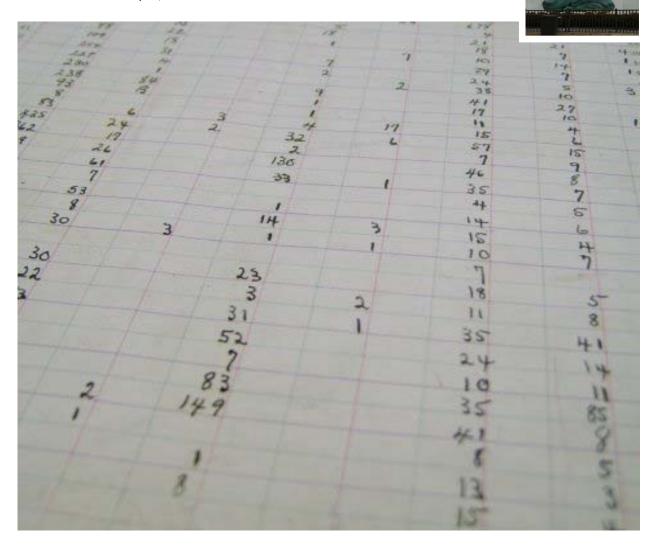
# Detroit, Michigan HIV Surveillance Report New Diagnoses and Prevalence Tables

All data as of July 1, 2017



HIV & STD Surveillance & Epidemiology Section Division of Communicable Disease Bureau of Disease Control, Prevention and Epidemiology Michigan Department of Health and Human Services



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Overview Page 1

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 Detroit, 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, "Detroit, Michigan 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 Detroit, Michigan HIV Surveillance Report to reports preceeding 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: The number of diagnosed persons Prevalence: who were reported to surveillance.

Estimated The number of persons diagnosed plus the estimated number of

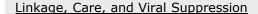
Prevalence: undiagnosed persons. The latter is calculated using the national estimate: 14%.

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 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.

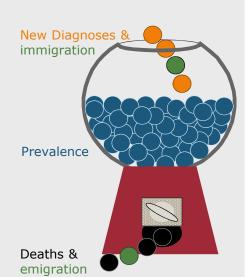


Linked to Care: The proportion of newly diagnosed PLWH who have visited a doctor at least

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 Page 2

Community Viral The proportion virally suppressed (≤200c/mL) out of all PLWH.

Suppression: Higher levels of community viral suppression reduce HIV transmission.

Viral Suppression

(VL Supp) Rate: The proportion virally suppressed (≤200c/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).

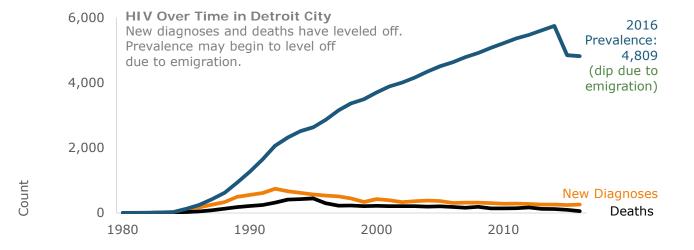
Females: females who are not a PWID and reported sex with a male.

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.



