



# Annual Detroit Metro Area\* HIV Surveillance Report - Tables New Diagnoses and Prevalence, 2015

All data as of May 1, 2016

\*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. The "Annual Detroit Metro Area 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 Metro Area 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 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 Annual Detroit Metro Area 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.

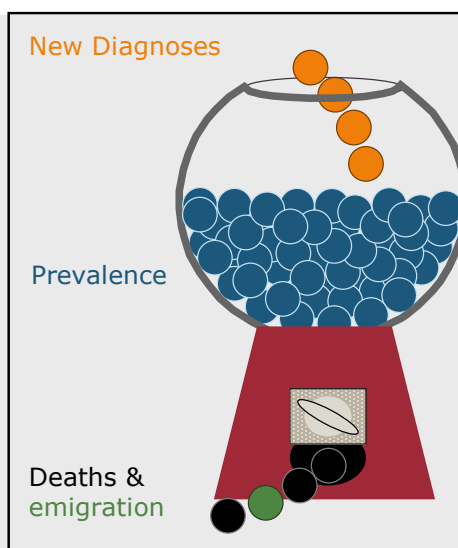
**Estimated Prevalence:** The number of persons diagnosed plus the estimated number of undiagnosed persons. The latter is calculated using the national estimate: 14%. The sum of diagnosed and undiagnosed is rounded up to the nearest ten.

**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.

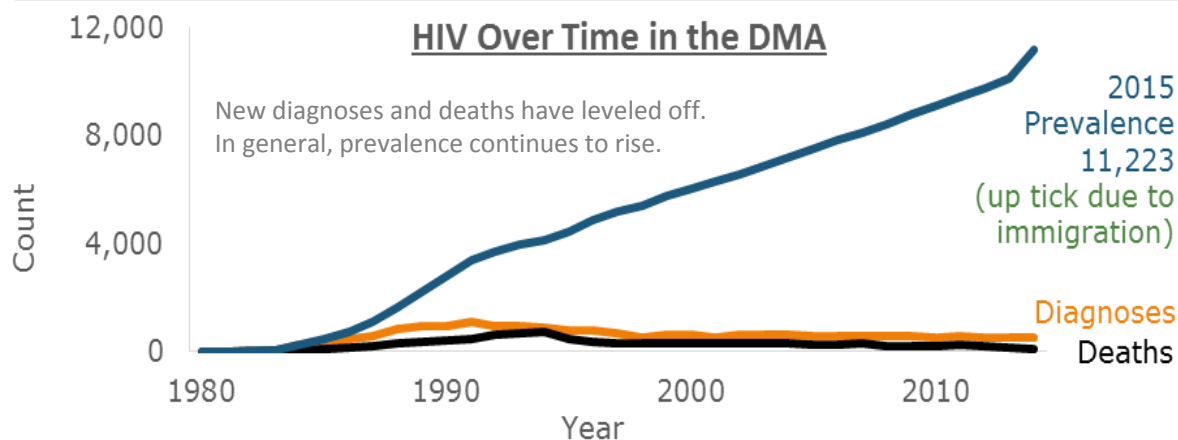
**PWID:** Persons who inject drugs.

**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	3	2	1	3	2	1
1982	3	0	4	3	0	4
1983	20	5	19	17	5	16
1984	40	19	40	35	19	32
1985	242	45	237	68	45	55
1986	289	84	442	113	81	87
1987	436	145	733	224	138	173
1988	561	199	1,095	334	195	312
1989	815	292	1,618	478	284	506
1990	926	338	2,206	544	325	725
1991	959	387	2,778	658	371	1,012
1992	1096	479	3,395	868	452	1,428
1993	957	632	3,720	783	598	1,613
1994	929	677	3,972	733	634	1,712
1995	876	731	4,117	746	675	1,783
1996	792	475	4,434	576	443	1,916
1997	769	353	4,850	499	312	2,103
1998	667	313	5,204	465	267	2,301
1999	524	305	5,423	414	269	2,446
2000	643	310	5,756	471	264	2,653
2001	611	311	6,056	395	259	2,789
2002	519	294	6,281	407	251	2,945
2003	592	293	6,580	436	246	3,135
2004	599	277	6,902	413	227	3,321
2005	616	282	7,236	506	235	3,592
2006	554	261	7,529	423	221	3,794
2007	551	243	7,837	388	213	3,969
2008	541	277	8,101	390	222	4,137
2009	563	209	8,455	338	168	4,307
2010	538	201	8,792	360	168	4,499
2011	530	217	9,105	327	167	4,659
2012	553	234	9,424	305	190	4,774
2013	501	168	9,757	314	141	4,947
2014	522	151	10,128	244	118	5,073
2015	488	98	<b>11,223</b>	230	81	<b>5,946</b>
	19,825	9,307		13,508	8,286	

