

# STI & HIV Coinfections in Michigan, 2020

All data as of June 1, 2021



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[www.michigan.gov/hivsti](http://www.michigan.gov/hivsti)

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## Overview

Michigan's STI Surveillance Program collects, interprets, and disseminates population level data regarding persons with sexually transmitted infections. Data is 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.

STI 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 (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 a 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 STD case was reported to the health department.

**HIV Prevalence:** The number of persons living with HIV at the end of the year.

*A note about counts:* HIV is a chronic condition, and each diagnosis represents one unique person. STI, in contrast, are curable, and patients can be diagnosed with multiple STI in a given year or even reinfected with the same STI multiple times, so 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.

**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 STD 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 at very high risk of getting 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, [see map here](#).

Transmission Risk 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).

Table 1: Primary and Secondary Syphilis-HIV Coinfections, 2020

Population	Diagnosis Count	Diagnoses of P&S Syphilis, 2020		
		People Living with HIV		HIV negative
		Coinfected w/ HIV <sup>1</sup> n (%)	Co-diagnosed w/ HIV <sup>2</sup> n (%)	On PrEP* n (%)
<b>Michigan Total</b>	783	189 (24%)	9 (1%)	48 (6%)
<b>Age</b>				
14 and under	0	0	0	0
15-19 years	28	4 (14%)	0	0
20-24 years	122	16 (13%)	3 (2%)	9 (7%)
25-29 years	175	49 (28%)	3 (2%)	12 (7%)
30-39 years	223	67 (30%)	1 (0%)	13 (6%)
40-49 years	119	30 (25%)	1 (1%)	5 (4%)
50-59 years	86	19 (22%)	1 (1%)	5 (6%)
60+ years	30	4 (13%)	0	4 (13%)
<b>Race/Sex at birth</b>				
Black Female	70	1 (1%)	0	1 (1%)
Black Male	401	131 (33%)	5 (1%)	13 (3%)
Hispanic Female	4	0	0	0
Hispanic Male	30	6 (20%)	1 (3%)	4 (13%)
Other Female	2	0	0	0
Other Male	28	6 (21%)	1 (4%)	2 (7%)
White Female	36	0	0	0
White Male	209	45 (22%)	2 (1%)	28 (13%)
Unknown Female	0	0	0	0
Unknown Male	3	0	0	0
<b>Transmission Risk</b>				
MSM/PWID	7	6 (86%)	1 (14%)	1 (14%)
MSM	381	164 (43%)	8 (2%)	44 (12%)
PWID	10	1 (10%)	0	0
MSW	209	4 (2%)	0	2 (1%)
WSM	99	0	0	1 (1%)
Unknown/Other	77	14 (18%)	0	0
<b>Local Health Jurisdiction</b>				
Allegan County	2	0	0	0
Barry-Eaton	7	0	0	0
Bay County	2	0	0	0
Benzie-Leelanau	0	0	0	0
Berrien County	3	2 (67%)	0	0
Branch-Hillsdale-St. Joseph	1	0	0	0
Calhoun County	7	1 (14%)	0	0
Central Michigan District	3	0	0	1 (33%)
Chippewa County	1	0	0	0
Delta-Menominee	0	0	0	0
Detroit LHD	303	90 (30%)	4 (1%)	8 (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) in 2020
2. Persons with an HIV diagnosis within 30 days of STI diagnosis (can be before or after or same date)

\* HIV negative status and PrEP status derived from syphilis partner services field record; percentage displayed is out of all people diagnosed with the STI in 2020 (Diagnosis Count).

Table 1: Primary and Secondary Syphilis-HIV Coinfections, 2020 (continued)