Overview Page 3

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

Year	HIV Infe	ction - All St	ages	н	HIV Stage 3 Infection						
	Diagnoses	Deaths	Prevalence	Diagnose	s Deaths	Prevalence					
1981	2	1	1		2 1	1					
1982	2	0	3		2 0	3					
1983	12	4	11	1	0 4	9					
1984	21	11	21	2	1 11	19					
1985	123	25	119	4	0 25	34					
1986	165	44	240	7	4 41	67					
1987	249	79	410	14	0 74	133					
1988	326	124	612	21	2 122	223					
1989	489	175	926	30	1 167	357					
1990	547	212	1,261	34	5 203	499					
1991	608	237	1,632	41	6 224	691					
1992	740	311	2,061	58	1 294	978					
1993	660	404	2,317	51	2 379	1,111					
1994	613	423	2,507	48	2 393	1,200					
1995	561	444	2,624	47	0 407	1,263					
1996	529	292	2,861	37	9 273	1,369					
1997	506	222	3,145	33	2 196	1,505					
1998	443	223	3,365	31	9 194	1,630					
1999	332	205	3,492	29	2 180	1,742					
2000	420	216	3,696	32	6 183	1,885					
2001	389	206	3,879	25	0 174	1,961					
2002	327	206	4,000	27	0 179	2,052					
2003	356	204	4,152	27	5 168	2,159					
2004	376	192	4,336	27	0 162	2,267					
2005	363	198	4,501	30	6 164	2,409					
2006	301	178	4,624	22	8 145	2,492					
2007	311	154	4,781	21	3 136	2,569					
2008	313	186	4,908	22	9 145	2,653					
2009	296	137	5,067	19	4 109	2,738					
2010	279	135	5,211	20	4 119	2,823					
2011	284	140	5,355	18	9 109	2,903					
2012	275	164	5,466	14	6 130	2,919					
2013	256	119	5,603	17	7 100	2,996					
2014	252	118	5,737	12	8 86	3,038					
2015	237	93	4,839	13	0 77	2,684					
2016	252	51	4,809	13	4 35	2,654					
Total	12,215	6,133		8,59	9 5,409						

The current reported prevalence of HIV infection in Detroit is 4,809 cases. The prevalence of stage 3 HIV infection, which is a subset of the overall HIV infection prevalence, is 2,654 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.

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

Demographic	Estimated	Na - C		-		Infection	Takal		2016 Cei				
Group	Prevalece	Non St Count	age 3 %	Stac Count	<u>ge 3</u> %	Count	Total %	Total Estimat  % Rate per Count					
		Court	70	Court	,0	Count	70	100,000	Courte	%			
Total	5,530	2,155	100%	2,654	100%	4,809	100%	668.8	719,096	100%			
Dago/Ethaicity													
Race/Ethnicity Black	4,920	1,894	88%	2,380	90%	4,274	89%	759.2	562,949	78%			
Hispanic	200	79	4%	2,300 87	3%	166	3%	326.0	50,917	7%			
White	300	137	6%	119	4%	256	5%	423.8	60,407	8%			
Other	130	45	2%	68	3%	113	2%	252.1	44,823	6%			
Asian/NH/PI	20	7	<1%	5	<1%	12	<1%	142.0	8,452	1%			
Am Indian/AN		4	<1%	1	<1%	5	<1%		2,417	<1%			
Multi/Other	120	34	2%	62	2%	96	2%	282.7	33,954	5%			
Gender & Race													
Male	4,110	1,596	74%	1,974	74%	3,570	74%	1044.2	341,880	48%			
Black	3,620	1,387	64%	1,753	66%	3,140	65%	1201.7	261,301	36%			
Hispanic	160	64	3%	67	3%	131	3%	503.7	26,009	4%			
White	250	109	5%	103	4%	212	4%	661.8	32,035	4%			
Other	110	36	2%	51	2%	87	2%	386.1	22,535	3%			
Female	1,340	515	24%	644	24%	1,159	24%	307.3	377,216	52%			
Black	1,220	465	22%	595	22%	1,060	22%	351.4	301,648	42%			
Hispanic	40	14	<1%	19	<1%	33	<1%	132.5	24,908	3%			
White Other	50 30	27 9	1% <1%	15 15	<1% <1%	42 24	<1% <1%	148.0 107.7	28,372	4% 3%			
Transgender	100	44	2%	36	1%	80	2%	107.7	22,288 N/A	N/A			
Black	90	42	2%	32	1%	74	2%		N/A	N/A			
Hispanic	10	1	<1%	1	<1%	2	<1%		N/A	N/A			
White	10	1	<1%	1	<1%	2	<1%		N/A	N/A			
Other	10	0	0%	2	<1%	2	<1%		N/A	N/A			
Diele													
Risk MSM	2,690	1,097	51%	1,238	47%	2,335	49%		N/A	N/A			
PWID	530	140	6%	313	12%	453	9%		N/A	N/A			
MSM/PWID	170	53	2%	88	3%	141	3%		N/A	N/A			
Heterosexual	1,110	410	19%	548	21%	958	20%		N/A	N/A			
Males	230	75	3%	120	5%	195	4%		N/A	N/A			
Females	880	335	16%	428	16%	763	16%		N/A	N/A			
Blood Products	10	1	<1%	3	<1%	4	<1%		N/A	N/A			
Perinatal	70	27	1%	33	1%	60	1%		N/A	N/A			
Undetermined	990	427	20%	431	16%	858	18%		N/A	N/A			
Current Age (in ye	ars)												
0-12	20	8	<1%	2	<1%	10	<1%	8.0	124,403	17%			
13-19	70	43	2%	13	<1%	56	1%	67.7	82,696	11%			
20-24	390	257	12%	75	3%	332	7%	536.9	61,842	9%			
25-29	660	363	17%	204	8%	567	12%	1213.1	46,741	6%			
30-39	990	432	20%	424	16%	856	18%	1008.8	84,853	12%			
40-49	1,300	451	21%	671	25%	1,122	23%	1200.2	93,482	13%			
50-59 60+	1,410 740	398 203	18% 9%	826 438	31% 17%	1,224 641	25% 13%	1260.8 500.8	97,078 127,999	14% 18%			
JUT	740	203	370	430	1/70	041	1370	300.6	147,339	1070			