The current reported prevalence of HIV infection in the Detroit Metro Area is 11,223 cases. The prevalence of stage 3 HIV infection, which is a subset of the overall HIV infection prevalence, is 5,946 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 Detroit Metro Area 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	%			
<b>Total</b>	<b>11,600</b>	<b>4,639</b>	<b>100%</b>	<b>5,335</b>	<b>100%</b>	<b>9,974</b>	<b>100%</b>	<b>234.1</b>	<b>4,260,839</b>	<b>100%</b>
<b>Race/Ethnicity</b>										
Black	7,990	3,143	68%	3,727	70%	6,870	69%	712.7	963,956	23%
Hispanic	450	181	4%	201	4%	382	4%	210.0	181,872	4%
White	2,810	1,183	26%	1,232	23%	2,415	24%	84.7	2,850,398	67%
Other	360	132	3%	175	3%	307	3%	116.0	264,613	6%
Asian/NH/PI	80	33	<1%	29	<1%	62	<1%	37.2	166,786	4%
Am Indian/AN	20	11	<1%	2	<1%	13	<1%	101.8	12,768	<1%
Multi/Other	270	88	2%	144	3%	232	2%	272.8	85,059	2%
<b>Gender &amp; Race</b>										
Male	8,910	3,561	77%	4,097	77%	7,658	77%	370.6	2,066,604	49%
Black	5,810	2,297	50%	2,692	50%	4,989	50%	1125.1	443,419	10%
Hispanic	350	148	3%	152	3%	300	3%	327.6	91,569	2%
White	2,480	1,012	22%	1,115	21%	2,127	21%	151.7	1,402,005	33%
Other	290	104	2%	138	3%	242	2%	186.7	129,611	3%
Female	2,580	1,023	22%	1,194	22%	2,217	22%	101.0	2,194,235	51%
Black	2,100	800	17%	999	19%	1,799	18%	345.6	520,537	12%
Hispanic	100	32	<1%	47	<1%	79	<1%	87.5	90,303	2%
White	330	163	4%	114	2%	277	3%	19.1	1,448,393	34%
Other	80	28	<1%	34	<1%	62	<1%	45.9	135,002	3%
Transgender	120	55	1%	44	<1%	99	<1%	--	N/A	N/A
Black	100	46	<1%	36	<1%	82	<1%	--	N/A	N/A
Hispanic	10	1	<1%	2	<1%	3	<1%	--	N/A	N/A
White	20	8	<1%	3	<1%	11	<1%	--	N/A	N/A
Other	10	0	0%	3	<1%	3	<1%	--	N/A	N/A
<b>Risk</b>										
MSM	6,020	2,500	54%	2,671	50%	5,171	52%	--	N/A	N/A
PWID	940	270	6%	534	10%	804	8%	--	N/A	N/A
MSM/PWID	380	125	3%	198	4%	323	3%	--	N/A	N/A
Heterosexual	2,200	826	18%	1,059	20%	1,885	19%	--	N/A	N/A
Males	480	164	4%	241	5%	405	4%	--	N/A	N/A
Females	1,730	662	14%	818	15%	1,480	15%	--	N/A	N/A
Blood Products	40	10	<1%	21	<1%	31	<1%	--	N/A	N/A
Perinatal	140	71	2%	49	<1%	120	1%	--	N/A	N/A
Undetermined	1,910	837	18%	803	15%	1,640	16%	--	N/A	N/A
<b>Age</b>										
0-12	30	22	<1%	3	<1%	25	<1%	6.4	392,129	9%
13-19	90	55	1%	15	<1%	70	<1%	16.7	420,352	10%
20-24	640	432	9%	112	2%	544	5%	192.5	282,653	7%
25-29	1,140	693	15%	284	5%	977	10%	366.6	266,508	6%
30-39	2,030	968	21%	774	15%	1,742	17%	342.4	508,784	12%
40-49	2,770	1,005	22%	1,370	26%	2,375	24%	404.4	587,232	14%
50-59	3,280	997	21%	1,815	34%	2,812	28%	435.7	645,378	15%
60+	1,660	464	10%	962	18%	1,426	14%	123.2	1,157,837	27%

