

# Detroit Metro Area HIV Surveillance Report New Diagnoses and Prevalence Tables

All data as of July 1, 2018



Detroit Metro Area (DMA) includes counties Lapeer, Macomb, Monroe, Oakland, St. Clair, and Wayne

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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. "HIV in Michigan's Detroit Metro Area, 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 Metro Area 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 the Detroit Metro Area, 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 the Detroit Metro Area. Due to differences in the underlying dataset, do not compare any numbers or figures in the new Detroit Metro Area HIV Surveillance Report to reports preceding 2016.

New Diagnoses &

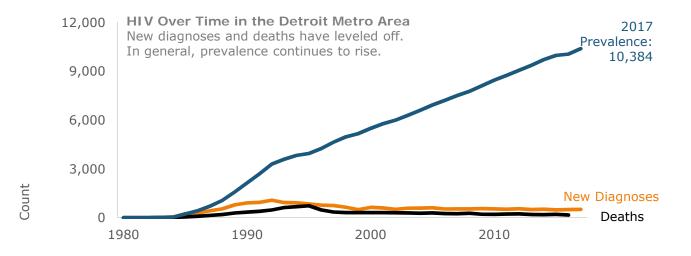
## **Key Definitions**

#### 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.	the DMA Prevalence								
Prevalence:	The total number of persons currently living with HIV (PLWH).	All cause deaths &								
Reported: Prevalence:	The number of diagnosed persons who were reported to surveillance.	of the DMA								
Estimated Prevalence:	The CDC estimates that 13% of PLWH in Mic words, the reported prevalence is 87% of the undiagnosed PLWH are distributed by county living there (Table 4 of Michigan HIV Surveill number, the estimated prevalence is rounded	e estimated prevalence. The based on the proportion of PLWH ance Report). When displayed as a								
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.									
<u>Linkage, Care, an</u>	d Viral Suppression									
Linked to Care	The proportion of newly diagnosed PI WH wh	o 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).

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Community Viral	The proportion virally suppressed ( $\leq 200$ c/mL) out of <i>all</i> PLWH.
Suppression:	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>
<b>Demographics</b>	
Race:	In this report, persons described as white, Black, Asian/Native Hawaiian/Pacific Islander, or American Indian/Alaska Native are all non-Hispanic/Latinx; 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.



### Overview

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

Year	HIV Infe	ction - All St	ages	HIV	HIV Stage 3 Infection					
	Diagnoses	Deaths	Prevalence	Diagnoses	Deaths	Prevalence				
1981	3	2	1	3	2	1				
1982	2	0	3	2	0	3				
1983	19	5	17	16	5	14				
1984	39	19	37	35	19	30				
1985	241	45	233	68	45	53				
1986	285	84	434	113	81	85				
1987	430	145	719	224	138	171				
1988	549	199	1,069	325	195	301				
1989	799	292	1,576	469	284	486				
1990	909	340	2,145	536	325	697				
1991	945	387	2,703	651	371	977				
1992	1075	479	3,299	856	452	1,381				
1993	931	632	3,598	758	598	1,541				
1994	911	679	3,830	704	634	1,611				
1995	852	732	3,950	726	675	1,662				
1996	777	478	4,249	549	443	1,768				
1997	746	353	4,642	491	312	1,947				
1998	649	317	4,974	447	267	2,127				
1999	501	313	5,162	394	269	2,252				
2000	637	311	5,488	453	264	2,441				
2001	602	312	5,778	382	259	2,564				
2002	517	300	5,995	383	251	2,696				
2003	588	297	6,286	413	246	2,863				
2004	592	278	6,600	395	227	3,031				
2005	612	290	6,922	483	235	3,279				
2006	543	257	7,208	405	218	3,466				
2007	544	244	7,508	358	212	3,612				
2008	538	276	7,770	362	221	3,753				
2009	554	216	8,108	308	172	3,889				
2010	538	203	8,443	341	168	4,062				
2011	524	223	8,744	316	170	4,208				
2012	553	238	9,059	270	192	4,286				
2013	498	194	9,363	287	161	4,412				
2014	523	181	9,705	230	141	4,501				
2015	483	210	9,974	214	170	5,335				
2016	499	165	10,051	251	124	5,375				
2017	512		10,384	199		5,410				
	20,520	9,696		13,417	8,546					

