

STI & HIV Coinfections in Michigan, 2023

All data as of July 25, 2024

Quality, Evaluation and Epidemiology Section
Bureau of HIV and STI Programs
Michigan Department of Health and Human Services



[HIV & STIs in Michigan](#)

[STI/HIV Operations and Resource System \(SHOARS\)](#)

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Overview

Michigan's STI Surveillance Program collects, interprets, and disseminates population level data regarding persons with sexually transmitted infections (STIs). Data are collected in the Michigan Disease Surveillance System (MDSS) or the enhanced HIV/AIDS Registry System (eHARS), where reports from laboratories, private providers, and local public health give information about diagnosis, demographics, and patient behaviors.

STIs and HIV affect many of the same people and populations, and coinfection with an STI is a major transmission risk factor for people living with HIV as it increases the amount of virus in genital secretions. Looking at where coinfections occur and the HIV care outcomes of coinfecting people may help inform health service delivery and targeted prevention strategies for STI/HIV programs as they highlight a priority population of people who are not adequately engaged in HIV care (i.e., not maintained undetectable), but are participating in unprotected sex, and seeking some level of medical care for their STI diagnosis and treatment. Co-diagnoses also present an opportunity to intervene in multiple disease transmissions at once.

Key Definitions and Abbreviations

Diagnoses:	The number of STI cases newly diagnosed over a year. The diagnosis date for an STI case is the date that the original STI test was performed, when available. If the STI test date is unavailable, then the diagnosis date is the date that the STI case was reported to the health department.
HIV Prevalence:	The number of persons living with HIV at the end of the year.
PLWH:	People living with HIV.
P&S Syphilis:	Primary and secondary, or the earliest stages of syphilis infection.
Latent Syphilis:	Includes early and late latent diagnoses as well as unknown duration.
Coinfected:	When both STI and HIV infection are present at the same time. Requires HIV diagnosis to be on or before the date of STI diagnosis.
Co-diagnosed:	When one STI and another STI (such as HIV) are both diagnosed within 30 days of each other, regardless of which is diagnosed first. May include cases which are not counted as a coinfection due to HIV diagnosis coming after STI.
PrEP:	Pre-exposure prophylaxis, or PrEP, is a way for people who do not have HIV but who are most likely to be exposed to HIV to prevent HIV infection by taking a pill every day. Currently, PrEP utilization data is only collected from HIV negative persons with a syphilis diagnosis.
LHD:	Local Health Department.
Exposure Factor Categories and Hierarchy (based on sex assigned at birth)	
MSM/PWID:	Men who have sex with men and also inject drugs.
MSM:	Men who have sex with men.
PWID:	Persons who inject drugs.
MSW:	Men who have sex with women (men who are not MSM or PWID and reported sex with women).
WSM:	Women who have sex with men (females who are not a PWID and reported sex with a male).

A note about counts: HIV is a chronic condition, and each diagnosis represents one unique person. STIs, in contrast, are curable, and patients can be diagnosed with multiple STIs in a given year or even reinfected with the same STI multiple times. Therefore, STI diagnosis counts exceed the number of unique patients. For this reason, STI coinfection counts for the year may exceed the number of unique persons with a reported STI coinfection that year.