# Prevalence

on January 1, 2016

Table 3. Demographic Information and Care and Viral Suppression (VL) Rates on Detroit Metro Area 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
<b>Total</b>	25	78%	78%	70	66%	71%	544	79%	66%	977	74%	70%	1,742	76%	79%
Male	15	86%	83%	47	61%	70%	460	80%	67%	815	73%	70%	1,293	75%	80%
Race															
Black	10	100%	78%	39	58%	67%	399	80%	65%	670	73%	66%	896	74%	76%
Hispanic	0	.	.	1	.	.	12	70%	71%	29	85%	90%	71	75%	84%
White	2	.	.	6	.	.	35	73%	89%	94	70%	91%	279	79%	88%
Other	3	.	.	1	.	.	14	90%	78%	22	76%	75%	47	68%	83%
Risk															
MSM	N/A	N/A	N/A	21	67%	83%	387	81%	69%	677	75%	71%	1,008	76%	80%
PWID	N/A	N/A	N/A	0	.	.	2	.	.	3	.	.	15	86%	55%
Heterosexual	N/A	N/A	N/A	0	.	.	7	.	.	18	86%	75%	48	77%	69%
Other/Unk	15	86%	83%	26	58%	64%	64	70%	53%	117	63%	57%	222	68%	83%
Female	9	.	.	19	71%	83%	77	79%	66%	135	80%	71%	420	79%	75%
Race															
Black	7	.	.	16	71%	80%	63	78%	66%	107	79%	68%	331	78%	76%
Hispanic	0	.	.	1	.	.	1	.	.	7	.	.	20	63%	80%
White	2	.	.	0	.	.	11	78%	83%	18	71%	90%	55	92%	77%
Other	0	.	.	2	.	.	2	.	.	3	.	.	14	71%	60%
Risk															
PWID	N/A	N/A	N/A	0	.	.	2	.	.	6	.	.	20	79%	57%
Heterosexual	N/A	N/A	N/A	3	.	.	45	85%	78%	83	81%	67%	325	82%	76%
Other/Unk	9	.	.	16	67%	90%	30	74%	50%	46	80%	77%	75	63%	79%
Transgender	1	.	.	4	.	.	7	.	.	27	61%	57%	29	78%	80%
Race															
Black	1	.	.	4	.	.	7	.	.	21	58%	55%	26	75%	82%
Hispanic	0	.	.	0	.	.	0	.	.	2	.	.	0	.	.
White	0	.	.	0	.	.	0	.	.	3	.	.	2	.	.
Other	0	.	.	0	.	.	0	.	.	1	.	.	1	.	.
Risk															
Sex with Male	N/A	N/A	N/A	4	.	.	7	.	.	26	61%	57%	28	81%	80%
Other/Unk	1	.	.	0	.	.	0	.	.	1	.	.	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 Detroit Metro Area 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			
<b>Total</b>	<b>2,375</b>	<b>77%</b>	<b>85%</b>	<b>2,812</b>	<b>79%</b>	<b>88%</b>	<b>1,426</b>	<b>78%</b>	<b>91%</b>	<b>9,971</b>	<b>77%</b>	<b>83%</b>
Male	1,723	78%	87%	2,210	80%	89%	1,093	78%	91%	7,656	78%	84%
Race												
Black	1,050	78%	83%	1,267	78%	87%	656	73%	88%	4,987	76%	80%
Hispanic	76	63%	88%	74	71%	89%	37	78%	92%	300	72%	87%
White	527	80%	93%	808	84%	92%	376	85%	95%	2,127	82%	92%
Other	70	71%	89%	61	87%	82%	24	79%	89%	242	77%	84%
Risk												
MSM	1,236	81%	88%	1,456	83%	90%	632	84%	92%	5,417	80%	85%
PWID	42	52%	71%	190	70%	79%	218	62%	88%	470	65%	81%
Heterosexual	116	72%	83%	146	77%	86%	69	78%	80%	404	76%	81%
Other/Unk	329	70%	86%	418	74%	89%	174	74%	92%	1,365	71%	83%
Female	638	77%	81%	589	77%	85%	329	77%	92%	2,216	77%	82%
Race												
Black	536	77%	80%	460	77%	85%	279	76%	91%	1,799	77%	81%
Hispanic	23	68%	93%	16	63%	90%	11	82%	89%	79	70%	84%
White	63	80%	82%	97	77%	85%	30	79%	100%	276	81%	84%
Other	16	88%	93%	16	75%	89%	9	.	.	62	81%	83%
Risk												
PWID	74	68%	66%	135	72%	85%	96	66%	95%	333	70%	81%
Heterosexual	462	81%	83%	361	80%	86%	185	81%	90%	1,464	81%	82%
Other/Unk	102	65%	84%	93	72%	82%	48	80%	94%	419	70%	81%
Transgender	14	77%	90%	13	69%	88%	4	.	.	99	70%	74%
Race												
Black	12	73%	100%	9	.	.	2	.	.	82	67%	73%
Hispanic	0	.	.	1	.	.	0	.	.	3	.	.
White	1	.	.	3	.	.	2	.	.	11	100%	100%
Other	1	.	.	0	.	.	0	.	.	3	.	.
Risk												
Sex with Male	13	77%	90%	11	64%	86%	4	.	.	93	70%	75%
Other/Unk	1	.	.	2	.	.	0	.	.	6	.	.