Population	Diagnosis Count	Diagnoses of P&S Syphilis, 2020		
		People Living with HIV		HIV negative
		Coinfected w/ HIV <sup>1</sup> n (%)	Co-diagnosed w/ HIV <sup>2</sup> n (%)	On PrEP* n (%)
Dickinson-Iron	0	0	0	0
District 2	1	0	0	0
District 4	1	0	0	0
District 10	4	0	0	1 (25%)
Genesee County	26	4 (15%)	0	1 (4%)
Grand Traverse County	4	3 (75%)	0	1 (25%)
Huron County	1	0	0	0
Ingham County	33	4 (12%)	1 (3%)	4 (12%)
Ionia County	2	0	0	1 (50%)
Jackson County	9	2 (22%)	0	1 (11%)
Kalamazoo County	29	4 (14%)	0	1 (3%)
Kent County	37	6 (16%)	0	5 (14%)
Lapeer County	2	1 (50%)	0	0
Lenawee County	1	0	0	0
Livingston County	5	0	0	2 (40%)
Luce-Mack-Alger-School	0	0	0	0
Macomb County	80	17 (21%)	1 (1%)	3 (4%)
Marquette County	0	0	0	0
Midland County	1	0	0	0
Mid-Michigan District	4	0	0	1 (25%)
Monroe County	1	0	0	0
Muskegon County	3	0	0	0
Northwest MI Com Hlth Agency	0	0	0	0
Oakland County	77	25 (32%)	0	9 (12%)
Ottawa County	8	1 (13%)	0	0
Saginaw County	4	0	0	0
Sanilac County	1	0	0	0
Shiawassee County	6	0	0	0
St Clair County	7	1 (14%)	0	1 (14%)
Tuscola County	1	0	0	0
Van Buren-Cass	4	2 (50%)	1 (25%)	1 (25%)
Washtenaw County	30	6 (20%)	0	4 (13%)
Wayne County LHD	71	19 (27%)	2 (3%)	3 (4%)
Western UP District	1	1 (100%)	0	0

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis) in 2020

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

\* HIV negative status and PrEP status derived from syphilis partner services field record; percentage displayed is out of all people diagnosed with the STI in 2020 (Diagnosis Count).

Table 2: Latent Syphilis-HIV Coinfections, 2020

Population	Diagnosis Count	Diagnoses of Latent Syphilis, 2020		HIV negative On PrEP* n (%)
		People Living with HIV Coinfected w/ HIV <sup>1</sup> n (%)	Co-diagnosed w/ HIV <sup>2</sup> n (%)	
Michigan Total	1236	347 (28%)	11 (1%)	71 (6%)
<b>Age</b>				
14 and under	2	0	0	0
15-19 years	36	4 (11%)	0	1 (3%)
20-24 years	163	22 (13%)	2 (1%)	9 (6%)
25-29 years	236	67 (28%)	2 (1%)	10 (4%)
30-39 years	384	111 (29%)	3 (1%)	25 (7%)
40-49 years	232	81 (35%)	3 (1%)	13 (6%)
50-59 years	137	50 (36%)	0	8 (6%)
60+ years	46	12 (26%)	1 (2%)	5 (11%)
<b>Race/Sex at birth</b>				
Black Female	172	5 (3%)	0	2 (1%)
Black Male	489	208 (43%)	5 (1%)	20 (4%)
Hispanic Female	22	0	0	0
Hispanic Male	70	18 (26%)	2 (3%)	6 (9%)
Other Female	11	0	0	0
Other Male	27	6 (22%)	0	3 (11%)
White Female	101	5 (5%)	1 (1%)	2 (2%)
White Male	320	100 (31%)	3 (1%)	38 (12%)
Unknown Female	8	0	0	0
Unknown Male	16	5 (31%)	0	0
<b>Transmission Risk</b>				
MSM/PWID	21	14 (67%)	0	2 (10%)
MSM	528	294 (56%)	7 (1%)	55 (10%)
PWID	21	3 (14%)	1 (5%)	1 (5%)
MSW	179	5 (3%)	0	1 (1%)
WSM	218	5 (2%)	0	3 (1%)
Unknown/Other	269	26 (10%)	3 (1%)	9 (3%)
<b>Local Health Jurisdiction</b>				
Allegan County	9	1 (11%)	0	0
Barry-Eaton	11	1 (9%)	1 (9%)	0
Bay County	2	1 (50%)	0	0
Benzie-Leelanau	3	0	0	0
Berrien County	6	3 (50%)	0	1 (17%)
Branch-Hillsdale-St. Joseph	2	1 (50%)	0	0
Calhoun County	13	1 (8%)	0	0
Central Michigan District	10	2 (20%)	0	0
Chippewa County	2	0	0	1 (50%)
Delta-Menominee	1	0	0	0
Detroit LHD	453	146 (32%)	3 (1%)	10 (2%)

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) in 2020

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

\* HIV negative status and PrEP status derived from syphilis partner services field record;

percentage displayed is out of all people diagnosed with the STI in 2020 (Diagnosis Count).

