HIV Care Continuum Report, 2019

Data as of April, 2020

	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	at 23 as y supe - 2 and but		0
435 24 3 42 24 2 11	32	17	41 17 11 15 57	27 10	
HIV & STD Surveillance & Epidemiology Section Division of HIV & STD Programs Bureau of Infectious Disease Prevention Michigan Department of Health and Human Services	Lansing - HIV 5 333 S. Grand 4 Lansing, MI 48 517-335-8165		7 46 35	15 9 8 1	
Michigan Department of Health & Human Services	Cadillac Place		4 14 15 10	5 6 4	

GRETCHEN WHITMER, GOVERNOR | ROBERT GORDON, DIRECTOR

www.michigan.gov/hivstd

Table of Contents
Notes and Definitionsii
Statewide Information Michigan HIV Care Continuum, 2019 2 Michigan HIV Care Continuum Trend, 2010 - 2019 3
Geographic stratification: Region, Local Health Department (LHD) Jurisdiction, & Metropolitan Statistical Areas (MSAs) City 5
Local Health Department (LHD) Jurisdiction quadrant visual 6 Demographic stratification: gender, race, ethnicity, county of birth, age, transmission risk 7 Care among Ryan White (RW) clients: funding source, housing, insurance, poverty level, & 8 key demographic groups 8
Detroit Metro Area (DMA) Information
DMA HIV Care Continuum, 2019
Geographic stratification: Local Health Department (LHD) Jurisdiction, & cities
Demographic stratification: gender, race, ethnicity, county of birth, age, transmission risk
Care among Ryan White (RW) Part A clients:
Detroit Local Health Department (LHD) Jurisdiction Information
Detroit LHD HIV Care Continuum, 2019
Detroit LHD HIV Care Continuum Trend, 2010 - 2019
Geographic stratification: cities 20 Demographic stratification: Gender, race, ethnicity, county of birth, age, transmission risk 21
Care among Ryan White (RW) clients: 22

Notes & Key definitions

Totals differ from other reports. The HIV Care Continuum Report includes persons who were diagnosed with HIV before January 1, and still living in Michigan as of December 31 of the given year. Other reports displaying prevalence include persons diagnosed up until the defined end date. Therefore, the total number of persons living with HIV (PLWH) included in the care report is less than other reports displaying prevalence.

Stages included in the Michigan Care Continuum.

PLWH (diagnosed) - Persons living with HIV (PLWH) who have been diagnosed (are aware) of their HIV status. In this report, PLWH refers to diagnosed persons unless otherwise specified. Calculations involving populations with a small number of PLWH (45-99 PLWH) should be interpreted with caution. Proportions may fluctuate year to year as small changes in the numerator are magnified. Care measures are masked (--) for groups with <45 PLWH.

In Care - PLWH with at least 1 CD4, viral load, or genotype lab test (proxies for medical care visits) during the given year. Virally Suppressed (**VS**) - PLWH with less than 200 copies of HIV virus per milliliter of blood (<200c/mL).

Maintained Undetectable (**MU**) - PLWH who maintained viral load levels <200c/mL for at least 4-8 months. This measure is derived from studies supporting the U=U (undetectable = untransmittable) campaign.

This report also includes "Maintained Undetectable Eligible" (**MU elig**) - PLWH who received at least two viral load lab tests 4-8 months apart. This figure helps differentiate between the proportion of PLWH who were not MU due to high viral loads (MU elig, but not MU) versus the proportion of PLWH who were not MU due to lack of sufficient viral load tests (not MU elig).

Viral Suppression calculations. There are two ways to think about viral suppression and each is useful for different purposes. Community viral suppression is the proportion of all diagnosed PLWH who are virally suppressed (**VS/PLWH**). High community viral suppression indicates high treatment adherence and low transmission risk at the community level. Community viral suppression, however, cannot convey which populations struggle to reach VS even after being established in care. Viral suppression of those in care (**VS/In Care**) does indicate which populations struggle to reach VS after establishment of care. As improved prognosis and transmission reduction at the community level are overarching goals, community viral suppression is the more commonly used indicator. VS of those in care should be used sparingly to determine priority populations for treatment adherence interventions and programs.

In Michigan, once an individual is in care, the majority reach VS. In order to increase community viral suppression in the state, the proportion in care (In Care/PLWH) needs to increase.

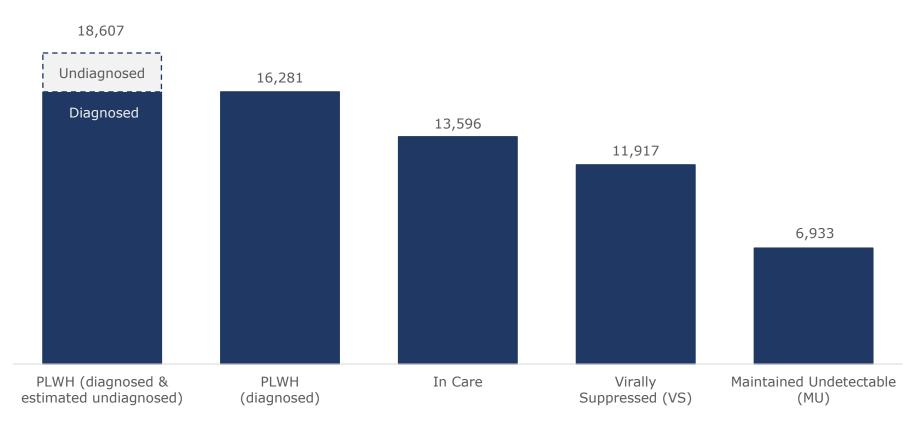
There are many variations of the care continuum nationally. Here are some reasons behind those variations. 1) The estimated number of PLWH unaware of their status (undiagnosed) is included in Michigan's Care Continuums occasionally. This figure can only be calculated for the state as a whole and therefore is not a useful denominator for any stratification. Diagnosed PLWH is the most commonly used reference point. 2) Linked to care is not included because the denominator is the number of persons diagnosed in a given year (different from all other stages). Information on linkage information may be found in the reports released in July. 3) Retained in care or continuous care is also excluded*. 4) Antiretroviral treatment information is not available and viral suppression is a good proxy for this stage; it is also excluded. 5) MU was added by Michigan in order to give more context to VS.

*https://www.michigan.gov/documents/mdhhs/Defining Unmet Need Linkage to Care 639267 7.pdf



Michigan HIV Care Continuum, 2019

The HIV Care Continuum was developed by the CDC to assess gaps in care. Based on the care continuums and other trends observed, Michigan programs need to focus on linking and retaining persons living with HIV (PLWH) in care. This will improve the maintenance of low viral load levels, improving the health of PLWH and reducing the risk of HIV transmission.