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

PLWH in the Detroit Metro Area (DMA) have similar, but slightly lower care and viral suppression rates compared to the state.

Hispanics and Latinos achieve very high viral suppression rates once in care, however, a small proportion (relative to the DMA average) of the total HIV population receive care.

Persons 13-19 are in care less often than any other age group. Additionally persons 13-29 years old, once in care, achieve viral suppression less often than other races. Those in their early 20's have extremely low viral suppression rates.

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 Detroit Metro Area 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
<b>Total</b>	<b>488</b>	<b>100%</b>	<b>11.5</b>	<b>4,260,839</b>	<b>100%</b>	<b>220</b>	<b>2%</b>
<b>Race/Ethnicity</b>							
Black	343	70%	35.6	963,956	23%	167	2%
Hispanic	29	6%	15.9	181,872	4%	8	2%
White	108	22%	3.8	2,850,398	67%	41	2%
Other	8	2%	--	264,613	6%	4	1%
Asian/NH/PI	7	1%	--	166,786	4%	2	3%
Am Indian/AN	0	0%	--	12,768	<1%	0	0%
Multi/Other	1	<1%	--	85,059	2%	2	1%
<b>Gender &amp; Race</b>							
Male	388	80%	18.8	2,066,604	49%	162	2%
Black	267	55%	60.2	443,419	10%	119	2%
Hispanic	24	5%	26.2	91,569	2%	7	2%
White	89	18%	6.3	1,402,005	33%	34	2%
Other	8	2%	--	129,611	3%	2	1%
Female	92	19%	4.2	2,194,235	51%	54	2%
Black	70	14%	13.4	520,537	12%	44	2%
Hispanic	5	1%	--	90,303	2%	1	1%
White	17	3%	1.2	1,448,393	34%	7	3%
Other	0	0%	--	135,002	3%	2	3%
Transgender	8	2%	--	N/A	N/A	4	4%
Black	6	1%	--	N/A	N/A	4	5%
Hispanic	0	0%	--	N/A	N/A	0	0%
White	2	<1%	--	N/A	N/A	0	0%
Other	0	0%	--	N/A	N/A	0	0%
<b>Risk</b>							
MSM	274	56%	--	N/A	N/A	104	2%
PWID	14	3%	--	N/A	N/A	13	2%
MSM/PWID	7	1%	--	N/A	N/A	5	2%
Heterosexual	81	17%	--	N/A	N/A	44	2%
Males	23	5%	--	N/A	N/A	6	1%
Females	58	12%	--	N/A	N/A	38	3%
Blood Products	0	0%	--	N/A	N/A	0	0%
Perinatal	1	<1%	--	N/A	N/A	1	1%
Undetermined	111	23%	--	N/A	N/A	53	3%