Table 2: Latent Syphilis-HIV Coinfections, 2020 (continued)

Population	Diagnoses of Latent Syphilis, 2020			
	Diagnosis Count	People Living with HIV		HIV negative, on PrEP* n (%)
		Coinfected w/ HIV <sup>1</sup> n (%)	Co-diagnosed w/ HIV <sup>2</sup> n (%)	
Dickinson-Iron	2	1 (50%)	0	0
District 2	0	0	0	0
District 4	0	0	0	0
District 10	18	0	0	1 (6%)
Genesee County	41	6 (15%)	0	1 (2%)
Grand Traverse County	2	0	0	0
Huron County	0	0	0	0
Ingham County	48	15 (31%)	0	5 (10%)
Ionia County	0	0	0	0
Jackson County	32	3 (9%)	0	1 (3%)
Kalamazoo County	32	6 (19%)	0	1 (3%)
Kent County	105	28 (27%)	0	6 (6%)
Lapeer County	7	2 (29%)	0	1 (14%)
Lenawee County	5	2 (40%)	0	0
Livingston County	3	0	0	0
Luce-Mack-Alger-School	2	0	0	0
Macomb County	82	25 (30%)	2 (2%)	7 (9%)
Marquette County	1	0	0	0
Midland County	1	0	0	0
Mid-Michigan District	14	3 (21%)	0	3 (21%)
Monroe County	7	4 (57%)	0	0
Muskegon County	9	1 (11%)	0	1 (11%)
Northwest MI Com Hlth Agency	7	0	0	0
Oakland County	138	47 (34%)	2 (1%)	16 (12%)
Ottawa County	16	3 (19%)	0	1 (6%)
Saginaw County	6	2 (33%)	0	0
Sanilac County	0	0	0	0
Shiawassee County	4	2 (50%)	0	0
St Clair County	5	0	0	0
Tuscola County	1	0	0	0
Van Buren-Cass	9	2 (22%)	0	1 (11%)
Washtenaw County	30	7 (23%)	1 (3%)	6 (20%)
Wayne LHD	96	32 (33%)	2 (2%)	8 (8%)
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) in 2020

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

\* HIV negative status and PrEP status derived from syphilis partner services field record; percentage displayed is out of all people diagnosed with the STI in 2020 (Diagnosis Count).

Table 3: Gonorrhea-HIV Coinfections, 2020

Population	Diagnosis Count	Diagnoses of Gonorrhea, 2020		
		Co-diagnosed w/ Chlamydia <sup>1</sup> n (%)	Coinfected w/ HIV <sup>2</sup> n (%)	Co-diagnosed w/ HIV <sup>3</sup> n (%)
Michigan Total	23414	6519 (27.8%)	735 (3.1%)	21 (0.1%)
<b>Age</b>				
14 and under	117	46 (39.3%)	0	0
15-19 years	4060	1925 (47.4%)	24 (0.6%)	2 (0.0%)
20-24 years	6804	2237 (32.9%)	123 (1.8%)	8 (0.1%)
25-29 years	5295	1182 (22.3%)	186 (3.5%)	5 (0.1%)
30-39 years	4754	816 (17.2%)	262 (5.5%)	4 (0.1%)
40-49 years	1479	182 (12.3%)	76 (5.1%)	0
50-59 years	680	102 (15.0%)	50 (7.4%)	1 (0.1%)
60+ years	225	29 (12.9%)	14 (6.2%)	1 (0.4%)
<b>Race/Sex at birth</b>				
Black Female	5982	1911 (31.9%)	22 (0.4%)	0
Black Male	7303	1934 (26.5%)	509 (7.0%)	17 (0.2%)
Hispanic Female	425	136 (32.0%)	0	0
Hispanic Male	299	70 (23.4%)	19 (6.4%)	2 (0.7%)
Other Female	559	193 (34.5%)	1 (0.2%)	0
Other Male	645	155 (24.0%)	23 (3.6%)	0
White Female	2867	881 (30.7%)	11 (0.4%)	0
White Male	1901	365 (19.2%)	96 (5.0%)	2 (0.1%)
Unknown Female	1592	476 (29.9%)	10 (0.6%)	0
Unknown Male	1840		44 (2.4%)	0
<b>Transmission Risk</b>				
MSM/PWID	29	10	27	0
MSM	1088	217	592	19
PWID	47	10	11	1
MSW	1351	347	19	1
WSM	2546	767	28	0
Unknown/Other	18353	5168	58	0
<i>note that 78% of gonorrhea cases are missing risk, while &lt;15% of HIV prevalent cases are missing this information</i>				
<b>Local Health Jurisdiction</b>				
Allegan County	109	26 (23.9%)	0	0
Barry-Eaton	216	51 (23.6%)	1 (0.5%)	0
Bay County	99	29 (29.3%)	1 (1.0%)	0
Benzie-Leelanau	5	1 (20.0%)	0	0
Berrien County	407	157 (38.6%)	2 (0.5%)	0
Branch-Hillsdale-St. Joseph	218	47 (21.6%)	2 (0.9%)	0
Calhoun County	473	122 (25.8%)	7 (1.5%)	0
Central Michigan District	125	48 (38.4%)	1 (0.8%)	0
Chippewa County	7	1 (14.3%)	1 (14.3%)	0
Delta-Menominee	5	1 (20.0%)	0	0
Detroit LHD	6993	1971 (28.2%)	342 (4.9%)	11 (0.2%)

