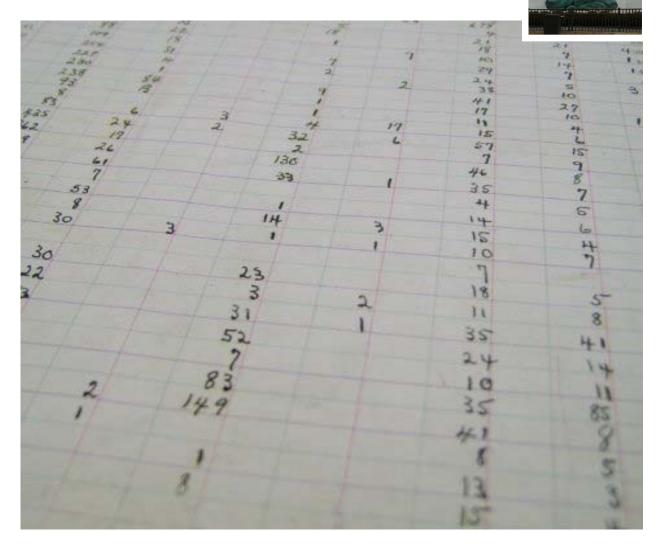


Detroit, Michigan HIV Surveillance Report New Diagnoses and Prevalence Tables

All data as of July 1, 2019



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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www.michigan.gov/hivstd

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. "HIV & STD's in Michigan - an overview" 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 preceding 2016.

New Diagnoses &

Key Definitions

The Basics

- moving into Detroit The number of cases newly New Diagnoses: diagnosed over a given period of time, usually a year. In HIV surveillance new diagnoses do not necessarily represent new infections as newly diagnosed Prevalence persons may have been infected for many years. Prevalence: The total number of persons All cause currently living with HIV (PLWH). deaths & moving out Reported: The number of diagnosed persons of Detroit Prevalence: who were reported to surveillance. Estimated The CDC estimates that 13% of PLWH in Michigan are not diagnosed. In other words, the reported prevalence is 87% of the estimated prevalence. The Prevalence:
- undiagnosed PLWH are distributed by county based on the proportion of PLWH living there (Table 4 of Michigan HIV Surveillance Report). When displayed as a number, the estimated prevalence 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.

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	
	Page 2
Community Viral Suppression:	The proportion virally suppressed (≤200c/mL) out of all PLWH. Higher levels of community viral suppression reduce HIV transmission.
Viral Suppression	
(VS) Rate:	The proportion virally suppressed (\leq 200c/mL) out of PLWH <i>in care</i> .
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 a	nd 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.
N	IV Over Time in Detroit City 2018 ew diagnoses and deaths have leveled off. 2018 revalence may begin to level off Prevalence, ue to PLWH leaving the city. 1700
4,000	4,798
	Estimated to reflect movement out of Detroit*
2,000	
0 Count	New Diagnoses Deaths

*PLWH have left Detroit since the beginning of the epidemic, the this number was unknwon until 2015. To avoid the apperance that all movement occured in 2015, the emigration count (854) was distributed evenly between 2004 and 2014. This estimation was not needed at state or regional levels as movement was low.

Overview

Table 1. New Diagnoses, Deaths, and Prevalence of HIV Infection by Year in the City of Detroit

Year	HIV Infe	ction - All St	ages	HIV	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	164	44	239	74	41	67				
1987	249	79	409	140	74	133				
1988	321	124	606	205	122	216				
1989	492	175	923	301	167	350				
1990	546	212	1,257	342	203	489				
1991	610	237	1,630	415	224	680				
1992	743	311	2,062	578	294	964				
1993	649	404	2,307	506	379	1,091				
1994	612	423	2,496	481	393	1,179				
1995	558	444	2,610	466	407	1,238				
1996	520	292	2,838	375	273	1,340				
1997	503	222	3,119	328	196	1,472				
1998	440	223	3,336	316	194	1,594				
1999	327	205	3,458	291	180	1,705				
2000	423	216	3,665	325	183	1,847				
2001	389	206	3,848	247	174	1,920				
2002	324	206	3,966	268	179	2,009				
2003	355	204	4,117	271	168	2,112				
2004	371	192	4,296	266	162	2,216				
2005	359	198	4,457	305	164	2,357				
2006	295	178	4,574	225	145	2,437				
2007	311	156	4,729	213	136	2,514				
2008	308	187	4,850	228	147	2,595				
2009	293	140	5,003	191	111	2,675				
2010	280	138	5,145	204	120	2,759				
2011	282	144	5,283	191	112	2,838				
2012	274	165	5,392	146	130	2,854				
2013	253	119	5,526	176	100	2,930				
2014	251	118	5,659	128	86	2,972				
2015	237	122	4,839	129	101	2,684				
2016	251	106	4,809	134	78	2,654				
2017	227	124	4,838	101	99	2,628				
2018	225		4,798	85		2,508				
Total	12,602	6,355		8,726	5,583					