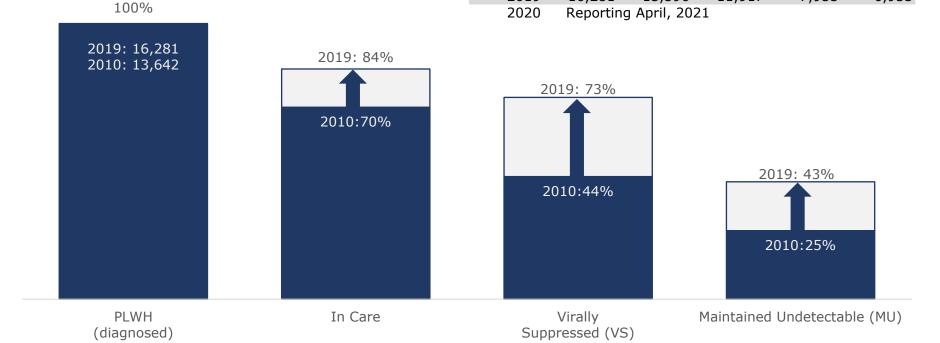


PLWH (diagnosed & estimated undiagnosed) - An estimated 14% of PLWH in Michigan have not yet been diagnosed. This measure is applied only to regional totals. PLWH (diagnosed) is the reference for all reports produced by MDHHS. PLWH (diagnosed) - PLWH diagnosed before Jan 1 and alive Dec 31 of the given year. In Care - PLWH with at least 1 CD4, viral load, or genotype lab test during the given year. Virally Suppressed - PLWH with less than 200 copies of HIV virus per milliliter of blood (<200c/mL). Maintained Undetectable - PLWH who maintained viral load levels <200c/mL for at least 4-8 months.

Michigan HIV Care Continuum, 2010 - 2019

Over the last decade, improvements were made at every stage along the continuum. Although not displayed here, these improvements are observed among all populations - gender, race, ethnicity, age, sexual orientation, and residence. Currently, further improvements at the viral suppression stage are hindered by the proportion in care. Michigan needs to focus on increasing the proportion of PLWH in care, and viral suppression should follow

Comparing the 2010 Michigan HIV Care Continuum to 2019



PLWH

13,642

14,085

14,595

15,189

14,048

13,668

14,770

15,033

15,458

16,281

Year

2010

2011

2012

2013

2014

2015

2016

2017

2018

2019

In Care

9,501

9,854

10,354

10,676

10,828

11,039

12,283

12,577

13,066

13,596

VS

6,064

6,593

7,298

8,182

8,449

9,046

10,408

10,851

11,355

11,917

MU eliq

5,069

5,248

5,538

5,706

5,727

6,216

6,988

7,486

7,821

7,933

PLWH (diagnosed) - PLWH diagnosed before Jan 1 and alive Dec 31 of the given year. In Care - PLWH with at least 1 CD4, viral load, or genotype lab test during the given year. Virally Suppressed - PLWH with less than 200 copies of HIV virus per milliliter of blood (<200c/mL). Maintained Undetectable - PLWH who maintained viral load levels <200c/mL for at least 4-8 months. page 3

MU

3,388

3,613

3,999

4,315

4,495

5,135

5,833

6,461

6,766

6,933

Michigan Geographic Stratification, 2019 (last reported address)

	PLWH	In Care	VS	MU elig	MU
Region					
Michigan	16,281	13,596	11,917	7,933	6,933
DMA ¹	10,345	8,594	7,382	4,770	4,062
Outstate ²	5,624	4,721	4,275	2,979	2,708
Prison ³	311	281	260	184	163

Local Health Depa	rtment (L	HD) Juris	diction (e	xcl PLWH in	prison)
Allegan Co.	127	120	116	78	76
Barry-Eaton	110	94	88	67	62
Berrien Co.	233	171	155	107	97
Branch-Hillsdale-					
St. Joseph	78	64	62	38	37
Calhoun Co.	190	154	133	77	69
Central Michigan ⁴	702	605	563	398	372
Detroit LHD ⁵	5,122	4,173	3,438	2,301	1,860
Genesee Co.	557	426	352	218	183
Huron Co.	7				
Ingham Co.	456	394	344	260	225
Ionia Co.	36				
Jackson Co.	164	145	123	96	85
Kalamazoo Co.	380	321	282	153	142
Kent Co.	1,032	881	825	600	545
Lapeer Co.	44				
Lenawee Co.	54	39	36	24	23
Livingston Co.	94	82	78	54	50
Macomb Co.	1,221	1,012	901	558	500
Marquette ⁶	142	118	108	64	51
Monroe Co.	103	79	67	39	34
Muskegon Co.	178	153	140	114	104
Oakland Co.	2,085	1,789	1,604	1,020	912
Ottawa Co.	137	114	108	80	79
Saginaw Co.	254	217	198	156	139
Sanilac Co.	23				
Shiawassee Co.	46	41	38	24	23
St. Clair Co.	102	79	72	47	41
Tuscola Co.	13				
Van Buren-Cass	78	66	63	35	32
Washtenaw Co.	533	445	396	284	266
Wayne Co.	1,668	1,425	1,269	787	698

	PLWH	In Care	vs	MU elig	MU
Metropolitan Stati					
Ann Arbor	533	445	396	284	266
Battle Creek	190	154	133	77	69
Bay City	80	66	59	48	44
Detroit-Warren-					
Dearborn	10,336	8,597	7,393	4,785	4,078
Flint	557	426	352	218	183
Grand Rapids-					
Wyoming	1,217	1,037	972	710	653
Jackson	164	145	123	96	85
Kalamazoo-					
Portage	439	372	331	181	167
Lansing-E Lansing	587	510	453	341	299
Midland	38				
Monroe	103	79	67	39	34
Muskegon	178	153	140	114	104
Niles-Benton					
Harbor	233	171	155	107	97
Saginaw	254	217	198	156	139
Micropolitan Area	639	547	518	349	322
Rural	421	364	339	226	214

Additional Prison population information

Any prison, 2019	340	337	298	225	187
Ever in prison	1,131	975	794	562	440

Residence details are unknown for one individual.

¹Detroit Metro Area (DMA) includes Lapeer, Macomb, Monroe, Oakland, St. Clair, and Wayne Counties. Prisons are excluded.

²Outstate includes Michigan residents outside the DMA. Prisons are excluded.

³Persons in prisons (state or federal) located in Michigan. Reported separately for geographic stratification; included in demographic and Ryan White strata.