LHD Jurisdictions continued on next page

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 2020

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



Table 3: Gonorrhea-HIV Coinfections, 2020 (continued)

Population	Diagnosis Count	Diagnoses of Gonorrhea, 2020		
		Co-diagnosed w/ Chlamydia <sup>1</sup> n (%)	Coinfected w/ HIV <sup>2</sup> n (%)	Co-diagnosed w/ HIV <sup>3</sup> n (%)
Dickinson-Iron	4	0	0	0
District 2	13	1 (7.7%)	0	0
District 4	16	5 (31.3%)	0	0
District 10	151	45 (29.8%)	3 (2.0%)	0
Genesee County	1710	518 (30.3%)	22 (1.3%)	0
Grand Traverse County	41	4 (9.8%)	1 (2.4%)	0
Huron County	10	2 (20.0%)	0	0
Ingham County	923	238 (25.8%)	19 (2.1%)	0
Ionia County	55	10 (18.2%)	0	0
Jackson County	374	109 (29.1%)	5 (1.3%)	0
Kalamazoo County	1226	356 (29.0%)	25 (2.0%)	1 (0.1%)
Kent County	1949	551 (28.3%)	43 (2.2%)	1 (0.1%)
Lapeer County	41	8 (19.5%)	2 (4.9%)	0
Lenawee County	111	27 (24.3%)	3 (2.7%)	0
Livingston County	67	10 (14.9%)	0	0
Luce-Mack-Alger-School	1	0	0	0
Macomb County	1437	373 (26.0%)	60 (4.2%)	1 (0.1%)
Marquette County	11	2 (18.2%)	0	0
Midland County	40	12 (30.0%)	0	0
Mid-Michigan District	156	49 (31.4%)	2 (1.3%)	0
Monroe County	173	50 (28.9%)	1 (0.6%)	0
Muskegon County	681	231 (33.9%)	6 (0.9%)	0
Northwest MI Com Hlth Agency	24	3 (12.5%)	1 (4.2%)	0
Oakland County	1713	479 (28.0%)	86 (5.0%)	4 (0.2%)
Ottawa County	200	53 (26.5%)	1 (0.5%)	0
Saginaw County	749	135 (18.0%)	9 (1.2%)	0
Sanilac County	11	6 (54.5%)	0	0
Shiawassee County	56	17 (30.4%)	0	0
St Clair County	142	31 (21.8%)	2 (1.4%)	0
Tuscola County	18	5 (27.8%)	0	0
Van Buren-Cass	154	45 (29.2%)	1 (0.6%)	0
Washtenaw County	619	169 (27.3%)	15 (2.4%)	0
Wayne LHD	1875	521 (27.8%)	71 (3.8%)	3 (0.2%)
Western UP District	6	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) in 2020

