3	2	5	--	8,264
Otsego Co.	20	10	7	17	69.5	24,470
Ottawa Co.	160	69	67	136	48.2	282,250
Presque Isle Co.	10	2	2	4	--	12,762
Roscommon Co.	20	4	10	14	59.1	23,700
Saginaw Co.	290	129	116	245	127.4	192,326
Sanilac Co.	30	13	9	22	53.1	41,409
Schoolcraft Co.	10	1	2	3	--	8,001
Shiawassee Co.	50	19	21	40	58.3	68,554
St. Joseph Co.	50	18	17	35	57.5	60,853
Tuscola Co.	20	6	7	13	24.4	53,338
Van Buren Co.	70	29	25	54	71.8	75,223
Washtenaw Co.	620	288	251	539	147.8	364,709
Wexford Co.	30	8	14	22	66.3	33,163
<b>Prisons</b>	120	57	42	99	N/A	N/A
<b>Unknown</b>	10	1	0	1	N/A	N/A

on January 1, 2017

Table 5. Current Residence and Care and Viral Suppression (VL Supp) Rates of Persons Living with HIV in MI

Current Residence	Count	Care Rate	VL Supp Rate	Current Residence	Count	Care Rate	VL Supp Rate
<b>Total</b>	<b>15,629</b>	<b>81%</b>	<b>87%</b>	<b>Select Counties (cntd)</b>			
<b>Detroit Metro Area</b>	<b>10,051</b>	<b>80%</b>	<b>86%</b>	Osceola Co.	13	100%	100%
Lapeer Co.	43	82%	87%	Otsego Co.	17	88%	93%
Macomb Co.	1,075	82%	89%	Ottawa Co.	136	87%	95%
Monroe Co.	94	76%	89%	Roscommon Co.	14	92%	100%
Oakland Co.	1,998	80%	90%	Saginaw Co.	245	84%	89%
St. Clair Co.	101	77%	90%	Sanilac Co.	22	71%	92%
Wayne Co. excl Detroit	1,931	82%	90%	Shiawassee Co.	40	98%	97%
Detroit	4,809	79%	81%	St. Joseph Co.	35	69%	96%
<b>Outstate</b>	<b>5,478</b>	<b>84%</b>	<b>90%</b>	Tuscola Co.	13	69%	89%
<b>Select Counties of Current Residence</b>				Van Buren Co.	54	84%	95%
Allegan Co.	111	87%	90%	Washtenaw Co.	539	84%	93%
Alpena Co.	15	87%	85%	Wexford Co.	22	86%	100%
Antrim Co.	13	83%	100%	<b>Select Cities of Current Residence</b>			
Barry Co.	19	89%	88%	Adrian	30	90%	92%
Bay Co.	81	87%	92%	Albion	12	92%	88%
Berrien Co.	217	58%	83%	Allen Park	31	90%	95%
Branch Co.	24	70%	88%	Alpena	14	86%	83%
Calhoun Co.	182	87%	90%	Ann Arbor	185	82%	95%
Cass Co.	20	65%	85%	Auburn Hills	42	89%	88%
Charlevoix Co.	11	91%	90%	Battle Creek	138	84%	90%
Cheboygan Co.	12	100%	100%	Bay City	69	85%	93%
Chippewa Co.	30	97%	74%	Belleville	58	78%	93%
Clare Co.	29	86%	84%	Benton Harbor	90	74%	77%
Clinton Co.	41	85%	94%	Berkley	24	83%	95%
Delta Co.	20	79%	93%	Berrien Springs	24	29%	67%
Eaton Co.	87	87%	88%	Birmingham	29	81%	95%
Emmet Co.	14	93%	100%	Bloomfield Hills	46	77%	91%
Genesee Co.	523	82%	87%	Brighton	26	92%	95%
Gogebic Co.	11	100%	82%	Brownstown	20	79%	86%
Grand Traverse Co.	77	86%	94%	Buchanan	14	21%	100%
Gratiot Co.	20	90%	89%	Burton	33	80%	83%
Hillsdale Co.	16	94%	91%	Cadillac	14	79%	100%
Houghton Co.	11	91%	100%	Canton	92	78%	97%
Ingham Co.	429	86%	88%	Carson City	21	95%	89%
Ionia Co.	35	97%	97%	Center Line	19	94%	86%
Iosco Co.	11	91%	78%	Charlotte	16	94%	93%
Isabella Co.	48	85%	98%	Chesterfield	31	75%	90%
Jackson Co.	216	80%	86%	Clarkston	32	86%	100%
Kalamazoo Co.	362	84%	90%	Clawson	15	62%	100%
Kent Co.	982	85%	91%	Clinton Township	143	81%	94%
Lake Co.	10	70%	86%	Coldwater	19	78%	93%
Lenawee Co.	55	85%	93%	Comstock Park	20	95%	83%
Livingston Co.	87	89%	96%	Davison	17	71%	91%
Marquette Co.	31	84%	92%	Dearborn	100	80%	92%
Mason Co.	16	100%	100%	Dearborn Heights	84	84%	91%
Mecosta Co.	18	50%	100%	Detroit	4,809	79%	81%
Midland Co.	37	84%	90%	Douglas	18	89%	100%
Montcalm Co.	55	85%	93%	East Lansing	31	70%	90%
Muskegon Co.	178	87%	94%	Eastpointe	114	79%	86%
Newaygo Co.	27	92%	100%	Ecorse	34	81%	100%
Ogemaw Co.	12	83%	90%	Escanaba	14	77%	90%