<b>Age (in years)</b>							
0-12	1	<1%	--	392,129	9%	0	0%
13-19	26	5%	6.2	420,352	10%	6	9%
20-24	133	27%	47.1	282,653	7%	30	6%
25-29	89	18%	33.4	266,508	6%	35	4%
30-39	90	18%	17.7	508,784	12%	48	3%
40-49	75	15%	12.8	587,232	14%	44	2%
50-59	58	12%	9.0	645,378	15%	38	1%
60+	16	3%	1.4	1,157,837	27%	19	1%

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 Detroit Metro Area Residents Newly Diagnosed with HIV

Demographic Info 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>	26	23%	133	39%	89	42%	90	44%	75	48%	58	43%	16	19%	488	41%
Male	23	22%	116	41%	69	46%	69	46%	55	47%	45	44%	10	30%	388	43%
Race																
Black	22	23%	100	40%	48	35%	40	45%	24	54%	27	41%	5	.	267	39%
Hispanic	1	.	4	.	2	.	4	.	7	.	6	.	0	.	24	42%
White	0	.	8	.	18	72%	22	45%	24	42%	12	58%	5	.	89	54%
Other	0	.	4	.	1	.	3	.	0	.	0	.	0	.	8	.
Risk																
MSM	20	20%	96	42%	55	49%	44	43%	32	44%	21	57%	7	.	275	43%
PWID	0	.	2	.	0	.	1	.	1	.	1	.	0	.	5	.
Heterosexual	1	.	3	.	4	.	5	.	4	.	6	.	0	.	23	35%
Unknown	2	.	15	33%	10	40%	19	47%	18	44%	17	47%	3	.	85	40%
Female	2	.	17	29%	16	25%	19	42%	19	47%	13	38%	6	.	92	35%
Race																
Black	2	.	15	27%	11	9%	12	42%	14	50%	12	42%	4	.	70	33%
Hispanic	0	.	0	.	0	.	4	.	1	.	0	.	0	.	5	.
White	0	.	2	.	5	.	3	.	4	.	1	.	2	.	17	41%
Other	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
Risk																
PWID	0	.	1	.	3	.	1	.	2	.	1	.	1	.	9	.
Heterosexual	1	.	12	33%	11	9%	13	38%	13	38%	6	.	2	.	58	29%
Unknown	1	.	4	.	2	.	5	.	4	.	6	.	3	.	25	48%
Transgender	1	.	0	.	4	.	2	.	1	.	0	.	0	.	8	.
Race																
Black	1	.	0	.	2	.	2	.	1	.	0	.	0	.	6	.
Hispanic	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
White	0	.	0	.	2	.	0	.	0	.	0	.	0	.	2	.
Other	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
Risk																
Sex with Male	1	.	0	.	3	.	2	.	0	.	0	.	0	.	6	.
Unknown	0	.	0	.	1	.	0	.	1	.	0	.	0	.	2	.

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.