Table 1: Primary and Secondary Syphilis-HIV Coinfections, 2023

	Diagnosis Count	Diagnoses of P&S Syphilis, 2023		HIV negative On PrEP ³ n (%)
		People Living with HIV Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)	
Population				
Michigan Total	845	167	8 (1%)	55 (7%)
Age				
14 and under	0	0	0	0
15-19 years	32	2 (6%)	1 (3%)	0
20-24 years	112	15 (13%)	0	4 (4%)
25-29 years	167	33 (20%)	4 (2%)	13 (8%)
30-39 years	304	73 (24%)	3 (1%)	24 (8%)
40-49 years	135	26 (19%)	0	10 (7%)
50-59 years	73	16 (22%)	0	4 (5%)
60+ years	22	2 (9%)	0	0
Race/Sex at birth⁴				
Black Female	87	2 (2%)	0	0
Black Male	337	104 (31%)	5 (1%)	12 (4%)
Hispanic Female	8	0	-	0
Hispanic Male	56	10 (18%)	1 (2%)	10 (18%)
Other Female	5	0	0	0
Other Male	20	4 (20%)	1 (5%)	1 (5%)
White Female	80	3 (4%)	1 (1%)	1 (1%)
White Male	243	44 (18%)	0	31 (13%)
Unknown Female	0	0	0	0
Unknown Male	9	0	0	0
Exposure Factor				
MSM/PWID	14	7 (50%)	0	3 (21%)
MSM	325	96 (30%)	7 (2%)	47 (14%)
PWID	11	1 (9%)	1 (9%)	0
MSW	208	14 (7%)	0	1 (0%)
WSM	154	1 (1%)	0	1 (1%)
Unknown/Other	133	48 (36%)	0	3 (2%)
Local Health Jurisdiction				
Allegan County	2	0	0	0
Barry-Eaton	13	5 (38%)	0	0
Bay County	4	0	0	0
Benzie-Leelanau	1	0	0	0
Berrien County	3	0	0	0
Branch-Hillsdale-St. Joseph	9	1 (11%)	0	0
Calhoun County	12	5 (42%)	1 (8%)	0
Central Michigan District	2	0	0	1 (50%)
Chippewa County	2	0	0	0
Delta-Menominee	1	0	0	0
Detroit LHD ⁵	227	61 (27%)	3 (1%)	6 (3%)

LHD Jurisdictions continued on next page

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis)

2. Persons with an HIV diagnosis within 30 days of STI diagnosis (can be before or after or same date)

3. HIV negative status and PrEP status derived from syphilis partner services field record; percentage displayed is out of all people diagnosed with the STI (Diagnosis Count).

4. Am Indian/AN, Asian/NH/PI, Multi/Other included in 'Other' category

5. Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points, and Harper Woods. Detroit LHD population estimate is from 2022, the most recently available complete data from the Census Bureau

Table 1: Primary and Secondary Syphilis-HIV Coinfections, 2023 (continued)

Population	Diagnosis Count	Diagnoses of P&S Syphilis, 2023		HIV negative, on PrEP ³
		People Living with HIV		
		Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)	
Dickinson-Iron	0	0	0	0
District 2	0	0	0	0
District 4	1	0	0	0
District 10	4	0	0	0
Genesee County	42	5 (12%)	1 (2%)	1 (2%)
Grand Traverse County	0	0	0	0
Huron County	0	0	0	0
Ingham County	34	7 (21%)	0	3 (9%)
Ionia County	3	0	0	0
Jackson County	28	3 (11%)	0	2 (7%)
Kalamazoo County	72	9 (13%)	0	0
Kent County	69	12 (17%)	0	8 (12%)
Lapeer County	4	0	0	1 (25%)
Lenawee County	4	0	0	1 (25%)
Livingston County	6	0	0	1 (17%)
Luce-Mack-Alger-School	0	0	0	0
Macomb County	76	7 (9%)	0	5 (7%)
Marquette County	2	0	0	1 (50%)
Midland County	3	1 (33%)	0	0
Mid-Michigan District	4	1 (25%)	1 (25%)	0
Monroe County	2	1 (50%)	0	0
Muskegon County	11	3 (27%)	0	0
Northwest MI Com Hlth Agency	4	1 (25%)	0	0
Oakland County	85	21 (25%)	1 (1%)	11 (13%)
Ottawa County	9	1 (11%)	0	2 (22%)
Saginaw County	7	1 (14%)	0	1 (14%)
Sanilac County	0	0	0	0
Shiawassee County	3	0	0	0
St Clair County	10	0	0	1 (10%)
Tuscola County	0	0	0	0
Van Buren-Cass	2	1 (50%)	0	0
Washtenaw County	24	3 (13%)	0	7 (29%)
Wayne County LHD ⁶	59	18 (31%)	1 (2%)	3 (5%)
Western UP District	1	0	0	0

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis)

2. Persons with an HIV diagnosis within 30 days of STI diagnosis (can be before or after or same date)

3. HIV negative status and PrEP status derived from syphilis partner services field record; percentage displayed is out of all people diagnosed with the STI (Diagnosis Count).