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on January 1, 2017

Table 5. Current Residence and Care and Viral Suppression (VL Supp) Rates of Persons Living with HIV in MI

Current Residence	Count	Care Rate	VL Supp Rate	Current Residence	Count	Care Rate	VL Supp Rate
<b>Select Cities (cntd)</b>				<b>Select Cities (cntd)</b>			
Farmington	33	85%	96%	New Baltimore	18	100%	100%
Farmington Hills	81	79%	93%	New Haven	20	95%	94%
Fennville	27	81%	100%	Niles	26	52%	92%
Ferndale	141	83%	94%	Northville	28	92%	100%
Flat Rock	18	82%	86%	Norton Shores	13	85%	100%
Flint	350	82%	84%	Novi	48	70%	94%
Flushing	20	79%	93%	Oak Park	117	79%	86%
Garden City	36	83%	90%	Okemos	20	94%	94%
Gaylord	16	87%	92%	Owosso	14	100%	100%
Grand Blanc	39	84%	97%	Pinckney	12	83%	100%
Grand Haven	12	92%	100%	Plymouth	36	71%	92%
Grand Ledge	14	100%	92%	Pontiac	302	80%	77%
Grand Rapids	724	85%	90%	Port Huron	50	78%	85%
Grandville	18	83%	100%	Portage	35	88%	97%
Grosse Pointe	57	85%	95%	Redford	141	88%	85%
Hamtramck	64	85%	79%	River Rouge	39	79%	86%
Harper Woods	61	85%	82%	Riverview	14	79%	100%
Harrison	15	87%	85%	Rochester	50	78%	89%
Harrison Township	29	86%	91%	Rockford	14	100%	92%
Hazel Park	57	88%	80%	Romulus	77	83%	87%
Highland Park	213	74%	82%	Roseville	95	85%	85%
Holland	59	83%	96%	Royal Oak	133	80%	96%
Holly	14	86%	92%	Saginaw	221	84%	88%
Holt	18	100%	87%	Saint Clair Shores	51	85%	90%
Howell	27	85%	96%	Saint Joseph	17	69%	100%
Hudsonville	14	100%	92%	Saline	12	100%	100%
Inkster	142	75%	83%	Saugatuck	20	84%	100%
Ionia	15	93%	92%	Shelby Township	30	83%	96%
Jackson	173	84%	84%	Southfield	352	77%	87%
Kalamazoo	294	83%	88%	Southgate	24	74%	87%
Kentwood	35	91%	93%	Sparta	14	86%	100%
Kincheloe	21	95%	74%	Springfield	12	100%	90%
Lake Orion	17	88%	86%	Sterling Heights	91	83%	90%
Lansing	370	86%	88%	Taylor	116	82%	92%
Lapeer	16	73%	91%	Three Rivers	20	75%	100%
Lathrup Village	23	86%	94%	Traverse City	57	82%	93%
Lincoln Park	55	88%	93%	Trenton	14	100%	100%
Livonia	82	85%	97%	Troy	62	83%	100%
Lowell	13	77%	78%	Warren	283	78%	86%
Ludington	13	100%	100%	Washington Township	13	58%	86%
Macomb	40	83%	100%	Waterford	80	78%	95%
Madison Heights	57	80%	95%	Wayne	40	82%	94%
Marquette	13	85%	100%	West Bloomfield	65	85%	98%
Marshall	13	100%	100%	Westland	173	85%	91%
Melvindale	27	80%	100%	White Lake	16	81%	100%
Midland	27	78%	95%	Wixom	31	81%	95%
Milan	22	90%	83%	Wyandotte	26	96%	92%
Milford	14	100%	93%	Wyoming	94	80%	87%
Monroe	39	83%	89%	Ypsilanti	298	85%	91%
Mount Clemens	56	87%	94%				
Mount Morris	24	78%	94%				
Mount Pleasant	40	85%	97%				
Muskegon	146	87%	93%				