The current reported prevalence of HIV infection in Detroit is 4,798 cases. The prevalence of stage 3 HIV infection, which is a subset of the overall HIV infection prevalence, is 2,508 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, 2019

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

Demographic	Estimated		, 			Infection			2018 Census Estimates			
Group	Prevalence	Non St Count	age 3 %	Stac Count	<u>je 3</u> %	Count	<u>Total</u> %	Rate per	<u>Estimat</u> Count	<u>es %</u>		
Total	5,590	2,290	100%	2,509	100%	4,799	100%	100,000 679.2	706,574	100%		
Race/Ethnicity Black Hispanic White Other Asian/NH/PI Am Indian/AN Multi/Other	4,950 200 310 150 10 10 130	1,996 93 149 52 4 5 43	87% 4% 7% 2% <1% <1% 2%	2,249 76 113 71 3 1 67	90% 3% 5% 3% <1% <1% 3%	4,245 169 262 123 7 6 110	88% 4% 5% 3% <1% <1% 2%	779.7 330.2 401.6 268.9 327.7	544,427 51,177 65,232 45,738 9,744 2,428 33,566	77% 7% 9% 6% 1% <1% 5%		
Gender & Race Male Black Hispanic White Other Female Black Hispanic White Other Transgender Black Hispanic White Other	$\begin{array}{c} 4,140\\ 3,620\\ 150\\ 270\\ 110\\ 1,320\\ 1,200\\ 50\\ 50\\ 40\\ 150\\ 130\\ 10\\ 10\\ 10\\ 10\end{array}$	$1,712 \\ 1,474 \\ 74 \\ 124 \\ 40 \\ 514 \\ 464 \\ 17 \\ 23 \\ 10 \\ 64 \\ 58 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $	75% 64% 3% 2% 22% 20% <1% <1% 3% 3% <1% <1%	1,834 1,633 48 100 53 617 563 25 12 17 58 53 3 1 1	73% 65% 2% 25% 22% <1% <1% 2% 2% 2% <1% <1% <1%	3,546 3,107 122 224 93 1,131 1,027 42 35 27 122 111 5 3 3	74% 65% 3% 2% 24% 21% <1% <1% 2% <1% <1% <1%	1,057.7 1,233.5 467.2 657.3 401.3 304.6 351.1 167.6 112.3 119.7 	335,256 251,892 26,112 34,077 23,175 371,318 292,535 25,065 31,155 22,563 N/A N/A N/A N/A N/A	47% 36% 4% 5% 3% 53% 41% 4% 3% N/A N/A N/A N/A		
Risk MSM PWID MSM/PWID Heterosexual Males Females Blood Products Perinatal Undetermined	2,870 450 160 1,140 240 900 10 60 940	1,254 112 49 440 82 358 1 19 415	55% 5% 2% 19% 4% 16% <1% <1% 18%	1,209 266 88 531 120 411 2 27 386	48% 11% 4% 21% 5% 16% <1% 1% 15%	2,463 378 137 971 202 769 3 46 801	51% 8% 3% 20% 4% 16% <1% <1% 17%	 	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A		
Current Age (in yea 0-12 13-19 20-24 25-29 30-39 40-49 50-59 60+	ers)* 20 70 330 740 1,140 1,150 1,370 810	6 47 228 444 543 405 403 214	<1% 2% 10% 19% 24% 18% 18% 9%	3 7 54 187 431 579 773 475	<1% <1% 2% 7% 17% 23% 31% 19%	9 54 282 631 974 984 1,176 689	<1% 1% 6% 13% 20% 21% 25% 14%	 75.1 464.6 1,197.5 1,141.0 1,129.7 1,340.5 528.2	130,608 71,938 60,696 52,693 85,363 87,101 87,728 130,448	18% 10% 9% 7% 12% 12% 12% 12%		