6. Excludes the City of Detroit

Table 2: Latent Syphilis-HIV Coinfections, 2023

Population	Diagnosis Count	Diagnoses of Latent Syphilis, 2023		HIV negative On PrEP ³ n (%)
		People Living with HIV Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)	
Michigan Total	2178	599 (28%)	24 (1%)	8 (0%)
Age				
14 and under	0	0	0	0
15-19 years	61	5 (8%)	2 (3%)	0
20-24 years	309	62 (20%)	7 (2%)	1 (0%)
25-29 years	373	82 (22%)	2 (1%)	2 (1%)
30-39 years	812	243 (30%)	9 (1%)	4 (0%)
40-49 years	337	106 (31%)	4 (1%)	1 (0%)
50-59 years	201	76 (38%)	0	0
60+ years	85	25 (29%)	0	0
Race/Sex at birth⁴				
Black Female	342	15 (4%)	2 (1%)	0
Black Male	839	367 (44%)	9 (1%)	1 (0%)
Hispanic Female	69	1 (1%)	0	0
Hispanic Male	151	49 (32%)	5 (3%)	3 (2%)
Other Female	22	0	0	0
Other Male	56	19 (34%)	3 (5%)	0
White Female	240	7 (3%)	0	0
White Male	404	134 (33%)	4 (1%)	4 (1%)
Unknown Female	20	0	0	0
Unknown Male	35	7 (20%)	1 (3%)	0
Exposure Factor				
MSM/PWID	8	5 (63%)	0	0
MSM	347	164 (47%)	20 (6%)	7 (2%)
PWID	29	6 (21%)	1 (3%)	0
MSW	169	15 (9%)	0	0
WSM	409	5 (1%)	1 (0%)	0
Unknown/Other	1216	404 (33%)	2 (0%)	1 (0%)
Local Health Jurisdiction				
Allegan County	11	2 (18%)	0	0
Barry-Eaton	25	9 (36%)	2 (8%)	0
Bay County	6	1 (17%)	0	0
Benzie-Leelanau	2	0	0	0
Berrien County	16	3 (19%)	0	0
Branch-Hillsdale-St. Joseph	7	0	0	0
Calhoun County	31	2 (6%)	0	0
Central Michigan District	3	0	0	0
Chippewa County	3	1 (33%)	0	0
Delta-Menominee	3	0	0	0
Detroit LHD ⁵	682	236 (35%)	12 (2%)	1 (0%)

LHD Jurisdictions continued on next page

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis)

2. Persons with an HIV diagnosis within 30 days of STI diagnosis (can be before or after or same date)

3. HIV negative status and PrEP status derived from syphilis partner services field record; percentage displayed is out of all people diagnosed with the STI (Diagnosis Count).

4. Am Indian/AN, Asian/NH/PI, Multi/Other included in 'Other' category

5. Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points, and Harper Woods. Detroit LHD population estimate is from 2022, the most recently available complete data from the Census Bureau

Table 2: Latent Syphilis-HIV Coinfections, 2023 (continued)

Population	Diagnoses of Latent Syphilis, 2023			
	Diagnosis Count	People Living with HIV		HIV negative, on PrEP ³ n (%)
		Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)	
Dickinson-Iron	0	0	0	0
District 2	3	0	0	0
District 4	2	0	0	0
District 10	13	5 (38%)	0	0
Genesee County	114	25 (22%)	0	0
Grand Traverse County	3	1 (33%)	0	1 (33%)
Huron County	0	0	0	0
Ingham County	67	23 (34%)	1 (1%)	0
Ionia County	4	1 (25%)	0	0
Jackson County	119	14 (12%)	0	0
Kalamazoo County	83	4 (5%)	0	0
Kent County	152	43 (28%)	1 (1%)	0
Lapeer County	7	0	0	0
Lenawee County	12	4 (33%)	0	0
Livingston County	7	2 (29%)	0	0
Luce-Mack-Alger-School	3	0	0	0
Macomb County	159	50 (31%)	2 (1%)	1 (1%)
Marquette County	3	1 (33%)	0	0
Midland County	3	2 (67%)	0	1 (33%)
Mid-Michigan District	14	3 (21%)	0	0
Monroe County	9	2 (22%)	0	0
Muskegon County	25	5 (20%)	0	1 (4%)
Northwest MI Com Hlth Agency	5	3 (60%)	0	0
Oakland County	204	64 (31%)	2 (1%)	2 (1%)
Ottawa County	18	4 (22%)	0	0
Saginaw County	26	8 (31%)	0	0
Sanilac County	2	0	0	0
Shiawassee County	3	0	0	0
St Clair County	16	0	0	0
Tuscola County	1	1 (100%)	0	0
Van Buren-Cass	14	1 (7%)	0	0
Washtenaw County	78	16 (21%)	1 (1%)	0
Wayne County LHD ⁶	215	63 (29%)	3 (1%)	1 (0%)
Western UP District	5	0	0	0

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis)

2. Persons with an HIV diagnosis within 30 days of STI diagnosis (can be before or after or same date)

3. HIV negative status and PrEP status derived from syphilis partner services field record; percentage displayed is out of all people diagnosed with the STI (Diagnosis Count).