During 2016

Table 6. Demographic Information of Michigan Residents Newly Diagnosed with HIV

Demographic Group	New HIV Diagnoses			2016 Census Estimates		New Stage 3	
	Count	% of Total	Rate per 100,000	Count	% of Total	Count	% of HIV Prevalence
<b>Total</b>	<b>748</b>	<b>100%</b>	<b>7.5</b>	<b>9,928,298</b>	<b>100%</b>	<b>370</b>	<b>2%</b>
<b>Race/Ethnicity</b>							
Black	432	58%	31.4	1,374,779	14%	225	3%
Hispanic	45	6%	9.1	492,382	5%	22	3%
White	234	31%	3.1	7,486,890	75%	107	2%
Other	37	5%	6.4	574,247	6%	16	3%
Asian/NH/PI	17	2%	5.6	305,146	3%	6	4%
Am Indian/AN	1	<1%	--	56,594	<1%	0	0%
Multi/Other	19	3%	8.9	212,507	2%	10	2%
<b>Gender &amp; Race</b>							
Male	617	82%	12.6	4,884,744	49%	289	2%
Black	347	46%	53.1	653,481	7%	169	3%
Hispanic	42	6%	16.8	249,814	3%	18	3%
White	198	26%	5.4	3,699,526	37%	88	2%
Other	30	4%	10.6	281,923	3%	14	3%
Female	114	15%	2.3	5,043,554	51%	75	2%
Black	70	9%	9.7	721,298	7%	51	2%
Hispanic	2	<1%	--	242,568	2%	4	3%
White	35	5%	0.9	3,787,364	38%	18	3%
Other	7	<1%	--	292,324	3%	2	1%
Transgender	17	2%	--	N/A	N/A	6	4%
Black	15	2%	--	N/A	N/A	5	4%
Hispanic	1	<1%	--	N/A	N/A	0	0%
White	1	<1%	--	N/A	N/A	1	5%
Other	0	0%	--	N/A	N/A	0	0%
<b>Risk</b>							
MSM	449	60%	158.5	283,315	3%	187	2%
PWID	24	3%	--	N/A	N/A	11	1%
MSM/PWID	22	3%	--	N/A	N/A	11	2%
Heterosexual	114	15%	--	N/A	N/A	77	3%
Males	23	3%	--	N/A	N/A	26	4%
Females	91	12%	--	N/A	N/A	51	2%
Blood Products	0	0%	--	N/A	N/A	0	0%
Perinatal	3	<1%	--	N/A	N/A	6	3%
Undetermined	136	18%	--	N/A	N/A	78	3%
<b>Age (in years)</b>							
<13	1	<1%	--	887,021	9%	1	1%
13-19	56	7%	5.7	980,673	10%	11	6%
20-24	167	22%	23.6	707,150	7%	44	5%
25-29	149	20%	22.6	658,551	7%	38	3%
30-39	141	19%	12.0	1,176,624	12%	90	3%
40-49	108	14%	8.8	1,222,196	12%	75	2%
50-59	98	13%	6.8	1,431,925	14%	85	2%
60+	28	4%	1.0	2,864,165	29%	26	1%