Prevalence

on January 1, 2019

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

		Current Age													
		<13 yrs 13-19 20-24 25-29												30-39	
Gender & Count Care VS Count Care VS (Count	Care	VS	Count	Care	VS	Count	Care	VS		
Race/Risk	•	Rate	Rate	= 4	Rate	Rate		Rate	Rate	604	Rate	Rate	074	Rate	Rate
Total	9	•	•	54	86%	75%	282	85%	79%	631	80%	72%	974	78%	80%
	-			45	010/	000/	226	0.407	700/		700/	720/	720	700/	000
Male	7	•	•	45	81%	88%	236	84%	79%	517	79%	72%	728	78%	83%
Black	4	•	•	43	80%	87%	217	83%	79%	472	79%	71%	628	76%	83%
왕 Hispanic 짶 White	0		•	1	•	•	8	•	•	16	81%	92%	31	86%	84%
	1		•	0	•	•	7	•	•	15	92%	91%	46	91%	83%
Other	2	•	•	1	•	•	4	•	•	14	71%	80%	23	74%	82%
MSM	N/A	N/A	N/A	38	81%	85%	204	86%	80%	425	82%	74%	595	79%	84%
· PWID	N/A	N/A	N/A	0			1			1			3		
·····································	al N/A	N/A	N/A	0			4			12	64%	67%	22	68%	87%
Other/Unk	7			7			27	71%	64%	79	63%	58%	108	71%	81%
Female	2			3			33	93%	83%	92	83%	70%	197	79%	75%
Black	2			2			31	92%	83%	86	82%	69%	174	81%	76%
인 Hispanic 안 White	0			0			0			2			7		
🖉 White	0			1			2			1			9		
Other	0		•	0		•	0		•	3			7		
PWID	N/A	N/A	N/A	0			1			1			12	58%	29%
Heterosexua	-		N/A	1			24	95%	94%	58	83%	71%	152	83%	75%
✓ Other/Unk	2			2			8			33	81%	68%	33	68%	90%
0001, 01	_	-		_		-	· ·		-		01/0				
Transgender	0			6			13	91%	70%	22	82%	67%	49	87%	63%
Black	0			5			13	91%	70%	21	81%	71%	43	85%	68%
ဗီ Hispanic	0			0			0			0			3		
윈 Hispanic 쮼 White	0			0			0			0			2		
Other	0			1			0			1			1		
	ale N/A	N/A	N/A	6			13	91%	70%	22	82%	67%	47	86%	61%
·····································	0 N/A	-	N) A	0	•	•	0			0			- 47	00 /0	
	0	•	•	0			0		•	0		•	<u> </u>		•

Care and VS rates not shown for frequencies <10

Care and VS data may be found by county and select city in the Michigan Statewide HIV Surveillance Report (Table 5) https://www.michigan.gov/mdhb/0,5885,7-339-71550 2955 2952 46000 46003-35962--,00.html#current