⁴Central Michigan LHD includes all otherwise unlisted counties in the lower peninsula

⁵Detroit LHD includes the cities of Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes. Detroit, under "Cities with at least 45 PLWH" (next page), includes only residents of the city of Detroit

⁶Marquette LHD includes the entire upper peninsula

⁷MSA designations: https://en.wikipedia.org/wiki/Michigan_statistical_areas

Michigan Geographic Stratification, 2019 (last reported address)

	PLWH	In Care	vs	MU elig	MU		PLWH	In Care	VS	MU elig	MU
Cities with at leas					_				_		_
Ann Arbor	208	` 170	153	, 106	104	Romulus	81	67	61	38	33
Battle Creek	142	112	95	52	45	Roseville	112	92	82	50	42
Bay City	65	56	49	40	36	Royal Oak	145	129	123	72	69
Belleville	50	45	41	23	23	Saginaw	234	202	183	144	127
Benton Harbor	98	79	70	54	46	Southfield	389	331	288	190	164
Canton	90	73	67	42	41	St. Clair Shores	66	53	46	32	29
Clinton Township	159	132	120	77	73	Sterling Heights	103	89	84	56	53
Dearborn	91	80	77	41	38	Taylor	134	120	105	63	55
Dearborn Heights	93	82	73	49	42	Traverse City	69	56	52	35	31
Detroit	4,711	3,847	3,162	2,114	1,709	Troy	65	58	56	44	41
Eastpointe	138	113	97	58	54	Warren	320	259	227	132	118
Farmington Hills	98	80	73	53	47	Waterford	91	74	67	40	38
Ferndale	135	118	111	70	63	Wayne	49	43	38	23	19
Flint	383	288	227	143	116	West Bloomfield	66	56	55	31	31
Grand Rapids	779	662	612	457	408	Westland	185	151	133	85	74
Grosse Pointes	62	58	51	29	23	Wyoming	90	76	71	49	46
Hamtramck	91	75	64	45	40	Ypsilanti	287	239	208	149	133
Harper Woods	59	50	41	33	26						
Hazel Park	54	48	40	18	18						
Highland Park	199	143	120	80	62						
Holland	61	51	46	36	35						
Inkster	159	131	107	65	52						
Jackson	136	117	97	75	65						
Kalamazoo	295	243	212	121	110						
Lansing	402	349	305	226	193						
Lincoln Park	71	59	53	39	34						
Livonia	81	73	70	41	38						
Macomb Township	46	37	34	21	19						
Madison Heights	51	45	41	26	26						
Monroe	47	40	36	18	15						
Mount Clemens	76	65	52	36	24						
Muskegon	150	130	118	100	91						
Novi	52	43	38	27	25						
Oak Park	113	97	84	49	41						
Pontiac	326	277	224	135	107						
Port Huron	46	36	32	24	20						
Portage	52	45	40	17	17						
Redford	175	150	130	84	66						

Michigan Geographic Stratification, 2019 (last reported address)

Local Health Department (LHD) jurisdictions with at least 45 residents living with HIV are included (excl PLWH in prison). The x-axis is the proportion in care, and the y-axis is the proportion virally suppressed *of those in care*. The axes are centered at the Michigan average (84% in care and 88% VS of those in care). The overarching goal is to increase community viral suppression (VS of all PLWH) as this reduces transmission risk on a community level.

Quadrant	Compared to the state average:	To increase community viral suppression and reduce transmission risk:
Upper Right	Care and VS rates are higher	current activities are working.
Upper Left	Care rate is lower and VS rate is higher	persons in these areas need assistance overcoming barriers to receiving care.
Lower Right	Care rate is higher and VS rate is lower	persons in these areas need assistance overcoming barriers to treatment adherence.
Lower Left	Care and VS rates are lower	persons in these areas need assistance overcoming barriers to receiving care as well
		as treatment adherence.



Michigan Demographic Stratification, 2019

	PLWH	In Care	vs	MU elig	MU		PLWH	In Care	vs	MU elig	MU
Gender						Risk/Gender ⁴					
Cis men	12,663	10,632	9,358	6,199	5,475	Sex w men	11,467	9,778	8,621	5,713	5,025
Cis women	3,389	2,773	2,405	1,631	1,374	Cis men	8,835	7,563	6,701	4,428	3,937
Transgender ¹	229	191	154	103	84	Cis women	2,427	2,042	1,783	1,190	1,012
						Transgender	205	173	137	95	76
Race, Ethnicity, &	Gender ²					PWID	930	721	619	418	350
Black/AA	9,038	7,354	6,144	4,096	3,390	Cis men	525	420	367	240	207
Cis men	6,519	5,294	4,398	2,913	2,415	Cis women	405	301	252	178	143
Cis women	2,340	1,913	1,629	1,107	916	Sex w men & PWID	637	538	468	322	278
Transgender	179	147	117	76	59	Cis men	621	527	458	318	274
Latinx	969	794	720	479	429	Transgender	16				
Cis men	772	636	581	388	352	Sex w women	699	563	472	301	262
Cis women	183	147	130	85	73	Cis men	698	562	471	301	262
Transgender	14					Transgender	1				
White	5,587	4,864	4,530	3,020	2,808	Other	271	233	205	170	136
Cis men	4,844	4,252	3,974	2,631	2,466	Cis men	160	136	118	95	77
Cis women	714	585	532	371	324	Cis women	111	97	87	75	59
Transgender	29					Unknown	2,277	1,763	1,532	1,009	882
Multi/Other	683	584	523	338	306	Cis men	1,824	1,424	1,243	817	718
Cis men	525	450	405	267	242	Cis women	446	333	283	188	160
Cis women	151	128	114	68	61	Transgender	7				
Transgender	7										
Arab/Middle						Other select popu	lations				
Eastern descent	78	73	71	48	43	Black/AA MSM ⁵	4,640	3,842	3,175	2,102	1,730
						Young (15-29)					
Country of Birth ³						Black/AA MSM ⁵	1,044	810	634	422	314
USA	10,983	9,221	7,995	5,332	4,604						
US Territory	71	63	61	37	36	Young (15-29) Bla	ack/AA N	len (YBM)	compared	d to others	
Foreign	954	741	696	478	444	YBM	1,209	920	709	484	355
						Other youth 15-29	787	653	564	384	320
Age (yrs) on Dece	ember 31,	2019				30+ years old	14,208	11,952	10,576	7,011	6,211
00-14	77	71	68	54	47	¹ Most (98%) of Transgen	der persons	identify as ma	le to female.	2 Persons with ι	Inknown
15-19	70	64	58	55	49	race (4) are not included					
20-29	1,926	1,509	1,215	813	626	Latinx, White, & Multi/Otl		,			
30-39	3,295	2,694	2,225	1,428	1,183	Eastern descent may be o	,			-	,
40-49	3,312	2,741	2,397	1,550	1,340	categories. ² The country ³ Risk/Gender Notes: PWI					
50-59	4,630	3,930	3,566	2,347	2,121	women" have no reported					
60+	2,971	2,587	2,388	1,686	1,567	at high risk for HIV. Near				J ,	
CDC youth:13-24	573	465	389	296	229	⁴ Black/AA MSM groups in					

Care among Michigan Ryan White clients, 2019

Below poverty line

4,626

4,434

3,784

2,690

2,175

The following strata include Ryan White (RW) clients only. RW clients are individuals who received at least one RW funded service during the given year. Because receiving a service is highly correlated with care, use In Care as the total (not PLWH) when comparing VS or MU among RW clients and other PLWH.