New stage 3 includes persons who progressed to stage 3 last year. Individuals diagnosed last year with both HIV and stage 3 are included in both "New HIV Diagnoses" and "New Stage 3", but most were diagnosed before last year and not included in "New HIV Diagnoses". The "% of HIV prevalence" is the proportion of that demographic who progressed to stage 3. The denominator is from table 2 (e.g. of PLWH in 2016, 2% progressed to stage 3).

During 2016

Table 7. Demographic Information and Linkage to Care Rates of Michigan Residents Newly Diagnosed with HIV

Gender & Race/Risk	Age at HIV Diagnosis														Total Linkage	
	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
<b>Total</b>	56	48%	167	51%	149	40%	141	50%	108	43%	98	46%	28	54%	748	47%
Male	50	48%	150	52%	126	42%	111	54%	77	42%	78	46%	25	56%	617	48%
Race																
Black	33	39%	106	48%	89	37%	45	51%	31	39%	31	39%	12	58%	347	44%
Hispanic	4	.	7	.	10	50%	11	45%	5	.	5	.	0	.	42	60%
White	10	40%	30	60%	23	52%	50	56%	35	40%	39	49%	11	64%	198	52%
Other	3	.	7	.	4	.	5	.	6	.	3	.	2	.	30	63%
Risk																
MSM	46	48%	133	56%	100	43%	77	56%	46	43%	45	49%	12	67%	459	51%
PWID	0	.	1	.	1	.	3	.	1	.	3	.	2	.	11	18%
Heterosexual	0	.	1	.	3	.	4	.	7	.	5	.	3	.	23	43%
Unknown	4	.	15	20%	22	45%	27	48%	23	43%	25	40%	8	.	124	43%
Female	3	.	11	55%	21	29%	30	37%	26	50%	19	42%	3	.	114	42%
Race																
Black	2	.	6	.	14	36%	14	36%	18	56%	12	50%	3	.	70	47%
Hispanic	0	.	0	.	1	.	0	.	0	.	1	.	0	.	2	.
White	1	.	3	.	4	.	13	31%	8	.	6	.	0	.	35	26%
Other	0	.	2	.	2	.	3	.	0	.	0	.	0	.	7	.
Risk																
PWID	0	.	0	.	1	.	6	.	4	.	1	.	0	.	12	8%
Heterosexual	2	.	10	50%	19	32%	21	48%	21	52%	14	57%	1	.	88	47%
Unknown	1	.	1	.	1	.	3	.	1	.	4	.	2	.	14	43%
Transgender	3	.	6	.	2	.	0	.	5	.	1	.	0	.	17	24%
Race																
Black	3	.	5	.	2	.	0	.	4	.	1	.	0	.	15	27%
Hispanic	0	.	0	.	0	.	0	.	1	.	0	.	0	.	1	.
White	0	.	1	.	0	.	0	.	0	.	0	.	0	.	1	.
Other	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
Risk																
Sex with Male	3	.	5	.	2	.	0	.	4	.	1	.	0	.	15	27%
Unknown	0	.	1	.	0	.	0	.	1	.	0	.	0	.	2	.

The linkage rate is the proportion of those newly diagnosed who 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 2016 1 black female <13 years old with unknown risk was diagnosed and linked to care.