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

Table 4: Chlamydia-HIV Coinfections, 2020

Population	Diagnosis Count	Diagnoses of Chlamydia, 2020		
		Co-diagnosed w/ Gonorrhea <sup>1</sup> n (%)	Coinfected w/ HIV <sup>2</sup> n (%)	Co-diagnosed w/ HIV <sup>3</sup> n (%)
Michigan Total	44833	6519 (14.5%)	485 (1.1%)	13 (0.0%)
<b>Age</b>				
14 and under	331	46 (13.9%)	0	0
15-19 years	12263	1925 (15.7%)	16 (0.1%)	0
20-24 years	16911	2237 (13.2%)	75 (0.4%)	5 (0.0%)
25-29 years	8166	1182 (14.5%)	128 (1.6%)	4 (0.0%)
30-39 years	5379	816 (15.2%)	176 (3.3%)	1 (0.0%)
40-49 years	1209	182 (15.1%)	53 (4.4%)	2 (0.2%)
50-59 years	439	102 (23.2%)	33 (7.5%)	1 (0.2%)
60+ years	135	29 (21.5%)	4 (3.0%)	0
<b>Race/Sex at birth</b>				
Black Female	11697	1911 (16.3%)	36 (0.3%)	0
Black Male	6961	1934 (27.8%)	298 (4.3%)	8 (0.1%)
Hispanic Female	1341	136 (10.1%)	2 (0.1%)	0
Hispanic Male	490	70 (14.3%)	15 (3.1%)	1 (0.2%)
Other Female	1858	193 (10.4%)	3 (0.2%)	0
Other Male	950	155 (16.3%)	16 (1.7%)	1 (0.1%)
White Female	9454	881 (9.3%)	7 (0.1%)	0
White Male	3415	365 (10.7%)	79 (2.3%)	3 (0.1%)
Unknown Female	5592	476 (8.5%)	6 (0.1%)	0
Unknown Male	3074		23 (0.7%)	0
<b>Transmission Risk</b>				
MSM/PWID	17	10	15	1
MSM	839	217	387	12
PWID	53	10	6	0
MSW	2269	347	5	0
WSM	7250	767	34	0
Unknown/Other	34405	5168	38	0
<i>note that 77% of chlamydia cases are missing risk, while &lt;15% of HIV prevalent cases are missing this information</i>				
<b>Local Health Jurisdiction</b>				
Allegan County	327	26 (8.0%)	1 (0.3%)	0
Barry-Eaton	584	51 (8.7%)	0	0
Bay County	331	29 (8.8%)	0	0
Benzie-Leelanau	46	1 (2.2%)	0	0
Berrien County	784	157 (20.0%)	2 (0.3%)	0
Branch-Hillsdale-St. Joseph	393	47 (12.0%)	1 (0.3%)	0
Calhoun County	712	122 (17.1%)	4 (0.6%)	0
Central Michigan District	518	48 (9.3%)	0	0
Chippewa County	68	1 (1.5%)	0	0
Delta-Menominee	77	1 (1.3%)	1 (1.3%)	0
Detroit LHD	9933	1971 (19.8%)	220 (2.2%)	6 (0.1%)

LHD Jurisdictions continued on next page

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 2020
3. Persons with both STI and HIV diagnoses within 30 days of each other (can be before or after or same date)

Table 4: Chlamydia-HIV Coinfections, 2020 (continued)