6. Excludes the City of Detroit

Table 3: Gonorrhea-HIV Coinfections, 2023

Population	Diagnosis Count	Diagnoses of Gonorrhea, 2023		
		Co-diagnosed w/ Chlamydia ¹ n (%)	Coinfected w/ HIV ² n (%)	Co-diagnosed w/ HIV ³ n (%)
Michigan Total	15277	4224 (27.6%)	883 (5.8%)	17 (0.1%)
Age				
14 and under	140	73 (52.1%)	0	0
15-19 years	3184	1428 (44.8%)	26 (0.8%)	2 (0.1%)
20-24 years	3975	1248 (31.4%)	134 (3.4%)	5 (0.1%)
25-29 years	2782	592 (21.3%)	183 (6.6%)	2 (0.1%)
30-39 years	3354	606 (18.1%)	343 (10.2%)	5 (0.1%)
40-49 years	1195	176 (14.7%)	123 (10.3%)	2 (0.2%)
50-59 years	467	78 (16.7%)	57 (12.2%)	1 (0.2%)
60+ years	180	23 (12.8%)	17 (9.4%)	0
Race/Sex at birth ⁴				
Black Female	4057	1349 (33.3%)	24 (0.6%)	1 (0.0%)
Black Male	5427	1495 (27.5%)	616 (11.4%)	7 (0.1%)
Hispanic Female	358	122 (34.1%)	2 (0.6%)	0
Hispanic Male	354	90 (25.4%)	45 (12.7%)	0
Other Female	273	75 (27.5%)	0	0
Other Male	407	95 (23.3%)	22 (5.4%)	2 (0.5%)
White Female	1645	429 (26.1%)	10 (0.6%)	2 (0.1%)
White Male	1573	284 (18.1%)	138 (8.8%)	4 (0.3%)
Unknown Female	427	129 (30.2%)	3 (0.7%)	0
Unknown Male	756		23 (3.0%)	1 (0.1%)
Exposure Factor				
MSM/PWID	50	13	48	1
MSM	1724	351	676	11
PWID	40	12	11	2
MSW	2641	672	4	0
WSM	4001	1165	24	1
Unknown/Other	6821	2011	32	2
<i>note that 45% of gonorrhea cases are missing risk, while <15% of HIV prevalent cases are missing this information</i>				
Local Health Jurisdiction				
Allegan County	80	11 (13.8%)	4 (5.0%)	0
Barry-Eaton	144	41 (28.5%)	11 (7.6%)	1 (0.7%)
Bay County	42	12 (28.6%)	0	0
Benzie-Leelanau	10	1 (10.0%)	0	0
Berrien County	185	75 (40.5%)	1 (0.5%)	0
Branch-Hillsdale-St. Jos	102	19 (18.6%)	2 (2.0%)	0
Calhoun County	288	79 (27.4%)	4 (1.4%)	0
Central Michigan Distric	71	21 (29.6%)	3 (4.2%)	1 (1.4%)
Chippewa County	4	1 (25.0%)	0	0
Delta-Menominee	10	4 (40.0%)	1 (10.0%)	0
Detroit LHD ⁵	4639	1479 (31.9%)	385 (8.3%)	6 (0.1%)

LHD Jurisdictions continued on next page

- Persons with both STI diagnoses within 30 days of each other (can be before or after or same date)
- Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis)
- Persons with both STI and HIV diagnoses within 30 days of each other (can be before or after or same date)
- Am Indian/AN, Asian/NH/PI, Multi/Other included in 'Other' category
- Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points, and Harper Woods. Detroit LHD population estimate is from 2022, the most recently available complete data from the Census Bureau

Table 3: Gonorrhea-HIV Coinfections, 2023 (continued)