A D		In Care	VS	MU elig	MU	Constant.	PLWH	In Care	VS	MU elig	MU
Any Ryan White (R	-	-				Gender					
Michigan Total	16,281	13,596	11,917	7,933	6,933	Cis men	6,366	6,157	5,484	3,872	3,342
No RW service	7,804	5,414	4,666	2,790	2,543	Cis women	1,945	1,869	1,641	1,185	979
RW client	8,477	8,182	7,251	5,143	4,390	Transgender	166	156	126	86	69
Ryan White service		(persons m	ay be inclu	ided in mult	iple)	Race & Ethnicity ¹					
ADAP	2,576	2,513	2,348	1,681	1,530	Black/AA	5,165	4,982	4,252	2,997	2,435
Part A	3,603	3,502	3,006	2,079	1,661	Latinx	540	523	479	333	298
Part B	3,675	3,529	3,240	2,383	2,120	White	2,417	2,338	2,221	1,605	1,473
Part C	3,037	3,002	2,692	1,988	1,725	Multi/Other	355	339	299	208	184
Part D	1,013	971	839	639	501						
						Age (yrs) on Dece	mber 31	, 2019			
Any period of unst	able hou	sing repor	ted during	g the year		00-19	59	54	47	47	36
Yes	665	625	483	352	240	20-29	1,081	1,013	826	586	427
No, stably housed	7,503	7,306	6,559	4,665	4,042	30-39	1,756	1,683	1,401	950	758
No information	309	251	209	126	108	40-49	1,735	1,668	1,488	1,041	887
						50-59	2,385	2,323	2,138	1,500	1,345
Any period withou	t health i	insurance	reported	during the	year	60+	1,461	1,441	1,351	1,019	937
Yes	1,158	1,115	960	650	530	Youth:15-29	1,114	1,044	852	614	449
No, always insured	7,205	6,991	6,225	4,454	3,824	CDC youth:13-24	332	312	256	202	147
No information	114	76	66	39	36						
						Other select popu	lations				
Last reported insu	rance typ	be during t	he year			PWID ²	897	869	778	562	479
Medicaid	3,641	3,500	2,937	2,074	1,620	Black/AA MSM ³	2,734	2,628	2,214	1,539	1,235
Medicare	1,931	1,898	1,747	1,325	1,188	Young (15-29)					
Private	1,845	1,805	1,709	1,182	1,098	Black/AA MSM ³	613	574	467	319	228
Other	216	211	198	140	128						
Uninsured	730	692	594	383	320	Young (15-29) Black	<td>(YBM) comp</td> <td>ared to ot</td> <td>hers</td> <td></td>	(YBM) comp	ared to ot	hers	
No information	114	76	66	39	36	YBM	687	643	515	362	252
						Other youth 15-29	427	401	337	252	197
Poverty Level						30+ years old	7,337	7,115	6,378	4,510	3,927
At or above							•	•			
poverty line	3,851	3,748	3,467	2,453	2,215	¹ Latinx persons may be c exclusive categories.	r any race. I	SIACK/AA, LATIN	k, white, & M	uiti/Other are n	nutually
	5,001	5,7,10	5,157	_,	_,5	exclusive categories.					

 $^2{\rm PWID}$ (persons who inject drugs) includes PWID alone as well as MSM/PWID $^3{\rm Black}/{\rm AA}$ MSM include both MSM alone as well as MSM/PWID.



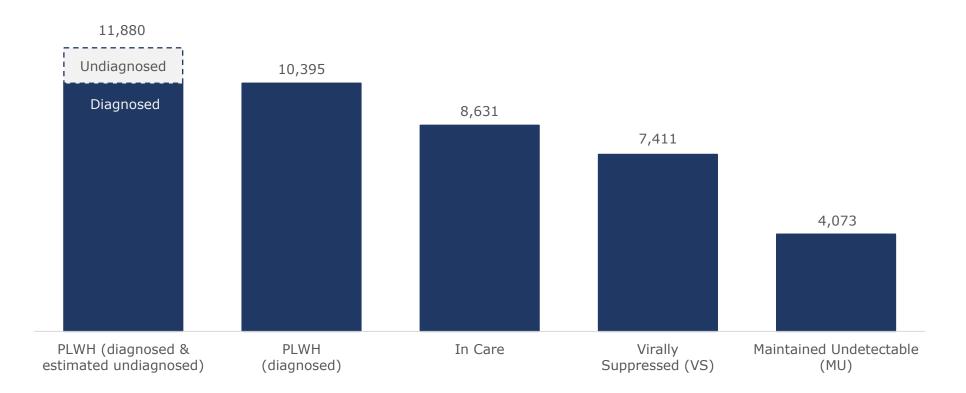
The Detroit Metro Area, 2019

Persons living with HIV where last known residence as of December 31, 2019 was the Detroit Metro Area (DMA: Lapeer, Macomb, Monroe, Oakland, St. Clair, & Wayne Counties)

Includes persons in prisons located in the DMA

Detroit Metro Area HIV Care Continuum, 2019

The HIV Care Continuum was developed by the CDC to assess gaps in care. Based on the care continuums and other trends observed, Michigan programs need to focus on linking and retaining persons living with HIV (PLWH) in care. This will improve the maintenance of low viral load levels, improving the health of PLWH and reducing the risk of HIV transmission.

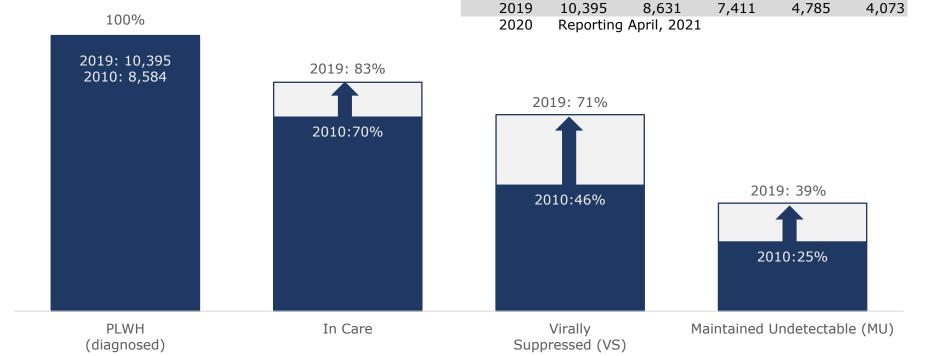


PLWH (diagnosed & estimated undiagnosed) - An estimated 14% of PLWH in Michigan have not yet been diagnosed. This measure is applied only to regional totals. PLWH (diagnosed) is the reference for all reports produced by MDHHS. PLWH (diagnosed) - PLWH diagnosed before Jan 1 and alive Dec 31 of the given year. In Care - PLWH with at least 1 CD4, viral load, or genotype lab test during the given year. Virally Suppressed - PLWH with less than 200 copies of HIV virus per milliliter of blood (<200c/mL). Maintained Undetectable - PLWH who maintained viral load levels <200c/mL for at least 4-8 months.