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Continued on Next Page

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Prevalence

on January 1, 2019

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

Image with the second of the second	Current Age													
Race/Risk TotalRate 984Rate 82%Rate 85%Rate 1,176Rate 83%Rate 89%Rate 668Rate 84%Rate 91%Rate 4,799Rate 82%Rate 84%Male g gBlack Black White64582%86% 84%87084% 87586% 87%87% 87%44383% 43490% 83%3,54682% 84%84% 83%Male g gBlack Hispanic Other2677% 16100% 94%2778% 2295% 86%1192% 92%92% 122122 83%83% 92%MSM PWID Heterosexual Other/Unk439 1387% 58%86% 67% 65529 52987% 87% 89%89% 262 26291% 91%92% 92%2,492 248 248 203 20284% 83% 83%Fermele Black323 Hispanic Cher323 43% 29483% 83% 296295 295 29681% 85%93% 87%186 83% 39 26983% 90%92% 2621,131 20% 20282% 20285% 85%Fermele Black323 416 29483% 83% 296295 29681% 85%93% 93%186 28% 26983% 90%92% 2021,131 20% 20282% 85%85% 269Fermele Black323 46% 29483% 83% 296295 20% 29681% 20693% 206 20683% 20%93% 2021,131 20% 20284% 202				40-49										
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⁹ / ₂ ⁹ / ₂ ¹¹ / ₂ ¹¹ / ₁ ¹⁰⁰ / ₁ ¹¹ / ₁ ^{70%} / ₁ ^{100%} / ₁ ^{100%} / ₁ ¹¹ / ₁ ^{70%} / ₁ ^{100%} / ₁ ⁷ / ₁ ¹⁰⁰ / ₁ ⁷ / ₁ ⁷ / ₁ ¹⁰⁰ / ₁ ⁷ / ₁ ^{70%} / ₁ ^{100%} / ₁ ^{70%} / ₁														
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Meterosexual Other/Unk 234 85% 84% 192 83% 96% 100 89% 95% 761 85% 87% Transgender Black 16 69% 100% 11 80% 88% 5 . 122 83% 70%		Other	4			10	90%	78%	3			27	89%	75%
Meterosexual Other/Unk 234 85% 84% 192 83% 96% 100 89% 95% 761 85% 87% Transgender Black 16 69% 100% 11 80% 88% 5 . 122 83% 70%														
Other/Unk 51 78% 79% 40 79% 77% 26 85% 81% 195 79% 78% Transgender 16 69% 100% 11 80% 88% 5 . 122 83% 70% Black 14 71% 100% 11 80% 88% 4 . 111 83% 73%	¥	PWID												
Other/Unk 51 78% 79% 40 79% 77% 26 85% 81% 195 79% 78% Transgender 16 69% 100% 11 80% 88% 5 . 122 83% 70% Black 14 71% 100% 11 80% 88% 4 . 111 83% 73%	Ris													
Black 14 71% 100% 11 80% 88% 4 . 111 83% 73%	_	Other/Unk	51	78%	79%	40	79%	77%	26	85%	81%	195	79%	78%
Black 14 71% 100% 11 80% 88% 4 . 111 83% 73%														
Black 14 71% 100% 11 80% 88% 4 . 111 83% 73%	Tra	ansgender	16	69%	100%	11	80%	88%	5			122	83%	70%
		-												
8 Hispanic 2 0 0 5	e	Hispanic	2			0			0			5		
Understand Hispanic 2 . 0 . 0 . 5 . White 0 . 0 . 1 . 3 .	Rac													
Other 0 . 0 . 0 . 3 .														
Sex with Male 15 73% 100% 9 . 4 . 116 84% 68% Get Other/Unk 1 . 2 . 1 . 6 .	isk			73%	100%		•	•			•		84%	68%
	ĸ	Other/Unk	1			2		•	1		•	6	•	•

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 state averages (82% in care and 84% VS compared to 84% and 89%).

Compared to the Detroit averages, PWID and heterosexual men have low care rates, along with those in their 30's.

While persons who identify as transgender are in care at an average rate, they are not virally suppressed nearly as frequently. The same is true for those under 40 years old.

Care and VS rates not shown for frequencies <10

Care and VS data may be found by county and select city in the Michigan Statewide HIV Surveillance Report (Table 5) https://www.michigan.gov/mdhhs/0,5885,7-339-71550 2955 2982 46000 46003-35962--,00.html#current

New Diagnoses During 2018

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

Demographic Group	Nev	v HIV Diag	noses	2018 Census E	stimates	New Stage 3			
	Count %	of Total	Rate per 100,000	Count %	of Total	Count	% of HIV Prevalence		
Total	225	100%	31.8	706,574	100%	93	2%		
Daca/Ethnicity									
Race/Ethnicity Black	201	89%	36.9	544,427	77%	86	2%		
Hispanic	8	4%		51,177	7%	1	1%		
White	13	6%	19.9	65,232	9%	3	1%		
Other	3	1%		45,738	6%	3	2%		
Asian/NH/PI	0	0%		9,744	1%	0	0%		
Am Indian/AN	0	0%		2,428	<1%	0	0%		
Multi/Other	3	1%		33,566	5%	3	3%		
Gender & Race									
Male	175	78%	52.2	335,256	47%	63	2%		
Black	156	69%	61.9	251,892	36%	59	2%		
Hispanic	6	3%		26,112	4%	1	1%		
White	10	4%	29.3	34,077	5%	2	1%		
Other	3	1%		23,175	3%	1	1%		
Female	42	19%	11.3	371,318	53%	28	2%		
Black	37	16%	12.6	292,535	41%	25	2%		
Hispanic	2	<1%		25,065	4%	0	0%		
White	3	1%		31,155	4%	1	3%		
Other	0	0%		22,563	3%	2	7%		
Transgender	8	4%		N/A	N/A	2	2%		
Black	8	4%		N/A	N/A	2	2%		
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	118	52%		N/A	N/A	41	2%		
PWID	10	4%		N/A	N/A	9	2%		
MSM/PWID	5	2%		N/A	N/A	3	2%		
Heterosexual	39	17%		N/A	N/A	22	2%		
Males	2	<1%		N/A	N/A	2	1%		
Females	37	16%		N/A	N/A	20	3%		
Blood Products	0	0%		N/A	N/A	0	0%		
Perinatal Undetermined	0 53	0% 24%		N/A N/A	N/A N/A	1 17	2% 2%		
	55	2470				17	270		
Age (in years) <13	0	0%		130,608	18%	0	0%		
<13 13-19	22	10%	30.6	71,938	10%	0 3	0% 6%		
20-24	22 47	21%	77.4	60,696	9%	6	2%		
25-29	61	21%	115.8	52,693	9% 7%	23	2% 4%		
30-39	50	22%	58.6	85,363	12%	16	2%		
40-49	21	9%	24.1	87,101	12%	20	2%		
50-59	15	7%	17.1	87,728	12%	16	1%		
60+	9	4%		130,448	18%	9	1%		
	-	-		,		-	-		