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

		Current Age															
			<13 yrs		13-19 20-24 25-29 30-39												
	der & e/Risk	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	
Tota	ıl	10	70%	86%	56	65%	50%	332	81%	69%	567	77%	70%	856	78%	76%	
Ma	ماد	7			42	64%	50%	281	80%	73%	466	76%	71%	628	79%	78%	
riu	Black	5	•	•	40	62%	46%	265	79%	72%	421	76%	69%	542	78%	77%	
Ð	Hispanic	0	•	•	0	02 70	10 70	8	7 5 70	7270	18	80%	100%	30	83%	87%	
Race	White	1			0			4	•		16	88%	93%	33	85%	95%	
_	Other	1			1			4			11	64%	86%	23	74%	75%	
	<b>G</b>	_	-	·	_	•			•			0.70	0070			7 0 70	$\rightarrow$
	MSM	N/A	N/A	N/A	34	79%	55%	240	82%	75%	388	79%	74%	487	83%	77%	
Risk	PWID	N/A	N/A	N/A	0						2			2			4)
~	Heterosexual	N/A	N/A	N/A	0			4			6			21	65%	69%	Page
	Other/Unk	7			8			37	68%	57%	70	65%	58%	118	63%	84%	a
	1-	2			10	600/	670/	42	050/	F00/	70	060/	C = 0/	200	750/	700/	on Next
Fei	male	3	•	•	10	60%	67%	43	85%	59%	79	86%	65%	209	75%	70%	ž
(I)	Black	3	•	•	9	•	•	40	84%	58%	70	89%	65%	187 11	76% 64%	71% 71%	
Race	Hispanic White	0			1	•		1	•		2 6		•		64%	/1%	
~	Other	0	•		0	•	•	1 1	•	•	1	•	•	6 5	•	•	þ
	Other	U	•		U	•	•	1	•	•	1	•	•	5	•	•	ň
	PWID	N/A	N/A	N/A	0			0			2			10	70%	17%	Continued
Risk	Heterosexual	N/A	N/A	N/A	2			26	91%	67%	51	86%	70%	159	75%	71%	r
~	Other/Unk	3	, , , .		8			17	76%	46%	26	85%	59%	40	76%	76%	Q
		_		-			-										J
Tra	ansgender	0			4			8			22	67%	69%	19	68%	69%	$\rightarrow$
	Black	0			4			8			20	68%	69%	18	67%	75%	_
Race	Hispanic	0			0			0			1			0			
Ra	White	0			0			0			0			0			
	Other	0			0			0			1			1			
Risk	Sex with Male		N/A	N/A	4			8			22	67%	69%	18	67%	67%	
≅	Other/Unk	0			0			0			0			1			