Detroit Metro Area (DMA) HIV Care Continuum, 2010 - 2019

Over the last decade, improvements were made at every stage along the continuum. Although not displayed here, these improvements are observed among all populations - gender, race, ethnicity, age, sexual orientation, and residence. Currently, further improvements at the viral suppression stage are hindered by the proportion in care. Michigan needs to focus on increasing the proportion of PLWH in care, and viral suppression should follow

Comparing the 2010 DMA HIV Care Continuum to 2019



Year

2010

2011

2012

2013

2014

2015

2016

2017

2018

PLWH (diagnosed) - PLWH diagnosed before Jan 1 and alive Dec 31 of the given year. In Care - PLWH with at least 1 CD4, viral load, or genotype lab test during the given year. Virally Suppressed - PLWH with less than 200 copies of HIV virus per milliliter of blood (<200c/mL). Maintained Undetectable - PLWH who maintained viral load levels <200c/mL for at least 4-8 months. page 11

MU

2,155

2,262

2,372

2,533

2,714

3,171

3,486

3,882

3,985

MU eliq

3,425

3,443

3,507

3,510

3,620

3,959

4,329

4,589

4,715

VS

3,921

4,259

4,449

5,066

5,328

5,818

6,481

6,781

7,096

In Care

6,041

6,290

6,564

6,730

6,918

7,222

7,732

7,954

8,295

PLWH

8,584

8,889

9,157

9,573

9,154

9,046

9,469

9,629

9,908

Detroit Metro Area Geographic Stratification, 2019 (last reported address)

	PLWH	In Care	VS	MU elig	MU						
DMA^1	10,395	8,631	7,411	4,785	4,073						
DMA excl prison	10,345	8,594	7,382	4,770	4,062						
DMA prison ²	50	37	29	15	11						
Local Health Department (LHD) Jurisdiction (excl PLWH in p											
Detroit LHD ³	5,122	4,173	3,438	2,301	1,860						
Lapeer Co.	44										
Macomb Co.	1,221	1,012	901	558	500						
Monroe Co.	103	79	67	39	34						
Oakland Co.	2,085	1,789	1,604	1,020	912						
St. Clair Co.	102	79	72	47	41						
Wayne Co.	1,668	1,425	1,269	787	698						
Cities with at leas	t 45 PLWI		VH in prisor								
Belleville	50	45	41	23	23						
Canton	90	73	67	42	41						
Clinton Township	159	132	120	77	73						
Dearborn	91	80	77	41	38						
Dearborn Heights	93	82	73	49	42						
Detroit	4,711	3,847	3,162	2,114	1,709						
Eastpointe	138	113	97	58	54						
Farmington Hills	98	80	73	53	47						
Ferndale	135	118	111	70	63						
Grosse Pointes	62	58	51	29	23						
Hamtramck	91	75	64	45	40						
Harper Woods	59	50	41	33	26						
Hazel Park	54	48	40	18	18						
Highland Park	199	143	120	80	62						
Inkster	159	131	107	65	52						
Lincoln Park	71	59	53	39	34						
Livonia	81	73	70	41	38						

Macomb Township

Madison Heights

Mount Clemens

Monroe

Oak Park

Port Huron

Pontiac

Novi

	PLWH	In Care	VS	MU elig	MU
Cities with at leas	t 45 PLW				
Redford	175	150	130	84	66
Romulus	81	67	61	38	33
Roseville	112	92	82	50	42
Royal Oak	145	129	123	72	69
Southfield	389	331	288	190	164
St. Clair Shores	66	53	46	32	29
Sterling Heights	103	89	84	56	53
Taylor	134	120	105	63	55
Troy	65	58	56	44	41
Warren	320	259	227	132	118
Waterford	91	74	67	40	38
Wayne	49	43	38	23	19
West Bloomfield	66	56	55	31	31
Westland	185	151	133	85	74

Prison population information

Any prison, 2019	77	75	53	41	23
Ever in prison	643	538	406	276	196

 $^{1}\mbox{Detroit}$ Metro Area (DMA) includes Lapeer, Macomb, Monroe, Oakland, St. Clair, and Wayne Counties.

²Persons in prisons (state or federal) located in the DMA. Reported separately for geographic stratification; included in demographic and Ryan White strata.

³Detroit LHD includes the cities of Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes. Detroit, under "Cities with at least 45 PLWH", includes only residents of the city of Detroit.

Detroit Metro Area Demographic Stratification, 2019

	PLWH	In Care	vs	MU elig	MU		PLWH	In Care	vs	MU elig	MU
Gender				-		Risk/Gender ⁴				-	
Cis men	8,015	6,680	5,773	3,697	3,181	Sex w men	7,361	6,241	5,402	3,453	2,964
Cis women	2,212	1,809	1,529	1,016	835	Cis men	5,642	4,786	4,168	2,653	2,299
Transgender ¹	168	142	109	. 72	57	Cis women	1,567	1,324	1,136	732	612
						Transgender	152	131	98	68	53
Race, Ethnicity, &	Gender ²					PWID	628	477	400	275	222
Black/AA	6,999	5,699	4,726	3,103	2,531	Cis men	343	268	229	146	120
Cis men	5,117	4,154	3,436	2,244	1,834	Cis women	285	209	171	129	102
Cis women	1,740	1,426	1,199	801	652	Sex w men & PWID	354	294	248	169	145
Transgender	142	119	91	58	45	Cis men	345	289	243	168	144
Latinx	468	391	345	221	196	Transgender	9				
Cis men	368	314	282	179	162	Sex w women	421	342	277	172	148
Cis women	94	72	60	38	32	Cis men	420	341	276	172	148
Transgender	6					Transgender	1				
White	2,539	2,207	2,047	1,269	1,176	Other	118	99	80	70	47
Cis men	2,220	1,946	1,819	1,116	1,046	Cis men	69	56	46	38	27
Cis women	304	248	216	145	122	Cis women	49	43	34	32	20
Transgender	15					Unknown	1,513	1,178	1,004	646	547
Multi/Other	385	334	293	192	170	Cis men	1,196	940	811	520	443
Cis men	307	266	236	158	139	Cis women	311	233	188	123	101
Cis women	73	63	54	32	29	Transgender	6				
Transgender	5										
Arab/Middle						Other select popul	lations				
Eastern descent	69	66	64	43	39	Black/AA MSM ⁵	3,745	3,095	2,552	1,671	1,365
						Young (15-29)					
Country of Birth ³						Black/AA MSM ⁵	834	646	499	323	241
USA	7,273	6,046	5,139	3,330	2,794						
US Territory	39					Young (15-29) Bla	nck/AA M	len (YBM)	compared	l to others	
Foreign	363	288	268	173	157	YBM	947	720	544	363	263
						Other youth 15-29	455	381	311	216	170
Age (yrs) on Dece	ember 31,	, 2019				30+ years old	8,971	7,511	6,538	4,190	3,628
00-14	22					¹ Most (99%) of Transgen					
15-19	35					race (4) are not included					
20-29	1,367	1,069	829	551	411	Latinx, White, & Multi/Oth					
30-39	2,213	1,818	1,467	900	716	Eastern descent may be of categories. ³ The country					
40-49	2,070	1,694	1,450	916	768	Notes: PWID (persons wh					
50-59	2,800	2,373	2,127	1,347	1,193	reported risk other than s					
60+	1,888	1,626	1,494	1,027	951	HIV. Nearly all (90%) wit			,		
CDC youth:13-24	370	290	231	170	126	include both MSM alone a			-		

Care among Detroit Metro Area Ryan White clients, 2019

The following strata include Ryan White (RW) clients only. RW clients are individuals who received at least one RW funded service during the given year. Because receiving a service is highly correlated with care, use In Care as the total (not PLWH) when comparing VS or MU among RW clients and other PLWH.