During 2016

Table 8. Residence at Diagnosis of Persons Newly Diagnosed with HIV in Michigan

Local Health Department Jurisdiction of residence at diagnosis	New HIV Diagnoses			2016 Census Estimates		New Stage 3 Diagnoses	
	Count	% of Total	Rate per 100,000	Count	%	Count	% of HIV Prevalence
<b>Total</b>	<b>748</b>	<b>100%</b>	<b>7.5</b>	<b>9,928,298</b>	<b>100%</b>	<b>370</b>	<b>2%</b>
<b>Detroit Metro Area</b>	<b>507</b>	<b>68%</b>	<b>11.9</b>	<b>4,258,201</b>	<b>43%</b>	<b>265</b>	<b>3%</b>
Lapeer County	3	<1%	--	88,340	<1%	1	2%
Macomb County	57	8%	6.6	867,730	9%	33	3%
Monroe County	3	<1%	--	149,208	2%	1	1%
Oakland County	92	12%	7.4	1,243,970	13%	44	2%
St Clair County	9	1%	--	159,587	2%	1	1%
Wayne County, excl Detroit	91	12%	8.5	1,076,571	11%	39	2%
Detroit	252	34%	37.5	672,795	7%	146	3%
<b>Out-state</b>	<b>230</b>	<b>31%</b>	<b>4.1</b>	<b>5,670,097</b>	<b>57%</b>	<b>96</b>	<b>2%</b>
Allegan County	3	<1%	--	115,548	1%	1	1%
Barry-Eaton	5	<1%	--	168,858	2%	2	2%
Bay County	5	<1%	--	104,747	1%	1	1%
Benzie-Leelanau	0	0%	--	39,299	<1%	0	0%
Berrien County	5	<1%	--	154,010	2%	1	0%
Branch-Hillsdale-St. Joseph	1	<1%	--	150,032	2%	1	1%
Calhoun County	6	<1%	--	134,386	1%	4	2%
Central Michigan District	2	<1%	--	188,628	2%	2	2%
Chippewa County	0	0%	--	37,724	<1%	0	0%
Delta-Menominee	1	<1%	--	59,427	<1%	1	4%
Dickinson-Iron	0	0%	--	36,660	<1%	0	0%
District 10	1	<1%	--	261,152	3%	0	0%
District 2	0	0%	--	64,738	<1%	0	0%
District 4	1	<1%	--	75,938	<1%	1	3%
Genesee County	36	5%	8.8	408,615	4%	8	2%
Grand Traverse County	0	0%	--	92,084	<1%	0	0%
Huron County	0	0%	--	31,481	<1%	0	0%
Ingham County	28	4%	9.7	288,051	3%	8	2%
Ionia County	1	<1%	--	64,232	<1%	0	0%
Jackson County	6	<1%	--	158,460	2%	5	2%
Kalamazoo County	10	1%	3.8	261,654	3%	8	2%
Kent County	47	6%	7.3	642,173	6%	20	2%
Lenawee County	1	<1%	--	98,504	<1%	0	0%
Livingston County	2	<1%	--	188,624	2%	2	2%
Luce-Mack-Alger-School	1	<1%	--	34,300	<1%	1	5%
Marquette County	0	0%	--	66,435	<1%	0	0%
Mid-Michigan District	3	<1%	--	182,040	2%	0	0%
Midland County	0	0%	--	83,462	<1%	0	0%
Muskegon County	5	<1%	--	173,408	2%	3	2%
Northwest MI Com Hlth Agency	2	<1%	--	106,911	1%	0	0%
Ottawa County	3	<1%	--	282,250	3%	2	1%
Saginaw County	19	3%	9.9	192,326	2%	11	4%
Sanilac County	1	<1%	--	41,409	<1%	0	0%
Shiawassee County	0	0%	--	68,554	<1%	1	3%
Tuscola County	0	0%	--	53,338	<1%	0	0%
Van Buren-Cass	3	<1%	--	126,819	1%	1	1%
Washtenaw County	30	4%	8.2	364,709	4%	11	2%
Western UP District	2	<1%	--	68,314	<1%	1	3%
<b>In Prison</b>	<b>11</b>	<b>1%</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>9</b>	<b>N/A</b>