Population	Diagnosis Count	Diagnoses of Chlamydia, 2020		
		Co-diagnosed w/ Gonorrhea <sup>1</sup> n (%)	Coinfected w/ HIV <sup>2</sup> n (%)	Co-diagnosed w/ HIV <sup>3</sup> n (%)
Dickinson-Iron	68	0	0	0
District 2	112	1 (0.9%)	0	0
District 4	113	5 (4.4%)	0	0
District 10	572	45 (7.9%)	4 (0.7%)	0
Genesee County	2784	518 (18.6%)	9 (0.3%)	0
Grand Traverse County	245	4 (1.6%)	2 (0.8%)	0
Huron County	59	2 (3.4%)	0	0
Ingham County	1679	238 (14.2%)	8 (0.5%)	1 (0.1%)
Ionia County	194	10 (5.2%)	0	0
Jackson County	696	109 (15.7%)	2 (0.3%)	0
Kalamazoo County	1927	356 (18.5%)	23 (1.2%)	0
Kent County	3341	551 (16.5%)	39 (1.2%)	0
Lapeer County	148	8 (5.4%)	1 (0.7%)	0
Lenawee County	245	27 (11.0%)	0	0
Livingston County	299	10 (3.3%)	2 (0.7%)	0
Luce-Mack-Alger-School	46	0	0	0
Macomb County	3038	373 (12.3%)	32 (1.1%)	2 (0.1%)
Marquette County	207	2 (1.0%)	0	0
Midland County	163	12 (7.4%)	1 (0.6%)	0
Mid-Michigan District	495	49 (9.9%)	0	0
Monroe County	401	50 (12.5%)	1 (0.2%)	0
Muskegon County	1339	231 (17.3%)	1 (0.1%)	0
Northwest MI Com Hlth Agency	179	3 (1.7%)	1 (0.6%)	0
Oakland County	3925	479 (12.2%)	53 (1.4%)	1 (0.0%)
Ottawa County	799	53 (6.6%)	4 (0.5%)	0
Saginaw County	1241	135 (10.9%)	10 (0.8%)	0
Sanilac County	72	6 (8.3%)	1 (1.4%)	0
Shiawassee County	168	17 (10.1%)	0	0
St Clair County	363	31 (8.5%)	2 (0.6%)	0
Tuscola County	114	5 (4.4%)	0	0
Van Buren-Cass	372	45 (12.1%)	1 (0.3%)	1 (0.3%)
Washtenaw County	1565	169 (10.8%)	17 (1.1%)	0
Wayne LHD	3957	521 (13.2%)	42 (1.1%)	2 (0.1%)
Western UP District	134	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) in 2020

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

Table 5: STI-HIV Coinfections and the HIV Care Continuum, 2020

Persons Living with HIV (Prevalence), 2020					
Population	Prevalence Count	Diagnosed with an STI			
		Coinfected w/ at least 1 STI <sup>1</sup> n (% of PLWH)	In HIV Care <sup>A</sup> n (% of co-infected)	Virally Suppressed <sup>B</sup> n (% of co-infected)	Maintained Undetectable <sup>C</sup> n (% of co-infected)
<b>Michigan Total</b>	17375	1283 (7%)	1052 (82%)	752 (59%)	504 (39%)
<b>Age</b>					
14 and under	74	0	0	0	0
15-19 years	81	20 (25%)	20 (100%)	15 (75%)	10 (50%)
20-24 years	556	141 (25%)	121 (86%)	83 (59%)	60 (43%)
25-29 years	1485	290 (20%)	249 (86%)	170 (59%)	113 (39%)
30-39 years	3724	461 (12%)	386 (84%)	271 (59%)	176 (38%)
40-49 years	3353	192 (6%)	140 (73%)	106 (55%)	68 (35%)
50-59 years	4771	145 (3%)	108 (74%)	82 (57%)	60 (41%)
60+ years	3331	34 (1%)	28 (82%)	25 (74%)	17 (50%)
<b>Race/Sex at birth</b>					
Black Female	2431	51 (2%)	43 (84%)	32 (63%)	23 (45%)
Black Male	7177	849 (12%)	711 (84%)	491 (58%)	301 (35%)
Hispanic Female	206	9 (4%)	7 (78%)	1 (11%)	1 (11%)
Hispanic Male	907	66 (7%)	50 (76%)	41 (62%)	34 (52%)
Other Female	156	7 (4%)	3 (43%)	3 (43%)	1 (14%)
Other Male	549	44 (8%)	39 (89%)	28 (64%)	21 (48%)
White Female	767	17 (2%)	16 (94%)	9 (53%)	6 (35%)
White Male	5182	240 (5%)	183 (76%)	147 (61%)	117 (49%)
<b>Transmission Risk</b>					
MSM/PWID	659	42 (6%)	36 (86%)	18 (43%)	12 (29%)
MSM	9722	1030 (11%)	845 (82%)	621 (60%)	422 (41%)
PWID	924	19 (2%)	18 (95%)	12 (63%)	5 (26%)
MSW	736	26 (4%)	19 (73%)	11 (42%)	5 (19%)
WSM	2542	58 (2%)	47 (81%)	32 (55%)	24 (41%)
Unknown/Other	2792	108 (4%)	87 (81%)	58 (54%)	36 (33%)
<b>Local Health Jurisdiction</b>					
Allegan County	127	2 (2%)	2 (100%)	2 (100%)	0
Barry-Eaton	120	3 (3%)	3 (100%)	1 (33%)	1 (33%)
Bay County	85	2 (2%)	2 (100%)	2 (100%)	2 (100%)
Benzie-Leelanau	16	0	0	0	0
Berrien County	247	8 (3%)	6 (75%)	3 (38%)	2 (25%)
Branch-Hillsdale-St. Joseph	87	4 (5%)	3 (75%)	3 (75%)	2 (50%)
Calhoun County	206	9 (4%)	7 (78%)	5 (56%)	5 (56%)
Central Michigan District	141	5 (4%)	4 (80%)	2 (40%)	0
Chippewa County	16	0	0	0	0
Delta-Menominee	30	1 (3%)	0	0	0
Detroit LHD	5414	573 (11%)	488 (85%)	331 (58%)	200 (35%)