Population	Diagnosis Count	Diagnoses of Gonorrhea, 2023		
		Co-diagnosed w/ Chlamydia ¹ n (%)	Coinfected w/ HIV ² n (%)	Co-diagnosed w/ HIV ³ n (%)
Dickinson-Iron	3	2 (66.7%)	0	0
District 2	6	21 (350.0%)	0	0
District 4	5	296 (5920.0%)	0	0
District 10	87	7 (8.0%)	3 (3.4%)	0
Genesee County	897	1 (0.1%)	35 (3.9%)	0
Grand Traverse County	22	167 (759.1%)	1 (4.5%)	0
Huron County	4	9 (225.0%)	0	0
Ingham County	623	49 (7.9%)	25 (4.0%)	0
Ionia County	17	193 (1135.3%)	0	0
Jackson County	202	352 (174.3%)	4 (2.0%)	0
Kalamazoo County	710	3 (0.4%)	20 (2.8%)	0
Kent County	1237	12 (1.0%)	47 (3.8%)	2 (0.2%)
Lapeer County	13	8 (61.5%)	2 (15.4%)	0
Lenawee County	63	3 (4.8%)	3 (4.8%)	0
Livingston County	45	271 (602.2%)	3 (6.7%)	0
Luce-Mack-Alger-Schoc	8	3 (37.5%)	0	0
Macomb County	1068	3 (0.3%)	79 (7.4%)	2 (0.2%)
Marquette County	28	25 (89.3%)	0	0
Midland County	19	18 (94.7%)	1 (5.3%)	0
Mid-Michigan District	101	159 (157.4%)	4 (4.0%)	0
Monroe County	69	5 (7.2%)	4 (5.8%)	0
Muskegon County	641	336 (52.4%)	9 (1.4%)	0
Northwest MI Com Hlth	16	41 (256.3%)	0	0
Oakland County	1313	24 (1.8%)	101 (7.7%)	2 (0.2%)
Ottawa County	168	1 (0.6%)	6 (3.6%)	0
Saginaw County	488	6 (1.2%)	14 (2.9%)	1 (0.2%)
Sanilac County	5	21 (420.0%)	0	0
Shiawassee County	19	1 (5.3%)	0	0
St Clair County	82	17 (20.7%)	2 (2.4%)	0
Tuscola County	11	77 (700.0%)	0	0
Van Buren-Cass	84	0	5 (6.0%)	0
Washtenaw County	369	3 (0.8%)	21 (5.7%)	1 (0.3%)
Wayne County LHD ⁶	1269	0	83 (6.5%)	1 (0.1%)
Western UP District	10	0	0	0

1. Persons with both STI diagnoses within 30 days of each other (can be before or after or same date)

2. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis)