The current reported prevalence of HIV infection in the Detroit Metro Area is 10,384 cases. The prevalence of stage 3 HIV infection, which is a subset of the overall HIV infection prevalence, is 5,410 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, 2018

Table 2. Demographic Information of Detroit Metro Area Residents Living with HIV

Demographic Group	Estimated Prevalence	Non St	age 3	Repo Stac		Infection	Total		2017 Census Estimates		
Group	i i evalence	Count	%	Count	%	Count	%	Rate per 100,000	Count	%	
Total	11,950	4,974	100%	5,410	100%	10,384	100%	243.0	4,273,000	100%	
Race/Ethnicity Black Hispanic White Other Asian/NH/PI Am Indian/Al Multi/Other	8,070 510 2,920 460 80 N 20 370	3,299 232 1,283 160 39 7 114	66% 5% 26% 3% <1% <1% 2%	3,712 211 1,254 233 30 2 201	69% 4% 23% 4% <1% <1% 4%	7,011 443 2,537 393 69 9 315	68% 4% 24% 4% <1% <1% 3%	729.6 230.9 89.8 133.8 36.3  346.5	960,880 191,891 2,826,592 293,637 190,139 12,582 90,916	22% 4% 66% 7% 4% <1% 2%	
Gender & Race Male Black Hispanic White Other Female Black Hispanic White Other Transgender Black Hispanic White Other	9,230 5,900 410 2,570 360 2,560 2,040 100 350 100 170 150 10 20 10	3,853 2,432 195 1,099 127 1,038 795 36 176 31 83 72 1 8 2	77% 49% 4% 22% 3% 21% 16% <1% 4% <1% <1% <1% <1%	4,162 2,689 161 1,130 182 1,185 969 48 120 48 63 54 2 4 3	77% 50% 3% 21% 3% 22% 18% <1% <1% <1% <1% <1%	8,015 5,121 356 2,229 309 2,223 1,764 84 296 79 146 126 3 12 5	77% 49% 3% 21% 3% 21% 17% <1% 3% <1% 1% <1% <1%	385.7 1,159.4 367.5 159.9 212.8 101.3 339.8 88.4 20.7 53.2     	2,078,057 441,675 96,871 1,394,320 145,191 2,194,943 519,205 95,020 1,432,272 148,446 N/A N/A N/A N/A N/A	49% 10% 2% 33% 51% 12% 2% 34% 3% N/A N/A N/A N/A N/A	
Risk MSM PWID MSM/PWID Heterosexual Males Females Blood Products Perinatal Undetermined	6,500 800 380 2,300 500 1,800 30 140 1,830	2,856 226 131 903 179 724 9 63 786	57% 5% 3% 18% 4% 15% <1% 1% 16%	2,787 469 194 1,087 252 835 16 54 803	52% 9% 4% 20% 5% 15% <1% 15%	5,643 695 325 1,990 431 1,559 25 117 1,589	54% 7% 3% 19% 4% 15% <1% 1% 15%	       	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	
0-12 13-19 20-24 25-29 30-39 40-49 50-59 60+	30 140 690 1,370 2,280 2,640 3,230 1,600	21 95 470 844 1,157 947 999 439	<1% 2% 9% 17% 23% 19% 20% 9%	4 19 123 346 824 1,340 1,806 948	<1% <1% 2% 6% 15% 25% 33% 18%	25 114 593 1,190 1,981 2,287 2,805 1,387	<1% 1% 6% 11% 19% 22% 27% 13%	6.5 28.2 223.3 391.7 382.9 417.5 452.3 113.0	387,114 404,152 265,605 303,840 517,413 547,807 620,154 1,226,950	9% 9% 7% 12% 13% 15% 29%	

\*Two people have unknown age and are not included in the current age breakdown

These data may be found by county in the Michigan Statewide HIV Surveillance Report (Table 4) <a href="https://www.michigan.gov/mdhhs/0,5885,7-339-71550\_2955\_2982\_46000\_46003-35962--">https://www.michigan.gov/mdhhs/0,5885,7-339-71550\_2955\_2982\_46000\_46003-35962--</a>, 00.html#current