	PLWH	In Care	VS	MU elig	MU
Any Ryan White	(RW) servi	ce during	2019		
DMA Total	10,395	8,631	7,411	4,785	4,073
No RW service	5,034	3,438	2,913	1,691	1,525
RW Client	5,361	5,193	4,498	3,094	2,548

Ryan White service source (persons may be included in multiple)					
ADAP	1,416	1,383	1,265	874	786
Part A	3,512	3,412	2,928	2,023	1,618
Part B	1,085	1,056	986	696	625
Part C	1,950	1,929	1,678	1,220	1,017
Part D	891	856	733	555	432

Last reported residence by Local Health Department Jurisdiction

Detroit LHD ¹	3,179	3,077	2,601	1,819	1,452
Lapeer Co.	11				
Macomb Co.	488	471	431	295	258
Monroe Co.	21				
Oakland Co.	880	853	765	528	459
St. Clair Co.	23				
Wayne Co.	734	717	636	407	345
Prison ²	25				

Cities with at least 45 PLWH who received a RW service

Clinton Township	70	67	65	44	42
Dearborn Heights	46	44	40	29	25
Detroit	2,957	2,856	2,410	1,680	1,340
Eastpointe	64	62	55	37	34
Ferndale	60	58	55	40	36
Hamtramck	58	57	51	39	34
Highland Park	116	116	99	70	56
Inkster	95	91	74	41	30
Oak Park	51	49	41	30	23
Pontiac	199	193	162	105	82
Redford	85	84	71	55	41
Roseville	48	46	43	26	23

	PLWH	In Care	VS	MU elig	MU
Cities with at least	45 PLWF	l who recei	ived a RV	V service (c	ntd)
Royal Oak	49	47	45	30	27
Southfield	194	190	170	126	108
Sterling Heights	46	44	41	32	30
Taylor	54	53	47	29	24
Warren	121	118	105	70	61
Westland	94	91	80	50	42

Any period of unstable housing reported during the year

Yes	354	341	254	190	128
No, stably housed	4,801	4,688	4,113	2,834	2,362
No information	206	164	131	70	58

Any period without health insurance reported during the year

Yes	704	684	574	387	307
No, always insured	4,592	4,472	3,895	2,697	2,233
No information	65	37	29	10	8

Last reported insurance type during the year

Medicaid	2,579	2,494	2,054	1,428	1,084
Medicare	1,156	1,136	1,034	763	669
Private	1,011	995	924	596	537
Other	109	107	100	66	62
Uninsured	441	424	357	231	188
No information	65	37	29	10	8

Poverty Level					
At or above					
poverty line	2,211	2,168	1,959	1,337	1,176
Below poverty line	3,150	3,025	2,539	1,757	1,372

¹Detroit LHD includes the cities of Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes. Detroit, under "Cities with at least 45 PLWH", includes only residents of the city of Detroit.

²Persons in prisons (state or federal) located in the DMA. Excluded from city strata.

Care among Detroit Metro Area Ryan White clients, 2019

The following strata include Ryan White (RW) clients only. RW clients are individuals who received at least one RW funded service during the given year. Because receiving a service is highly correlated with care, use In Care as the total (not PLWH) when comparing VS or MU among RW clients and other PLWH.

	PLWH	In Care	VS	MU elig	MU
Gender					
Cis men	3,971	3,858	3,363	2,296	1,907
Cis women	1,267	1,218	1,045	736	593
Transgender	123	117	90	62	48
Race & Ethnicity ¹					
Black/AA	4,102	3,969	3,367	2,340	1,879
Latinx	243	237	213	140	123
White	835	813	770	505	454
Multi/Other	181	174	148	109	92
Age (yrs) on Decer	nber 31,	2019			
00-19	44				
20-29	770	728	574	410	286
30-39	1,157	1,122	909	588	443
40-49	1,050	1,010	880	596	488
50-59	1,431	1,394	1,262	843	735
60+	909	899	838	620	568
Youth:15-29	798	754	595	434	304
CDC youth:13-24	226	211	167	131	93
Other select popula	ations				
PWID ²	565	549	485	346	287
Black/AA MSM ³ Young (15-29)	2,247	2,171	1,820	1,258	1,001
Black/AA MSM ³	499	471	379	255	183
Young (15-29) Black	/AA Men (`	YBM) compa	ared to oth	ers	
YBM	557	525	415	290	201
Other youth 15-29	241	229	180	144	103
30+ years old	4,547	4,425	3,889	2,647	2,234

¹Latinx persons may be of any race. Black/AA, Latinx, White, & Multi/Other are mutually exclusive categories.

²PWID (persons who inject drugs) includes PWID alone as well as MSM/PWID

³Black/AA MSM include both MSM alone as well as MSM/PWID.

Care among Ryan White PART A clients (may live anywhere in MI), 2019

The following strata include Ryan White (RW) clients who recieved at least one service from a Part A funded entity. Because receiving a service is highly correlated with care, use In Care as the total (not PLWH) when comparing VS or MU among RW clients and other PLWH.

	PLWH	In Care	VS	MU elig	MU		PLWH	In Care	VS	MU elig	MU
Part A ¹	3,603	3,502	3,006	2,079	1,661	Race & Ethnicity ³					
						Black/AA	2,722	2,641	2,213	1,561	1,207
Ryan White (RW	V) Part A cli	ients also r	eceived s	ervices fro	m:	Latinx	178	175	158	99	85
ADAP	922	913	834	577	509	White	582	568	536	343	306
Part B	760	751	692	512	442	Multi/Other	121	118	99	76	63
Part C	807	801	682	537	423						
Part D	437	430	365	283	203	Age (yrs) on Dece	mber 31,	2019			
						00-19	24				
Last reported re	esidence by	Local Heal	th Depart	ment Juris	diction	20-29	554	534	424	309	210
DMA	3,498	3,400	2,921	2,019	1,616	30-39	799	776	614	414	293
Detroit LHD ²	2,037	1,969	1,646	1,170	899	40-49	724	701	604	412	333
Lapeer Co.	8					50-59	942	912	831	554	476
Macomb Co.	305	296	271	177	150	60+	560	555	513	368	333
Monroe Co.	9					Youth:15-29	575	555	441	329	224
Oakland Co.	620	608	534	370	313	CDC youth:13-24	179	172	139	107	75
St. Clair Co.	16										
Wayne Co.	503	495	439	280	236	Other select popul	lations				
Outstate	76	75	65	49	38	PWID ⁴	383	369	327	233	191
Prison	29					Black/AA MSM ⁵ Young (15-29)	1,536	1,489	1,242	875	668
Cities with at lea	ast 45 PLW	H who rece	eived a RV	N Part A se	ervice	Black/AA MSM ⁵	361	349	284	202	139
Detroit	1,899	1,831	1,531	1,089	836						
Highland Park	78	78	64	45	35	Young (15-29) Black	k/AA Men ((YBM) comp	ared to ot	hers	
Inkster	74	70	55	32	23	YBM	395	525	415	290	201
Pontiac	167	163	135	90	68	Other youth 15-29	180	30	26	39	23
Redford	54	54	47	37	28	30+ years old	3,025	2,944	2,562	1,748	1,435
Southfield	126	123	107	84	70	1					
Warren	80	78	71	49	40	¹ An additional 47 persons by the year end. These in			uring the yea	ar and lived out	of state
Westland	62	61	55	32	27	² Detroit LHD includes the the Grosse Pointes. Detroit	cities of Det	roit, Highland	,	, 1	,
Gender						of the city of Detroit. ³ Latinx persons may be o	fany race	lack/AA Latin	v White % M	/ulti/Other are	mutually
Cis men	2,670	2,606	2,251	1,560	1,259	exclusive categories.	any lace. D	nack/AA, Ldliil	, while, dr		mutually
Cis women	828	796	678	468	363	⁴ PWID (persons who inject	ct drugs) incl	udes PWID alo	ne as well a	s MSM/PWID	
Transgender	105	100	77	51	39	⁵ Black/AA MSM include bo	oth MSM alor	ne as well as M	SM/PWID.		