3. Persons with both STI and HIV diagnoses within 30 days of each other (can be before or after or same date)

6. Excludes the City of Detroit

Table 4: Chlamydia-HIV Coinfections, 2023

Population	Diagnosis Count	Diagnoses of Chlamydia, 2023		
		Co-diagnosed w/ Gonorrhea ¹ n (%)	Coinfected w/ HIV ² n (%)	Co-diagnosed w/ HIV ³ n (%)
Michigan Total	42957	4224 (9.8%)	782 (1.8%)	28 (0.1%)
Age				
14 and under	410	73 (17.8%)	0	0
15-19 years	11676	1428 (12.2%)	33 (0.3%)	4 (0.0%)
20-24 years	14897	1248 (8.4%)	103 (0.7%)	7 (0.0%)
25-29 years	7291	592 (8.1%)	148 (2.0%)	4 (0.1%)
30-39 years	6337	606 (9.6%)	324 (5.1%)	9 (0.1%)
40-49 years	1619	176 (10.9%)	110 (6.8%)	3 (0.2%)
50-59 years	543	78 (14.4%)	46 (8.5%)	1 (0.2%)
60+ years	184	23 (12.5%)	18 (9.8%)	0
Race/Sex at birth ⁴				
Black Female	12283	1349 (11.0%)	37 (0.3%)	1 (0.0%)
Black Male	7859	1495 (19.0%)	457 (5.8%)	14 (0.2%)
Hispanic Female	1852	122 (6.6%)	3 (0.2%)	0
Hispanic Male	805	90 (11.2%)	53 (6.6%)	4 (0.5%)
Other Female	1688	75 (4.4%)	1 (0.1%)	0
Other Male	1026	95 (9.3%)	21 (2.0%)	3 (0.3%)
White Female	8292	429 (5.2%)	7 (0.1%)	1 (0.0%)
White Male	3622	284 (7.8%)	116 (3.2%)	2 (0.1%)
Unknown Female	3321	129 (3.9%)	7 (0.2%)	1 (0.0%)
Unknown Male	2210		22 (1.0%)	2 (0.1%)
Exposure Factor				
MSM/PWID	2	13	2	1
MSM	1367	351	276	18
PWID	58	12	0	1
MSW	4452	672	30	1
WSM	11959	1165	18	1
Unknown/Other	25119	2011	456	6
<i>note that 58% of chlamydia cases are missing risk, while <15% of HIV prevalent cases are missing this information</i>				
Local Health Jurisdiction				
Allegan County	252	11 (4.4%)	3 (1.2%)	0
Barry-Eaton	410	41 (10.0%)	6 (1.5%)	0
Bay County	252	12 (4.8%)	1 (0.4%)	0
Benzie-Leelanau	49	1 (2.0%)	0	0
Berrien County	833	75 (9.0%)	3 (0.4%)	0
Branch-Hillsdale-St. Joseph	428	19 (4.4%)	2 (0.5%)	1 (0.2%)
Calhoun County	842	79 (9.4%)	8 (1.0%)	1 (0.1%)
Central Michigan District	415	21 (5.1%)	0	0
Chippewa County	115	1 (0.9%)	0	0
Delta-Menominee	65	4 (6.2%)	0	0
Detroit LHD ⁵	10065	1479 (14.7%)	329 (3.3%)	15 (0.1%)

LHD Jurisdictions continued on next page

- Persons with both STI diagnoses within 30 days of each other (can be before or after or same date)
- Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis) in
- Persons with both STI and HIV diagnoses within 30 days of each other (can be before or after or same date)
- Am Indian/AN, Asian/NH/PI, Multi/Other included in 'Other' category
- Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points, and Harper Woods. Detroit LHD population estimate is from 2022, the most recently available complete data from the Census Bureau

Table 4: Chlamydia-HIV Coinfections, 2023 (continued)

Population	Diagnosis Count	Diagnoses of Chlamydia, 2023		
		Co-diagnosed w/ Gonorrhea ¹ n (%)	Coinfected w/ HIV ² n (%)	Co-diagnosed w/ HIV ³ n (%)
Dickinson-Iron	47	0	0	0
District 2	72	1 (1.4%)	1 (1.4%)	0
District 4	98	2 (2.0%)	0	0
District 10	594	21 (3.5%)	3 (0.5%)	0
Genesee County	2433	296 (12.2%)	31 (1.3%)	2 (0.1%)
Grand Traverse County	200	7 (3.5%)	1 (0.5%)	0
Huron County	38	1 (2.6%)	0	0
Ingham County	1523	167 (11.0%)	24 (1.6%)	0
Ionia County	161	9 (5.6%)	0	0
Jackson County	745	49 (6.6%)	4 (0.5%)	0
Kalamazoo County	1769	193 (10.9%)	27 (1.5%)	1 (0.1%)
Kent County	3662	352 (9.6%)	52 (1.4%)	1 (0.0%)
Lapeer County	108	3 (2.8%)	0	0
Lenawee County	198	12 (6.1%)	0	0
Livingston County	254	8 (3.1%)	3 (1.2%)	0
Luce-Mack-Alger-School	51	3 (5.9%)	0	0
Macomb County	3154	271 (8.6%)	49 (1.6%)	0
Marquette County	150	3 (2.0%)	0	0
Midland County	173	3 (1.7%)	1 (0.6%)	0
Mid-Michigan District	424	25 (5.9%)	3 (0.7%)	0
Monroe County	340	18 (5.3%)	6 (1.8%)	0
Muskegon County	1290	159 (12.3%)	12 (0.9%)	0
Northwest MI Com Hlth Agency	184	5 (2.7%)	0	0
Oakland County	3757	336 (8.9%)	81 (2.2%)	2 (0.1%)
Ottawa County	720	41 (5.7%)	9 (1.3%)	1 (0.1%)
Saginaw County	1049	24 (2.3%)	12 (1.1%)	0
Sanilac County	45	1 (2.2%)	0	0
Shiawassee County	111	6 (5.4%)	0	0
St Clair County	349	21 (6.0%)	0	0
Tuscola County	90	1 (1.1%)	1 (1.1%)	0
Van Buren-Cass	385	17 (4.4%)	6 (1.6%)	0
Washtenaw County	1287	77 (6.0%)	18 (1.4%)	1 (0.1%)
Wayne County LHD ⁶	3749	346 (9.2%)	86 (2.3%)	3 (0.1%)
Western UP District	77	3 (3.9%)	0	0