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

Current Age														
			40-49			50-59			60+ Total*					
	Gender & Race/Risk	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		1,122	79%	83%	1,224	80%	86%	641	77%	91%	4,808	79%	81%	
			700/	0.407		0.107	050/	460	760/	0.007	0.570	700/	0.107	
Ма		772	78%	84%	911	81%	85%	463	76%	90%	3,570	79%	81%	
a)	Black	665	80%	83% 94%	796	81% 78%	85% 100%	406 15	76% 67%	89% 100%	3,140	79% 74%	80% 94%	
Race	Hispanic White	31 58	62% 70%	94% 88%	28 69	78% 81%	92%	31	87%	96%	131 212	74% 80%	94% 92%	
~	Other	18	70% 72%	100%		89%	69%	11	73%		87	77%	92% 78%	
	Other	18	72%	100%	18	89%	69%	11	73%	63%	87	77%	78%	
	MSM	530	81%	84%	512	84%	87%	222	87%	90%	2,413	83%	82%	
¥	PWID	18	72%	64%	110	72%	81%	130	62%	86%	262	67%	82%	
Risk	Heterosexual	65	76%	78%	65	83%	79%	34	73%	92%	195	77%	78%	
	Other/Unk	159	70%	87%	224	78%	84%	77	71%	93%	700	70%	82%	
	·													
Fei	male	337	80%	80%	302	77%	88%	175	80%	94%	1,158	79%	81%	
	Black	319	80%	80%	272	78%	88%	159	80%	94%	1,059	79%	81%	
Race	Hispanic	6			7			5			33	73%	75%	
R	White	8			14	57%	83%	7			42	62%	85%	
	Other	4			9			4			24	87%	68%	
	PWID	48	66%	66%	75	65%	81%	56	75%	95%	191	69%	78%	
Risk	Heterosexual	235	84%	84%	179	83%	91%	98	75% 84%	95%	750	82%	76% 83%	
<u>~</u>	Other/Unk	54	78%	74%	48	74%	85%	21	76%	94%	217	76%	74%	
	Other/onk	54	76%	74%	40	74%	65%	21	76%	94%	21/	70%	74%	
Tra	ansgender	13	90%	67%	11	73%	100%	3			80	73%	69%	
	Black	12	90%	67%	10	80%	100%	2			74	74%	69%	
e	Hispanic	1			0			0			2			
Race	White	0			1			1			2			
	Other	0			0			0			2			
Risk	Sex with Male	12	90%	67%	9			3			76	74%	67%	
Ξ	Other/Unk	1			2			0			4			

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:

Overall, Detroit residents are in care and achieve VS less often than the metro area averages (80% in care and 86% VS).

Compared to the Detroit averages, transgender persons are in care and achieving VS less often.

All 13-19 year olds have low care and VS rates, and 20-29 year olds have low VS rates. Females 30-39 are also less likely to be in care and VS.

Heterosexual males 30-39 have low care and VS rates, and PWID over 40 are in care less often.

White males 40-49, white females, and all Latino(a)s have low care rates. Latinas and males of other races also achieve VS less often than the city average.