### Prevalence

on January 1, 2018

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

		Current Age <13 yrs 13-19 20-24 25-29 30-39														
_			<13 yrs			13-19			20-24			25-29				
	der &	Count	Care	VS	Count	Care	VS	Count	Care	VS	Count	Care	VS	Count	Care	VS
Tota	e/Risk I	25	Rate 80%	Rate 95%	114	Rate 82%	Rate 79%	593	Rate 78%	Rate 80%	1,190	Rate 76%	Rate 79%	1,981	Rate 79%	Rate 83%
1010	I	25	00 /0	JJ 70	117	02 /0	1 5 /0	555	7070	00 /0	1,190	7070	1370	1,501	/ 5 /0	0570
Ма	le	15	80%	92%	88	87%	80%	503	78%	82%	993	76%	80%	1,510	79%	84%
	Black	10	90%	89%	75	83%	79%	413	78%	80%	800	75%	77%	1,008	76%	81%
e	Hispanic	0			3			14	70%	71%	41	81%	97%	94	77%	91%
Race	White	2			7			60	87%	92%	118	77%	95%	342	88%	91%
	Other	3			3		•	16	69%	100%	34	81%	76%	66	75%	87%
	MSM	N/A	N/A	N/A	69	92%	82%	437	80%	82%	840	78%	82%	1,212	82%	84%
×	PWID	N/A	N/A	N/A	0			2			3			13	67%	88%
Risk	Heterosexual	N/A	N/A	N/A	1			9			21	59%	90%	56	71%	88%
	Other/Unk	15	80%	92%	18	73%	73%	55	70%	77%	129	61%	62%	229	66%	86%
Fer	male	10	80%	100%	23	68%	85%	68	77%	68%	162	80%	74%	431	81%	79%
	Black	8			19	69%	82%	53	77%	67%	129	83%	71%	317	80%	78%
Race	Hispanic	0			2			0			7			21	74%	92%
Ra	White	2			0			12	82%	78%	22	56%	100%	76	80%	81%
	Other	0			2		•	3		•	4	•	•	17	94%	80%
	PWID	N/A	N/A	N/A	0			1			9			26	87%	58%
Risk	Heterosexual	N/A	N/A	N/A	7			47	78%	69%	107	81%	77%	338	81%	80%
œ	Other/Unk	10	80%	100%	16	69%	82%	20	74%	64%	46	80%	67%	67	76%	80%
Tra	insgender	0			3			22	72%	83%	35	78%	68%	40	82%	70%
	Black	0			3			21	72%	83%	30	82%	70%	35	79%	65%
Race	Hispanic	0			0			0			1			1		
Ra	White	0			0			1			1			3		
	Other	0		•	0		•	0		•	3		•	1	•	•
×	Sex with Male	N/A	N/A	N/A	3			22	72%	83%	35	78%	68%	39	81%	72%
Risk	Other/Unk	0	-	•	0			0			0			1		

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) <a href="https://www.michigan.gov/mdhhs/0,5885,7-339-71550">https://www.michigan.gov/mdhhs/0,5885,7-339-71550</a> 2955</a> 2982</a> 46000</a> 46003-35962--,00.html#current

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#### Prevalence

on January 1, 2018

Table 3. Demographic Information and Care and Viral Suppresion (VS) Rates of Detroit Metro Area Residents Living with HIV