1. Persons with both STI diagnoses within 30 days of each other (can be before or after or same date)

2. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis) in

3. Persons with both STI and HIV diagnoses within 30 days of each other (can be before or after or same date)

6. Excludes the City of Detroit

Table 5: STI-HIV Coinfections and the HIV Care Continuum, 2023

	Prevalence Count	Persons Living with HIV (Prevalence), 2023			
		Coinfected w/ at least 1 STI ¹ n (% of PLWH)	In HIV Care ² n (% of co-infected)	Virally Suppressed ³ n (% of co-infected)	Maintained Undetectable ⁴ n (% of co-infected)
Population					
Michigan Total	18437	1744 (9%)	1267 (73%)	538 (31%)	404 (23%)
Age					
14 and under	48	0	0	0	0
15-19 years	85	36 (42%)	15 (42%)	4 (11%)	4 (11%)
20-24 years	482	201 (42%)	118 (59%)	60 (30%)	51 (25%)
25-29 years	1257	303 (24%)	232 (77%)	93 (31%)	67 (22%)
30-39 years	4355	695 (16%)	529 (76%)	206 (30%)	152 (22%)
40-49 years	3411	289 (8%)	221 (76%)	101 (35%)	73 (25%)
50-59 years	4390	165 (4%)	111 (67%)	51 (31%)	37 (22%)
60+ years	4409	55 (1%)	41 (75%)	23 (42%)	20 (36%)
Race/Sex at birth⁵					
Black Female	2434	68 (3%)	55 (81%)	16 (24%)	16 (24%)
Black Male	7437	1080 (15%)	791 (73%)	333 (31%)	247 (23%)
Hispanic Female	239	5 (2%)	6 (120%)	1 (20%)	1 (20%)
Hispanic Male	1215	121 (10%)	119 (98%)	49 (40%)	41 (34%)
Other Female	170	9 (5%)	1 (11%)	1 (11%)	0
Other Male	684	103 (15%)	44 (43%)	19 (18%)	12 (12%)
White Female	809	20 (2%)	14 (70%)	3 (15%)	1 (5%)
White Male	5448	305 (6%)	237 (78%)	116 (38%)	86 (28%)
Exposure Factor					
MSM/PWID	784	14 (2%)	68 (486%)	24 (171%)	21 (150%)
MSM	10867	618 (6%)	1032 (167%)	465 (75%)	349 (56%)
PWID	913	6 (1%)	18 (300%)	3 (50%)	2 (33%)
MSW	667	89 (13%)	22 (25%)	7 (8%)	5 (6%)
WSM	3034	38 (1%)	58 (153%)	17 (45%)	15 (39%)
Unknown/Other	2172	979 (45%)	69 (7%)	22 (2%)	12 (1%)
Local Health Jurisdiction					
Allegan County	148	6 (4%)	7 (117%)	6 (100%)	4 (67%)
Barry-Eaton	162	19 (12%)	14 (74%)	7 (37%)	7 (37%)
Bay County	87	2 (2%)	3 (150%)	1 (50%)	1 (50%)
Benzie-Leelanau	23	0	0	0	0
Berrien County	252	6 (2%)	4 (67%)	0	0
Branch-Hillsdale-St. Joseph	92	5 (5%)	5 (100%)	0	0
Calhoun County	237	17 (7%)	16 (94%)	6 (35%)	4 (24%)
Central Michigan District	154	3 (2%)	2 (67%)	1 (33%)	1 (33%)
Chippewa County	17	1 (6%)	0	0	0
Delta-Menominee	35	1 (3%)	1 (100%)	1 (100%)	0
Detroit LHD ⁶	5609	706 (13%)	539 (76%)	201 (28%)	151 (21%)

LHD Jurisdictions continued on next page

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis)

2. In Care - PLWH with at least 1 CD4, viral load, or genotype lab test (proxies for medical care visits) in the 12 months prior to or on the date of STI diagnosis.