page 16



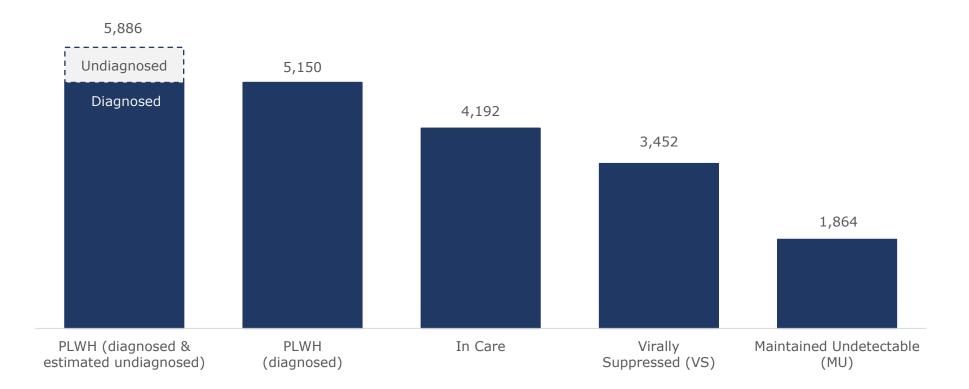
Detroit LHD Jurisdiction, 2019

Persons living with HIV where last known residence as of December 31, 2019 was within Detroit Health Department's Jurisdiction (Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes)

Includes persons in prisons located in the Detroit LHD Jurisdiction

Detroit LHD Jurisdiction HIV Care Continuum, 2019

The HIV Care Continuum was developed by the CDC to assess gaps in care. Based on the care continuums and other trends observed, Michigan programs need to focus on linking and retaining persons living with HIV (PLWH) in care. This will improve the maintenance of low viral load levels, improving the health of PLWH and reducing the risk of HIV transmission.



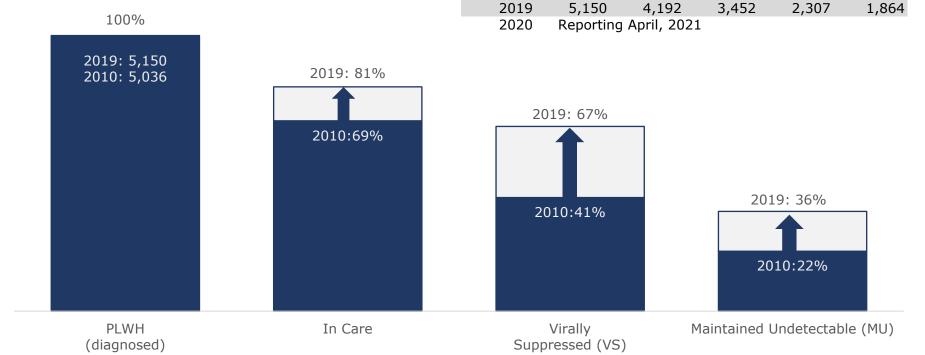
PLWH (diagnosed & estimated undiagnosed) - An estimated 14% of PLWH in Michigan have not yet been diagnosed. This measure is applied only to regional totals. PLWH (diagnosed) is the reference for all reports produced by MDHHS. PLWH (diagnosed) - PLWH diagnosed before Jan 1 and alive Dec 31 of the given year. In Care - PLWH with at least 1 CD4, viral load, or genotype lab test during the given year. Virally Suppressed - PLWH with less than 200 copies of HIV virus per milliliter of blood (<200c/mL).

Maintained Undetectable - PLWH who maintained viral load levels <200c/mL for at least 4-8 months.

Detroit LHD Jurisdiction HIV Care Continuum, 2010 - 2019

Over the last decade, improvements were made at every stage along the continuum. Although not displayed here, these improvements are observed among all populations - gender, race, ethnicity, age, sexual orientation, and residence. Currently, further improvements at the viral suppression stage are hindered by the proportion in care. Michigan needs to focus on increasing the proportion of PLWH in care, and viral suppression should follow

Comparing the 2010 Detroit LHD HIV Care Continuum to 2019



Year

2010

2011

2012

2013

2014

2015

2016

2017

2018

PLWH (diagnosed) - PLWH diagnosed before Jan 1 and alive Dec 31 of the given year. In Care - PLWH with at least 1 CD4, viral load, or genotype lab test during the given year. Virally Suppressed - PLWH with less than 200 copies of HIV virus per milliliter of blood (<200c/mL). Maintained Undetectable - PLWH who maintained viral load levels <200c/mL for at least 4-8 months. page 19

MU

1,095

1,138

1,226

1,302

1,346

1,499

1,626

1,823

1,843

In Care

3,478

3,527

3,698

3,715

3,619

3,728

3,929

3,986

4,074

VS

2,075

2,216

2,376

2,653

2,648

2,866

3,149

3,261

3,360

MU eliq

1,912

1,892

1,963

1,909

1,923

1,991

2,172

2,275

2,274

PLWH

5,036

5,111

5,194

5,323

4,821

4,740

4,897

4,908

4,953

Detroit LHD Jurisdiction Geographic Stratification, 2019 (last reported address)

	PLWH	In Care	VS	MU elig	MU
Detroit LHD ¹	5,150	4,192	3,452	2,307	1,864
Det LHD excl prison	5,122	4,173	3,438	2,301	1,860
Det LHD prison ²	28				
Cities (excl PLWH in pri	son)				
Detroit	4,711	3,847	3,162	2,114	1,709
Grosse Pointes	62	58	51	29	23
Hamtramck	91	75	64	45	40
Harper Woods	59	50	41	33	26
Highland Park	199	143	120	80	62
Prison population info	ormation				
Any prison, 2019	40				
Ever in prison	415	336	248	180	120

¹Detroit LHD includes the cities of Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes. Detroit, under "Cities", includes only residents of the city of Detroit.

²Persons in prisons (state or federal) located in the DMA. Reported separately for geographic stratification; included in demographic and Ryan White strata.