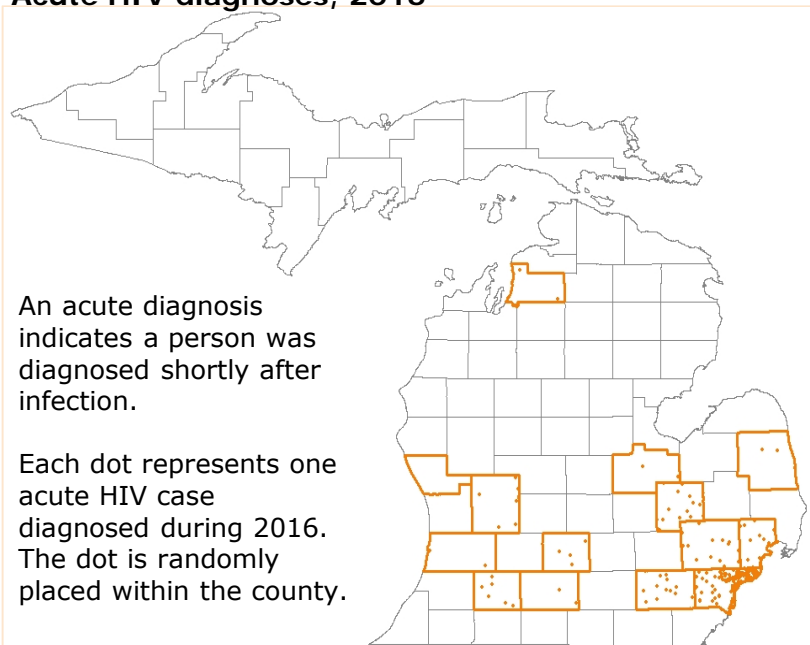
The "% of HIV prevalence" is the proportion of that demographic that progressed to stage 3. The denominator is from table 2 (e.g. of PLWH in 2016, 2% progressed to stage 3).

During 2016

Table 9. Residence at Diagnosis and Linkage to Care of Persons Newly Diagnosed with HIV in Michigan

Local Health Dept Jurisdiction of residence at diagnosis	Number of HIV Diagnoses	Linked in 1 month	Linked After 1 month	Total Ever Linked	Never Linked to Care
<b>Total</b>	<b>748</b>	<b>47%</b>	<b>43%</b>	<b>90%</b>	<b>10%</b>
<b>Detroit Metro Area</b>	<b>507</b>	<b>44%</b>	<b>45%</b>	<b>90%</b>	<b>10%</b>
<b>Out-state</b>	<b>230</b>	<b>51%</b>	<b>40%</b>	<b>90%</b>	<b>10%</b>
<b>Select Counties of Residence at Diagnosis</b>					
Genesee County	36	36%	33%	69%	31%
Ingham County	28	57%	36%	93%	7%
Kalamazoo County	10	60%	40%	100%	0%
Kent County	47	64%	32%	96%	4%
Macomb County	57	47%	46%	93%	7%
Oakland County	92	45%	43%	88%	12%
Saginaw County	19	47%	47%	94%	5%
Washtenaw County	30	40%	53%	93%	7%
Wayne County, excl Detroit	91	47%	42%	89%	11%
Detroit	252	43%	47%	90%	10%
<b>Select Cities of Residence at Diagnosis</b>					
Ann Arbor	11	64%	36%	100%	0%
Clinton Township	12	33%	58%	91%	8%
Flint	27	30%	37%	67%	33%
Grand Rapids	33	73%	24%	97%	3%
Highland Park	10	30%	60%	90%	10%
Lansing	27	59%	33%	92%	7%
Pontiac	13	31%	62%	93%	8%
Saginaw	19	47%	47%	94%	5%
Southfield	16	50%	44%	94%	6%
Warren	11	45%	55%	100%	0%
Ypsilanti	14	36%	57%	93%	7%

## Acute HIV diagnoses, 2016



## New Perinatal Diagnoses by Birth Year (2012-2016)

Table 10. Number of persons born and diagnosed during the past five years.

Birth year	Confirmed HIV Positive
2012	1
2013	0
2014	3
2015	0
2016	1