During 2016

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

Demographic Group	Nev	v HIV Diag	noses	2016 Census E	stimates	New Stage 3			
3	Count	% of	Rate per	Count	% of	Count	% of HIV		
		Total	100,000		Total		Prevalence		
Total	252	100%	35.0	719,096	100%	146	3%		
Race/Ethnicity									
Black	219	87%	38.9	562,949	78%	131	3%		
Hispanic	12	5%	23.6	50,917	7%	7	4%		
White	17	7%	28.1	60,407	8%	5	2%		
Other	4	2%		44,823	6%	3	3%		
Asian/NH/PI	0	0%		8,452	1%	0	0%		
Am Indian/AN	0	0%		2,417	<1%	0	0%		
Multi/Other	4	2%		33,954	5%	3	3%		
Gender & Race									
Male	202	80%	59.1	341,880	48%	113	3%		
Black	175	69%	67.0	261,301	36%	100	3%		
Hispanic	11	4%	42.3	26,009	4%	6	5%		
White	13	5%	40.6	32,035	4%	4	2%		
Other	3	1%		22,535	3%	3	3%		
Female	41	16%	10.9	377,216	52%	29	3%		
Black	36	14%	11.9	301,648	42%	27	3%		
Hispanic	0	0%		24,908	3%	1	3%		
White	4	2%		28,372	4%	1	2%		
Other	1	<1%		22,288	3%	0	0%		
Transgender	9	4%		N/A	N/A	4	5%		
Black	8	3%		N/A	N/A	4	5%		
Hispanic	1	<1%		N/A	N/A	0	0%		
White	0	0%		N/A	N/A	0	0%		
Other	0	0%		N/A	N/A	0	0%		
				ŕ	,				
Risk									
MSM	153	61%		N/A	N/A	73	3%		
PWID	3	1%		N/A	N/A	2	0%		
MSM/PWID	6	2%		N/A	N/A	6	4%		
Heterosexual	44	17%		N/A	N/A	30	3%		
Males	8	3%		N/A	N/A	11	6%		
Females	36	14%		N/A	N/A	19	2%		
Blood Products	0	0%		N/A	N/A	0	0%		
Perinatal	1	<1%		N/A	N/A	4	7%		
Undetermined	45	18%		N/A	N/A	31	4%		
				ŕ	ŕ				
Age (in years)									
<13	1	<1%		124,403	17%	1	10%		
13-19	19	8%	23.0	82,696	11%	6	11%		
20-24	61	24%	98.6	61,842	9%	12	4%		
25-29	51	20%	109.1	46,741	6%	22	4%		
30-39	46	18%	54.2	84,853	12%	40	5%		
40-49	36	14%	38.5	93,482	13%	26	2%		
50-59	31	12%	31.9	97,078	14%	27	2%		
60+	7	3%		127,999	18%	12	2%		

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, 3% progressed to stage 3).

During 2016

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

Age at HIV Diagnosis																	
Demographic	Info	13-		20-		25-		30-		40-		50-		60		Tot	
Gender & Race/Risk		Count	Linkage Rate	Count	_inkage Rate												
Total		19	42%	61	56%	51	31%	46	48%	36	36%	31	35%	7	Nate	252	43%
Total		19	4270	01	30%	31	3170	40	4070	30	3070	31	3370	,	•	232	4370
Male		17	41%	57	56%	40	33%	31	58%	22	36%	28	36%	7		202	45%
Black		16	38%	55	55%	36	31%	23	57%	16	38%	24	38%	5		175	45%
		1		1		3		2		2		2		0		11	45%
୍ଷ Hispanic White		0		1		1		6		3		1		1		13	62%
Other		0		0		0		0		1		1		1		3	
MSM		17	41%	52	62%	30	30%	20	60%	12	42%	16	50%	5		152	49%
₩ PWID		0		0		0		0		0		1		0		1	
※ PWID Heterose	xual	0		0		0		1		4		2		1		8	
Unknown	ì	0		5		10	40%	10	50%	6		9		1		41	29%
Female		0		1		10	30%	15	27%	11	45%	3		0		41	37%
Black		0		1		10	30%	11	27%	10	50%	3		0		36	39%
Hispanic White		0		0		0		0		0		0		0		0	
₩ White		0		0		0		3		1		0		0		4	
Other		0		0		0		1		0		0		0		1	
∠ PWID		0		0		0		1		1		0		0		2	
अ Heterose	xual	0		1		10	30%	12	25%	10	50%	2		0		35	37%
Unknown	1	0		0		0		2		0		1		0		4	
Transgende	r	2		3		1	•	0		3		0		0		9	
Black		2		3		1	•	0		2		0		0		8	
Hispanic White		0		0		0	•	0		1		0		0		1	
		0		0		0		0		0		0		0		0	
Other		0		0		0		0		0		0		0		0	
_																	
뜻 Sex with 건 Unknown		2		3		1		0		2		0		0		8	
☑ Unknown	1	0		0		0		0		1		0		0		1	

The linkage rate is the proportion of those newly diagnosed who received a CD4, vI, or genotype between 8 days 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.