Current Age   40-49 50-59 60+ Total*													
				60+		Total*							
	der &	Count	Care	VS	Count	Care	VS	Count	Care	VS	Count	Care	VS
	e/Risk	2 2 2 7	Rate	Rate	2 2 2 5	Rate	Rate	1 207	Rate	Rate	10.000	Rate	Rate
Tota	1	2,287	81%	88%	2,805	84%	91%	1,387	82%	94%	10,382	81%	87%
Ма		1,642	82%	89%	2,187	84%	91%	1,077	82%	94%	8,015	81%	88%
	Black	971	82%	86%	1,206	83%	88%	638	80%	92%	5,121	80%	85%
Race	Hispanic	83	73%	96%	85	80%	91%	36	78%	92%	356	77%	92%
Å	White	513	84%	94%	812	85%	95%	375	86%	97%	2,229	85%	94%
	Other	75	80%	88%	84	92%	86%	28	93%	96%	309	83%	87%
	MSM	1 1 7 0	84%	90%	1 404	87%	0.20/	634	87%	060/		84%	88%
~	PWID	1,170 38	84% 72%	90% 81%	1,494 148	87% 79%	92% 83%	634 190	87% 69%	96% 88%	5,856 394	84% 73%	88% 85%
Risk		58 124	72%	85%	140 144	79% 79%	85% 91%	75	80%	88%	430	75% 76%	85% 88%
œ	Heterosexual												
	Other/Unk	310	77%	89%	401	77%	90%	178	81%	93%	1,335	74%	87%
Female		623	80%	84%	601	82%	90%	303	82%	95%	2,221	81%	86%
	Black	517	80%	84%	467	81%	90%	253	82%	94%	1,763	81%	85%
e	Hispanic	25	92%	90%	17	82%	93%	12	75%	100%	. 84	83%	90%
Race	White	64	79%	83%	92	88%	92%	27	85%	100%	295	81%	88%
	Other	17	50%	100%	25	84%	85%	11	91%	100%	79	81%	88%
~	PWID	59	79%	70%	121	72%	85%	84	76%	95%	300	76%	83%
Risk	Heterosexual	463	83%	87%	390	88%	92%	180	84%	95%	1,532	84%	87%
ш	Other/Unk	101	65%	79%	90	71%	90%	39	85%	94%	389	73%	82%
-			0.50/	000/	4-	0.407	0.004	_				0.20 <i>1</i>	700/
Ira	ansgender	22	95%	89%	17	94%	93%	7	•	•	146	83%	78%
0	Black	21	95%	88%	13	92%	92%	3	•	•	126	83%	76%
Race	Hispanic	1		•	0	•	•	0	•	•	3		•
Å	White	0		•	4	•	•	3		•	12	89%	100%
	Other	0		•	0	•	•	1		•	5	•	•
~	Sex with Male	20	94%	88%	15	93%	92%	5			139	83%	77%
Risk			94%		2	9370		5 2	•	•		03%0	
	Other/Unk	2	•	•	2	•	•	2		•	7	•	•

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:

Latinos (Hispanic men) 20-49 years old have low care rates, but those who are in care are extremely likely to be VS.

Other groups frequently not in care are PWID (men 30-59, and women over 50), heterosexual men 25-49, all 20-29 year olds, and men - especially men of color - 25-39.

All 13-29 year old achieve VS at a low rate, as do 30-39 year old women and transgender persons.

\*One black and one white female have unknown ages and are not included in this table; 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) <a href="https://www.michigan.gov/mdhs/0,5885,7-339-71550">https://www.michigan.gov/mdhs/0,5885,7-339-71550</a> 2955</a> 2982</a> 46000</a> 46003-35962--,00.html#current