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) in 2020

A. 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.

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

C. Maintained Undetectable - PLWH who maintained viral load levels &lt;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.

Table 5: STI-HIV Coinfections and the HIV Care Continuum, 2020 (continued)

Population	Prevalence Count	Persons Living with HIV (Prevalence), 2020			
		Coinfected w/ at least 1 STI			
		Coinfected w/ at least 1 STI <sup>1</sup> n (% of PLWH)	In HIV Care <sup>A</sup> n (% of co-infected)	Virally Suppressed <sup>B</sup> n (% of co-infected)	Maintained Undetectable <sup>C</sup> n (% of co-infected)
Dickinson-Iron	14	1 (7%)	1 (100%)	1 (100%)	0
District 2	30	0	0	0	0
District 4	45	0	0	0	0
District 10	163	5 (3%)	5 (100%)	4 (80%)	2 (40%)
Genesee County	624	34 (5%)	29 (85%)	21 (62%)	18 (53%)
Grand Traverse County	95	4 (4%)	4 (100%)	3 (75%)	3 (75%)
Huron County	7	0	0	0	0
Ingham County	470	29 (6%)	16 (55%)	12 (41%)	8 (28%)
Ionia County	33	0	0	0	0
Jackson County	167	10 (6%)	6 (60%)	4 (40%)	3 (30%)
Kalamazoo County	409	37 (9%)	33 (89%)	23 (62%)	18 (49%)
Kent County	1137	79 (7%)	61 (77%)	50 (63%)	40 (51%)
Lapeer County	44	5 (11%)	5 (100%)	3 (60%)	2 (40%)
Lenawee County	54	3 (6%)	2 (67%)	1 (33%)	1 (33%)
Livingston County	97	2 (2%)	2 (100%)	2 (100%)	1 (50%)
Luce-Mack-Alger-School	18	0	0	0	0
Macomb County	1302	103 (8%)	82 (80%)	66 (64%)	47 (46%)
Marquette County	42	1 (2%)	1 (100%)	0	0
Midland County	42	1 (2%)	1 (100%)	1 (100%)	1 (100%)
Mid-Michigan District	119	6 (5%)	4 (67%)	3 (50%)	3 (50%)
Monroe County	117	4 (3%)	2 (50%)	1 (25%)	0
Muskegon County	191	8 (4%)	7 (88%)	6 (75%)	6 (75%)
Northwest MI Com Hlth Agency	64	1 (2%)	0	0	0
Oakland County	2211	148 (7%)	124 (84%)	92 (62%)	56 (38%)
Ottawa County	148	5 (3%)	4 (80%)	1 (20%)	1 (20%)
Saginaw County	255	13 (5%)	12 (92%)	9 (69%)	7 (54%)
Sanilac County	27	1 (4%)	0	0	0
Shiawassee County	49	2 (4%)	0	0	0
St Clair County	119	4 (3%)	3 (75%)	1 (25%)	0
Tuscola County	15	0	0	0	0
Van Buren-Cass	85	6 (7%)	6 (100%)	6 (100%)	6 (100%)
Washtenaw County	591	33 (6%)	24 (73%)	20 (61%)	12 (36%)
Wayne LHD	1788	126 (7%)	100 (79%)	71 (56%)	55 (44%)
Western UP District	34	1 (3%)	1 (100%)	1 (100%)	0
Unknown Jurisdiction	1	0	0	0	0
Prisons*	279	4 (1%)	2 (50%)	1 (25%)	1 (25%)

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis) in 2020

A. 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.

B. 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.

C. 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.

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