New stage 3 includes persons who progressed to stage 3 last year. Newly diagnosed individuals who progressed to Stage 3 in the same year are counted in "New HIV Diagnoses" and "New Stage 3", however most only fall into one group. The "% of HIV prevalence" is the proportion of the demographic who progressed to stage 3 (denominator from table 2 - e.g. of PLWH in 2018, 2% progressed to stage 3).

These data may be found by county in the Michigan Statewide HIV Surveillance Report (Table 8) https://www.michigan.gov/mdhhs/0,5885,7-339-71550_2955_2982_46000_46003-35962--,00.html#current

New Diagnoses During 2018

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

Age at HIV Diagnosis																	
Demographic Info Gender & Race/Risk		13-			20-24		29	30-		40-49		50-59		60+		Total	
		Count	Linkage Rate														
Tot	-	22	82%	47	40%	61	31%	50	46%	21	43%	15	40%	9		225	44%
			01/0				01/0							2			
М	ale	21	81%	39	44%	48	27%	36	47%	14	43%	10	50%	7		175	45%
	Black	20	85%	33	45%	44	27%	31	48%	11	55%	10	50%	7		156	47%
Race	Hispanic	0		3		0		2		1		0		0		6	
	White	0		2		4		3		1		0		0		10	40%
	Other	1		1		0		0		1		0		0		3	
	MSM	19	79%	31	45%	32	34%	20	50%	6		5		4		117	50%
Risk	PWID	0		1		2		1		3		0		0		7	
Ϋ́.	Heterosexual	0		0		1		0		0		0		1		2	
	Unknown	2		7		13	8%	15	47%	5		5		2		49	31%
Fe	emale	0		6		12	42%	11	36%	7		4		2		42	38%
	Black	0		5		12	42%	9		7		3		1		37	38%
Race	Hispanic	0		0		0		0		0		1		1		2	
Ra	White	0		1		0		2		0		0		0		3	
	Other	0		0		0		0		0		0		0		0	
~	PWID	0		1		0		1		0		0		1		3	
Risk	Heterosexual	0		5		11	45%	8		7		3		1		35	46%
-	Unknown	0		0		1		2		0		1		0		4	
Ti	ransgender	1		2		1		3		0		1		0		8	
	Black	1		2		1		3		0		1		0		8	
Race	Hispanic	0		0		0		0		0		0		0		0	
Ra	White	0		0		0		0		0		0		0		0	
	Other	0		0		0		0		0		0		0		0	
Risk	Sex with Male	1		2		1		3		0		1		0		8	
R	Unknown	0		0		0		0		0		0		0		0	

The linkage rate is the proportion of those newly diagnosed who received a CD4, viral load, or genotype 9-30 days following diagnosis.

<13 years of age is not listed due to small sample size.

Linkage data by county and select city may be found in the Michigan Statewide HIV Surveillance Report (Table 9) https://www.michigan.gov/mdhbs/0,5885,7-339-71550 2955 2952 46000 46003-35962--,00.html#current

The Michigan Statewide HIV Surveillance Report also includes information regarding:

1) County and select city level data for reported prevalence, estimated prevalence, care rate, and viral suppression rate.

2) Number of acute diagnoses by county. An acute diagnosis indicates a person was diagnosed shortly after infection

3) Pediatric Diagnoses for the past 5 years.

Follow the link to reach these data

https://www.michigan.gov/mdhhs/0,5885,7-339-71550 2955 2982 46000 46003-35962--,00.html#current