Table 4. Demographic	Informatio	n of Detroi	t Metro Area Re	esidents Newly Dia	gnosed wi	th HIV	
Demographic Group		v HIV Diag		2017 Census E	-		Stage 3
5 1 1	Count	% of	Rate per	Count	% of	Count	% of HIV
		Total	100,000		Total		Prevalence
Total	512	100%	12.0	4,273,000	100%	199	2%
Race/Ethnicity							
Black	342	67%	35.6	960,880	22%	134	2%
Hispanic	27	5%	14.1	191,891	4%	5	1%
White	133	26%	4.7	2,826,592	66%	58	2%
Other	10	2%	3.4	293,637	7%	2	1%
Asian/NH/PI	3	<1%		190,139	4%	1	1%
Am Indian/AN	0	0%		12,582	<1%	0	0%
Multi/Other	7	1%		90,916	2%	1	0%
Gender & Race							
Male	401	78%	19.3	2,078,057	49%	149	2%
Black	260	78 % 51%	58.9	441,675	10%	97	2%
Hispanic	200	4%	21.7	96,871	2%	4	1%
White	112	22%	8.0	1,394,320	33%	47	2%
Other	8	2%		145,191	3%	1	0%
Female	96	19%	4.4	2,194,943	51%	42	2%
Black	71	14%	13.7	519,205	12%	30	2%
Hispanic	6	1%		95,020	2%	1	1%
White	18	4%	1.3	1,432,272	34%	11	4%
Other	1	<1%		148,446	3%	0	0%
Transgender	15	3%		N/A	N/A	8	5%
Black	11	2%		N/A	N/A	7	6%
Hispanic	0	0%		N/A	N/A	0	0%
White	3	<1%		N/A	N/A	0	0%
Other	1	<1%		N/A	N/A	1	20%
Risk							
MSM	292	57%		N/A	N/A	98	2%
PWID	20	4%		Ň/A	N/A	16	2%
MSM/PWID	10	2%		N/A	N/A	5	2%
Heterosexual	97	19%		N/A	N/A	48	2%
Males	19	4%		N/A	N/A	18	4%
Females	78	15%		N/A	N/A	30	2%
Blood Products	0	0%		N/A	N/A	0	0%
Perinatal	1	<1%		N/A	N/A	2	2%
Undetermined	92	18%		N/A	N/A	30	2%
Age (in years)							
0-12	1	<1%		387,114	9%	0	0%
13-19	29	6%	7.2	404,152	9%	5	4%
20-24	92	18%	34.6	265,605	6%	12	2%
25-29	128	25%	42.1	303,840	7%	26	2%
30-39	105	21%	20.3	517,413	12%	48	2%
40-49	83	16%	15.2	547,807	13%	45	2%
50-59	56	11%	9.0	620,154	15%	41	1%
60+	18	4%	1.5	1,226,950	29%	22	2%

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 2017, 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 2017

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

	Age at HIV Diagnosis																
	mographic Info	13-		20-		25-29		30-		40-		50-		60		Tot	
	nder & ce/Risk	Count	Linkage Rate														
Tot		29	66%	92	45%	128	46%	105	51%	83	47%	56	43%	18	50%	512	48%
100	ai	29	00%	92	4,5 %	120	40 70	105	J1 70	05	47 70	50	4370	10	50%	512	40 70
М	ale	23	74%	82	44%	106	46%	77	49%	58	50%	39	38%	16	50%	401	48%
	Black	21	76%	62	35%	82	48%	42	38%	32	53%	19	37%	2		260	46%
e	Hispanic	0		3		5		8		3		2		0		21	33%
Race	White	2		14	64%	16	50%	26	69%	22	50%	18	44%	14	43%	112	54%
	Other	0		3		3		1		1		0		0		8	
	MSM	21	71%	75	45%	81	47%	52	60%	31	55%	19	32%	11	55%	290	51%
Risk	PWID	0		0		0		1		3		2		0		6	
Ri	Heterosexual	1		1		4		7		2		3		1		19	53%
	Unknown	1		6		21	43%	17	24%	22	50%	15	40%	4		86	40%
F	emale	4		7		18	44%	26	58%	22	41%	16	50%	2		96	48%
	Black	3		5		13	38%	16	56%	17	41%	14	50%	2		71	46%
Race	Hispanic	1		0		1		2		1		1		0		6	
Ra	White	0		2		4		8		3		1		0		18	50%
	Other	0		0		0		0		1		0		0		1	
~	PWID	0		1		4		4		1		4		0		14	43%
Risk	Heterosexual	4		5		14	43%	20	55%	19	42%	11	45%	2		75	45%
_	Unknown	0		1		0		2		2		1		0		7	
Т	ransgender	2		3		4		2		3		1		0		15	53%
	Black	2		2		3		1		3		0		0		11	45%
Race	Hispanic	0		0		0		0		0		0		0		0	
Ra	White	0		1		0		1		0		1		0		3	
	Other	0		0		1		0		0		0		0		1	
Risk	Sex with Male	2		3		4		2		3		1		0		15	53%
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 - in 2016 1 black female <13 years old with unknown risk was diagnosed and linked to care.

Linkage data by county and select city may be found in the Michigan Statewide HIV Surveillance Report (Table 9) <a href="https://www.michigan.gov/mdhb/0,5885,7-339-71550">https://www.michigan.gov/mdhb/0,5885,7-339-71550</a> 2955 2982 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