Detroit LHD Jurisdiction Demographic Stratification, 2019

	PLWH	In Care	vs	MU elig	MU		PLWH	In Care	vs	MU elig	MU
Gender						Risk/Gender ⁴					
Cis men	3,822	3,104	2,561	1,699	1,381	Sex w men	3,466	2,904	2,393	1,586	1,293
Cis women	1,217	991	819	557	443	Cis men	2,538	2,105	1,734	1,144	939
Transgender ¹	111	97	72	51	40	Cis women	825	708	593	394	317
						Transgender	103	91	66	48	37
Race, Ethnicity, &	Gender ²					PWID	394	291	241	173	134
Black/AA	4,509	3,658	2,977	2,007	1,605	Cis men	209	162	136	92	70
Cis men	3,312	2,669	2,168	1,454	1,166	Cis women	185	129	105	81	64
Cis women	1,097	903	746	510	406	Sex w men & PWID	172	137	111	86	65
Transgender	100	86	63	43	33	Cis men	169	135	109	86	65
Latinx	185	154	138	85	69	Transgender	3				
Cis men	137	117	107	65	54	Sex w women	217	178	146	87	77
Cis women	44					Cis men	217	178	146	87	77
Transgender	4					Transgender	0				
White	322	268	244	150	133	Other	51	42	32	34	20
Cis men	270	233	215	128	116	Cis men	30	23	17	18	10
Cis women	49	32	26	19	14	Cis women	21	19	15	16	10
Transgender	3					Unknown	850	640	529	341	275
Multi/Other	133	112	93	65	57	Cis men	659	501	419	272	220
Cis men	102	85	71	52	45	Cis women	186	135	106	66	52
Cis women	27					Transgender	5				
Transgender	4										
Arab/Middle						Other select popul					
Eastern descent	12					Black/AA MSM ⁵	2,386	1,961	1,578	1,062	850
						Young (15-29)					
Country of Birth ³						Black/AA MSM ⁵	490	376	280	184	133
USA	3,783	3,077	2,512	1,706	1,359						
US Territory	21					Young (15-29) Bla		1en (YBM)		l to others	
Foreign	83	58	53	33	29	YBM	562	426	308	211	146
						Other youth 15-29	175	148	106	86	61
Age (yrs) on Dece	mber 31,	, 2019				30+ years old	4,404	3,610	3,030	2,004	1,652
00-14	9					¹ Most (99%) of Transgen	der persons	identify as ma	le to female.	² Persons with u	Inknown
15-19	19					race (1) are not included					
20-29	718	556	400	281	195	Latinx, White, & Multi/Oth		,			
30-39	1,167	941	714	441	319	Eastern descent may be o					
40-49	997	801	667	440	350	categories. ³ The country of					
50-59	1,289	1,077	941	630	543	LHD area. ⁴ Risk/Gender N "Sex w women" have no i					
60+	951	791	708	493	440	woman at high risk for HI					
CDC youth:13-24	192	152	116	91	64	MSM include both MSM al					Lineight

Care among Ryan White clients living in the Detroit LHD Jurisdiction, 2019

The following strata include Ryan White (RW) clients only. RW clients are individuals who received at least one RW funded service during the given year. Because receiving a service is highly correlated with care, use In Care as the total (not PLWH) when comparing VS or MU among RW clients and other PLWH.

	PLWH	In Care	VS	MU elig	MU
Any Ryan White (R	W) servic	e during 2	019		
Detroit LHD Total	5,122	4,173	3,438	2,301	1,860
No RW service	1,953	1,098	838	482	408
RW Client	3,197	3,094	2,614	1,825	1,456

Ryan White service source (persons may be included in multiple)							
ADAP	625	612	547	396	351		
Part A	2,047	1,978	1,652	1,173	901		
Part B	451	441	412	289	256		
Part C	1,460	1,447	1,250	897	732		
Part D	635	611	518	394	302		

	PLWH	In Care	VS	MU elig	MU
Last reported ins	surance typ	be during	the year		
Medicaid	1,804	1,743	1,421	987	735
Medicare	639	631	562	440	382
Private	457	451	412	255	220
Other	45	44	40	23	22
Uninsured	213	208	169	114	92
No information	39				
Poverty Level					

Poverty Level					
At or above					
poverty line	1,083	1,069	950	651	562
Below poverty line	2,114	2,025	1,664	1,174	894

Last reported residence by Local Health Department Jurisdiction

Detroit LHD ¹	3,179	3,077	2,601	1,819	1,452
Prison ²	18				

Last reported city of residence among RW clients

Detroit	2,957	2,856	2,410	1,680	1,340
Grosse Pointes	21				
Hamtramck	58	57	51	39	34
Harper Woods	27				
Highland Park	116	116	99	70	56

Any period of unstable housing reported during the year

Yes	228	219	157	127	85
No, stably housed	2,874	2,809	2,415	1,673	1,353
No information	95	66	42	25	18

Any period without health insurance reported during the year

Yes	355	350	285	196	148
No, always insured	2,803	2,727	2,319	1,623	1,303
No information	39				

¹Detroit LHD includes the cities of Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes. Detroit, under "Last reported city", includes only residents of the city of Detroit.

 $^{2}\mbox{Persons}$ in prisons (state or federal) located in the Detroit LHD area. Excluded from city strata.

Care among Ryan White clients living in the Detroit LHD Jurisdiction, 2019

The following strata include Ryan White (RW) clients only. RW clients are individuals who received at least one RW funded service during the given year. Because receiving a service is highly correlated with care, use In Care as the total (not PLWH) when comparing VS or MU among RW clients and other PLWH.

page 23

	PLWH	In Care	VS	MU elig	MU				
Gender									
Cis men	2,315	2,246	1,908	1,308	1,047				
Cis women	794	763	643	470	373				
Transgender	88	85	63	47	36				
Race & Ethnicity ¹									
Black/AA	2,858	2,761	2,316	1,635	1,297				
Latinx	122	120	109	67	54				
White	135	134	124	76	65				
Multi/Other	82	79	65	47	40				
Age (yrs) on December 31, 2019									
00-19	23								
20-29	464	434	322	243	164				
30-39	714	693	543	347	241				
40-49	613	589	505	345	276				
50-59	838	816	729	506	436				
60+	545	539	495	363	323				
Youth:15-29	480	450	335	258	175				
CDC youth:13-24	141	132	102	83	58				
Other select popula	ations								
PWID ²	350	339	294	218	170				
Black/AA MSM ³ Young (15-29)	1,545	1,488	1,233	859	679				
Black/AA MSM ³	323	300	232	158	113				
Young (15-29) Black	•	, ,			104				
YBM	361	336	255	182	124				
Other youth 15-29	119	114	80	76	51				
30+ years old	2,710	2,637	2,272	1,561	1,276				
¹ Latinx persons may be of	any race. Bla	ack/AA, Latinx,	White, & Mul	ti/Other are mu	utually				

exclusive categories.

 $^{2}\mbox{PWID}$ (persons who inject drugs) includes PWID alone as well as MSM/PWID

 $^3\textsc{Black}/\textsc{AA}$ MSM include both MSM alone as well as MSM/PWID.