3. Virally Suppressed - PLWH who are in care with less than 200 copies of HIV virus per milliliter of blood (<200c/mL) based on most recent lab prior to or on the date of STI diagnosis.

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

5. Am Indian/AN, Asian/NH/PI, Multi/Other included in 'Other' category

6. Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points, and Harper Woods. Detroit LHD population estimate is from 2022, the most recently available complete data from the Census Bureau

Table 5: STI-HIV Coinfections and the HIV Care Continuum, 2023 (continued)

Population	Prevalence Count	Persons Living with HIV (Prevalence), 2023			
		Coinfected w/ at least 1 STI			
		Coinfected w/ at least 1 STI ¹ n (% of PLWH)	In HIV Care ² n (% of co-infected)	Virally Suppressed ³ n (% of co-infected)	Maintained Undetectable ⁴ n (% of co-infected)
Dickinson-Iron	20	0	0	0	0
District 2	43	1 (2%)	1 (100%)	0	0
District 4	47	0	0	0	0
District 10	189	9 (5%)	7 (78%)	3 (33%)	2 (22%)
Genesee County	649	63 (10%)	48 (76%)	32 (51%)	21 (33%)
Grand Traverse County	92	3 (3%)	2 (67%)	1 (33%)	1 (33%)
Huron County	11	0	0	0	0
Ingham County	506	57 (11%)	38 (67%)	16 (28%)	11 (19%)
Ionia County	38	1 (3%)	0	0	0
Jackson County	178	20 (11%)	6 (30%)	3 (15%)	1 (5%)
Kalamazoo County	442	40 (9%)	24 (60%)	14 (35%)	9 (23%)
Kent County	1173	112 (10%)	81 (72%)	35 (31%)	24 (21%)
Lapeer County	53	2 (4%)	0	0	0
Lenawee County	58	6 (10%)	2 (33%)	2 (33%)	2 (33%)
Livingston County	104	5 (5%)	3 (60%)	2 (40%)	2 (40%)
Luce-Mack-Alger-School	29	0	0	0	0
Macomb County	1406	132 (9%)	92 (70%)	37 (28%)	32 (24%)
Marquette County	41	1 (2%)	1 (100%)	1 (100%)	1 (100%)
Midland County	40	3 (8%)	2 (67%)	2 (67%)	1 (33%)
Mid-Michigan District	103	6 (6%)	6 (100%)	1 (17%)	1 (17%)
Monroe County	146	8 (5%)	5 (63%)	2 (25%)	1 (13%)
Muskegon County	198	22 (11%)	16 (73%)	9 (41%)	9 (41%)
Northwest MI Com Hlth Agency	74	4 (5%)	1 (25%)	0	0
Oakland County	2335	204 (9%)	137 (67%)	58 (28%)	45 (22%)
Ottawa County	177	15 (8%)	10 (67%)	2 (13%)	2 (13%)
Saginaw County	280	30 (11%)	21 (70%)	7 (23%)	5 (17%)
Sanilac County	25	0	0	0	0
Shiawassee County	49	0	0	0	0
St Clair County	134	2 (1%)	3 (150%)	2 (100%)	0
Tuscola County	22	2 (9%)	3 (150%)	1 (50%)	0
Van Buren-Cass	119	7 (6%)	3 (43%)	3 (43%)	3 (43%)
Washtenaw County	616	45 (7%)	28 (62%)	15 (33%)	12 (27%)
Wayne County LHD ⁷	1907	178 (9%)	127 (71%)	63 (35%)	47 (26%)
Western UP District	29	0	0	0	0
Unknown Jurisdiction	0	0	0	0	0
Prisons*	288	17 (6%)	9 (53%)	4 (24%)	3 (18%)

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis)

2. In Care - PLWH with at least 1 CD4, viral load, or genotype lab test (proxies for medical care visits) in the 12 months prior to or on the date of STI diagnosis.

3. Virally Suppressed - PLWH who are in care with less than 200 copies of HIV virus per milliliter of blood (<200c/mL) based on most recent lab prior to or on the date of STI diagnosis.

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

7. Excludes the City of Detroit

*Persons in prisons (state or federal) located in Michigan. Reported separately for geographic stratification.